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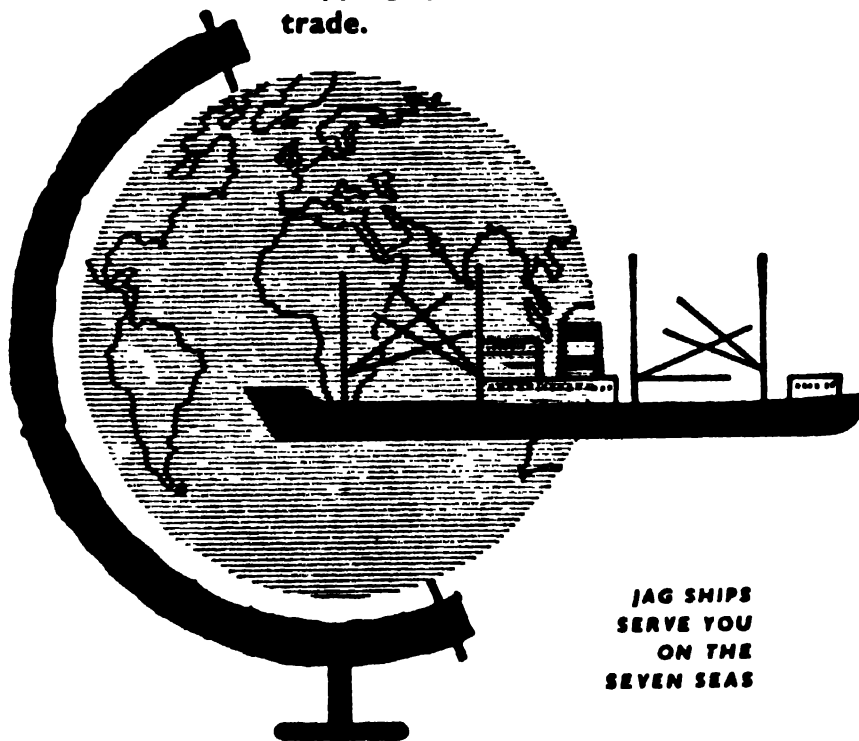
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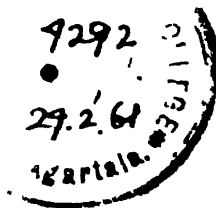
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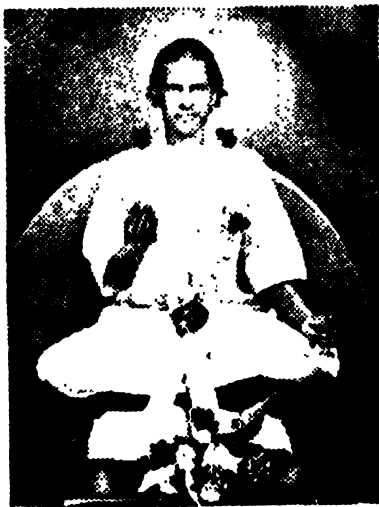
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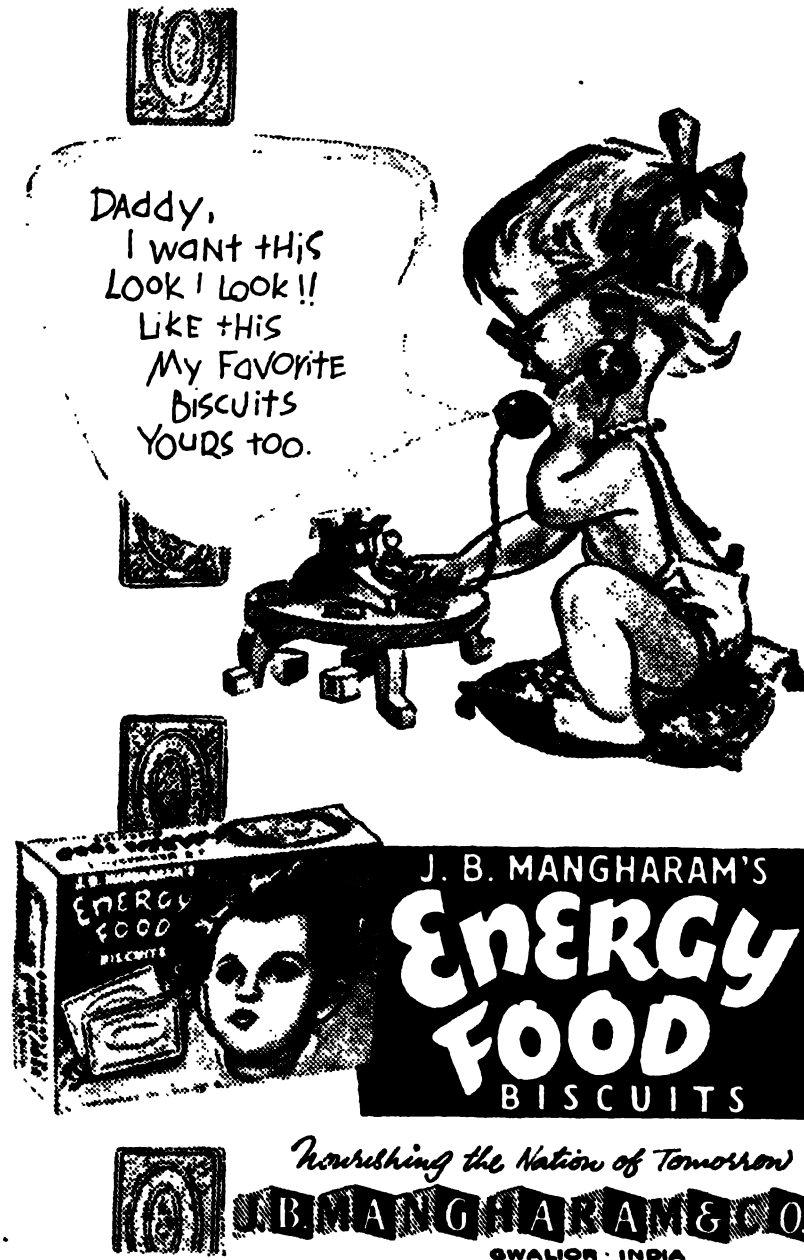
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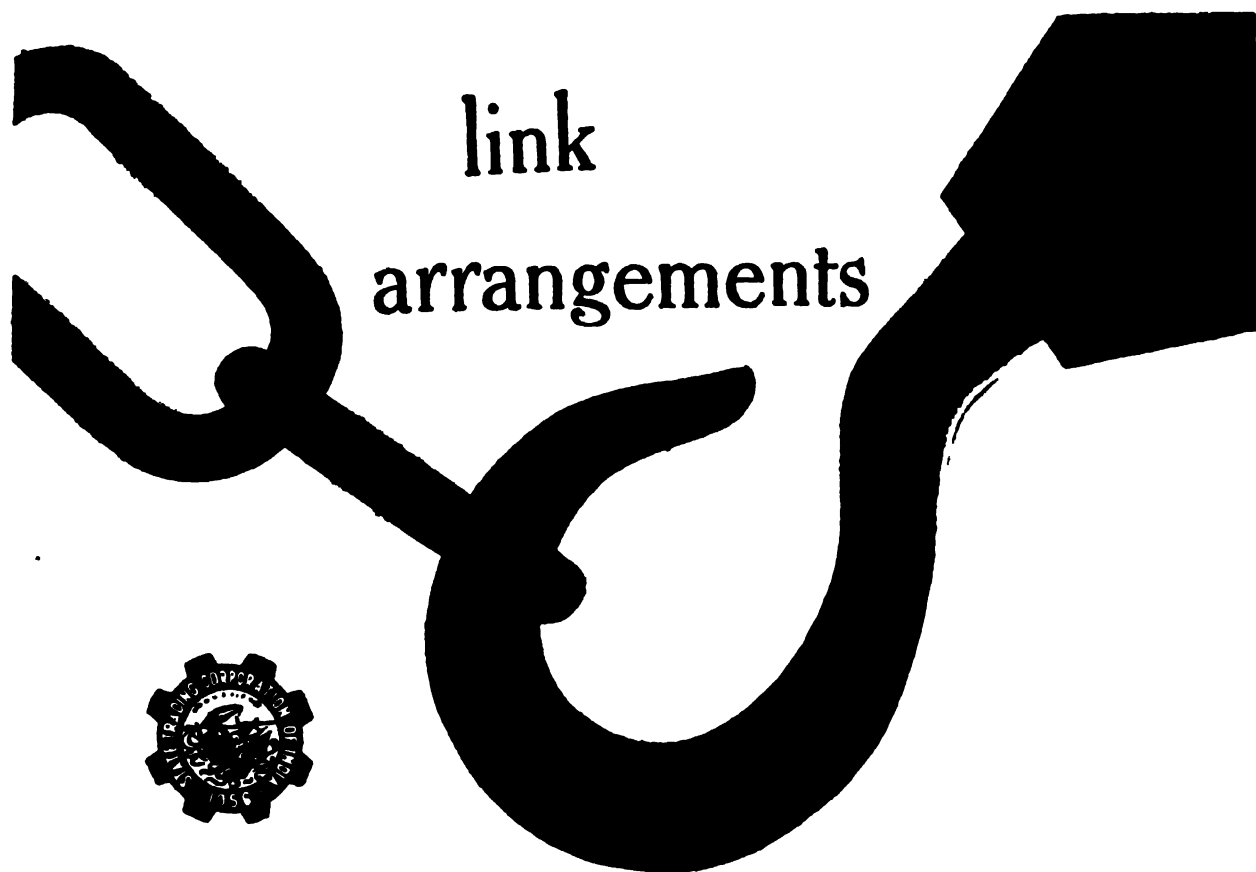
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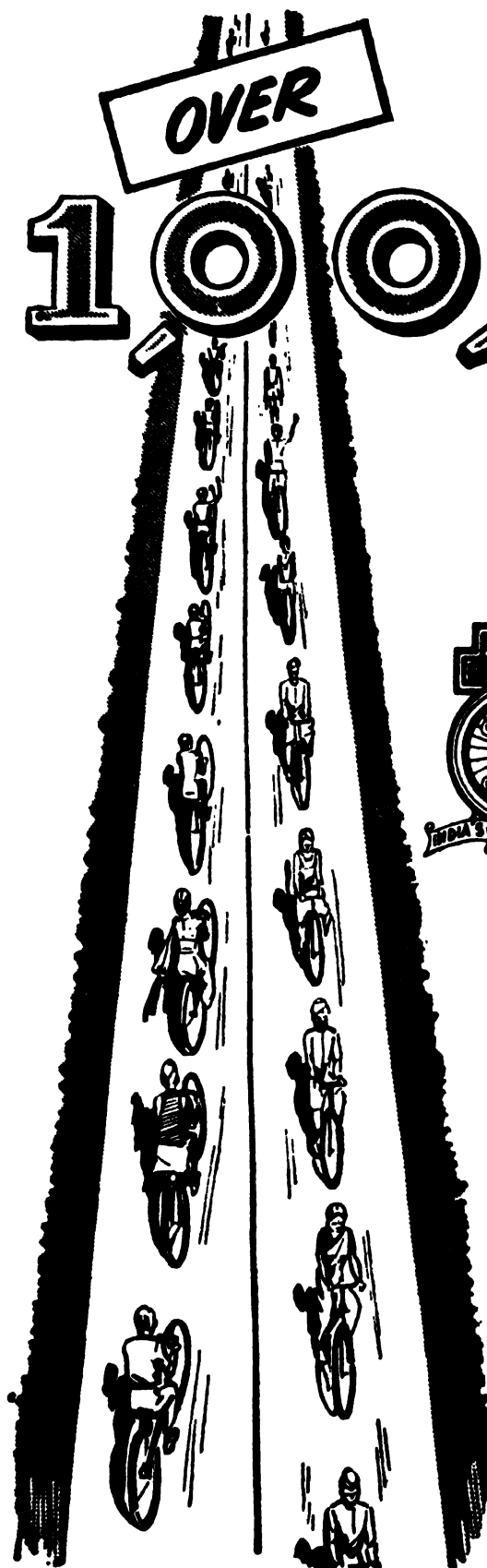
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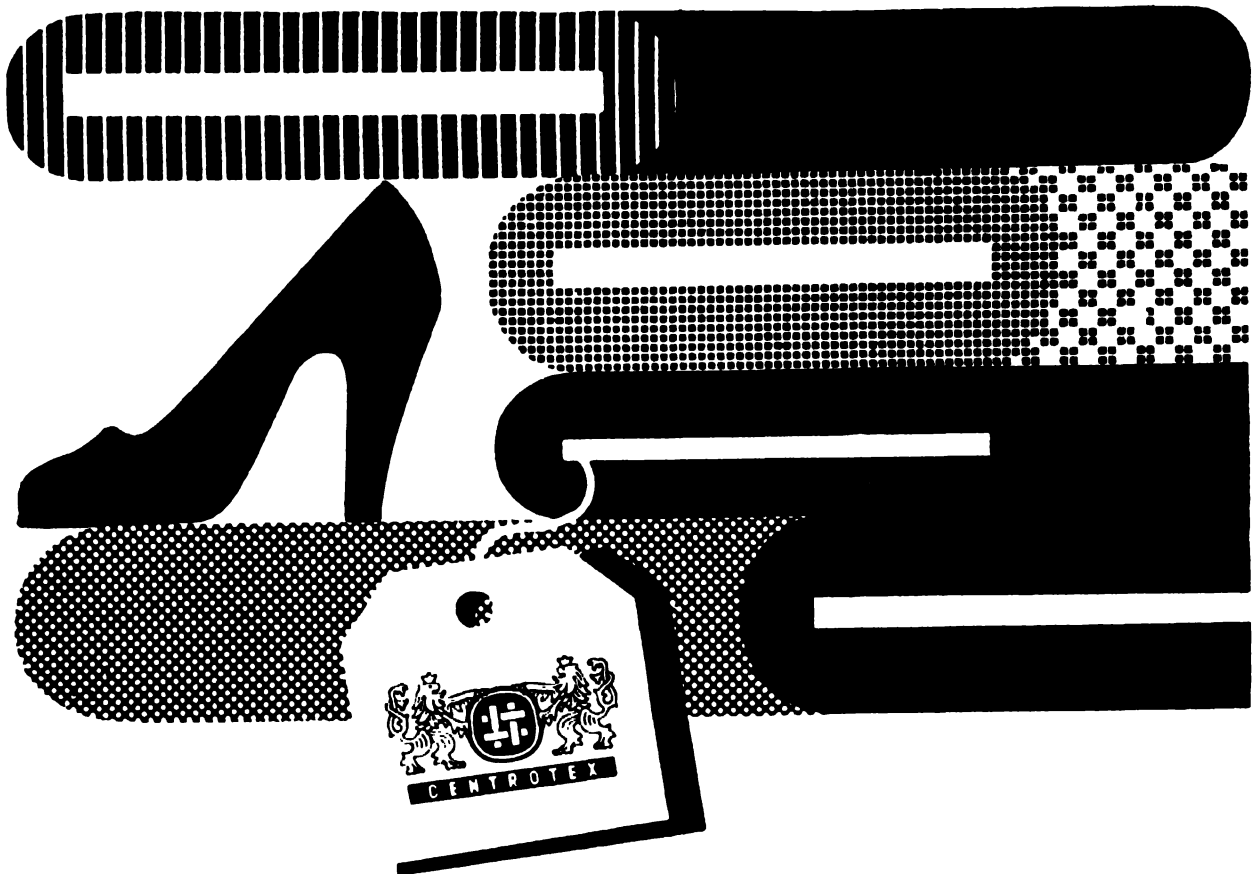
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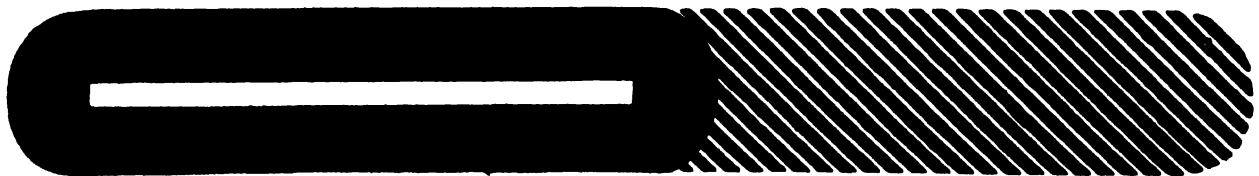


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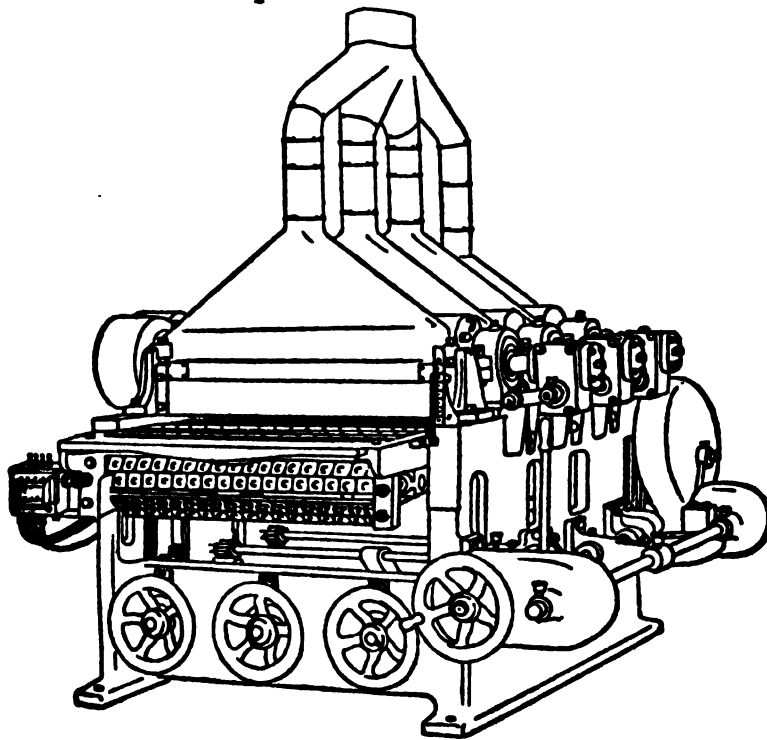
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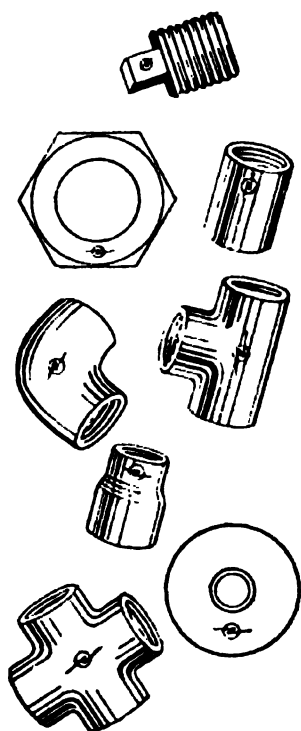


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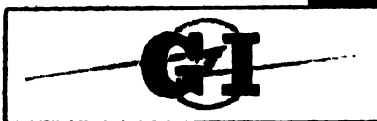
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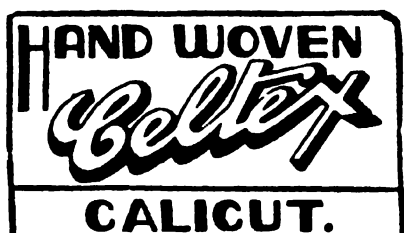
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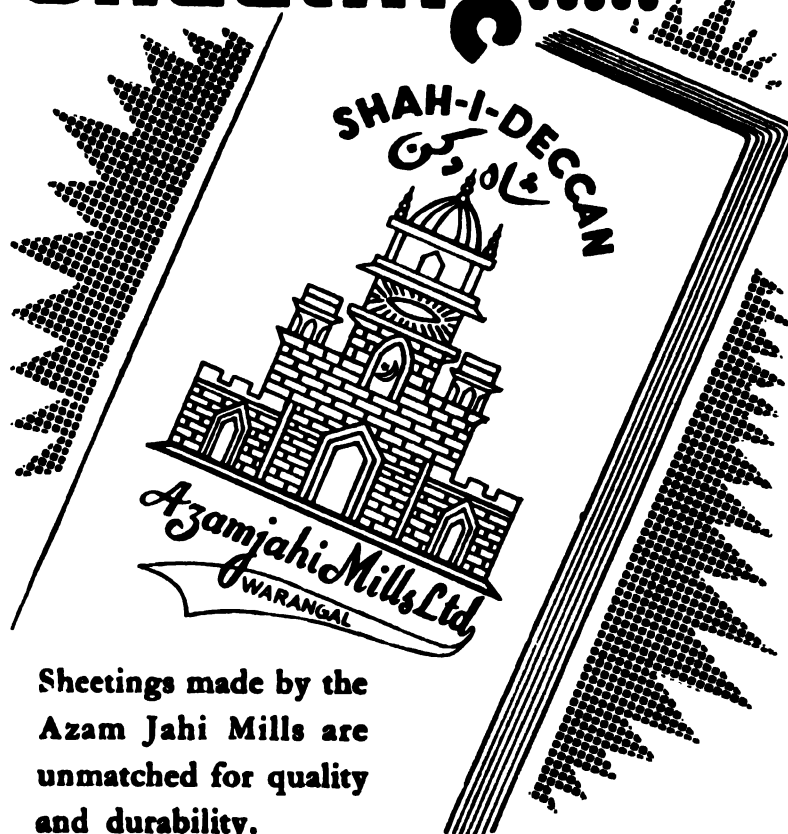
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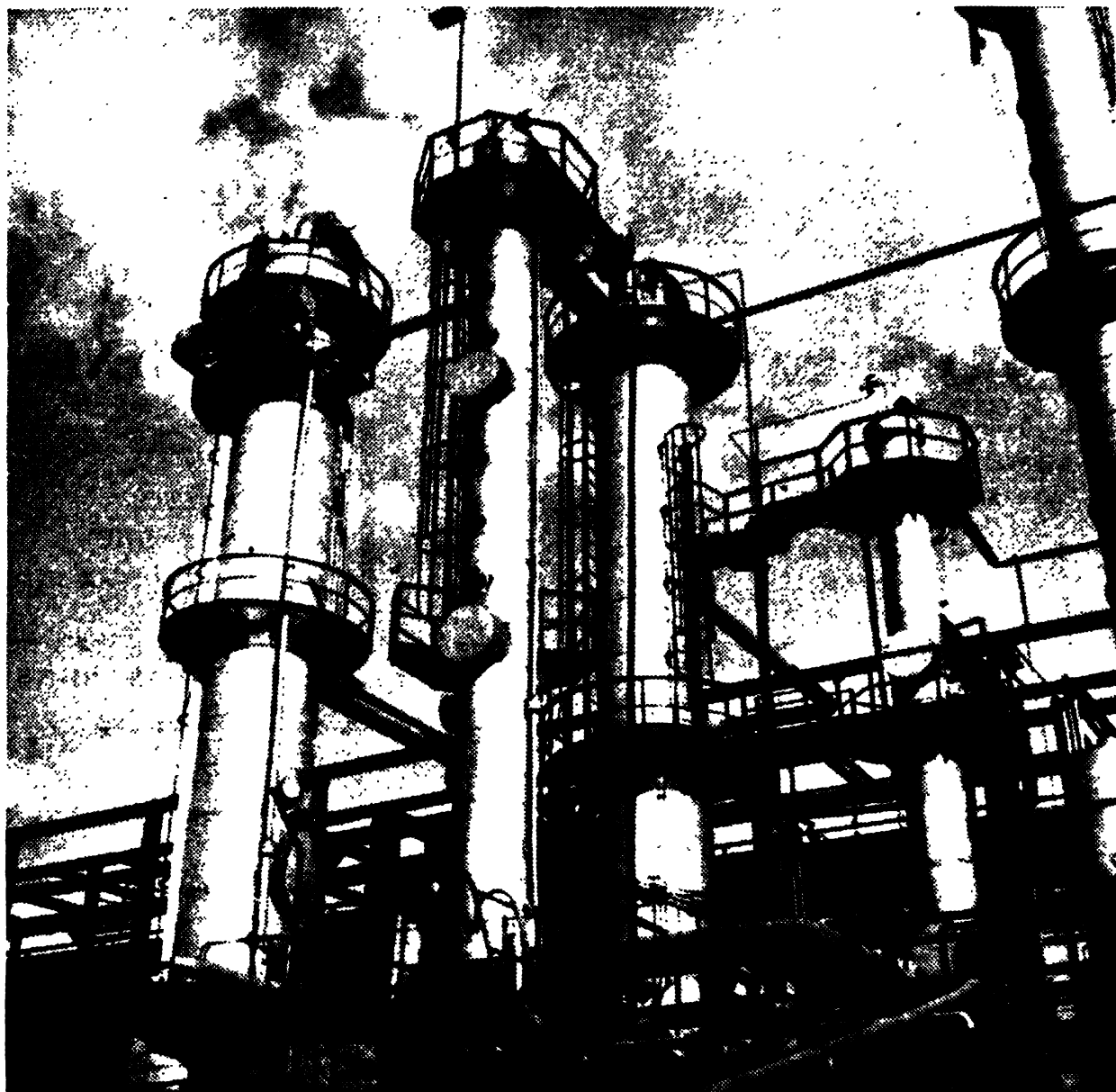
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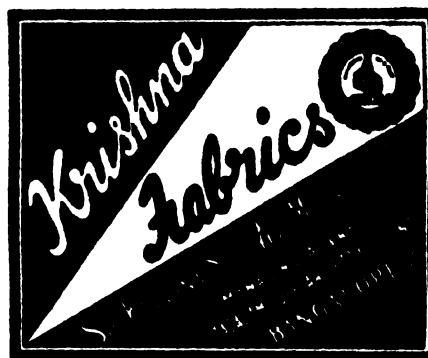
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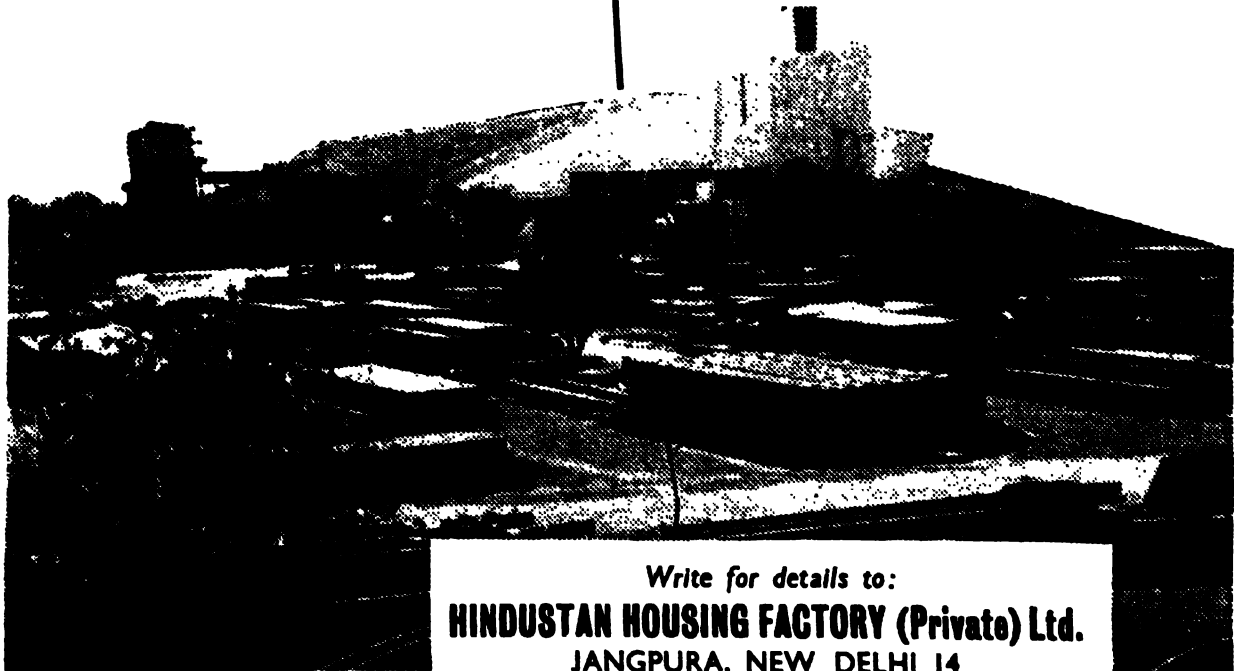
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Delhi 6. Phone: 24584. Grams: "JOINTCLIP".

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Phone: 34648. Grams: "LAXELEC".

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Phone: 23898. Grams: "PARAMITE."

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ELECTRIC STORES**

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Phone: 263816 Grams: "MORPHY"

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Accessories.

**ELECTRICAL GOODS
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ABDULLABHAI FAIZULLABHAI

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Factory: 85, Mori Road, Mahim,
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Phone: 72587.

Grams: "EKMITILE."

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(For details see
page 476).



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chandlery stores.

Exporters & Importers.

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Phone : 22524. GRAMS : "VENUS."

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VENTILATING PLANT**THE VISCO ENGINEERING
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Agents :

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7, Hastings Street, Calcutta.**WATER COOLERS (MECHANICAL)****THE VISCO ENGINEERING
COMPANY LTD.**STAFFORD ROAD,
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Agents :

Geo. Miller & Co. Private Ltd.,
7, Hastings Street, CALCUTTA**WATER COOLING TOWERS****THE VISCO ENGINEERING
COMPANY LTD.**STAFFORD ROAD,
CROYDON, ENGLAND.

Agents :

Geo. Miller & Co. Private Ltd.,
7, Hastings Street, CALCUTTA.

PHYSIOGRAPHY

GEOGRAPHICALLY the mass of land today called India consists of the territories contained in the Union of India and the Portuguese possessions of Goa, Daman and Diu.

The State of Pondicherry, Karikal, Mahe and Yanam (formerly French) is a *de facto* but not *de jure* part of India, though a treaty for a *de jure* transfer has been signed. This treaty awaits ratification by the Governments of India and France.

STATES, TERRITORIES

The country is divided into 14 States and six Territories. The latter are under Central administration.

The fourteen States (with the capital towns in brackets) are:

Andhra Pradesh (Hyderabad), Assam (Shillong), Bihar (Patna), Bombay (Bombay), Kerala (Trivandrum), Madhya Pradesh (Bhopal), Madras (Madras), Mysore (Bangalore), Orissa (Bhubaneswar), Punjab (Chandigarh), Rajasthan (Jaipur), Uttar Pradesh (Lucknow), West Bengal (Calcutta), Jammu and Kashmir (Srinagar).

The six Territories (with capital towns in brackets) are:

The Andaman and Nicobar Islands (Port Blair), the Laccadive, Minicoy and Amindivi Islands (temporary headquarters: Kozhikode, Kerala), Delhi (Delhi), Himachal Pradesh (Simla), Manipur (Imphal), Tripura (Agartala).

These States and Territories came into being on 1st November, 1956.

In addition there are two territorial units: The North-East Frontier Agency and the Naga Administrative Unit.

GEOGRAPHY

India is about 1,700 miles from east to west, and about 2,000 miles from north to south. Its land frontier is about 8,200 miles long and the sea frontier about 3,600 miles.

The total land area is 1,269,640 sq. miles.

The total population is 356,879,394* (1951 census) a little less than one-sixth of the population of the whole world.

This population grows roughly at the rate of about four and half millions a year. The 1956 population is estimated at 397.6 millions.

The land frontier with Pakistan is about 3,000 miles long (east and west together).

In shape India is like a triangle with its base lying on the Himalaya Mountains in the north and its apex running far into the ocean in the south. At the southern extremity the triangle tapers with a pear-shaped curve to a point called Comorin.

India lies entirely to the north of the equator. From south to north including Kashmir, it passes from 8° north latitude to 37° north latitude, with the Tropic of Cancer cutting roughly into two halves. West to east it passes from about 68° 20' east longitude to 92° east longitude.

Broadly speaking, India is shut off from the rest of Asia by the Himalaya Mountains, the highest mountain range in the world. Going west to east along the country's land frontier are Pakistan, Chinese Turkestan, Tibet, Burma and Pakistan.

To the south, the country is surrounded on all sides by water—the Arabian Sea in the west, the Indian Ocean in the south and the Bay of Bengal in the east.

India is so vast and diversified that expressions like 'average rainfall', 'average temperature' have no meaning. The average annual rainfall in the Thar desert is 4 inches, while that in Manganj is 455.

Similarly places in Kashmir have a minimum temperature of 49° F. while places in Rajasthan have recorded a maximum temperature of 120° F. So one can only speak of local averages rather than of national averages.

Compared with the size of the country, the coast-line is short, as there are few bays or inlets. Hence there are also very few harbours. The fact is the west coast is rocky and the sea is deep near the coast, while in the east the sea is extremely shallow so that big ocean-going ships have to weigh anchor at some distance from the shore.

The only so-called natural harbours are Bombay and Goa, while Madras, Vishakapatnam and Port Okha are examples of purely artificial harbours built by human enterprise.

The principal ports in India are (going from west to east along the coast), Kandla, Bedi Bunder, Port Okha, Porbandar, Surat, Bombay, Marmugao, Mangalore, Kozhikode (Calicut), Cochin, Alleppey, Quilon, Tuticorin, Dhanushkodi, Nagapatnam, Karikal, Cuddalore, Pondicherry, Madras, Masulipatnam, Kakinada, Vishakapatnam and Calcutta.

Of these, Marmugao belongs to Portugal while the rest are in the Republic of India.

MOUNTAIN WALL

India can be divided into three natural regions—1. the mountain wall, 2. the Plain of Hindustan, and 3. the Indian Plateau.

Let us take the mountain wall first. From the Pamir Knot in the far north two mountain ranges radiate one in the south-east and easterly direction called the Himalayas, and the other in a south-western direction reaching almost down to the sea, called the Sulaiman Range in the north and the Kirthar Range in the south.

In the east the mountain wall between India and Burma is called by different names in different places. In the north, for instance, it is known as the Patkoi Hills, further south as the Naga Hills. In Assam it is called Jaintia, Khasi and Garo. Southward are the Lushai Hills, then lastly there are the Arakan Yoma which finally reach the sea at Cape Negrais and continue in the Andaman and Nicobar Islands.

Of the various ranges which constitute the mountain wall of India the Himalayas are the most note-worthy. Extending like a scimitar for a distance of 1,500 miles along the northern frontiers of the country they form the loftiest mountain range in the whole world, and contain many of the highest mountain peaks, Mount Everest 29,141 ft., Mount Godwin Austen 28,250 ft., and Kanchenjunga 28,146 ft.

There are no easy ways in and out through the mountain wall which shuts off India from the rest of Asia, but there are a few difficult passes. In the very north are the Zojila Pass and the Shipki Pass which lead out of Kashmir and Punjab respectively. Then from Shipki right down to Darjeeling there is no route across the mountain wall. Across the Burma frontier again there are a few routes but they are of little use for purposes of communication.

The following is a more detailed description of the mountain region.

In the east on the border of Burma the mountain wall is much lower. Here it can more accurately be described as a range of hills rather than of mountains. This region is wet, forested and very thinly populated. The region round about Cherrapunji in Assam has the highest rainfall in the world.

Then from Darjeeling to Kashmir are the Himalayas proper, over 1,500 miles in length and 150 to 300 miles in breadth. The Himalayas are thus not a mountain chain in the proper

sense of the word. They can be described as a series of parallel but converging ranges intersected by valleys and big plateaus.

Hence the Himalayas themselves can be further sub-divided into three parallel zones, the Great Himalayas with an average elevation of 20,000 ft., always covered with snow; the Lesser Himalayas, the middle range, with an average elevation of 15,000 feet; and finally the Outer Himalayas lying between the Lesser Himalayas and the plains with an average elevation of about 3,500 feet.

Two of the longitudinal valleys which separate the mountain ranges are worth a note. They are the Vale of Kashmir and the valley of Kaiman in Nepal. Both the valleys are fertile, extensive and from a tourist's point of view a dream of beauty.

PLAIN OF HINDUSTAN

Geologically, the Ganges plain can be considered as the fore-deep of the mountains to the north of it. This fore-deep extends thousands of feet below the sea-level, though since its formation it has been filled in by deposit. In the east this deposit consists of alluvial material from the mountains, in the west it consists of material blown by the wind. All through the deposit is fine grained made up chiefly of muds and sands.

The Plain of Hindustan extends from the Bay of Bengal in the east to the Pakistan frontier in the west; that is to say, it is about 1,500 miles long and from 150 to 200 miles broad. Throughout this vast tract of land not a hill can be seen. The slope from the mountains to the sea is so gradual that about 100 miles from the mouth of the River Ganges the surface is no more than 500 feet above sea-level.

The Plain of Hindustan is probably the most important part of the country. For one thing, it contains some of the richest soil in the world. Second, it is on the Plain of Hindustan that the whole drama of race conflict and race assimilation was played out, a drama which finally shaped the political and cultural destiny of both India and its neighbour Pakistan.

Going into more detail the Plain of Hindustan is formed by the basins of three distinct river systems. In the far west are the Beas and Sutlej, tributaries of the Indus draining into the Arabian Sea. Further east is the River Ganges with its tributaries the Yamuna, Gomti, Ghaghara and Gandak which flows south-eastwards into the Bay of Bengal. The capital of the Indian Republic Delhi stands on the watershed between the Indus and the Ganges river basins. The third of the three river systems, the Brahmaputra rises beyond the Himalayas, turns east and enters India at its eastern extremity and joins the Ganges before reaching the Bay of Bengal. The Brahmaputra has no important tributaries.

The rivers of Hindustan are notable in three respects: 1. They give a constant supply of water, 2. The land through which they flow is broad, flat and fertile and eminently suitable for irrigation, 3. Because water flows perennially they are navigable through the greater part of the year.

As we go from west to east in the plain rainfall increases and so do the fertility of the soil and the density of population.

INDIAN PLATEAU

The third of the natural regions into which the country is divided is called the Indian Plateau because it comprises a three-sided table-land covering the whole of the country in the south except for two narrow coastal strips in the east and the west.

* Including Kashmir, the population of which was estimated at 4.41 millions in 1951.

The Indian Plateau is marked off from the Plain of Hindustan by a confused mass of hill ranges running with a general direction of east to west. Three of these ranges have been distinguished by the names of Vindhya, Satpura and Ajanta respectively. They stand from 1,500 feet to over 4,000 feet high and though pierced by road and railway at the present time were not easy to cross in the old days and thus formed a barrier of hill and jungle between the northern and the southern portions of the country.

The Indian Plateau is higher in the west and the south than in the east and north. Along the western and eastern edge of the plateau run the Western and Eastern Ghats. They start southward, from the extremities of the Vindhya mountain system and run along the western and eastern coasts of the country and unite to form a sort of upheaved angle towards their southern extremity.

The Western Ghats run through the States of Bombay and Mysore and ascend to an average height of about 3,000 feet while some of the peaks are anything between 5,000 feet and 9,000 feet high.

The Eastern Ghats stretch down the States of Andhra Pradesh and Madras and have an average elevation of 1,500 feet.

The inner triangular plateau which the Western and Eastern Ghats form far in the south is seamed with little ranges of hills exceeding 4,000 feet in height the best known among which are the Nilgiris. It is on the Nilgiris that Ootacamund the famous summer capital of Madras State stands.

Drainage Systems.—There are three systems of drainage in the Indian Plateau—one towards the north, the second towards the west and the third towards the east. The drainage from the northern or Vindhya edge of the plateau falls into the Ganges. Two rivers Karmada and Tapi carry the rainfall of the southern slopes of the Vindhya and Satpura mountains respectively in almost parallel lines into the Arabian Sea.

Further south, as we have already stated, the plateau is much higher in the west than the east. So the drainage has to make its way across the whole breadth of the plateau eastwards until it falls into the Bay of Bengal.

The most important rivers are the Mahanadi, the Godavari, the Krishna and the Cauvery. These rivers differ from the rivers of the Plain of Hindustan in three ways: 1. They are fed only by the monsoon rains and therefore do not yield a constant supply of water. 2. Their valleys are less suitable for irrigation. 3. And finally, they are not navigable for certain seasons in the year when parts of the river dry up.

From a geological point of view the Indian Plateau consists mainly of very old crystalline rocks—much older than the Himalayan fold mountains.

On some of the edges of the plateau in the north-east for instance, are areas of sedimentary rocks from which the country obtains most of its coal. About nine-tenths of the coal resources of India lie in Jharia in Bihar and Raniganj in West Bengal, though coal-bearing beds are also found in the valley of the Godavari and the northern slopes of the Vindhyas.

The north-west of the plateau is covered by vast stretches of lava called the Deccan lavas. This region is one of the largest areas of lava in the world, covering as it does an area of 250,000 square miles with a total thickness of several thousand feet. In spite of the great extent of the lavas there are few or no signs of volcano.

In the rest of the Plateau valuable minerals occur here and there among old crystalline rocks. Gold is obtained in Mysore, manganese in Andhra, Mysore and Madhya Pradesh, copper and iron in Bihar and Orissa, mica in Andhra and the south-east. The point about diamonds is of some interest. They occur in sand-stones or conglomerate in Panna in Madhya Pradesh or Kurnool in Andhra, though no diamond bearing igneous rocks are found.

Ceylon is the only important island lying off the coast of India to which it is joined by a line of sand flats collectively called Adam's Bridge. But Ceylon is politically separate from the sub-continent.

Two groups of very small islands in the Bay of Bengal, the Andamans and the Nicobars, and one group in the Arabian Sea the Laccadives are part of the Republic of India.

So is the quasi-island of Kutch off the Kathiawar Peninsula in western India. Kutch is a dry, rocky, treeless country.

VEGETATION

India is thickly populated and so over the greater part of the country the natural vegetation has been removed. The country has no distinctive botanical features peculiar to itself.

Where the rainfall is more than 80 inches a year there are evergreen forests on the hills. The wood from these forests is hard but the forests have not yet been commercially exploited. These evergreen forests are chiefly found on the slopes of the Western Ghats, the wetter eastern parts of the Himalayas up to a level of 5,000 feet, and in Assam.

Where the rainfall is less than 80 inches but more than 40 we have what are called the monsoon forests, so-called because the trees in these forests lose their leaves in the dry season. The monsoon forests are very valuable, because they contain two of the most useful kinds of tree, the teak and the sal. The teak is found chiefly in the western parts of the country while the sal is obtained in the lower slopes of the Himalayas and the north-east of the Plateau.

Where the rainfall is less than 40 inches, in the drier parts of the country we find small thorny trees, sometimes so small that they are more like bushes than like trees.

In the driest parts where the land is desert or semi-desert even bushes cannot grow. There we find plants with thick fleshy stems and long roots.

There is not much grass land in India though in the hills in the monsoon grass patches can be seen.

The main cultivated plants include rice, wheat, pulses and grains. Among the important seeds grown are castor, sesamum and ground-nut.

The chief fruit trees include mango, coconut, arecanut and certain citrus fruit. Apples, peaches, pears, apricots and walnuts are confined chiefly to the Himalayan valleys.

There are tea plantations over large areas on the mountains in the north-east and south, while coffee, cardamom, pepper and rubber are extensively grown in the south. In some of the damper regions the cinchona is successfully cultivated.

ANIMALS

Just as natural vegetation has disappeared over the greater part of the land so have a great many wild animals. The lion, for instance, was not uncommon within historical times in the north. Today it is confined wholly, to the Gir forest in Junagadh in Bombay State.

The most famous among the wild animals which survive are the tiger and the elephant. The leopard or panther is more common than the tiger and equally destructive of life and property. The cheetah or the hunting leopard is found only in the Deccan and is generally trained for hunting the antelope. Other wild Indian animals of the cat family are the marbled cat and the jungle cat.

In the open country-side wolves are plentiful and usually prey on sheep. The Indian fox is comparatively scarce but the jackal is very common. The wild dog is found in the denser jungles and generally hunts in packs. Among other dogs are the pariah common in the south, and the greyhound used for hunting.

The black bear is common wherever rocky hills and forests occur. It lives on ants, honey and fruit and may often prove dangerous.

The Himalayan bear which is found only in the north, stays in the mountains during the summer but comes lower down during the winter.

The rhinoceros found in the country are of three different types, two have a single horn and one has double. The rhinoceros is commonest in the Brahmaputra valley and in the Sunderbans. With the rhinoceros might be mentioned the crocodile which can be very dangerous specially in the rivers of the north. The wild hog is also well-known in certain parts of the country and is very destructive of crops.

In the remote parts of the deserts of Kutch is found the wild ass but its contacts with man are few. Many wild varieties of sheep and goat are met with in the mountain ranges of the north.

The antelope proper is more widely distributed. On the coasts of Gujarat and Orissa, for instance, a herd of does accompanied by a single buck is a common sight. The gazelle can also be found almost everywhere. The sambar is confined to hill forests, while the spotted deer is considered to be the most beautiful animal of the Indian jungle.

In the Western Ghats, and in the hill jungles of Assam, Bombay and Madhya Pradesh is found the bison. It is a fierce animal and almost as dangerous to hunt as the tiger. Akin to the bison is the wild buffalo very common in Assam.

The rat and the mouse are a perpetual nuisance. The bandicoots some of which can be as long as 2 feet burrow under stores and godowns and are often deadly to plants, fruit or grain.

Reptiles abound in garden and jungle and even intrude into dwelling places specially during the rains. Thousands of people die every year in the country-side of snake-bite. The most dreaded of the reptiles is the cobra. There is another variety called Russell's viper whose bite is equally fatal. Generally speaking the salt-water snakes are dangerous while the fresh-water ones are harmless. The bigger variety scorpion which abounds in parts of Madras and Andhra is a domestic terror.

Of all the wild animals in the country the elephant is the most interesting as well as the most useful. It generally lives in the wilder parts of the monsoon forests and being an intelligent animal can be trained to do heavy work such as dragging great logs of wood, or arranging them in neat piles. The elephant is also excellent as a transport animal as it can push its way through the thickest jungle where roads cannot be built.

Domestic Animals.—So much for the wild animals. Among the domestic animals the most useful are the oxen. It is estimated that there are about 150 million cattle in India. Milk is not a staple article of food and the oxen are chiefly used for ploughing or drawing carts. The bullocks are more valuable than the cows though in certain parts like Uttar Pradesh dairy-farming is an important industry. One handicap is that in most areas fodder has to be specially grown for the cattle.

There are 45 million buffaloes in the country. The buffalo is stronger than the bullock and is chiefly used for ploughing. The she-buffalo is the typical dairy animal.

There are 30 million sheep in the country. But they are a very poor specimen and do not give good wool or meat. Sheep are most numerous in Madras and live chiefly on waste land which is not good enough for cattle. Goats (57 million) are found everywhere because it does not take much to keep them alive. They can feed on the poorest grass or shrub and so find enough to eat even in the driest parts of the country.

There are 1.5 million horses and ponies and about 60,000 mules and 1.2 million donkeys, most of which are used as draught animals. Mules, donkeys and camels are also used for purposes of transport: mules and donkeys on the hilly parts, and camels in the sandy desert.

The total number of live-stock in the country is 307 million.

There are also about 91 million fowls and about 6 million ducks.

The birds of India though not as gorgeous as those of some other tropical lands deserve mention. The parrot is easily the most beautiful of the Indian birds. The peacock is another beautiful bird, while the maina like the parrot lives happily in a cage and talks well. Of the vulture there are four varieties which in-

clude the common scavenger. There are many types of eagle too and some of the falcons can be trained for hawking. A bird much sought after for its plumage is the kingfisher and among the birds which are hunted for their flesh are pigeons, ducks, partridges, plover, quail and snipe. The jungle fowl, however, is not considered good for eating.

There are many beautiful butterflies in India, while among the more useful insects are the bee, the silk-worm, the cocoon lac, that is, the insect which gives lac. Cer-

tain varieties of Indian moth and ant are very destructive. Locust invasions are not frequent but when they appear they leave complete destruction behind them. Mosquitoes abound everywhere.

In India fish is eaten fresh as methods of fish preservation are either primitive or not practised. Among the edible Indian fishes are the carp family and the cat fishes. But the most delicious is the hilsa which is also a rich food. A fish which is found in all hill streams is the mahseer.

METEOROLOGY

Normal Monthly and Annual Maximum Temperature in Shade at Selected Stations in India.

Stations	Elevation in metres	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
HILL STATIONS		° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.
Darjeeling	2,127	9.2	10.1	13.8	17.3	17.8	18.8	19.6	19.4	19.2	17.6	14.4	11.2	15.7
Shillong	1,500	15.6	16.9	21.3	23.4	23.3	23.6	24.1	23.9	23.5	21.7	18.9	16.4	21.1
Simla	2,202	8.6	9.3	13.9	18.8	22.9	23.9	21.6	20.2	20.2	17.9	14.6	10.3	16.9
COASTAL STATIONS														
Bombay	11	28.4	28.4	30.1	31.7	32.8	31.4	29.7	29.4	29.7	31.6	31.9	30.3	30.5
Madras	16	29.6	31.3	33.0	35.3	36.5	37.6	35.7	34.9	34.4	32.3	29.7	28.9	33.4
STATIONS ON THE PLAINS														
Allahabad	98	23.8	26.2	33.2	39.2	41.7	39.3	33.4	31.9	33.1	32.4	28.6	24.3	32.3
Calcutta	6	26.4	28.7	33.6	36.0	35.3	33.0	31.9	31.7	32.2	31.8	29.0	26.3	31.4
Kanpur	126	22.2	25.0	31.9	37.4	41.2	39.3	33.6	32.1	32.7	32.9	28.2	23.3	31.7
Cuttack	27	24.4	31.2	35.9	38.4	38.6	35.3	31.9	31.7	32.2	32.1	29.4	27.3	31.0
New Delhi	216	21.1	24.3	30.6	37.1	41.2	40.2	35.1	33.6	33.7	33.3	28.8	23.1	31.8
Lucknow	113	23.3	25.9	32.7	38.6	40.8	37.9	33.6	32.5	33.3	33.0	28.8	24.4	32.1
Patna	53	22.8	25.4	32.1	37.2	37.9	35.7	32.6	31.7	32.1	31.4	27.8	23.7	30.9
PLATEAU STATIONS														
Dehra Dun	682	18.9	20.7	26.3	32.2	35.6	34.3	30.3	29.2	29.3	28.3	24.1	20.4	27.5
Nagpur	310	28.6	32.1	36.5	40.2	43.3	38.3	31.3	30.7	31.3	32.1	29.9	28.4	33.5

Normal Monthly and Annual Minimum Temperature in Shade at Selected Stations in India.

Stations	Elevation in metres	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
HILL STATIONS		° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.
Darjeeling		2.9	3.8	7.1	10.3	12.3	14.5	15.3	15.2	14.4	11.1	7.2	3.6	9.8
Shillong		3.8	5.8	10.4	13.9	15.1	17.2	18.1	17.8	16.4	12.7	7.9	4.4	11.9
Simla		1.9	2.3	6.4	10.3	14.3	15.6	15.1	15.1	13.5	10.8	6.8	4.1	9.7
COASTAL STATIONS														
Bombay		19.3	19.7	22.2	24.5	26.4	25.9	24.8	24.5	24.3	24.2	22.5	20.4	23.2
Madras		19.5	20.2	22.4	25.6	27.6	27.3	26.3	25.6	25.1	23.9	22.2	20.5	23.9
STATIONS ON THE PLAINS														
Allahabad		8.4	10.5	16.1	21.9	26.6	28.3	26.6	25.8	24.8	19.5	12.4	8.4	19.0
Calcutta		12.6	15.2	20.4	24.2	25.3	25.9	25.9	25.7	25.6	23.2	17.6	12.8	21.2
Kanpur		7.6	10.6	15.6	21.4	26.9	28.3	26.6	25.9	24.6	18.9	12.2	8.1	18.9
Cuttack		15.4	18.2	22.1	25.3	26.6	26.4	25.7	25.6	25.4	23.6	18.8	14.8	22.3
New Delhi		7.3	9.4	14.8	21.4	26.7	28.7	26.9	26.1	24.3	18.5	11.4	6.8	16.5
Lucknow		8.4	10.8	15.9	21.6	25.7	27.6	26.4	25.9	24.7	19.2	12.3	8.5	16.9
Patna		10.6	12.7	17.9	23.1	25.6	26.6	26.6	26.5	26.1	22.7	16.1	11.3	20.5
PLATEAU STATIONS														
Dehra Dun		6.7	8.1	12.3	16.9	21.2	23.4	23.2	22.7	20.8	15.7	10.6	7.3	15.7
Nagpur		12.8	15.3	19.2	24.1	28.7	26.9	24.1	23.8	23.3	19.7	13.9	11.7	20.3

Normal Monthly and Annual Rainfall at Selected Stations in India.

Stations	Elevation in metres	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
		mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.
HILL STATIONS														
Darjeeling	For elevation, see table of maximum temperature normals	13.5	30.2	47.7	105.2	244.6	414.2	836.2	674.6	480.1	187.4	20.6	6.9	3211.2
Shillong		13.2	26.9	50.0	129.5	246.8	461.3	846.7	817.3	299.8	170.7	40.9	7.1	2149.9
Shimla		66.3	74.2	59.9	46.0	64.3	183.4	414.0	428.0	169.7	30.0	13.2	31.5	1550.5
COASTAL STATIONS														
Bombay	For elevation, see table of maximum temperature normals	3.6	2.0	1.3	0.8	16.5	484.1	616.5	340.1	263.9	64.5	13.5	2.0	1834.8
Madras		35.8	10.4	7.4	15.5	26.2	47.3	91.4	116.3	118.9	305.8	354.6	138.4	1267.9
STATIONS ON THE PLAINS														
Allahabad	For elevation, see table of maximum temperature normals	21.6	16.0	14.2	4.3	16.0	128.0	319.0	254.8	212.3	59.4	7.9	8.6	1062.1
Calcutta		9.4	29.7	34.5	44.5	139.5	296.9	325.4	328.2	252.7	113.8	20.6	4.6	1599.8
Kanpur		14.2	16.8	7.4	5.6	8.1	81.0	273.1	234.5	172.5	33.0	8.9	7.1	912.2
Cuttack		8.1	19.8	26.4	27.2	90.7	252.7	327.4	340.4	247.9	135.6	41.1	5.8	1823.1
New Delhi		25.1	21.1	12.9	8.4	13.2	77.0	178.6	183.6	122.9	10.2	2.5	10.9	666.4
Lucknow		19.3	18.3	8.6	6.3	19.6	113.3	304.8	292.1	188.0	32.5	5.6	8.1	1016.5
Patna		15.0	18.8	10.7	6.9	35.6	181.4	294.1	332.5	218.4	58.4	8.6	5.6	1186.0
PLATEAU STATIONS														
Dehra Dun	For elevation, see table of maximum temperature normals	58.9	62.7	32.0	16.5	36.8	217.2	668.0	731.3	260.7	32.0	8.9	25.9	2159.9
Nagpur		9.4	16.5	15.2	15.2	19.3	224.0	370.8	290.1	203.5	55.1	19.6	11.9	1250.6

SUB-DIVISIONAL MEANS OF RAINFALL IN MILLIMETRES DURING THE MONSOON
JUNE TO SEPTEMBER 1958.*

SUB-DIVISION.	JUNE TO SEPTEMBER.			
	Actual.	Normal.	Departure from Normal.	Percentage Departure from Normal.
	2	3	4	5
1	mm	mm	mm	mm
1. Bay Islands	1906	1799	+ 107	+ 6
2. Assam (including Manipur and Tripura)	1487	1496	- 9	- 1
3. Sub-Himalayan West Bengal	2315	2046	+ 270	+ 13
4. Gangetic West Bengal	861	1078	- 195	- 18
5. Orissa	954	1033	- 79	- 7
6. Chota Nagpur	1017	1077	- 61	- 6
7. Bihar	911	1022	- 111	- 11
8. Uttar Pradesh, East	935	941	- 107	- 11
9. Uttar Pradesh, West	1059	894	+ 166	+ 19
10. Punjab (I) (including Delhi)	702	559	+ 143	+ 26
11. Himachal Pradesh† .. .. .	..	..	..	..
12. Jammu and Kashmir .. .. .	..	..	..	..
13. Rajasthan, West	245	247	+ 34	+ 15
14. Rajasthan, East	741	627	+ 154	+ 25
15. Madhya Pradesh, West	1029	975	+ 55	+ 6
16. Madhya Pradesh, East	1124	1197	- 73	- 6
17. Gujarat	1137	801	+ 336	+ 42
18. Saurashtra and Kutch	722	470	+ 253	+ 54
19. Konkan	3355	2910	+ 1345	+ 47
20. Maharashtra	657	537	+ 120	+ 22
21. Vidarbha	906	919	- 13	- 1
22. Coastal Andhra Pradesh	545	502	+ 43	+ 17
23. Telangana	891	730	+ 161	+ 22
24. Rayalaseema	479	427	+ 52	+ 12
25. Madras	224	285	- 61	- 20
26. Coastal Mysore	2897	2924	- 31	- 1
27. Mysore, North	569	577	- 8	- 1
28. Mysore, South	373	872	- 499	- 134
29. Kerala	1575	1644	- 69	- 4
30. Arabian Sea Islands .. .. .	..	..	..	..
Mean of India (excluding Bay Islands, Jammu and Kashmir, Himachal Pradesh and Arabian Sea Islands)	870	823	+ 47	+ 6

* In the calculation of excesses and defects and their percentages, rainfall figures are taken correct to 0.1 mm.

† Data not available.

MONSOON RAINFALL SUMMARY—1955

There was an abnormal delay in the onset of the monsoon over the country in 1955 and consequently the rainfall during the month of June was appreciably in defect over most parts. After the advance, however, the activity of the monsoon was maintained at an even pace till the end of the season. The rainfall during the months of August and September was in excess generally over the country and the shortfall that occurred earlier in the season was well made up. Floods were reported from several parts in the States of the Punjab (I), Uttar Pradesh, Bombay and Andhra Pradesh, the worst ones being those that affected west Uttar Pradesh towards the end of September. The total rainfall during the season was either normal or in excess over most parts of the country.

As already mentioned both the branches of the monsoon arrived very late over the country. The Arabian Sea branch set in over Kerala on the 14th June, about two weeks later than the normal date. It advanced slowly into the States of Mysore and Bombay and into Telangana and south Madhya Pradesh during the course of the next ten days.

The Bay branch of the monsoon advanced into Assam and Sub-Himalayan West Bengal as a feeble current on the 16th June, also late

by about two weeks. It advanced as a feeble current into the remaining parts of north-east India and into Uttar Pradesh, north Madhya Pradesh and east Rajasthan during the period 24th to 29th June and into the rest of north-west India between the 4th and 7th of July.

Both the branches of the monsoon became active during the first half of July in association with two depressions from the Bay and one from the Arabian Sea and were responsible for good rainfall in the States of Bombay and Madhya Pradesh during this period.

From about mid-July to mid-August, the monsoon remained active over the region extending from the Punjab (I) to Gangetic West Bengal and north Orissa and was responsible for a welcome increase in the rainfall over north-east India, Uttar Pradesh and the Punjab (I) where the season's rainfall till then had been appreciably in defect. It, however, remained moderate over the rest of the country. The monsoon was strong in the Konkan and Maharashtra almost throughout the month of August.

In association with the formation of three depressions and one low pressure area in the Bay of Bengal and their passage across the interior of the country, there was good and well distributed rainfall over most parts during

September. A spell of heavy rains which occurred in the Punjab (I) and west Uttar Pradesh towards the end of September, led to floods over these parts.

The monsoon commenced withdrawing from the north-western parts of the country by the 3rd October and by the middle of October it had withdrawn from north-west India and the States of Bombay, Uttar Pradesh, Madhya Pradesh, Orissa and Bihar.

The withdrawal from the remaining parts of north-east India took place by the last week of October.

The rainfall for the season as a whole was in large excess in Saurashtra and Kutch and the Konkan, in moderate excess in the Punjab (I) and Gujarat and in slight excess in Sub-Himalayan West Bengal, west Uttar Pradesh, Rajasthan, Maharashtra and Andhra Pradesh. It was in slight defect in Gangetic West Bengal, Bihar, east Uttar Pradesh and the Madras State and normal over the rest of the country.

The data from Himachal Pradesh, Jammu and Kashmir and the Arabian Sea Islands are incomplete.

Averaged over the plains of India, the season's rainfall was 6 per cent in excess.

POPULATION

Note:—Unless otherwise stated the following article is based on the 1951 census which are the latest.

The States were reorganized in November 1956. As the last census took place before this reorganization, census figures for the States that underwent drastic changes are not available. Such figures as are available have been brought together in tables at the end of this article.

The more important figures of the 1951 census are:

Total population (excluding Kashmir and the Part B Tribal areas of Assam): 356,879,394; Males: 183,333,874; Females: 173,545,520.

Population of Jammu and Kashmir: 4.41 millions (estimate for March 1, 1951); Population of Part B Tribal Areas of Assam: 0.56 millions (unverified local estimate).

Total including Kashmir and Part B Tribal area: 361,181,069.

Increase over 1941: 12,113,014 or a mean decennial growth rate of 12.5 or percentage increase of 13.4 per cent.

Highest population: Uttar Pradesh (63,215,742); Lowest population Andamans and Nicobars (30,971).

Average density: 312 per square mile.

Highest density: Delhi (over 3,017); Lowest density: Andaman and Nicobar (10).

Registered birth-rate (1941-50): 27.2; Probable birth-rate (1941-50): 40.

Registered death-rate (1941-50): 19.4; Probable death-rate (1941-50): 27.

Natural increase rate (1941-50): 13.

Infant mortality rate (1941-50): 127.1.

Life expectancy: 32 years and 3 months; Life expectancy at the age 10 years: 39.

The provisional birth-rates for 1955 and 1956 are 27.0 and 27.4.

The provisional death-rates for 1955 and 1956 are 11.7 and 11.4.

The infant mortality rates for 1955 and 1956 are 100 and 108.

Literacy for India for 1951: 16.6.

Number of females to every 1,000 males: 947.

Total urban population: 62 millions (17.3 per cent); Total rural: 295 millions (82.7 per cent). Increase in urban population over 1941: 3.5 per cent. Highest urbanization: Delhi (83 per cent).

The total number of towns is 3,018 and of villages 558,088.

Number of cities with a population of one lakh and over: 75.

Percentage of population dependent on agriculture: 70.

If the population is divided into classes according to livelihood the percentage of each class would be as follows:—

Peasant proprietors, 47; Tenants, 9; Landless labourers, 13; Landlord or rentier, one; Industry or other non-agricultural production, 10; Commerce, 6; Transport, 2; Services and miscellaneous professions, 12.

1951 CENSUS

The last census were taken at the beginning of 1951 (Feb. 9 to Mar. 1, 1951).

For the first time the census embraced the whole of India including the former Indian States, but excluding Jammu and Kashmir and the tribal areas of Assam. Jammu and Kashmir was omitted because of special conditions and the tribal areas of Assam because they had never been enumerated before.

Two main and two subsidiary questions in the census questionnaire related to "economic status" and "means of livelihood". These questions were: Are you a self-supporting person or a non-earning dependent or an earning dependent? If you are a self-supporting person, are you an employer or an employee or an independent worker or none of these? What is the occupation or source of income which forms your principal means of livelihood? Have you a secondary means of livelihood? If so, what is it?

GROWTH OF POPULATION FROM 1901-1951

Years	Persons	Variation	Percentage (Approximate)	Males	Variation	Females	Variation
1901	235,478,513			119,398,710		116,080,103	
1911	248,995,434	+13,516,921	+ 5.8	126,776,506	+ 7,377,796	122,218,928	+ 6,138,825
1921	248,120,746	- 874,688	- 0.3	126,878,971	+ 102,465	121,241,775	- 977,193
1931	275,468,432	+27,347,686	+11.0	141,218,490	+14,339,519	134,249,942	+13,008,167
1941	314,904,664	+39,336,232	+14.3	161,807,097	+20,588,607	152,997,567	+18,747,625
1951	356,879,394	+42,074,730	+13.4	183,333,874	+21,526,777	173,545,520	+20,547,958

GROWTH OF POPULATION BY STATE (1901-1951)*

	1901	1911	1921	1931	1941	1951
Andhra Pradesh	1,91,60,038	2,15,34,886	2,15,41,975	2,43,24,106	2,74,25,474	3,12,60,133
Assam	38,14,188	44,82,864	53,16,590	63,44,458	75,93,037	87,72,874
Bihar	2,74,05,527	2,83,90,520	2,81,19,185	3,13,39,050	3,51,71,879	3,87,84,172
Bombay	2,84,92,721	3,12,99,130	3,10,19,957	3,54,46,717	4,05,34,309	4,82,65,221
Kerala	63,96,262	71,47,673	78,02,127	95,07,050	1,10,31,541	1,35,49,118
Madhya Pradesh	1,68,60,768	1,94,40,965	1,91,71,750	2,13,55,657	2,39,90,648	2,60,71,687
Madras	1,91,48,846	2,07,83,136	2,15,14,898	2,33,55,841	2,61,32,083	2,99,74,936
Mysore	1,30,58,091	1,35,36,237	1,33,74,390	1,46,31,128	1,62,54,658	1,94,01,193
Orissa	1,03,02,917	1,13,78,875	1,11,58,566	1,24,91,056	1,37,67,988	1,46,45,946
Punjab	1,32,65,860	1,19,45,019	1,24,65,009	1,36,66,876	1,61,01,189	1,61,34,890
Rajasthan	1,02,94,090	1,09,83,509	1,02,92,648	1,17,47,974	1,34,63,850	1,59,70,774
Uttar Pradesh	4,86,25,310	4,81,52,273	4,66,69,865	4,97,76,754	5,65,31,848	6,32,15,742
West Bengal	1,68,48,771	1,79,25,165	1,74,84,371	1,89,07,878	2,32,31,819	2,63,01,992
Andaman & Nicobar Islands	24,649	26,659	27,086	29,463	33,768	30,971
Delhi	4,05,819	4,13,851	4,48,542	6,36,246	9,17,939	17,44,072
Himachal Pradesh	8,44,270	8,76,562	8,90,046	9,54,276	10,57,711	11,09,466
Laccadive, Minicoy and Amindivi Islands	13,882	14,355	13,637	16,040	18,355	21,035
Manipur	2,84,465	3,46,222	3,84,016	4,45,606	5,12,069	5,77,935
Tripura	1,73,325	2,29,613	3,04,437	3,82,450	5,13,010	6,39,029

* Figures till 1941 in respect of certain areas being on the proportion their population bore to that of the District in 1951.

The figures for Jammu and Kashmir State are not shown.

POPULATION 1952 to 1957

The following table shows the estimated mid-year population of the country from 1952 to 1958. The estimates are based on the mean rate of growth during the period 1941-50.

The figures include those for Sikkim and Kashmir.

1952	36.74 crores
1953	37.20 ..
1954	37.68 ..
1955	38.17 ..
1956	38.65 ..

1957	39.24 crores
1958	39.76 ..

FUTURE GROWTH

Some calculations have been made about this from 1951 to 1961.

The estimate based on the assumption that the mean decennial rate of growth will be the same as that of the average of 1921-50 will be the lower limit, and the estimate based on the assumption that the mean decennial rate of growth will be the same as during the last decade will be the upper limit.

The figures given below are in millions:

	lower limit	upper limit
1951	361.3	361.3
1961	407.7	411.9
1971	458.5	469.7
1981	527.6	535.5

Making allowance for mortality and maternity rates the trends may be estimated as follows: The figures are in crores: 1951-36; 1961-41; 1971-46; 1981-52.

POPULATION BY NATURAL REGIONS

Natural Region	Total Population	Males	Females	1941	Females per 1,000 males (1951)	Mean Decennial Growth Rate (1941-51)
INDIA	358,87,394	183,333,874	173,545,520	314,766,380	947	+ 12.5
1. Himalayan Region	17,042,697	8,982,675	8,060,022	14,827,606	897	+ 13.9
2. Northern Plains Region	139,398,043	73,022,392	66,375,651	125,072,878	909	+ 10.8
3. Peninsular Hills and Plateau Region	108,598,645	55,111,536	53,487,109	96,220,094	971	+ 12.1
4. Western Ghats and Coastal Region	39,926,793	20,371,388	19,555,405	32,518,913	960	+ 20.5
5. Eastern Ghats and Coastal Region	51,832,336	25,798,608	26,033,728	46,093,121	1,009	+ 11.7
Andaman and Nicobar Islands	30,971	19,055	11,916	33,768	625	- 8.6

POPULATION, AREA BY ZONES

Below we give the figures for zones.

Zone	Area in square miles	Total Population	Males	Females	1941	Females per 1,000 males (1951)	Mean Decennial Growth Rate (1941-51)*	Density per square mile
INDIA	1,266,900	358,879,394	183,333,874	173,545,520	314,766,380	947	+ 12.5	303
I—North India	113,409	63,215,742	33,098,866	30,116,876	56,531,843	910	+ 11.2	....
II—East India	261,657	90,080,297	46,315,658	43,764,639	80,873,033	945	+ 10.8	....
III—South India	168,009	75,600,804	37,822,542	37,778,262	64,837,350	999	+ 15.3	....
IV—West India	149,669	40,661,115	20,962,281	19,698,834	33,249,726	938	+ 20.1	....
V—Central India	289,399	52,267,959	26,497,524	25,770,435	47,273,896	978	+ 10.0	....
VI—North-West India	284,342	34,972,597	18,569,725	16,402,869	31,966,764	883	+ 9.0	....

* The mean decennial rate is based on the mean population of the two censuses, and not like the 'percentage variation' on the population according to the earlier census.

† Add Chandernagore: Total: 49,909; Males: 25,230; Females: 21,689.

Figures for Part B Tribal areas are not included. But area includes NEFA and the Naga Unit.

POPULATION, AREA, DENSITY, SPECIAL GROUPS BY STATE

The following table gives the population, area, etc. of the States and Territories forming the Indian Union :

	Area in sq. miles (a)	Population	Density of population	Anglo-Indians —1951 census (a)	Scheduled Castes—1951 estimates	Scheduled Tribes—1951 estimates
INDIA	12,66,000	36,11,51,669	312(c)	1,11,637	5,51,70,696	2,25,11,854
STATES						
Andhra Pradesh	1,05,963	3,12,60,133	295	5,502	44,15,995	11,49,919
Assam	45,767	87,72,874	176	1,055(b)	4,24,044(b)	17,61,434(b)
Bihar	76,164	3,87,84,172	572	4,379	49,13,990	34,80,997
Bombay	1,90,919	4,82,65,221	253	7,957	52,02,077	37,43,406
Jammu and Kashmir	85,861	44,10,000	51	—	—	—
Kerala	15,035	1,35,49,118	901	14,947	12,07,294	1,34,757
Madhya Pradesh	1,71,201	2,60,71,637	152	2,173	39,12,205	48,44,128
Madras	50,110	2,99,74,936	599	22,277	52,81,836	1,36,376
Mysore	74,326	1,94,01,193	261	15,569	25,83,142	40,402
Orissa	60,136	1,46,45,946	244	485	26,29,250	30,09,580
Punjab	47,456	1,61,34,890	340	1,174	34,90,983	2,661
Rajasthan	1,32,077	1,59,70,774	121	1,038	25,02,202	17,74,278
Uttar Pradesh	1,13,409	6,32,15,742	554	6,343	1,31,00,398	—
West Bengal	33,945	2,63,01,992	775	31,922	47,43,713	15,66,968
TERRITORIES						
Andamans	3,215	30,971	10	—	—	—
Delhi	578	17,44,072	3,017	812	2,63,530	—
Himachal Pradesh	10,904	11,09,406	102	10	3,19,972	27,923
Laccadives	10	21,035	2,144	—	—	13,486
Manipur	8,028	5,77,635	67	—	24,647	1,94,239
Tripura	4,032	6,39,929	158	94	46,608	1,92,293

(a) Provisional. (b) Inclusive of Naga Hills District now in the Naga Unit. (c) In working out the figure the area and population of Jammu and Kashmir and of the Part B Tribal areas of Assam have not been taken into account.

DISPLACED PERSONS

Position in March 1957: Total 84.50 lakhs. From W. Pakistan 47.40 lakhs. From E. Pakistan 41.10 lakhs.

1951 Census

The following particulars from the Census Report on Displaced Persons will be of interest (the census were taken in 1951):—

Total: 7,295,870; Males: 3,900,034; Females: 3,395,836.

From West Pakistan: 4,699,492; From East Pakistan: 2,549,390; Unspecified: 46,988.

The figures for individual States in West Pakistan are as follows: N.W.F.P.: 195,059; Sind: 776,229; Baluchistan: 24,945; West Punjab: 3,407,695; Pakistan States: 252,956; Origin unspecified: 42,600.

The figures for distinct areas in East Pakistan are as follows: East Bengal: 2,406,183; Sylhet (Assam): 137,414; Origin unspecified: 5,793.

The sex ratio among displaced persons is 871 females for every 1,000 males. The figure for displaced persons from West Pakistan is 872 females, from East Pakistan 871.

For the country as a whole, the displaced persons number 21 per 1,000. The principal concentrations are (the figures are for 1,000 of

local population): Delhi 397; Punjab 231; Tripura 188; Chandernagore 115; Ajmer 115; PEPSU 113; West Bengal 92; Andamans 51.

The distribution of displaced persons by age-groups is as follows:—

0—	..	..	..	47,931
1—4	..	..	..	412,193
5—14	..	..	..	1,935,781
15—24	..	..	..	1,512,466
25—35	..	..	..	1,195,683
35—44	..	..	..	841,987
45—55	..	..	..	602,548
55—64	..	..	..	366,653
65—74	..	..	..	176,689
75 and over	..	..	..	82,118
Age not stated	..	..	..	10,305

The distribution of displaced persons by livelihood classes is as follows. The first figure shows the number of males and the second the number of females:—

Cultivators of land wholly or mainly owned and their dependants: 212,591; 191,545.

Cultivators of land wholly or mainly un-owned and their dependants: 686,705; 605,814.

Cultivating labourers and their dependants: 167,304; 138,057.

Non-cultivating owners of land, agricultural rent receivers and their dependants: 32,250; 30,225.

Production other than cultivation: 461,626; 387,723.

Commerce: 922,939; 602,763.

Transport: 168,189; 140,877.

Other services and miscellaneous sources: 1,174,313; 1,061,403.

Distribution by civil condition is as follows:—

Unmarried: 1,923,908 (males); 1,315,963 (females).

Married: 1,719,149 (males); 1,650,193 (females).

Widowed or Divorced: 182,560 (males); 392,261 (females).

The literacy is indicated by the following figures:—

Literates: 1,768,022 (males); 912,567 (females).

Illiterates: 2,057,895 (males); 2,445,850 (females).

The urban-rural distribution in lakhs is 33 lakhs in villages and 39 lakhs in towns.

The movement of persons from West Pakistan by period is as follows. The number is for every 1,000 displaced persons:—

1947 August: 292; 1947 September: 214; 1947 October: 133; 1947 November: 83; Rest of 1947: 51; 1948 January-June: 88; Rest of 1948: 27; Rest upto February 1951: 18.

The movement from East Pakistan for 1,000 displaced persons:

1946: 23; 1947: 182; 1948: 193; 1949: 128; 1950: 450; Rest upto February 1951: 51.

FOREIGNERS

The number of foreigners in India in the year 1958 was 47,410 excluding U.K. and Commonwealth citizens and children below the age of 16. They were distributed according to nationality as follows: Chinese, 11,301; Afghans, 7,034; U.S. nationals, 3,709; Iranians, 4,370; Germans, 2,463; French, 1,064; Burmese, 2,144; Italians, 1,133.

Of the 29,746 non-Commonwealth foreign citizens, as on 1st Jan. 1957, 22,100 were traders, 1,663 were students and 4,893 missionaries.

RELIGIOUS GROUPS

The ratio of each religious group to the total population in the country is as follows (percentage): Hindus, 84.99; Muslims, 9.93; Christians, 2.30; Sikhs, 1.74; Jains, 0.45; Buddhists, 0.06; Zoroastrians, 0.03; Other tribal religions, 0.47; other non-tribal religions, 0.03.

The following table shows the position of religious groups in India in the States which were unaffected by the reorganization that took place (Nov. 1956) after the 1951 census.

State	Hindus	Sikhs	Jains	Buddhists	Zoroastrians	Muslims	Christians	Jews	Other Tribals	Other Non-Tribals
Assam	5,894,733	4,107	4,245	22,675	27	1,996,456	585,399	209	527,712	8,144
Orissa	14,318,411	4,163	1,248	969	181	176,338	141,934	72	2,576	54
Punjab	9,880,779	5,553,918	45,096	1,680	175	284,993	98,858	159	—	650
Uttar Pradesh	58,762,925	197,612	97,744	3,221	1,258	9,028,992	123,876	34	—	80
Delhi	1,467,864	137,096	20,174	503	164	99,501	18,685	90	—	5
Himachal Pradesh and Bilaspur	1,088,841	5,019	34	2	—	15,258	317	—	—	—
Manipur	347,325	50	150	33	1	37,197	68,394	—	124,485	—
Tripura	480,662	35	36	15,403	1	136,940	5,292	—	690	—
Andaman and Nicobar	9,294	126	1	1,604	2	4,783	9,494	1	20	5,646
Sikkim	97,863	18	19	39,397	—	124	304	—	—	—
India††	303,186,986	6,219,134	1,618,406	180,767	111,791	35,400,117	8,157,765	26,781	1,661,897	47,148

† Persons whose enumeration records were destroyed by fire—268,602.

†† The Census booklets available at the time of preparing the article did not give the all-India totals. The figures given here are the ones worked out by adding the figures for individual States. The total includes all the States and Territories.

RURAL AND URBAN POPULATION

It should be pointed out here that whether an area is urban or rural depends on a number of factors of which population is only one. Also these factors vary from State to State.

The rural and urban population grew as follows:

Percentage

	Rural	Urban
1921	88.6	11.4
1931	87.9	12.1
1941	86.1	13.9
1951	82.7	17.3

The population of villages and towns respectively grew as follows from 1921 to 1951 (figures in lakhs):

Year	Population		Rate of Growth	
	Villages	Towns	Villages	Towns
1921	2,199	282	—	—
1931	2,420	334	+10.1	+18.4
1941	2,710	438	+12.0	+31.1
1951	2,950	619	+ 8.9	+41.3

The population of the 10 largest cities (town-groups) has grown as follows (figures in lakhs):

City	1951	1941-50	1931-40	1901-30
Calcutta	45.8	—	—	6.0
Bombay	28.4	11.4	3.9	4.6
Madras	14.2	6.4	1.8	1.4
Delhi	13.8	7.2	2.2	2.3
Hyderabad	10.9	3.5	2.7	0.2
Ahmedabad	7.9	2.0	2.8	1.3
Bangalore	7.8	3.7	1.0	1.5
Kanpur	7.1	2.2	2.4	0.4
Poona	5.9	2.4	0.8	0.9
Lucknow	5.0	1.1	1.1	0.2

Rural-Urban Percentage

Below we give the percentage of rural and urban population of each State. The first figure gives the urban percentage, and the second the rural:

India 82.7, 17.3; Andhra 82.6, 17.4; Assam 95.4, 4.6; Bihar 93.2, 6.8; Bombay 71.7, 28.3; Kerala 86.9, 13.1; M.P. 88.0, 12.0; Madras 75.6, 24.4; Mysore 77.0, 23.0; Orissa 95.9, 4.1; Punjab 81.0, 19.0; Rajasthan 81.5, 18.5; U.P. 86.4, 13.6; W. Bengal 76.1, 23.9; Andamans 74.1, 25.9; Delhi 17.6, 82.4; H.P. 95.9, 4.1; Laccadives 100.0; Manipur 99.5, 0.5; Tripura 93.3, 6.7; Sikkim 98.0, 2.0.

It may be explained here that the concept of a village is not demographic but really administrative.

As a general rule, it represents a parcel of land, the boundaries of which are defined and settled by a Revenue Survey or by a cadastral survey. It may be but need not always necessarily be a single house-cluster with a local name marking its distinctiveness as a residential locality.

It can be seen from the figures that only 6.19 crores or 17.3 per cent live in urban areas while as many as 29.5 crores or 82.7 per cent live in rural areas.

But the drift from the village to the town is clear. The percentage of the urban population has grown from 11.4 in 1921 to 17.3 in 1951, while the percentage of the rural population has dropped from 88.6 per cent in 1921 to 82.7 per cent in 1951.

There are 558,088 villages in India and 3,018 towns.

A table given further down shows that about 26.5 per cent of people live in villages with a population of 500 and less, 48.8 per cent in villages with a population of between 500 and 2,000, 19.4 per cent in villages between 2,000 and 5,000, and 5.3 per cent in villages of over 5,000.

About population in the urban areas, about 38 per cent lives in cities with a population of over a lakh, 36.1 per cent in towns with a population of between 20,000 and one lakh, 23.6 per cent in towns with a population of between 5,000 and 20,000 and 3.3 per cent in townships.

Villages, Towns, Houses—By Zones

Zone	Villages	Towns	Occupied Houses		
			Total	Rural	Urban
•INDIA	558,088	3,018	64,361,676	54,056,388	10,305,288
North India	111,722	486	10,406,944	9,073,985	1,334,959
East India	185,318	298	17,285,005	15,255,491	2,029,514
South India	57,758	683	13,387,542	11,251,393	2,136,149
West India	39,533	594	7,248,611	6,056,813	1,191,798
Central India	102,062	517	10,145,228	8,720,099	1,425,129
North-West India	61,494	440	5,881,046	4,995,199	1,185,847
Andamans	201	..	5,300	3,408	1,892

In earlier censuses, the definition of a house was not uniform in all States. At this Census a uniform definition of house was adopted and a conceptual distinction established between the 'house' and the 'household'.

A 'house' is a structure while a 'household' is a human group. A house means a 'dwelling' with a separate main entrance. "A household" means all persons who live together in the same house and have a common mess.

* Area (92,780 sq. miles) and population of the State of Jammu and Kashmir and population of part of Part B Tribal Areas of Assam not included.

Villages, Towns, Urban and Rural Population and Houses *

Name of State	Villages	Towns	Occupied houses			Persons		
			Total	Rural	Urban	Total	Rural	Urban
INDIA*	558,088*	3,018*	64,361,676*	54,056,388*	10,305,288*	356,879,394*	295,004,271*	61,875,123*
Andhra Pradesh	20,450	293	5,801,683	4,967,260	834,423	31,260,133	25,821,679	5,438,454
Assam	25,327	24	1,600,970	1,538,975	61,995	9,043,707	8,629,289	414,418
Bihar	67,970	104	6,772,844	6,342,069	430,775	38,783,778	36,157,517	2,626,261
Bombay	54,279	625	8,836,642	6,412,866	2,423,775	48,265,221	34,615,248	13,649,973
Kerala	4,597	69	2,210,670	1,958,575	252,095	13,549,118	11,769,042	1,780,076
Madhya Pradesh	70,034	202	5,227,351	4,666,401	560,950	26,071,637	22,938,700	3,132,937
Madras	18,351	295	5,344,934	4,326,002	1,018,932	29,974,936	22,659,540	7,315,396
Mysore	25,878	289	3,357,043	2,696,019	661,024	19,401,193	14,945,204	4,455,989
Orissa	48,398	39	3,008,716	2,888,490	120,226	14,645,946	14,051,876	594,070
Punjab	20,855	194	2,761,872	2,271,178	490,694	16,134,890	13,068,448	3,066,442
Rajasthan	31,704	227	2,595,605	2,167,551	428,054	15,970,774	13,015,499	2,955,275
Uttar Pradesh	111,722	486	10,408,944	9,073,985	1,334,959	63,215,742	54,590,043	8,625,699
West Bengal	38,471	120	5,653,305	4,242,009	1,411,296	26,302,346	20,020,744	6,281,642
UNION TERRITORIES:								
Andaman and Nicobar Islands	201	..	5,300	3,408	1,892	30,971	22,957	8,014
Delhi	304	10	312,753	53,258	259,495	1,744,072	306,938	1,437,134
Himachal Pradesh	8,384	11	210,575	201,095	9,480	1,109,466	1,064,320	45,146
Laccadive, Minicoy and Andamini Islands	10	..	3,299	3,299	..	21,035	21,035	..
Manipur	1,601	1	113,558	113,268	290	577,635	574,773	2,862
Tripura	3,453	1	111,201	106,944	4,237	639,029	596,434	42,595
Sikkim	99	1	24,411	23,716	695	137,725	134,981	2,744

* The figures do not take into account those for Jammu and Kashmir and the part B Tribal areas of Assam.

Villages, Towns, Urban and Rural Population and Houses*—Continued

Name of State	Males			Females		
	Total	Rural	Urban	Total	Rural	Urban
INDIA*	183,333,874*	150,061,146*	33,272,728*	173,545,520*	144,943,125*	28,602,395*
Andhra Pradesh	15,742,912	13,005,602	2,737,310	15,517,221	12,816,077	2,701,144
Assam	4,812,166	4,565,930	246,236	4,231,541	4,063,359	168,182
Bihar	19,490,560	18,065,144	1,425,416	19,293,218	18,092,373	1,200,845
Bombay	24,821,961	17,414,645	7,407,316	23,443,260	17,200,603	6,242,657
Kerala	6,681,901	5,767,393	894,508	6,867,217	5,961,649	885,568
Madhya Pradesh	13,255,004	11,612,377	1,642,627	12,816,633	11,326,323	1,490,310
Madras	14,931,767	11,247,931	3,683,836	15,043,169	11,411,609	3,631,560
Mysore	9,866,533	7,571,185	2,295,348	9,534,660	7,374,028	2,160,632
Orissa	7,242,892	6,927,016	315,876	7,403,054	7,124,800	278,194
Punjab	9,681,778	6,989,034	1,692,744	7,453,112	6,079,414	1,373,698
Rajasthan	8,313,883	6,781,048	1,532,835	7,656,891	6,234,451	1,422,440
Uttar Pradesh	33,098,866	28,360,149	4,738,717	30,116,876	26,229,864	3,886,982
West Bengal	14,106,776	10,323,674	3,783,102	12,195,610	9,697,070	2,498,540
UNION TERRITORIES:						
Andaman and Nicobar Islands	19,085	13,815	5,240	11,916	9,142	2,774
Delhi	986,538	167,106	819,432	737,534	139,832	617,702
Himachal Pradesh	579,503	553,903	25,600	529,963	510,417	19,546
Laccadive, Minicoy and Amindivi Islands	10,295	10,295	..	10,740	10,740	..
Manipur	288,685	281,932	1,753	293,950	292,841	1,109
Tripura	335,589	312,385	23,204	303,440	284,049	19,391
Sikkim	72,310	70,582	1,628	68,515	64,399	1,116

* The figures do not take into account those for Jammu and Kashmir and the part B Tribal areas of Assam.

Households

State	Number of households	Number of occupied houses	Number of households per 1,000 occupied houses
INDIA *	65,664,772	58,683,900	1,119
Andhra Pradesh	6,535,429	5,801,643	1,126
Assam	1,729,780	1,600,970	1,080
Bihar	6,772,844	6,772,844	1,000
Bombay	9,783,021	8,836,642	1,108
Kerala	2,384,361	2,210,670	1,079
Madhya Pradesh	5,720,351	5,227,351	1,094
Madras	6,456,043	5,344,934	1,208
Mysore	3,705,902	3,357,043	1,104
Orissa	3,159,157	3,008,716	1,050
Punjab	2,897,187	2,761,872	1,049
Rajasthan	3,223,843	2,595,605	1,244
Uttar Pradesh	12,490,415	10,408,944	1,200
West Bengal	..	..	..
TERRITORIES			
Andamans	7,640	5,300	1,442
Delhi	326,053	312,753	1,043
Himachal Pradesh	219,692	210,575	1,043
Laccadives	3,436	3,299	1,042
Manipur	116,034	113,558	1,022
Tripura	122,644	111,201	1,103
Sikkim	..	..	..

* Figures for West Bengal are not given in this table as the basis for collection of statistics on houses and households in this State was different from that adopted in other States. India figures do not, therefore, include figures for West Bengal.

Houseless and Institutional Population

State	Persons	Males	Females
INDIA	3,891,825	2,546,124	1,345,697
Andhra Pradesh	164,697	107,290	61,437
Assam	35,536	27,354	8,232
Bihar	..	..	..
Bombay	490,446	307,572	182,874
Kerala	46,224	47,612	38,616
Madhya Pradesh	490,540	259,464	237,072
Madras	501,144	275,528	225,660
Mysore	114,651	41,562	37,049
Orissa	119,019	95,454	23,561
Punjab	640,735	379,676	301,059
Rajasthan	107,711	69,314	38,397
Uttar Pradesh	257,796	194,231	63,565
West Bengal	760,339	659,619	100,720
UNION TERRITORIES			
Andaman and Nicobar Islands	2,464	2,672	192
Delhi	28,403	18,217	10,146
Himachal Pradesh	..	..	..
Laccadive, Minicoy and Amindivi Islands	20	12	8
Manipur	1,333	284	1,049
Tripura	26,196	20,224	15,972
Sikkim	73	65	8

A house is a building in which people live. A household is a group of people who live together and take their food from a common kitchen.

There are 112 households in every 100 houses of a typical Indian village, and 124 households in every 100 houses of a typical Indian town.

In every 100 households in a village there are 491 persons, in every hundred households in the town the number is 471.

In every 100 houses in a village 550 people live, in every 100 houses of a town 584.

Out of 491 people in every 100 rural households 252 are males and 239 are females. Out of 471 people in every 100 urban households 248 are males and 223 are females.

We can have a four-fold classification of households—small household (3 persons or less), medium (4, 5 or 6), large (7, 8 or 9), very large (10 or more).

The number of different types in 100 households in a typical village and a typical town will be as follows:

	Village	Town
Small	33	38
Medium	44	41
Large	17	16
Very large	6	5

The pattern of household relationship in a 100 households with 487 persons in them will be as follows:

	Number
Heads of households	100
Wives of heads	71
Sons of heads	104
Daughters of heads	81
Male relatives other than sons	44
Female relatives other than daughters	72
Persons unrelated to heads	7
Total	487

TOWNS AND VILLAGES WITH POPULATIONS 500 TO 100,000

Size	Number	Males	Females
Less than 500	380,020	39,956,302	38,391,369
500—1,000	104,268	37,162,941	35,767,815
1,000—2,000	51,769	36,194,476	34,962,006
2,000—5,000	20,504	30,023,792	29,085,181
5,000—10,000	3,101	10,540,836	10,212,900
10,000—20,000	856	6,016,525	5,664,243
20,000—50,000	401	6,240,152	5,543,896
50,000—100,000	111	4,020,609	3,834,716
100,000 and above	73	13,174,241	10,373,376

There can be a four-fold classification of towns—cities (population of one lakh and over), major towns (population 20,000 to one lakh), minor towns (population 5,000 to 20,000), townships (under 5,000).

The average number of villagers per village is 529.

The percentage of rural population living in small villages (under 500) is 26.5; in medium-sized villages (500-2,000) is 48.8; in large villages (2,000-5,000) is 19.4; in very large villages (over 5,000) is 5.3.

TOWNS CLASSIFIED BY POPULATION—BY STATE

Name of State	10,000—20,000			20,000—50,000			50,000—100,000			100,000 and above		
	Number	Males	Females	Number	Males	Females	Number	Males	Females	Number	Males	Females
INDIA	856	6,016,525	5,664,243	401	6,240,152	5,563,895	111	4,020,609	3,534,715	73	13,178,241	10,373,376
Andhra Pradesh	87	587,042	579,743	34	457,207	449,825	10	344,288	342,725	6	866,138	852,485
Assam	8	72,507	48,068	6	113,245	74,601	1	29,554	24,202	..	..	..
Bihar	51	357,657	321,076	19	310,226	253,771	6	226,668	196,917	5	469,731	396,989
Bombay	127	920,287	864,745	79	1,218,356	1,139,759	20	709,012	643,022	11	3,359,073	2,426,393
Kerala	129	842,608	877,640	28	383,225	388,915	5	174,198	167,134	3	235,339	226,594
Madhya Pradesh	38	274,264	252,292	22	325,502	291,701	5	179,563	162,092	5	525,074	463,171
Madras	139	915,285	931,537	58	884,988	881,518	12	434,538	431,820	7	1,342,849	1,260,663
Mysore	61	431,796	415,083	23	321,227	291,222	8	281,808	259,555	5	744,400	684,616
Orissa	8	57,368	50,424	5	72,979	65,076	1	31,233	31,110	1	58,417	44,098
Punjab	42	320,446	271,733	26	422,370	338,638	8	290,627	238,637	3	359,870	284,488
Rajasthan	36	240,705	229,909	29	290,510	274,191	4	138,742	124,908	4	614,028	571,565
Uttar Pradesh	74	554,678	471,759	47	772,207	625,720	15	668,038	471,554	14	1,873,831	1,496,720
West Bengal	53	422,514	335,669	31	600,502	442,210	14	524,764	382,480	7	2,256,053	1,353,838
UNION TERRITORIES												
Andaman and Nicobar Islands	..	..	..	..	..	..	..	..	..	..	..	..
Delhi	2	13,987	9,390	2	44,404	27,348	2	83,576	58,559	2	673,338	517,766
Himachal Pradesh	..	..	..	..	..	..	..	..	..	..	..	..
Laccadive, Minicoy and Amindivi Islands	..	..	..	..	..	..	..	..	..	..	..	..
Manipur	..	..	..	..	..	..	..	..	..	..	..	..
Tripura	..	..	..	..	..	..	..	..	..	..	..	..
Sikkim	1	5,342	5,171	..	..	..	..	..	..	..	..	..

CITIES WITH THEIR POPULATION

State and City	1951	1941	Mean Decennial Growth Rate (1941-51)	State and City	1951	1941	Mean Decennial Growth Rate (1941-51)
INDIA	24,126,592	16,733,088	+ 36.2	Mysore	778,977	406,760	+ 62.8
Andhra	..	..	..	1. Bangalore	244,323	150,540	+ 47.5
1. Hyderabad	1,085,722	739,159	+ 38.0	2. Mysore	159,084	133,859	+ 17.2
2. Vijayawada*	181,198	86,184	+ 60.6	3. Kolar Gold Fields	129,609	95,512	+ 30.3
3. Warangal*	133,130	92,808	+ 35.7	4. Hubli*	117,083	81,069	+ 36.3
4. Guntur*	125,255	83,599	+ 39.9	Orissa	..	..	..
5. Vishakhapatnam*	108,042	70,243	+ 42.1	1. Cuttack*	102,505	74,291	+ 31.9
6. Rajahmundry*	105,276	74,564	+ 34.2	Punjab	..	..	..
Bihar	..	..	..	1. Amritsar	325,747	301,010	+ 18.2
1. Patna	283,479	196,415	+ 36.3	2. Jullundur	169,816	135,283	+ 22.1
2. Jamshedpur	214,162	165,895	+ 27.5	3. Ludhiana	153,795	111,639	+ 31.8
3. Gaya	173,700	105,223	+ 23.8	Rajasthan	..	..	..
4. Bhagalpur*	114,530	93,254	+ 20.5	1. Jaipur	291,130	175,810	+ 49.4
5. Ranchi*	106,849	62,562	+ 52.3	2. Ajmer	196,634	147,258	+ 28.7
Bombay	..	..	..	3. Jodhpur	180,717	126,842	+ 35.0
1. Bombay	2,839,270	1,695,168	+ 50.5	4. Bikaner	117,113	127,226	+ 8.3
2. Ahmedabad	784,333	501,267	+ 28.6	Uttar Pradesh	..	..	..
3. Poona	480,982	278,165	+ 53.4	1. Kanpur	705,383	487,324	+ 36.6
4. Nagpur	449,099	301,957	+ 39.2	2. Lucknow	496,361	387,177	+ 24.8
5. Sholapur	266,050	203,691	+ 26.6	3. Agra	375,665	284,149	+ 27.7
6. Surat	223,182	171,443	+ 26.2	4. Banaras	355,777	263,100	+ 30.0
7. Baroda	211,407	153,301	+ 31.9	5. Allahabad	332,295	260,630	+ 24.2
8. Bhopalnagar	137,951	102,851	+ 29.2	6. Meerut	233,183	169,290	+ 31.8
9. Kolhapur*	136,835	93,032	+ 38.1	7. Bareilly	208,083	192,688	+ 7.7
10. Rajkot*	132,069	52,178	+ 86.7	8. Moradabad	161,854	142,414	+ 12.8
11. Jamnagar*	104,410	71,588	+ 37.3	9. Saharanpur	148,435	108,263	+ 31.3
Kerala	..	..	..	10. Dehra Dun*	144,216	78,228	+ 59.3
1. Trivandrum	186,931	124,365	+ 37.2	11. Aligarh	141,618	112,655	+ 22.8
2. Kozhikode	154,724	126,352	+ 22.7	12. Rampur*	134,277	89,322	+ 40.2
3. Alleppey*	116,276	66,333	+ 69.5	13. Gorakhpur*	132,436	99,977	+ 28.9
Madhya Pradesh	..	..	..	14. Jhansi	127,365	103,254	+ 20.9
1. Indore	310,859	203,695	+ 41.7	15. Mathura*	105,773	80,532	+ 27.1
2. Jabalpur	256,998	178,339	+ 36.1	16. Shahjahanpur	104,835	110,163	+ 5.0
3. Gwalior	241,877	182,492	+ 27.9	West Bengal	..	..	..
4. Ujjain*	129,817	81,272	+ 46.0	1. Calcutta	2,548,677	2,108,891	+ 18.9
5. Bhopal*	102,333	75,228	+ 30.5	2. Howrah	433,630	379,292	+ 13.4
Madras	..	..	..	3. Tollyganj*	149,817	58,594	+ 87.5
1. Madras	1,416,056	777,481	+ 58.2	4. Bhatpara	134,916	117,044	+ 14.2
2. Madurai	361,781	239,144	+ 40.8	5. Kharagpur*	129,686	87,185	+ 39.2
3. Tiruchirappalli	218,921	159,566	+ 31.4	6. Garden Reach*	109,160	85,188	+ 24.7
4. Salem	203,335	129,702	+ 43.8	7. South Suburban (Behala)*	104,055	63,479	+ 48.4
5. Coimbatore	197,756	130,848	+ 41.1	Delhi	..	..	..
6. Vellore*	106,024	71,502	+ 38.9	1. Delhi	914,790	821,849	+ 54.7
7. Tanjore*	100,680	68,702	+ 37.8	2. New Delhi*	276,314	93,733	+ 96.7

* These towns have been treated as cities for the first time.

TOWNS WITH THEIR POPULATIONS

Uttar Pradesh
(50,000—100,000)—13 Towns

Name of Town	Persons
Mirzapur	86,528
Faizabad	76,582
Meerut Cantonment	74,776
Farrukhabad	74,205
Firozabad	65,438
Muzaffarnagar	64,213
Sambhal	61,429
Etawah	59,986
Amroha	59,105
Hathras	56,619
Hardwar	56,175
Budaun	53,521
Jaunpur	52,351

(20,000—50,000)—47 Towns

Hapur	49,280
Pilibhit	48,325
Kanpur Cantonment	46,158
Bahraich	44,741
Shujapur	44,397
Ghaziabad	43,745
Agra Cantonment	42,135
Khurja	38,462
Bulandshahr	37,496
Lucknow Cantonment	37,377
Chandausi	36,689
Maurath Bhanjan	34,807
Ghaziipur	33,498
East	33,203
Gonda	32,566
Kasganj	31,554
Bijnor	30,846
Ballia	30,638
Banda	30,327
Hardoi	29,881
Najibabad	29,363
Tanda	29,288
Nagina	27,947
Dehra Dun Cantonment	27,812
Azam Garh	26,632
Deoband	25,906
Unnao	25,240
Haldwani	25,065
Lakhimpur	25,055
Rae Bareilly	24,956
Shahabad	24,627
Fatehpur	24,301
Sikandrabad	24,080
Roorkee	23,239
Kairana	23,163
Kannau	23,138
Balrampur	23,088
Mainpuri	22,932
Nawab Ganj	22,886
Vrindavan	22,119
Orai	21,255
Tilhar	21,203
Sahaswan	21,107
Lalitpur	20,792
Konch	20,732
Deoria	20,156
Allahabad Cantonment	20,036

Bihar

(50,000—100,000)—6 Towns

Darbhanga	84,816
Monghyr	74,348
Muzaffarpur	73,594
Chapra	64,309
Arrah	64,205
Bihar	63,124

(20,000—50,000)—19 Towns

Jamalpur	44,172
Dinapore	42,684
Katihar	42,365
Bettiah	35,634
Dhanbad	34,077
Hasari Bagh	33,812
Barh	29,308
Sasaram	29,265
Oldidh	29,167
Jharla	26,480
Sahibganj	25,669

Name of Town	Persons
Deoghar	25,510
Hajipur	25,149
Purnea	25,060
Dehri	24,496
Motihari	24,489
Madhubani	23,283
Siwan	22,625
Rarhi (Admn. Committee)	20,752

Orissa

(50,000—100,000)—1 Town

Berhampur	62,343
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(20,000—50,000)—5 Towns

Puri	49,057
Sambalpur	23,525
Balasore	22,851
Parikimedi	22,870
Jeypore	20,352

West Bengal

(50,000—100,000)—14 Towns

Kamarhati	77,251
Baranagar	77,126
Asansol	76,277
Burdwan	75,376
Serampur	74,324
Titagarh	71,622
Bally	63,135
South Dum Dum	61,391
Hoogly—Chinsura	56,805
Kanchrapara	56,668
Nabadwip	56,298
Berhampur Town	55,613
Naihati	55,313
Krishnagar	50,042

(20,000—50,000)—28 Towns

Panhati	49,514
Bankura	49,369
Midnapur	45,476
Barrackpur	42,639
Santipur	42,413
Purulia	41,461
Jalpaiguri	41,259
Bhadreswar	36,292
Basirhat	34,623
Halisahar	34,666
Darjeeling	33,605
Cooch Behar	33,242
Siliguri	32,480
Budge Budge	32,196
North-Barrackpur	32,173
Chandpur	31,543
Kulti (Non-Municipal)	31,263
English Bazar	30,663
Baneberia	30,622
Garulia	28,504
Ranaghat	28,064
Rishra	27,465
Raniganj	25,989
Allpur Duar (Non-Municipal)	24,886
Baidyabati	24,883
Vishnupur	23,981
Bongaon (Non-Municipal)	23,364
Konnagar	20,233

Chandernagore

(20,000—50,000)—1 Town

Chandernagore	49,909
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Assam

(50,000—100,000)—1 Town

Shillong	53,786
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(20,000—50,000)—6 Towns

Ganhati	43,615
Dibrugarh	37,991
Silchar	34,069
Nowgong	28,257
Dhubri	22,787
Barpeta	21,137

Tripura

(20,000—50,000)—1 Town

Agartala	42,586
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Madras

(50,000—100,000)—11 Towns

Name of Town	Persons
Tuticorin	98,886
Kumbakonam	91,643
Kancheepuram	84,810
Nagercoil	79,284
Dindigul	78,361
Tirunelveli	73,476
Cuddalore	69,084
Rajapalayam	60,861
Nagapattinam	57,854
Erode	57,576
Tiruppur	52,479

(20,000—50,000)—55 Towns

Aruppukottai	48,554
Virudhunagar	46,309
Gudiyattam	45,667
Pudukottai	44,627
Mayuram	43,436
Karur	42,156
Pollachi	41,744
Ootacamund	41,370
Tiruvannamalai	40,718
Srivilliputtur	40,436
Palayamcottai	40,010
Ambur	39,992
Vaniyambadi	38,712
Karakudi	38,453
Kadayanallur (F)	38,060
Melapalayam	37,663
Srirangam	36,702
Bodinayakanur	35,912
Villupuram	35,684
Chidambaram	34,732
Palani	34,486
Tenkal (F)	31,074
Periyakulam	31,000
Gobichettipalayam	30,354
Mannargudi	29,860
Tindivanam	29,661
Vikramasingapuram (F)	29,361
Puliyangudi (F)	27,619
Mettupalayam	27,516
Tiruvarur	27,251
Tirupattur	27,003
Mettur (Township)	27,002
Combum (F)	26,908
Kovilpatti (F)	26,038
Devakottai	25,999
Arani (F)	24,567
Dharapuram	24,163
Dharmapuri (F)	24,094
Ramanathapuram (F)	24,053
Coonoor	23,902
Udumalpet	23,309
Rasipuram	23,125
Arkonam (F)	23,082
Attur (F)	22,644
Sivakasi	22,674
Chingleput	22,600
Tiruvattiyur (F)	22,393
Parnakudi (F)	22,257
Sankaranayinarkoil (F)	21,904
Arani (F)	21,124
Neelikkuppam (F)	20,685
Poonamallis (F)	20,677
Kurichi (F)	20,579
Ambasamudram (F)	20,356
Kalidakkurichi (F)	20,019

Mysore

(50,000—100,000)—6 Towns

Belgaum	55,988
Gulbarga	77,189
Bellary	70,322
Dharwar	66,571
Bijapur	65,734
Gadag	65,509
Davangere	64,018
Baichur	64,092

(20,000—50,000)—19 Towns

Shimoga	46,524
Bhadravati	42,451
Hospet	38,651
Tumkur	34,999

Name of Town **Persons**
(30,000—50,000)—10 Towns—Contd.

Bagalkot	32,285
Bidar	31,341
Kolar	27,176
Ranebennur	25,282
Chitaldurg	25,081
Hasan	24,869
Channarayana	24,041
Yadgir	22,039
Guledgud	21,972
Chikmagalur	21,744
Mandya	21,158
Jamkhandi	20,865
Ikrai	20,747
Udipi	20,451
Chikballapur	20,219

Kerala

(50,000—100,000)—5 Towns

Mattancheri	73,904
Trichur	69,515
Palghat	69,504
Quilon	66,126
Ernakulam	62,283

(20,000—50,000)—11 Towns

Kottayam	44,204
Cannanore	42,431
Tellicherry	40,040
Changanacherry	36,289
Pantharayal (P)	29,001
Chittur Thathamangalam	23,748
Ponnani (P)	23,608
Kasaragod	22,708
Ottapalam (P)	22,695
Nadagara	20,964
Thiruvalla	20,709

Bombay

(50,000—100,000)—20 Towns

Nasik	97,042
Akola	89,606
Amravati	87,099
Ahmednagar	80,873
Ulhasnagar (Camp)	80,861
Dhule	76,880
Jaigaon	68,412
Aurangabad	66,636
Nanded	65,024
Junagadh	62,730
Broach	62,729
Nadiad	62,645
Poona Cantonment	59,011
Kalyan	58,900
Porbandar	53,824
Jalna	53,478
Malegaon	55,022
Bhusawal	54,348
Sangli	50,287
Thane	50,155

(20,000—50,000)—76 Towns

Kirkee Cantonment	48,552
Malad	45,134
Nasari	44,663
Ahmednagar	44,646
Dhoraji	43,767
Patna	43,044
Dohad	42,006
Barli	41,849
Satara	38,521
Ohanda	40,744
Morvi	40,722
Pandharpur	40,514
Godhra	40,476
Veraval	40,378
Miraj	40,324
Wardha	39,887
Camboy	39,088
Gondal	37,048
Khamgaon	36,734
Gondia	36,686
Yeotmal	35,980
Achalpur	35,712
Latur	35,374
Surandranagar	34,254
Parbhani	33,446
Hinganghat	32,866
Kamptee	31,298
Chalisgaon	30,848

Name of Town **Persons**

Nandurbar	20,144
Malvan	29,851
Petlad	29,667
Jetpur	28,444
Amreli	27,828
Virangam	27,435
Ichalkaranji	27,423
Mulund	27,148
Ratnagiri	27,082
Deolali Cantonment	27,075
Deolali (Non-Cantonment Area)	26,885
Mahuva	26,718
Dhargadhra	25,729
Anand	25,767
Bhivandi	25,764
Karad	25,721
Bhir	25,636
Bulsar	25,440
Bidhpur	25,410
Dabhol	24,952
Mulkapur	24,941
Ahmednagar Cantonment	24,402
Nipani	24,323
Akot	24,255
Palitana	24,097
Wadhwan	23,381
Chopda	22,832
Mehsana	22,804
Vengurli	22,778
Upleta	22,736
Bhandara	22,640
Palanpur	22,629
Kalol	22,432
Kandla	22,413
Kapadwanj	22,319
Amarnath	21,498
Yeola	21,378
Hingoli	21,214
Dharangaon	21,186
Vienagar	21,093
Borsad	20,637
Kadi	20,373
Akluj	20,292
Dholka	20,012
Mandvi	20,305
Bhuj	20,985
Hadnera	21,258
Mangrol	20,085

Madhya Pradesh

(50,000—100,000)—5 Towns

Raipur	89,804
Burhanpur	70,066
Sagar	66,442
Ratlam	63,403
Khandwa	51,940

(20,000—50,000)—23 Towns

Mhow Cantonment	44,655
Bilaspur	39,099
Damoh	36,964
Mandsaur	34,541
Jabalpur Cantonment	34,225
Murwara	33,884
Rewa	29,623
Raigarh	29,684
Jaora	29,598
Dewas	27,879
Chhindwara	27,652
Datia	26,447
Seoni	25,024
Itarsi	24,795
Dhar	23,652
Rajnandgaon	23,300
Goona	22,221
Karanja	22,008
Shivpuri	21,867
Sehore	20,879
Khargone	20,763
Durg	20,249
Satna	20,163

Rajasthan

(50,000—100,000)—4 Towns

Udaipur	89,621
Kotah	65,107
Alwar	57,868
Beawar	51,064

Name of Town **Persons**

(20,000—50,000)—20 Towns	
Sikar	44,140
Tonk	42,833
Churu	40,047
Bharatpur	37,321
Ganganagar	36,437
Bhilwara	29,668
Ratangarh	27,431
Fatehpur	26,731
Nawalgarh	26,679
Sardar Shahr	26,668
Sujan Garh	26,296
Kishan Garh	25,696
Nasirabad	24,504
Pal	24,100
Bundi	22,697
Ladnun	20,914
Barmer	20,812
Dholpur	20,651
Jhunjhunu	20,037
Baran	20,419

Punjab

(50,000—100,000)—6 Towns

Patiala	97,869
Ambala Cantonment	94,043
Rohtak	71,902
Karnal	57,906
Batala	55,850
Paupet	54,981
Ambala	52,685
Bhiwani	52,183

(20,000—50,000)—26 Towns

Simla	46,150
Hoshiarpur	45,291
Ferozepur	40,703
Ferozepur Cantonment	38,784
Moga	36,598
Hissar	35,297
Bhatinda	34,991
Bawari	34,082
Malerkotla	32,575
Jullundur Cantonment	33,174
Sonepat	30,189
Kapurthala	28,947
Fazilka	25,934
Hansi	25,837
Nabha	25,676
Kaithal	25,732
Abohar	25,476
Sirsa	24,980
Jagraon	24,519
Jagadhri	23,943
Rajpura (Small Town Committee)	23,310
Faridabad Township	23,125
Pathankot	23,108
Gurdaspur	22,677
Muktesar	22,097
Phagwara	21,866

Delhi

(50,000—100,000)—2 Towns

Delhi Civil Lines (N. A. C.)	83,873
West Delhi (N. A. C.)	58,862

(20,000—50,000)—2 Towns

Delhi Cantonment	40,960
Shahdara	30,802

Andhra Pradesh

(50,000—100,000)—10 Towns

Kakinada	99,952
Eluru	87,213
Nellore	81,480
Masulipatnam	77,963
Vizianagram	67,104
Kurnool	60,222
Tenali	58,116
Nizamabad	55,195
Adoni	53,563
Kothagudem	50,195

(20,000—50,000)—35 Towns

Anakapalle	40,102
Chittoor	38,894
Chirala	37,789
Cuddapah	37,439

Name of Town (20,000—50,000)—35 Towns—Contd.	Persons	Name of Town	Persons	Name of Town	Persons
Proddatur	36,624	Srikakulam (M)	24,212	Parvatipuram (P)	21,099
Nandyal	33,344	Mahabubnagar	23,827	Jagtial	21,046
Anantapur	31,952	Karimnagar	23,826	Narasapur (P)	20,999
Gudivada	31,942	Edappadi (P)	23,437	Narayanpet	20,707
Guntakal	31,341	Peddapuram	23,360	Kadiri	20,354
Bhimavaram	30,928	Palacole	23,102	Gudur (P)	20,056
Khammam	28,251	Bapatla (P)	22,748		
Samalkot (P)	28,180	Bodhan	22,491	1951 position :	
Ongole	27,810	Narasaraopet	22,243	N.A.C. = Notified Area Committee.	
Tirupathi	25,207	Nalgonda	22,183	P = Panchayat.	
Hindupur	24,438	Pithapuram (P)	22,040	The rest of the towns listed have	
Salur	24,406	Amalapuram	21,117	municipalities.	

LIVELIHOOD CATEGORIES AND CLASSES—BY ZONE

Zone.	Population.	Agricultural.	Percentage of total population.	Non-Agricultural.	Percentage of total population.
INDIA	355,879,894	249,122,449*	70*	107,871,940*	30*
I.—North India	63,215,742	46,886,671		16,319,071	
Uttar Pradesh	63,215,742	46,886,671	74	16,319,071	26
II.—East India	90,080,297	68,140,837		21,939,460	
Orissa	14,645,946	11,612,368	79	3,033,578	21
Assam	9,043,707	6,632,993	73	2,410,715	27
Manipur	577,635	482,017	83	95,618	17
Tripura	639,029	480,481	75	158,548	25
Sikkim	137,725	126,164	92	11,561	8
III.—South India	78,000,804	49,587,786		27,013,018	
IV.—West India	40,661,115	24,265,994		16,395,121	
V.—Central India	52,267,959	38,270,803		13,997,156	
VI.—North-West India	34,837,601	22,955,947		11,881,654	
Punjab	12,506,109	8,064,597	64	4,437,512	36
PEPSU	3,493,645	2,534,684	73	959,001	27
Delhi	1,744,072	172,146	10	1,571,886	90
Bilaspur†	128,099	114,394	90	11,701	10
Himachal Pradesh	983,367	914,234	93	69,129	7
Andaman and Nicobar Islands	30,971	4,411	14	26,560	86

* Chandernagore with a population of 49,909 is not included in this classification. The population, it may be mentioned, is wholly urban.

The figures for the new Punjab could be obtained by adding where appropriate the figures for the old Punjab and PEPSU.

† Merged with Himachal Pradesh on 1st July, 1954.

AGRICULTURAL CATEGORIES—BY ZONE

Zone.	Cultivators of land wholly or mainly owned and their dependents.		Cultivators of land wholly or mainly unowned and their dependents.		Cultivating labourers and their dependents.		Non-cultivating owners of land, agricultural rent receivers and their dependents.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
INDIA	85,115,449	82,231,052	16,256,195	15,383,524	22,396,852	22,416,076	2,488,190	2,686,111
I.—North India	20,371,406	18,989,629	1,710,939	1,544,876	1,908,442	1,703,767	304,286	363,826
II.—East India	22,674,108	22,455,759	4,302,662	4,156,499	6,911,673	6,919,187	341,039	379,910
III.—South India	13,851,489	13,629,360	3,308,612	3,270,241	6,298,063	6,617,452	718,177	904,402
IV.—West India	8,126,228	8,036,546	1,963,570	1,920,941	1,732,685	1,692,341	358,606	435,077
V.—Central India	12,482,081	12,285,406	1,769,793	1,657,433	4,571,624	4,610,296	406,585	445,615
VI.—North-West India	7,607,980	6,832,472	3,200,525	2,633,463	983,280	872,997	307,476	317,764
Andaman and Nicobar Islands	2,177	1,890	94	71	85	46	21	27

NON-AGRICULTURAL CATEGORIES—BY ZONE

Zone and State.	Production other than cultivation.		Commerce.		Transport.		Other services and Miscellaneous sources.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
INDIA	20,024,164	17,686,033	11,232,253	10,076,618	3,114,358	2,505,770	22,657,958	20,324,786
I.—North India	2,661,348	2,439,965	1,692,701	1,486,894	476,173	383,838	3,773,571	3,204,591
II.—East India	4,245,187	3,484,969	2,496,336	2,028,496	760,495	483,337	4,584,168	3,651,468
III.—South India	5,095,492	4,897,774	2,488,000	2,470,811	717,419	664,866	5,385,290	5,322,866
IV.—West India	3,163,442	2,638,132	1,732,504	1,612,236	506,836	416,508	3,396,320	3,027,083
V.—Central India	3,030,683	2,791,517	1,277,164	1,206,319	352,136	316,398	2,606,478	2,416,463
VI.—North-West India	1,613,376	1,376,784	1,547,523	1,369,361	300,662	238,469	2,933,771	2,400,708
Andaman and Nicobar Islands	10,686	6,892	985	502	737	386	6,870	3,182

LIVELIHOOD PATTERN—SCHEDULED CASTES AND TRIBES

The following table shows the figures for the Scheduled Castes and Tribes for the States which were not affected by the reorganization of States (Nov. 1956) which took place after the census of 1951.

Figures for the present Punjab could be obtained by adding the figures for the old Punjab and PEPSU.

State	Scheduled Castes			Scheduled Tribes		
	Total	Agricultural Classes	Non-Agricultural Classes	Total	Agricultural Classes	Non-Agricultural Classes
INDIA	51,343,898	38,118,959	13,224,939	19,116,498†	17,284,260	1,822,422
Uttar Pradesh	11,479,102	9,011,654	2,467,448	—	—	—
Orissa	2,630,763	1,925,763	705,000	2,967,334	2,615,289	352,045
Assam	424,044	254,926	169,118	1,735,245	1,626,968	108,277
Manipur	—	—	—	194,239	188,532	5,707
Tripura	46,371	30,311	16,060	192,293	180,701	11,592
Punjab	2,386,143	1,421,117	965,026	2,429	2,175	254
Patiala & East Punjab States Union	676,302	472,542	203,760	—	—	—
Delhi	208,612	23,249	185,363	—	—	—
Bilaspur†	27,185	23,529	3,656	—	—	—
Himachal Pradesh	224,610	208,413	16,197	—	—	—

† The figures include about 5,000 persons in Madras who returned themselves as Harijans but were misclassified as 'Scheduled Tribes'.

†† Merged with Himachal Pradesh after 1st July, 1956.

Other statistics about the Special Groups are given below.

Note that there is a discrepancy between the figures here and those on page 7. The latter were published in 1956 after the reorganization of States, but are also based on the 1951 census. The discrepancy could be ascribed to a different basis of reckoning.

Groups	Number (in Lakhs)			Number per 1,000 persons		
	Population	Scheduled Castes	Scheduled Tribes	Population	Scheduled Castes	Scheduled Tribes
INDIA	51.34	38.12	13.22	1,000	144	84
Total	51.34	38.12	13.22	1,000	144	84
Rural	2.94	462	186	1,000	157	63
Urban	0.18	51	5	1,000	83	8
All Agricultural Classes	2.49	381	173	1,000	153	70
All Non-Agricultural Classes	1.07	132	18	1,000	123	17
<i>Agricultural Classes:</i>						
I. Cultivators of land, wholly or mainly owned and their dependants	1.67	174	125	1,000	104	75
II. Cultivators of land, wholly or mainly unowned and their dependants	316	56	19	1,000	176	59
III. Cultivating labourers, and their dependants	448	148	28	1,000	330	68
IV. Non-cultivating owners of land, agricultural rent receivers and their dependants	53	3	1	1,000	61	12
<i>Non-Agricultural Classes:</i>						
Persons (including dependants) who derive their principal means of livelihood from:—						
V. Production other than cultivation	377	53	7	1,000	142	30
VI. Commerce	213	9	1	1,000	44	6
VII. Transport	56	6	1	1,000	110	11
VIII. Other Services and miscellaneous sources	430	64	9	1,000	147	20

* This does not include 1.35 lakhs for whom enumeration records were destroyed by fire in the Census Tabulation Office at Jullundur. Classification details for these persons are not available. Also it does not cover Chandernagore or Sikkim.

LIVELIHOOD PATTERN OF POPULATION—BY STATE

The figures are based on a 10% sample of the general population.

State	Cultivators of land wholly or mainly owned and their dependants		Cultivators of land wholly or mainly un-owned and their dependants		Cultivating Labourers and their dependants		Non-Cultivating owners of land, agricultural rent receivers and their dependants	
	Males	Females	Males	Females	Males	Females	Males	Females
India	85,115,477	82,231,084	16,254,207	15,383,544	22,395,862	22,416,081	2,438,318	2,886,236
Andhra Pradesh	6,301,073	6,037,049	1,236,133	1,176,448	2,837,146	2,918,139	284,688	349,647
Assam	2,728,885	2,506,906	614,990	543,264	90,098	87,245	38,374	43,230
Bihar	10,586,292	10,617,219	2,617,288	1,616,166	4,212,182	4,425,917	115,311	120,156
Bombay	9,561,561	9,501,145	2,010,573	1,971,487	2,970,283	2,892,902	438,797	528,764
Kerala	1,265,274	1,301,352	813,283	824,882	1,388,254	1,468,510	91,865	115,667
Madhya Pradesh	7,327,543	7,182,743	821,887	765,181	1,958,744	2,000,430	122,475	149,258
Madras	5,410,473	5,383,582	1,239,971	1,219,700	2,401,269	2,584,957	246,755	323,960
Mysore	4,697,895	4,548,083	920,778	891,445	1,042,896	1,060,062	301,212	358,290
Orissa	4,308,305	4,410,517	437,779	431,972	903,050	900,918	95,971	123,856
Punjab	3,477,345	3,033,957	1,295,015	1,125,430	714,406	606,857	175,131	175,050
Rajasthan	3,584,450	3,289,096	1,859,571	1,662,557	241,093	242,250	123,414	133,836
Uttar Pradesh	20,371,406	18,989,629	1,710,939	1,544,876	1,908,442	1,703,767	304,286	363,326
West Bengal	4,688,673	4,474,119	1,569,614	1,504,063	1,688,446	1,510,553	80,731	80,065
UNION TERRITORIES								
Andaman and Nicobar Islands	2,177	1,800	94	71	85	46	21	27
Delhi	64,198	56,610	8,896	7,601	15,278	13,998	2,611	2,794
Himachal Pradesh	477,111	449,694	42,204	37,283	6,141	4,943	5,684	5,576
Laccadive, Minicoy & Amindivi Islands	836	463	189	64	52	28	12	26
Manipur	206,482	204,930	27,915	29,823	701	680	5,165	6,371
Tripura	196,599	185,548	29,732	26,198	17,104	13,782	5,588	6,390

LIVELIHOOD PATTERN OF POPULATION—BY STATE—Continued

The figures are based on a 10% sample of the general population.

State	Production other than cultivation		Commerce		Transport		Other services & miscellaneous sources	
	Males	Females	Males	Females	Males	Females	Males	Females
India	20,033,386	17,642,691	11,239,135	10,082,837	3,116,260	2,506,976	22,667,994	20,332,210
Andhra Pradesh	2,041,067	1,933,173	843,882	850,878	230,053	217,652	2,068,870	2,034,235
Assam	710,327	617,224	202,772	150,204	67,782	47,787	358,938	255,591
Bihar	844,511	699,832	704,428	635,200	157,321	118,574	1,253,229	1,040,074
Bombay	3,597,391	3,042,900	1,925,454	1,684,536	562,765	470,324	3,755,137	3,351,120
Kerala	1,262,816	1,284,442	538,600	513,309	220,694	199,377	1,101,025	1,157,678
Madhya Pradesh	1,205,980	1,071,851	558,519	519,178	157,718	135,400	1,102,139	992,583
Madras	2,142,525	2,040,455	1,084,833	1,100,823	280,782	263,519	2,126,159	2,126,173
Mysore	1,033,473	947,192	542,231	519,371	122,044	108,912	1,206,004	1,101,305
Orissa	456,960	469,828	208,911	216,941	41,160	36,378	790,756	812,644
Punjab	640,247	530,896	753,474	657,066	152,499	117,428	1,402,337	1,142,165
Rajasthan	782,800	708,780	564,323	529,945	91,922	77,729	1,072,310	1,012,708
Uttar Pradesh	2,861,348	2,439,965	1,692,701	1,486,894	476,173	383,838	3,773,571	3,204,581
West Bengal	2,206,733	1,660,772	1,352,092	1,000,609	490,881	283,745	2,129,608	1,681,694
UNION TERRITORIES								
Andaman and Nicobar Islands	10,636	6,892	955	502	737	356	4,370	2,132
Delhi	177,312	124,785	220,401	175,750	55,053	40,116	442,589	335,881
Himachal Pradesh	16,930	12,014	10,319	7,740	2,875	1,462	14,239	11,252
Laccadive, Minicoy & Amindivi Islands	6,452	7,627	156	131	548	911	2,050	1,490
Manipur	15,000	25,331	11,287	12,837	1,690	1,390	15,495	12,598
Tripura	20,206	18,189	22,566	18,272	1,801	1,513	41,993	33,608

ECONOMIC STATUS

Out of a total population of 3,566 lakhs, 1,044 lakhs (29.3 per cent) are self-supporting; 2,143 lakhs (60.1 per cent) are non-earning dependents; and 379 lakhs (10.6 per cent) earning dependents.

Out of a total agricultural population of 2,490 lakhs, 710 lakhs are self-supporting; 1,470 lakhs are non-earning dependents; and 310 lakhs earning dependents.

Out of a total non-agricultural population of 1,076 lakhs, 334 lakhs are self-supporting; 673 lakhs are non-earning dependents; and 69 lakhs earning dependents.

The table below gives a comprehensive picture of self-supporting and dependent people and the percentage.

Under Agriculture Class I is owner-cultivator, Class II tenant-cultivator, Class III cultivating labourer, Class IV agricultural rentier.

Class V are persons engaged in non-agricultural production together with their dependents, Class VI persons in commerce and their dependents, Class VII in transport and their dependents, Class VIII in miscellaneous income recipients (non-agricultural rentiers, pensioners etc.).

The second column shows self-supporting persons; the third non-earning dependents; the fourth earning dependents; the fifth total; the sixth percentage to general population including dependents.

country as a whole. It is probable that it has increased slightly.

On the whole, there has been a general increase of non-earning dependency. The increase in absolute numbers of non-earning dependents has exceeded the entire increase of rural population in India as well as in each of the five zones out of six.

The increases in the percentages are not accompanied by any material change in sex ratio or age structure. They must therefore, be regarded as a rough index of the growth of unemployment in different parts of the country.

There has been a general increase throughout the country in the number of cultivators and cultivating labourers working on the same area (say 100 acres) of cultivated land.

Material changes have occurred in the percentage of cultivating labourers to all workers in land (i.e. cultivating labourers and cultivators including their unpaid family helpers).

The fall is the natural result of increase in the number of cultivators and members of their families occupying the same area of cultivated land. The cultivators' need for employing labourers diminishes, as also their capacity to pay for their services.

Other reasons for the fall may be that labourers were unwilling to acknowledge as labourers to guard against the accrual of occupancy rights in land.

There were also many people who partook of the characteristics of both cultivator and cultivating labourer and whose classification was open to doubt.

It is also possible that because of legislation and the general social climate a conversion has taken place of many persons from the status of cultivating labourer to that of cultivator.

Among cultivators the relative proportion of cultivator owners has increased to some extent.

Agricultural rentiers formed only a small proportion of the people in 1951, and this proportion has become still smaller in 1961.

The figures are in lakhs.

Category	2	3	4	5	6
Class I	457	1,001	215	1,673	46.9
Class II	84	189	39	316	8.8
Class III	149	247	52	448	12.6
Class IV	16	33	4	53	1.5
Total Agricultural classes ..	710	1,470	310	2,490	69.8
Class V	122	223	32	377	10.6
Class VI	59	145	9	213	6.0
Class VII	17	37	2	56	1.6
Class VIII	136	268	26	430	12.1
Total non-agricultural classes ..	334	673	69	1,076	30.2
General Population ..	1,044	2,143	379	3,566	100.0

The following figures show the number of dependents supported by 100 persons in each of the eight categories. The first figure in brackets shows the number of non-earning dependents and the second figure the number of earning dependents:

Class I—266 (210.47); Class II—259 (215.44); Class III—201 (166.35); Class IV—231 (206.25); All Agricultural classes—251 (207.44).

Class V—211 (165.36); Class VI—261 (246.15); Class VII—230 (215.12); Class VIII—216 (197.19); All non-agricultural classes—222 (201.21).

General Population—242 (205.37).

The broad conclusion of this survey is that the average self-supporting person uses his income to support himself and at least two others.

Roughly one among three self-supporting persons also provides, in addition, partial support for one earning dependent.

During the twenty years following 1931 population grew faster than cultivation. But the relative weight of dependence on agriculture for gainful employment has not declined in the

SELF-SUPPORTING PERSONS, DEPENDENTS ETC. (AGRICULTURAL CLASSES) BY ZONES

Zone	Self-supporting persons		Non-earning dependents		Earning dependents	
	Males	Females	Males	Females	Males	Females
India	58,514,694	12,534,662	57,193,466	89,763,174	10,479,295	20,589,610
North India	12,659,071	1,262,460	9,867,505	16,457,548	1,768,497	4,881,590
East India	15,413,440	4,487,102	16,566,906	27,168,412	2,249,314	2,256,023
South India	10,067,318	2,601,206	12,988,564	20,555,971	1,110,459	1,364,268
West India	5,168,210	796,350	5,646,961	7,502,033	1,375,918	3,786,522
Central India	9,123,477	1,877,655	7,404,714	11,112,657	2,703,872	6,048,428
North-West India	6,091,954	1,609,736	4,717,856	6,964,692	1,271,042	2,252,759
Andaman and Nicobar Islands ..	1,224	153	960	1,861	193	20

SELF-SUPPORTING PERSONS, DEPENDENTS ETC. (NON-AGRICULTURAL CLASSES) BY ZONES

Zone	Self-supporting persons		Non-earning dependents		Earning dependents	
	Males	Females	Males	Females	Males	Females
India	28,662,536	4,687,911	25,407,927	41,926,707	2,937,036	3,931,294
North India	4,751,964	584,015	3,700,962	6,350,411	350,867	578,852
East India	6,415,002	1,411,294	5,235,364	8,042,979	463,852	420,518
South India	6,256,924	1,227,083	6,794,472	11,488,904	604,805	640,830
West India	4,428,106	546,054	3,862,807	6,288,494	510,279	760,381
Central India	3,665,448	526,177	3,006,947	5,108,068	593,066	1,097,450
North-West India	3,135,575	391,848	2,803,254	4,642,359	411,127	429,313
Andaman and Nicobar Islands ..	9,517	440	4,121	5,492	3,040	3,950

The following table shows the livelihood pattern in some States in a sample of 10,000 persons :

States.	Number per 10,000 persons of all agricultural Classes			Number per 10,000 persons of all non-agricultural Classes			Number per 10,000 self-supporting persons of all non-agricultural Classes			
	Self-supporting persons	Non-earning dependents	Earning dependents	Self-supporting persons	Non-earning dependents	Earning dependents	Employers	Employees	Independent workers	Others
India	2,853	5,900	1,247	3,101	6,260	639	331	4,436	4,938	295
Zones :-										
I—North India	2,969	5,613	1,418	3,271	6,159	570	280	2,815	6,628	277
II—East India	2,921	6,418	661	3,559	6,039	462	247	5,565	3,917	271
III—South India	2,587	6,904	509	2,771	6,768	461	481	4,765	4,482	272
IV—West India	2,454	5,419	2,127	3,033	6,192	775	465	5,025	4,221	259
V—Central India	2,874	4,839	2,287	2,995	5,797	1,208	282	3,942	5,376	400
VI—North-West India	3,362	5,100	1,538	2,986	6,303	711	146	3,440	6,107	307
Uttar Pradesh	2,969	5,613	1,418	3,271	6,159	570	280	2,815	6,628	277
Orissa	2,777	6,233	900	3,157	5,975	868	118	2,702	6,766	414
Assam	2,448	5,849	1,703	4,101	5,241	653	100	7,507	2,245	148
Manipur	2,719	4,831	2,450	2,714	4,618	2,668	170	1,816	2,011	3
Tripura	3,127	5,480	1,393	3,210	6,384	406	66	4,836	4,691	407
Sikkim	2,102	4,259	3,639	5,803	4,000	197	—	4,832	5,145	23
Punjab	2,679	5,836	1,485	2,660	6,477	863	98	3,357	6,150	395
Himachal Pradesh and Bilaspur	3,502	3,967	2,331	3,984	5,100	916	32	3,443	6,257	266
PEPSU	3,003	5,902	1,095	2,960	6,627	413	16	3,782	6,964	236
Delhi	2,505	6,074	1,421	3,299	6,364	337	166	5,612	4,151	71

The figures for the new Punjab could be obtained by adding where appropriate the figures for the old Punjab and PEPSU.

Rural-Urban

There are 1,044 lakhs of self-supporting persons in the country or 29.3 per cent of the population.

The table below shows the rural-urban and sex-wise break-up.

Rural-Urban	Number (in lakhs)	Percentage
Rural males ..	706	47.1
Urban males ..	166	49.8
Rural females ..	151	10.4
Urban females ..	21	7.4
Total ..	1,044	29.3

Out of 1,044 lakhs of self-supporting persons 710 lakhs or 68.1 per cent are agriculturists, and 334 lakhs or 31.9 per cent are non-agriculturists.

The rural-urban and the sex-wise break-up of agricultural and non-agricultural self-supporting classes is as follows (the number is in lakhs):

Rural-Urban break-up		Agriculturists		Non-agriculturists	
		Number	Percentage	Number	Percentage
Rural males		566	80.2	140	19.8
Urban males		19	11.4	147	88.6
Rural females		121	80.2	30	19.8
Urban females		4	19.7	17	80.3
Total ..		710	68.1	334	31.9

The self-supporting agriculturists can be divided into four classes. The number in the second column in the table below is in lakhs, the number in the third column is the percentage of all agriculturists, the number in the last is percentage of all self-supporting persons.

Category	Number (lakhs)	Percentage of agriculturists	Percentage of all self-supporting persons
Cultivators of land wholly or mainly owned	457	84.4	48.8
Cultivators of land wholly or mainly un-owned	88	12.8	8.4
Cultivating labourers	149	21.0	14.8
Non-cultivating owners of land and other agricultural rent receivers	16	2.8	1.6
Total	710	100.0	68.1

Another way of describing Classes I and II is as owner-cultivators and tenant-cultivators. Thus the number of owner-cultivators is 457 lakhs and the number of tenant-cultivators is 88 lakhs. The total number of cultivators can thus be put down as 545 lakhs.

The 334 lakhs self-supporting non-agriculturists can also be divided into four sections. The number in the second column is in lakhs, the number in the third shows the percentage of all self-supporting non-agriculturists, the fourth the percentage of all self-supporting persons.

Categories	Number (lakhs)	Percentage of self-supporting non-agriculturists	Percentage of all self-supporting persons
Employers	11	3.3	1.1
Self-employed other than employers	165	49.4	18.7
Employees	148	44.3	14.2
Non-agricultural rentiers, pensioners and miscellaneous income-receivers	10	3.0	0.9
Total	334	100.0	31.9

The employees are a clear minority. Self-employed persons are more numerous than employers and employees combined.

If we deduct rentiers from both agriculturists and non-agriculturists we get the following classification of income-earners. The number in the following table is in lakhs.

Nature of income	Cultivation	Industries and Services	Total
Net profits	545	176	721
Wages and salaries	149	148	297
Total	694	324	1,018

Earners of profits are much more than twice as numerous as earners of wages and salaries.

In Industry

The 324 lakhs self-supporting persons engaged in industries and services other than cultivation may be divided as follows :

Categories	Number (in lakhs)	Percentage
Primary industries other than mining and quarrying (0)	24.0	7.4
Mining and quarrying (1)	5.7	1.8
Processing and manufacture (foodstuffs, textiles, leather) (2)	55.1	17.0
Processing and manufacture (metals, chemicals) (3)	12.4	3.8
Processing and manufacture not elsewhere specified (4)	24.3	7.5
Construction and utilities (5)	15.9	4.9
Commerce (6)	59.0	18.2
Transport, storage and communications (7)	19.0	5.9
Health, education and public administration (8)	22.4	10.2
Services not elsewhere specified (9)	75.4	23.3

The number engaged in some of the sub-divisions of the above main divisions is as follows (the figure is in lakhs) :

Plantations—10.6; Stock-raising—6.3; Fishing—4.2; Forestry (wood cutting, collection of forest produce not elsewhere specified)—2.5; Rearing of small animals and insects—27 (in thousands); hunting—9 (in thousands).

Figures for men engaged in mining (shown below) are given in thousands except for coal-mining, and mining of stone, clay and sand which are in lakhs :

Coal-mining—3.1; Mining of stone, clay, sand—1.2.

Iron ore—9; metals other than iron—57; petroleum—3; mica—33; salt, saltpetre and saline substances—22; non-metallic minerals—11. Total for this group—135.

The figures for persons engaged in various industries given below are in lakhs :

Divisions 2, 3, 4

Milling of cereals, pulses, hand pounding of rice, dehussing, grinding of food grains—4.0;

Vegetable oil and dairy products—2.7; Sugar—1.4; Beverages (breweries, distilleries, toddy drawers, aerated waters)—1.6; Tobacco (preparation of raw leaf, makers of biddis, cigarettes, etc., snuff)—3.6; Other food industries—1.8; All food industries (except cultivators, housewives, hotel workers)—15.

Cotton textiles—20.6; wearing apparel (except footwear)—6.5; Other textiles (jute, wool, silk, hemp, flax, rayon, rope, twine, etc.)—7.1; Leather (leather products, footwear)—5.8.

Manufacture of transport equipment—2.2; Machinery (other than electrical) including engineering workshops—1.2; Basic manufacture of iron and steel—1.1; Manufacture of metal products otherwise unclassified—6.2.

Manufacture of wood and wood products (carpenters, turners, etc.)—10.4; Manufacture of non-metallic mineral products (potters, makers of earthenware, porcelain, crockery, glass bangles, etc.)—4.5.

Division 5

Total for construction and utilities (15.9).

Division 6

The total number engaged in commerce is 59 lakhs.

They fall into three groups: Retail trade (51.1); Wholesale trade (4.6); Money-lending, banking, insurance, real estate (3.3).

Among men in retail trade: Selling food stuffs (22.5); Selling fuel (1.9); Selling textiles and leather goods (5.6).

Division 7

Total for Transport, Storage and Communications (19.0); Transport by road (8.9); By railway (5.7); By water (2.2); By air (18 thousand).

Division 8

Total for Health, Education and Public Administration (32.9).

Medical and health services (8.8).

Total for educational services and research

(7.4): of these stationed in towns (3.7); in villages (3.7).

These were divided as follows*: Professors, lecturers, teachers, research workers, employed in universities, colleges, research institutions (99,256); other professors, lecturers, teachers (549,544).

Total for public administration (21.6). These may be divided as follows:

Employees of Central Government (5.03); Total employees of State Governments (14.26);

* Excludes five Districts in Bihar.

Employees of District Boards, Municipalities and other local bodies (2.24).

These may be sub-divided as General administration (8.09); Police (other than village watchmen) (3.80); Village establishments including village watchmen (2.37); Employees of local bodies (2.24).

Division 9

Services not elsewhere specified (75.4). Of these nothing is known of 37.3 except that they

are self-supporting.

The following para. gives the details about the rest of the 38.1 lakh persons (the number is in thousands):

Domestic service (1,424); Laundries and laundry services (565); Barbers and beauty shops (511); Religious, charitable and welfare services (369); Legal and business services (230); Recreation services (214); Hotels, restaurants and eating houses (456); Arts, letters and journalism (39).

The following table shows the position in industries and services in some States in a sample of 10,000 self-supporting persons:

State.	0-Primary Industries not elsewhere specified.	1-Mining and Quarrying.	2-Processing and Manufacture of Foodstuffs, Textiles, Leather and products thereof.	3-Processing and Manufacture of Metals, Chemicals and products thereof.	4-Processing and Manufacture not elsewhere specified.	5-Construction and utilities.	6-Commerce.	7-Transport, Storage and Communications.	8-Health, Education and Public Administration.	9-Service not elsewhere specified.
India	742	175	1,702	382	751	490	1,823	588	1,017	2,330
Zones:—										
I—North India .. .	313	22	1,756	360	853	547	1,758	548	955	2,888
II—East India .. .	1,320	400	1,311	486	614	349	1,865	687	696	2,282
III—South India .. .	813	126	1,833	340	792	582	1,690	540	983	2,901
IV—West India .. .	434	65	2,071	446	676	396	1,838	639	1,066	2,350
V—Central India .. .	733	276	2,066	333	880	570	1,702	522	1,219	1,700
VI—North-West India .. .	387	52	1,269	241	765	561	2,238	533	1,580	2,374
Uttar Pradesh .. .	313	22	1,756	360	853	547	1,758	548	955	2,888
Orissa .. .	728	122	1,423	233	777	389	1,509	282	652	3,885
Assam .. .	5,490	55	261	171	390	126	1,091	412	542	1,463
Manipur .. .	528	124	2,485	146	942	166	2,474	342	1,465	1,808
Tripura .. .	1,646	..	826	131	376	25	2,559	217	908	3,310
Sikkim .. .	296	..	221	33	187	285	964	2,769	1,143	4,103
Punjab .. .	146	15	1,130	225	678	472	2,418	464	1,809	2,641
Himachal Pradesh and Bilaspur .. .	727	68	1,709	388	727	374	1,904	909	1,300	1,894
PEPSU .. .	400	4	1,267	299	726	298	2,624	1,523	1,591	1,238
Delhi .. .	22	5	795	370	655	964	2,247	665	2,575	1,703

The figures for the new Punjab could be obtained by adding where appropriate the figures for the old Punjab and PEPST.

DEPENDENTS

Out of 3,566 lakhs 2,143 or 60.1 per cent have been classified as non-earning dependents.

The table below shows the rural-urban and the sex-wise break-up of non-earning dependents:

Rural-Urban	Number (in lakhs)	Percentage
Rural males ..	674	45.0
Urban males ..	152	45.6
Rural females ..	1,065	73.5
Urban females ..	252	88.1
	2,143	60.1

There are 379 lakhs or 10.6 per cent earning dependents in the country. They are dependents in the sense that left to themselves they cannot support themselves.

The table below shows the rural-urban and sex-wise break-up of earning dependents.

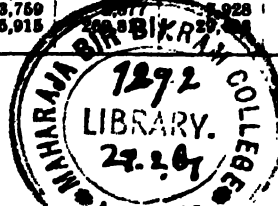
Rural-Urban	Number (in lakhs)	Percentage
Rural males	119	7.9
Urban males	15	4.6
Rural females	232	16.0
Urban females	13	4.5
	379	10.6

EMPLOYERS, EMPLOYEES AND INDEPENDENT WORKERS

Zone	Employers		Employees		Independent Workers	
	Males	Females	Males	Females	Males	Females
India						
Total	1,025,540	79,089	12,915,584	1,880,417	14,051,077	2,415,176
Rural	349,980	45,346	4,956,516	1,090,894	8,358,703	1,671,961
Urban	675,560	33,743	7,959,068	789,523	5,692,374	743,215
North India						
Total	140,820	8,778	1,405,188	97,163	3,095,523	442,488
Rural	37,481	4,635	500,931	41,972	1,961,008	349,099
Urban	103,339	4,143	904,257	55,191	1,134,515	93,389
East India						
Total	173,607	19,783	3,617,080	738,073	2,498,691	566,833
Rural	73,908	13,901	1,738,416	353,615	1,668,246	460,643
Urban	99,699	5,882	1,880,673	384,458	930,445	106,190
South India						
Total	331,312	28,731	2,987,373	579,041	2,814,566	539,497
Rural	146,206	16,818	1,422,441	351,244	1,790,452	367,603
Urban	185,106	11,913	1,564,932	227,797	1,024,114	171,894
West India						
Total	220,039	11,062	2,302,353	196,777	1,802,901	296,133
Rural	36,855	3,194	406,013	35,681	836,613	142,945
Urban	183,184	7,868	1,896,340	161,096	966,288	153,188
Central India						
Total	111,029	7,303	1,475,441	176,778	1,955,615	297,479
Rural	44,688	5,066	565,509	68,434	1,299,363	173,348
Urban	66,361	2,237	909,932	108,337	746,252	124,131
North-West India						
Total	44,685	2,930	1,120,725	92,453	1,891,762	272,443
Rural	10,874	1,732	320,901	39,896	901,524	178,097
Urban	37,811	1,198	799,824	52,557	990,238	94,346
Andaman and Nicobar Islands	48	2	7,415	135	2,019	303

DISTRIBUTION BY INDUSTRY

Industry	Total		Employers		Employees		Independent Workers	
	Males	Females	Males	Females	Males	Females	Males	Females
Stock Raising	560,627	70,174	14,755	1,813	131,204	10,743	414,684	57,622
Plantation Industries	657,047	403,971	7,576	1,107	540,225	382,005	69,246	20,259
Forestry and Woodcutting	213,909	39,043	5,547	357	83,015	5,748	125,207	31,688
Fishing	383,104	37,936	12,610	1,143	47,440	2,919	322,654	33,874
Mining and Quarrying	494,967	101,903	5,510	426	362,823	82,290	96,634	19,187
Coal-mining	248,337	63,093	1,122	114	243,246	61,343	3,929	1,566
Iron Ore mining	5,742	2,877	70	6	4,910	2,749	762	82
Metal mining except iron ore mining	49,705	7,247	678	23	37,157	4,440	11,870	2,784
Crude Petroleum and Natural Gas	2,252	200	118	13	1,862	50	272	137
Stone-quarrying, clay and sand pits	104,130	15,718	2,494	194	39,625	5,941	64,007	9,539
Mica	25,996	6,932	540	19	21,292	4,996	4,124	1,717
Salt, Saltpetre and Saline substances	18,859	2,742	307	26	9,870	443	8,642	1,833
Vegetable Oil and Dairy products	228,644	34,452	11,831	1,354	67,243	4,742	149,574	32,316
Sugar Industries	127,853	7,417	3,396	290	80,033	2,813	44,424	4,404
Beverages	154,601	6,257	6,312	351	44,451	1,267	107,438	4,639
Tobacco	287,404	67,899	11,864	1,610	126,760	23,154	149,176	43,134
Cotton Textiles	1,833,757	227,994	52,242	4,719	901,553	79,968	479,962	143,807
Wearing apparel and made-up textiles	597,446	51,225	29,052	1,592	116,666	6,003	451,728	43,630
Textile Industries otherwise unclassified	548,540	162,661	11,142	1,142	381,105	82,631	156,253	78,888
Leather, leather products and footwear	540,899	36,780	15,365	899	78,817	4,143	446,717	31,789
Processing and Manufacture—Metals, Chemicals and products thereof	1,184,582	52,465	38,276	1,399	669,317	24,028	476,989	27,039
Manufacture of metal products, otherwise unclassified	592,544	27,997	20,915	817	202,164	5,143	389,469	22,037
Iron and Steel (Basic Manufacture)	104,894	7,479	1,722	71	89,463	6,533	13,709	875
Non-Ferrous metals (Basic Manufacture)	10,828	246	238	7	6,090	76	4,300	163
Transport Equipment	212,554	3,720	6,230	108	164,120	2,717	38,204	895
Electrical machinery, apparatus	41,997	773	1,201	8	29,228	535	11,548	230
Machinery (other than electrical machinery)	122,677	2,291	3,009	84	101,174	1,416	14,494	391
Basic Industrial Chemicals, Fertiliser and Power								
Alcohol	20,367	1,111	688	31	14,172	695	5,507	385
Medical and Pharmaceutical preparations	14,158	715	393	17	11,819	481	1,946	217
Manufacturing Industries, otherwise unclassified	487,136	22,173	25,275	692	102,690	5,196	359,171	16,238
Products of Petroleum and Coal	11,053	745	238	13	8,808	247	2,006	485
Bricks, tiles and other structural clay products	154,764	29,391	4,186	392	74,449	14,297	76,129	14,792
Cement—Cement pipes and other cement products	22,860	2,992	349	24	18,896	1,901	3,615	1,067
Non-metallic mineral products	345,170	69,991	10,643	1,429	49,466	8,254	325,022	58,904
Rubber products	14,733	508	730	23	14,585	306	3,118	179
Wood and wood products other than furniture and fixtures	938,695	102,594	25,581	1,765	181,788	9,978	731,326	90,981
Furniture and Fixtures	32,091	2,484	1,821	159	8,819	478	21,661	1,857
Paper and paper products	29,136	2,077	823	65	22,806	1,256	6,768	764
Printing and allied industries	123,759	2,377	925	199	93,563	1,614	22,276	1,084
Construction and Utilities	1,215,915	10,887	2,072	598,548	114,858	697,883	183,081	



DISTRIBUTION BY INDUSTRY—Contd.

Industry	Total		Employers		Employees		Independent Workers	
	Males	Females	Males	Females	Males	Females	Males	Females
Construction and maintenance—Buildings ..	669,312	87,396	18,566	1,114	206,371	29,700	444,375	56,581
Construction and maintenance—Roads, Bridges and other Transport Works ..	127,699	21,105	4,684	240	84,652	9,579	38,413	11,286
Construction and maintenance—Telegraph and Telephone lines ..	7,013	558	114	2	6,273	316	626	240
Construction and maintenance operations—Irrigation and other agricultural works ..	95,832	18,167	1,348	88	60,122	10,457	34,362	7,623
Works and Services—Electric power and gas supply ..	70,526	1,479	910	10	62,772	1,243	6,844	226
Works and Services—Domestic and Industrial water supply ..	49,298	14,861	842	293	22,169	5,357	26,287	9,211
Sanitary Works and Services (including scavengers) ..	227,655	112,611	1,107	228	133,833	53,774	92,715	58,609
Commerce ..	5,339,343	561,975	472,943	30,732	1,086,598	48,288	3,779,802	482,958
Retail trade, otherwise unclassified ..	1,932,622	175,383	159,847	10,818	344,110	16,517	1,429,865	148,048
Retail trade in foodstuffs (including beverages and narcotics) ..	1,064,398	289,616	155,134	12,382	275,951	17,405	1,533,313	259,629
Retail trade in fuel (including petrol) ..	158,152	34,855	17,636	1,750	39,721	2,922	100,795	30,183
Retail trade in textile and leather goods ..	538,060	21,595	65,699	2,236	101,047	2,928	371,414	16,431
Wholesale trade in foodstuffs ..	152,583	11,776	20,944	822	38,720	1,387	93,219	9,567
Wholesale trade in commodities other than foodstuffs ..	287,486	11,030	32,910	846	132,631	3,498	121,745	6,686
Real Estate ..	16,698	3,438	2,117	438	7,289	290	7,292	2,710
Insurance ..	35,881	1,847	1,493	107	24,429	836	9,959	904
Money-lending, banking and other financial business ..	253,163	12,435	18,263	1,333	122,500	2,505	112,400	8,597
Transport, Storage and Communications ..	1,839,007	62,964	33,690	3,606	1,254,416	36,557	550,901	22,801
Transport and Communications (otherwise unclassified) and incidental services ..	37,814	2,986	766	68	18,161	1,378	18,887	1,540
Transport by Road ..	859,675	33,784	26,989	3,026	375,962	12,841	458,724	17,917
Transport by Water ..	211,419	5,349	5,501	377	155,947	2,959	49,971	2,013
Transport by Air ..	13,199	295	124	11	11,641	263	1,434	21
Railway Transport ..	554,260	14,459	211	96	536,104	13,200	21,945	1,163
Storage and Warehousing ..	8,687	938	90	28	6,994	771	1,603	139
Postal Services ..	112,942	2,047	9	..	112,655	2,043	278	4
Telegraph Services ..	20,205	416	..	..	20,178	415	27	1
Telephone Services ..	12,715	2,623	..	..	12,693	2,620	22	3
Wireless Services ..	4,091	67	..	..	4,081	67	10	..
Health, Education and Public Administration ..	3,017,844	272,483	20,100	2,608	2,796,285	234,129	199,459	35,746
Medical and other Health Services ..	305,236	79,625	14,071	1,383	150,450	50,283	140,715	27,959
Educational Services and Research ..	624,858	114,491	5,840	1,221	562,934	109,634	56,084	7,636
Police (other than Village Watchmen) ..	375,592	4,129	..	..	375,592	4,129	..	..
Village Officers and Servants, including Village Watchmen ..	231,747	5,433	189	4	228,898	5,278	2,660	151
Employers of Municipalities and Local Boards (not persons classifiable under any other division) ..	108,410	25,839	..	..	198,410	25,839	..	..
Employees of State Governments (not persons classifiable under any other division) ..	782,672	26,340	..	..	782,672	26,340	..	..
Employees of Union Government (not persons classifiable under any other division) ..	491,198	11,864	..	..	491,198	11,864	..	..
Employees of non-Indian Governments ..	8,131	762	..	..	8,131	762	..	..
Services not elsewhere specified ..	6,092,197	1,451,524	139,806	13,755	2,601,264	644,870	3,151,127	792,903
Services otherwise unclassified ..	2,046,132	786,483	25,467	5,941	1,217,745	271,563	1,702,920	508,979
Domestic Services ..	1,033,407	391,075	3,855	906	922,956	324,300	106,596	66,869
Barbers and beauty shops ..	480,196	3,401	14,596	607	61,086	3,607	404,514	26,187
Laundries and laundry services ..	439,003	125,506	15,570	2,087	59,633	14,367	363,800	109,052
Hotels, restaurants and eating houses ..	424,944	33,348	53,982	2,820	228,239	8,801	162,723	21,727
Recreation services ..	181,400	32,780	6,035	445	71,244	5,027	104,121	27,308
Legal and business services ..	221,361	8,959	12,009	185	136,112	5,596	73,240	3,178
Arts, letters and journalism ..	37,536	1,720	2,086	112	13,991	464	21,459	1,144
Religious, Charitable and Welfare Services ..	328,218	41,256	6,206	652	90,258	11,145	231,754	29,469

LITERACY AND EDUCATIONAL STANDARD

The test of literacy is ability to read and write a simple letter in some language.

All India percentage of literacy: 16.6; West India zone: 23.8; South India: 22.8; East India: 16.8; North-West India: 13.3; Central India: 10.9; North India: 10.8.

All India percentage of male literacy 24.9, of female 7.9.

In absolute numbers, out of 36 crores about 6 crores are literate. Out of 30 crores who are illiterate about 6 lakhs can read but not write. About 90 lakhs have reached the middle school standard, and 38 lakhs (women 5 lakhs) Higher

Secondary School Standard.

The total no. of those who have reached the Intermediate standard in Arts and Science: 407,000 (men), 59,000 (women).

The total no. of the holders of degrees and diplomas: 991,000 (men), 183,000 (women).

The above figures (degree and diploma) are broken up as follows. The first figure relates to men, the second to women:

Graduates in Arts and Science: 284,000; 37,000. Post-graduates in Arts and Science:

58,000; 7,000. Teaching: 151,000; 38,000. Law: 64,000; 1,000. Health and Medicine: 64,000; 8,000. Engineering: 35,000; 1,000. Commerce: 31,000; 1,000. Agriculture and Veterinary: 12,000; 1,000.

Percentage of literacy among agricultural classes: 12.1 (males 19.6, females 4.5). Among non-agricultural classes: 29.0 (males 39.7, females 17.0). In commerce in latter group: 37.9 (males 51.6, females 22.6). In Transport: 32.7 (males 41.7, females 21.7).

Percentage of literacy for those above the age of ten: urban: men 55, women 27; rural: men 24, women 6.

LITERACY—BY STATE

The following tables on literacy are not based on the entire population but on a 10 per cent sample.

A literate person is one who can read and write a simple letter. A person who can only read but not write a simple letter is a partially literate person.

The sample count data relate to males and females separately. In the sample males are slightly over-represented. Hence figures for total persons cannot be arrived at by merely adding the figures for males and females.

The table below gives the sample figures by State:

States, Union Territories	Total		Literate		Illiterate	
	Males	Females	Males	Females	Males	Females
INDIA	18,003,778	16,916,101	4,238,842	1,290,833	13,764,936	15,625,468
Andhra Pradesh	1,579,407	1,547,632	310,598	99,351	1,268,809	1,448,281
Assam	467,086	408,664	121,119	31,565	345,967	377,099
Bihar	1,935,292	1,895,414	363,038	76,512	1,572,254	1,818,902
Bombay	2,464,105	2,321,235	772,829	250,683	1,691,276	2,070,552
Kerala	667,326	687,675	332,493	214,662	334,833	473,013
Madhya Pradesh	1,338,441	1,275,263	208,937	39,467	1,129,504	1,235,796
Madras	1,498,809	1,499,630	473,167	152,848	1,025,442	1,346,782
Mysore	988,390	949,237	286,745	87,995	701,645	861,242
Orissa	727,666	735,237	131,449	29,143	596,217	706,094
Punjab	702,687	604,656	134,986	43,566	567,701	561,090
Rajasthan	813,900	744,297	92,825	19,027	721,075	725,260
Uttar Pradesh	3,314,140	2,964,443	569,418	106,620	2,744,722	2,857,823
West Bengal	1,309,599	1,113,614	398,397	123,682	911,202	990,932
UNION TERRITORIES						
Andaman and Nicobar Islands	1,840	1,087	635	124	1,205	963
Delhi	72,444	52,410	25,424	12,272	47,020	40,138
Himachal Pradesh	57,827	53,639	4,318	1,096	53,509	52,543
Laccadive, Minicoy and Amindivi Islands	1,032	1,074	290	60	752	1,014
Manipur	29,382	29,193	5,489	686	22,893	28,507
Tripura	28,242	25,394	5,871	1,197	22,371	24,197

AGE AND LITERACY

The literacy figures by age for all India are on a sample basis.

Age	Total		Literate		Illiterate	
	Males	Females	Males	Females	Males	Females
0 — 4	2,383,484	2,343,385	.. .. .	.. .. .	2,383,484	2,343,385
5 — 9	2,258,277	2,168,491	290,078	131,001	1,978,199	2,037,490
10 — 24	2,227,317	2,006,190	687,137	244,306	1,540,180	1,761,884
15 — 24	3,077,357	2,987,920	1,042,144	394,912	2,035,213	2,593,008
25 — 34	2,797,103	2,648,008	876,304	224,440	1,920,799	2,423,568
35 — 44	2,210,927	1,941,595	613,416	126,018	1,597,511	1,815,577
45 — 54	1,577,348	1,381,822	406,859	69,776	1,170,489	1,312,046
55 — 64	909,437	857,441	212,368	35,272	697,069	822,169
65 — 74	387,890	395,143	66,799	14,693	321,091	380,450
75 and Over	163,462	174,495	32,430	5,799	131,032	168,697
Age not stated	11,176	11,611	1,307	417	9,869	11,194

LITERACY—RURAL

The following figures for rural India by State are on a sample basis.

States, Union Territories	Total		Literate		Illiterate	
	Males	Females	Males	Females	Males	Females
INDIA	14,873,774	14,243,659	2,928,361	693,803	12,045,413	13,549,856
Andhra Pradesh	1,304,672	1,278,865	201,455	53,034	1,103,217	1,225,831
Assam	445,306	394,108	109,858	26,034	335,448	368,074
Bihar	1,794,960	1,779,689	302,539	54,767	1,492,421	1,724,922
Bombay	1,743,694	1,714,784	407,587	94,721	1,336,107	1,620,063
Kerala	578,216	609,148	299,432	179,064	278,784	430,084
Madhya Pradesh	1,177,715	1,131,892	144,314	16,944	1,033,401	1,114,948
Madras	1,128,803	1,138,261	289,031	63,164	839,772	1,075,097
Mysore	758,343	734,351	179,104	39,736	579,239	694,615
Orissa	695,627	707,603	115,991	24,270	579,636	683,333
Punjab	591,363	518,935	90,919	24,290	500,444	494,645
Rajasthan	670,030	612,274	46,960	5,847	623,070	606,427
Uttar Pradesh	2,861,717	2,568,923	392,746	46,072	2,468,971	2,522,851
West Bengal	987,167	908,900	248,496	56,337	738,669	852,563
UNION TERRITORIES:						
Andaman and Nicobar Islands	1,301	834	342	61	959	773
Delhi	15,380	12,805	3,994	1,246	11,386	11,559
Himachal Pradesh	55,969	51,406	3,613	630	52,356	50,776
Laccadive, Minicoy and Amindivi Islands	1,032	1,074	290	60	742	1,014
Manipur	28,382	29,193	5,489	686	22,893	28,507
Tripura	28,242	24,325	5,443	802	21,822	23,523

LITERACY—URBAN

The following literacy figures for urban India are on a sample basis.

States/Union Territories	Total		Literate		Illiterate	
	Males	Females	Males	Females	Males	Females
1	2	3	4	5	6	7
INDIA	3,130,004	2,672,442	1,410,481	596,830	1,719,523	2,075,612
Andhra Pradesh	274,735	268,767	109,143	46,817	165,592	222,450
Assam	21,740	14,556	12,261	5,531	9,519	9,025
Bihar	140,332	115,725	60,499	17,745	79,833	97,980
Bombay	720,411	606,451	365,242	155,962	355,169	450,489
Kerala	89,110	88,527	52,061	35,594	37,049	52,933
Madhya Pradesh	160,726	143,281	64,623	22,523	96,103	120,758
Madras	369,806	361,369	184,136	89,684	185,670	271,685
Mysore	230,047	214,888	107,641	48,259	122,406	166,627
Orissa	32,039	27,634	15,458	4,873	16,581	22,761
Punjab	111,324	85,721	44,067	19,286	67,257	66,436
Rajasthan	143,870	132,013	45,865	13,180	98,005	118,833
Uttar Pradesh	452,423	365,520	176,672	60,548	275,751	304,972
West Bengal	322,432	204,714	149,899	65,345	172,533	139,369
UNION TERRITORIES						
Andaman and Nicobar Islands	539	253	293	63	246	190
Delhi	57,064	39,606	21,430	11,026	35,634	28,597
Himachal Pradesh	1,958	2,231	705	466	1,253	1,765
Laccadive, Minicoy and Amindivi Islands .. .. .	..	..	..	..	..	..
Manipur .. .. .	..	..	..	..	..	..
Tripura	1,257	1,069	408	395	849	674

PARTIALLY LITERATE PERSONS

The following figures are on a sample basis.

A partially literate person is one who can only read and not read and write.

States/Union Territories	Persons	Males	Females
1	2	3	4
INDIA	590,359	408,202	182,157
Andhra Pradesh	45,801	31,262	14,539
Assam	20,433	15,476	4,957
Bihar	103,679	66,523	37,156
Bombay	53,754	38,594	14,160
Kerala	16,900	8,834	8,155
Madhya Pradesh	30,899	23,608	7,291
Madras	53,041	37,470	15,571
Mysore	30,420	22,510	7,910
Orissa	68,211	49,879	18,332
Punjab	24,184	16,469	7,715
Rajasthan	4,898	3,531	1,367
Uttar Pradesh	64,692	48,418	16,274
West Bengal	63,954	38,440	25,494
UNION TERRITORIES			
Andaman and Nicobar Islands .. .. .	..	..	..
Delhi	5,968	4,656	1,330
Himachal Pradesh	420	308	112
Laccadive, Minicoy and Amindivi Islands	277	124	153
Manipur	1,731	1,285	446
Tripura	983	788	195

EDUCATIONAL STANDARD BY STATE

The following figures show the number of persons who have passed the various examinations in some States—that is, those States unaffected by the States reorganization of November 1956 is given below :

State.	Below Middle School Standard.	
	Males.	Females.
Uttar Pradesh	4,853,058	969,098
Orissa	1,756,863	316,763
Assam	1,072,871	392,716
Manipur	49,316	6,162
Tripura	55,195	19,698
Sikkim	8,790	764
Punjab*	1,009,536	425,464
Himachal Pradesh & Bilaspur	59,067	11,156
PEPSU*	282,540	74,817
Delhi	217,096	173,194
Andamans & Nicobars	4,064	1,428
India	28,125,096	12,093,762

* The figures for the present Punjab could be obtained by adding the figures for the old Punjab and PEPSU.

LITERACY AND EDUCATIONAL STANDARD BY STATE—Continued.

State.	Middle School.		Matriculate & Equivalent.		Intermediate in Arts or Science.		Degree or Diploma holders.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Uttar Pradesh	434,781	49,879	218,600	21,669	54,128	6,129	102,923	24,787
Orissa	162,601	14,007	33,297	2,082	7,756	514	18,168	1,361
Punjab*	222,335	56,469	123,620	19,292	26,013	4,300	109,189	42,441
Himachal Pradesh & Bilaspur	7,714	773	4,179	133	419	36	1,673	388
PEPSU*	39,342	4,076	19,723	2,481	4,706	419	8,929	1,780
Delhi	73,708	37,397	79,203	16,447	19,657	4,943	84,454	7,976
Andamans & Nicobars ..	27	1	301	23	40	8	81	7
India	4,220,135	1,022,388	1,861,798	292,060	407,098	59,379	993,304	183,064

* The figures for the new Punjab could be obtained by adding the figures for the old Punjab and PEPSU.

LANGUAGES

We give below some facts and figures relating to language :

Total number of speakers of languages specified in the constitution : 323,972,607 ; Number speaking Hindi, Urdu, Hindustani, Punjabi : 149,944,311 ; Telugu : 32,999,916 ; Marathi : 27,049,522 ; Tamil : 26,546,764 ; Bengali : 25,121,674 ; Gujarati : 16,310,771 ; Kannada : 14,471,764 ; Malayalam : 13,380,109 ; Oriya : 13,153,909 ; Assamese : 4,988,226 ; Kashmiri : 5,086 ; Sanskrit : 555.

The percentage to total is as follows :

Hindi, Urdu, Hindustani : 46·3 ; Telugu : 10·2 ; Marathi : 8·3 ; Tamil : 8·2 ; Bengali : 7·8 ; Gujarati : 5·1 ; Kannada : 4·5 ; Malayalam : 4·1 ; Oriya : 4·0 ; Assamese : 1·1.

Tribal languages (with speakers numbering one lakh and over for each language) : 11,531,848 ; Other Indian languages (with speakers numbering one lakh and over) : 17,698,041 ; Other Indian languages (with speakers numbering less than a lakh) : 2,860,974 ; Non-Indian languages : 226,251 ; Unclassified population : 589,673.

Number of Hindi speakers in North India : 50,454,217 ; East India : 34,036,450 ; South India : 149,287 ; West India : 492,906 ; Central India : 20,506,477.

Number of Urdu speakers in North India : 4,300,425 ; East India : 3,360,352 ; South India : 869,858 ; West India : 1,977,607 ; Central India : 2,904,632.

Number of Hindustani speakers in North India : 6,742,937 ; South India : 1,345,662 ; West India : 8,006 ; Central India : 59,939.

Number of Punjabi speakers in North India : 323,456 ; East India : 90,443 ; South India : 8,639 ; West India : 68,978 ; Central India : 78,364.

Hindi, Urdu, Hindustani, Punjabi in North-West India : 22,159,456.

Andaman and Nicobars : Hindi : 975 ; Urdu : 862 ; Hindustani : 4,139 ; Punjabi : 224.

U.P. : Hindi, Urdu, Hindustani : 99 per cent ; Punjabi : 324,000.

Bihar* : Hindi (as including Bihari, Urdu) : 34·8 millions ; Bengali : 17·6 lakhs ; Oriya : 3·1 lakhs. Santhal Parganas Dt. (Hindi 48 per cent, Santhali 42 per cent) ; Dhanbad Dt. (Hindi 65 per cent, Bengali 23 per cent) ; Singhbhum Dt. (Ho 29 per cent, Oriya 20, Bengali 14, Hindi 14, Santhali 10) ; Manbhum Dt., (Purulia Dt.) (Bengali 52 per cent, Hindi 32, Santhali 14) ; Purna Dt. (Hindi 92 per cent).

Oriasa : Oriya : 12,065,272 ; Tribal : 1,837,732 ; Ganjam Dt. (Oriya 72 per cent ; Telugu 15) ; Phulbani (Oriya 54 per cent ; Kni 37) ; Mayurbhanj (Oriya 53 per cent ; Santhali 24 ; Ho 11) ; Koraput Dt. (Oriya 55 per cent, Kondh 13, Paraja 12) ; Keonjhar Dt. (Oriya 71 per cent) ; Sundergarh (Oriya 72 per cent).

W. Bengal* : Bengali : 20,994,374 ; Hindi : 1,574,786 ; Midnapur Dt. (Bengali 90 per cent) ; Malda Dt. (Bengali 88 per cent) ; West Dinajpur Dt. (Bengali 78 per cent) ; Jalpaiguri Dt. (Bengali 57 per cent, Hindi 14 per cent) ; Darjeeling Dt. (Nepali 20 per cent, Rai 15, Bengali 14, Tamang 11).

Assam : Assamese : 4,972,493 ; Bengali : 1,447,075 ; Goalpara Dt. (Assamese 62 per cent, Bengali 17).

Tripura : Bengali : 273,441 ; Tripuri : 129,379.

Madras* : Hindi : 100,269 ; Bellary Dt. (Kannada 55 per cent ; Telugu 30) ; Coimbatore (Tamil 66 per cent ; Telugu 20) ; Kannada 11) ; Madras (Tamil 68 per cent ; Telugu 16) ; Nilgiris Dt. (Tamil 34 per cent ; Badaga 21 ; Malayalam

13 ; Kannada 13) ; South Kanara Dt. (Telugu 40 per cent ; Malayalam 24 ; Kannada 17 ; Konkani 14) ; Srikakulam Dt. (Telugu 89 per cent).

Travancore-Cochin*†† : Malayalam : 86 per cent ; Tamil : 12.

Trivandrum Dt. (Malayalam : 61 per cent ; Tamil : 39).

Bombay* : See under Bombay State.

M.P.* : Number of speakers per 1,000 of the population : Hindi 590, Marathi 293, Gond 59, Oriya 18, Nagpur Dt. (Marathi 75 per cent, Hindi 12), Betul Dt. (Hindi 43 per cent, Gond 27, Marathi 19), Nimar Dt. (Hindi 34 per cent, Nimadi 21, Marathi 15, Korku 11), Bastar Dt. (Halbi 29 per cent, Gond 27, Maria 12, Chhattisgarhi 10) ; Raipur Dt. (Hindi 57 per cent, Chhattisgarhi 26, Oriya 13), Bilaspur Dt. (Hindi 98 per cent).

Hyderabad*†† : Telugu : 8,921,524 (47·8 per cent, Marathi : 4,541,982 (24·3 per cent), Urdu : 2,159,214 (11·6 per cent), Kannada : 1,961,901 (10·5 per cent), Hindi : 133,733 (0·7 per cent) ; Nanded Dt. (Marathi 65 per cent, Urdu 11) ; Bidar Dt. (Marathi 39 per cent, Kannada 28, Urdu 16, Telugu 15) ; Hyderabad (Telugu 53 per cent, Urdu 35) ; Gulbarga Dt. (Kannada 55 per cent, Telugu 21, Urdu 16) ; Adilabad Dt. (Telugu 56 per cent, Marathi 21, Gond 10) ; Raichur Dt. (Kannada 63 per cent, Urdu 10, Telugu 24).

Myseore* : Kannada : 5,990,297 ; Telugu : 1,375,732 ; Tamil : 651,260. Bangalore Corporation (Kannada : 184,977 ; Telugu : 136,611 ; Tamil : 246,881) ; Bangalore (Kannada : 864,462 ; Telugu : 239,704 ; Tamil : 107,224) ; K. O. F. City (Kannada : 8,538 ; Telugu : 31,514 ; Tamil : 97,304) ; Kolar (Kannada : 230,066 ; Telugu : 579,460 ; Tamil : 54,157).

* Shows the position before the State was reorganized in Nov. 1956.

†† The State has ceased to exist as from 1st Nov. 1956.

AGE GROUPS

The following table shows the percentage of different age-groups to the total population :

	Age Group	Percentage to total population.
Infants and young Children	0 to 4	13·5
Boys and Girls	5 to 14	24·8
Young men and women	15 to 24	17·4
	25 to 34	15·6
Middle-aged men and women	35 to 44	11·9
	45 to 54	8·5
Elderly persons	55 to 64	5·1
	65 to 74	2·2
	75 and over	1·0

The following table shows age-groups for some States in a sample of 10,000 persons.

State	Infants	Young Children 1 to 4	Girls & Boys 5 to 14	Young men and women 15 to 34	Middle aged persons 35 to 54	Elderly persons 55 and over
India	329	1,026	2,482	3,298	2,038	828
Zones :—I—North India	332	1,013	2,505	3,218	2,090	840
II—East India	373	1,000	2,424	3,238	2,036	880
III—South India	263	986	2,445	3,364	2,096	847
IV—West India	325	1,055	2,573	3,410	1,925	712
V—Central India	300	1,041	2,534	3,285	2,066	773
VI—North-West India	408	1,156	2,481	3,207	1,896	851
Uttar Pradesh	332	1,013	2,505	3,218	2,090	840
Orissa	279	985	2,440	3,230	2,180	876
Assam	344	1,312	2,643	3,301	1,810	880
Manipur	275	1,196	2,557	3,187	1,900	877
Tripura	306	1,254	2,614	3,311	1,904	878
Sikkim	138	1,151	2,693	3,336	1,962	820
Himachal Pradesh & Bilaspur	364	1,011	2,054	3,280	2,112	1,171
Delhi	700	1,195	2,236	3,415	1,770	683

SEX RATIO

In India as a whole the total number of males is 183 millions, and of females 174 millions.

The sex ratio has varied as follows : 1921—956; 1931—951; 1941—946; 1951—947.

It may be mentioned here that in the world as a whole the sex ratio is probably 992.

The sex ratio in percentage of males to females is 51·4 per cent—practically no change from 1941.

In the country as a whole the sex ratio as mentioned above is female to male 947 to 1,000. The lowest is 883 in the north-west, the highest

is 999 in south India where practical equality of the sexes exists.

In general the sex ratio is smaller in towns than in villages. For the country as a whole the sex ratio in villages is 966, while that in towns is 860.

The sex ratio in villages is lowest in north-west India (895). In the villages of south India females outnumber males (1,004).

The urban sex ratio is lowest in east India (719). It is highest in south India (977).

The difference between the rural sex ratio and the urban sex ratio is very large in east India (258). It is smallest in south India (27).

In the country as a whole there are 235 lakhs of people living in cities. Of these 132 lakhs are males and 103 are females.

The sex ratio for all cities is 787. It is lowest for east India (641) and highest for the south (940).

The sex ratio for the ten largest cities (town groups) is as follows :

Greater Calcutta, 602; Greater Bombay, 596; Madras, 921; Delhi, 750; Hyderabad, 989; Ahmedabad, 764; Bangalore, 883; Kanpur, 699; Poona, 833; Lucknow, 783.

Males and females are not born in equal numbers. They do not die in equal numbers. Hence the difference in the numbers of males and females.

CIVIL CONDITION*

	Total			Unmarried		Married		Widowed or divorced	
	Persons	Males	Females	Males	Females	Males	Females	Males	Females
Total	349,583,524	179,433,840	170,149,684	88,147,296	65,950,673	82,253,066	82,387,997	9,033,453	21,811,014
Rural	291,620,960	148,245,841	143,375,119	72,400,899	54,823,396	68,173,714	70,185,963	7,671,428	18,365,760
Urban	57,962,564	31,187,999	26,774,565	15,746,397	11,127,277	14,079,372	12,202,034	1,362,030	3,445,254

* Excluding displaced persons.

Age Groups	Total		Unmarried		Married		Widowed or divorced	
	Males	Females	Males	Females	Males	Females	Males	Females
0	520,763	5,668,197	....	....	....	....	....	....
1—4	17,939,286	17,907,518	....	....	....	....	....	....
5—14	44,702,897	41,988,861	41,804,306	36,736,625	2,832,553	6,118,408	66,038	133,828
15—24	30,671,972	30,082,335	16,827,537	5,184,447	13,689,997	24,041,308	384,438	826,562
25—34	27,874,703	26,632,987	3,700,903	772,578	23,121,613	23,790,973	1,052,187	2,129,436
35—44	22,081,938	19,528,364	1,149,878	303,586	19,323,284	15,345,469	1,559,076	3,879,309
45—54	15,718,686	13,898,327	604,012	173,048	13,076,712	8,313,457	2,037,962	5,411,822
55—64	9,064,548	8,624,304	296,623	88,943	6,776,934	3,334,253	1,988,991	5,201,108
65—74	3,867,562	3,975,667	104,353	37,125	2,533,458	1,092,051	1,229,751	2,846,461
75 and over	1,629,982	1,756,145	46,438	18,468	882,924	370,440	706,620	1,367,237
Age not stated	111,503	116,979	51,497	60,138	45,611	41,640	14,395	15,301

The percentage of different age-groups in the villages and the towns is as follows :

	Total for country	Villages	Towns
Infants and young people	13·3	13·7	12·9
Boys and girls	24·3	25·1	23·2
Young men and women	34·3	32·8	36·5
Middle-aged men and women	19·7	20·4	20·1
Elderly persons	8·5	8·5	7·8

CIVIL CONDITION BY STATE

The following tables on civil condition are based not on the entire population but on a 10 per cent sample.

States/Union Territories	Total		Unmarried		Married		Widowed or divorced	
	Males	Females	Males	Females	Males	Females	Males	Females
1	2	3	4	5	6	7	8	9
INDIA	18,003,778	16,916,101	8,843,131	6,557,085	8,254,027	8,189,690	908,620	2,169,326
Andhra Pradesh	1,579,407	1,547,632	761,117	549,251	742,620	755,488	75,670	242,893
Assam	467,086	408,064	266,463	196,408	180,761	167,910	19,872	42,346
Bihar	1,935,292	1,895,414	817,176	676,612	1,024,510	1,030,966	93,606	167,836
Bombay	2,484,105	2,321,235	1,268,239	925,907	1,088,428	1,092,160	107,438	303,168
Kerala	667,326	687,675	402,023	331,122	247,875	270,440	17,424	86,113
Madhya Pradesh	1,338,441	1,275,263	601,714	468,274	669,269	651,352	67,458	160,637
Madras	1,498,609	1,496,630	815,129	635,375	618,639	645,212	64,841	216,043
Mysore	988,390	949,237	546,332	388,391	397,827	408,295	44,231	152,551
Orissa	727,666	735,237	342,567	233,767	356,533	354,968	28,566	96,502
Punjab	702,687	604,656	378,903	276,695	278,823	276,615	44,961	51,446
Rajasthan	813,900	744,287	383,124	279,985	384,399	382,757	46,377	81,545
Uttar Pradesh	3,314,140	2,964,443	1,535,264	1,065,268	1,545,620	1,544,125	233,256	355,080
West Bengal	1,309,599	1,113,614	623,758	404,491	633,458	532,631	52,383	176,492
Andaman and Nicobar Islands	1,840	1,067	1,038	557	728	428	74	102
Delhi	72,444	52,410	38,560	25,267	30,484	23,464	3,400	3,679
Himachal Pradesh	57,827	53,639	24,916	20,968	28,241	27,297	4,670	5,375
Laccadive, Minicoy and Amindivi Islands	1,032	1,074	551	441	431	511	50	122
Manipur	28,382	29,193	15,968	14,214	11,398	10,946	1,016	4,033
Tripura	28,242	25,394	16,390	10,787	10,839	11,639	1,013	2,968
Sikkim	7,363	6,317	3,699	3,305	3,154	2,587	310	425

CIVIL CONDITION BY AGE

The following figures are based not on the entire population but on a 10 per cent sample.

INDIA	TOTAL		UNMARRIED		MARRIED		WIDOWED OR DIVORCED	
	MALES	FEMALES	MALES	FEMALES	MALES	FEMALES	MALES	FEMALES
AGE	MALES	FEMALES	MALES	FEMALES	MALES	FEMALES	MALES	FEMALES
0	583,774	563,210	..	..	..	..	..	..
1-4	1,799,710	1,780,175	..	..	..	..	..	..
5-14	4,485,594	4,174,681	4,194,361	3,553,432	284,595	607,937	6,636	13,312
15-24	3,077,357	2,987,930	1,667,818	515,678	1,370,934	2,390,046	38,608	42,196
25-34	2,797,103	2,648,008	371,266	76,827	2,320,179	2,359,349	2,359,349	211,792
35-44	2,210,927	1,941,595	115,355	30,192	1,939,054	1,525,529	154,518	335,674
45-54	1,577,348	1,381,822	60,616	17,217	1,312,157	826,271	204,575	534,334
55-64	909,437	857,441	29,956	8,849	679,497	331,230	199,584	517,363
65-74	397,890	395,143	10,466	3,696	254,090	105,403	123,344	243,044
75 and over	163,462	174,495	4,655	1,836	144,551	36,755	70,256	135,904
Age not stated	11,176	11,611	5,164	5,973	4,570	4,130	1,442	1,506

MATERNITY PATTERN

The following table shows the age distribution of 1,000 married persons of each sex for some States :

State.	Males.				Females.			
	0-14	15-34	35-54	55 and over	0-14	15-34	35-54	55 and over
India	34	447	394	125	74	580	287	59
Zones :-								
I-North India	62	470	362	106	101	557	286	64
II-East India	43	447	378	132	83	554	294	79
III-South India	5	383	459	153	26	604	314	56
IV-West India	14	472	405	109	60	630	274	36
V-Central India	39	466	386	109	108	582	268	44
VI-North-West India	30	475	368	127	65	582	285	68
Uttar Pradesh	62	470	362	106	101	557	286	64
Orissa	28	424	412	134	57	562	317	74
Assam	7	421	451	121	30	673	259	36
Manipur	1	429	414	154	4	580	255	111
Tripura	8	460	318	119	64	667	245	33
Sikkim	2	476	387	134	40	477	260	123
Himachal Pradesh and Bilaspur	9	467	370	154	20	544	230	110
Delhi	17	466	366	118	23	623	269	66

Out of every 10,000 persons in India 5,133 are males and 4,867 are females.

Among them 2,521 males (49.1 per cent) and 1,896 females (38.8 per cent) are unmarried. Together the unmarried people are about 44.1 per cent of the population.

To put it the other way round, among men 45.8 per cent are married and 5.0 per cent are widowers, and among women 48.4 per cent are married and 12.8 per cent widows.

The number of divorced persons in India is 144,786 or 0.4 per cent.

The proportion of unmarried persons is highest in south India (48.2 per cent) and lowest in central India (41.1 per cent).

The 1951 census counted 2,888,000 married males and 8,118,000 married females, 66,000 widowers, 134,000 widows all between the ages of 5 and 14.

The approximate number of marriages contracted in contravention of the law would be 91,50,000.

But there is evidence that the child marriage rate is diminishing. The percentage of married females under 15 of all married females was 9.6. This dropped to 7.4 in 1951.

The percentage of unmarried women above 15 is 6.4.

Facts concerning marital status in villages and towns separately are as follows :

In the villages, out of 10,000 persons 2,388 are married males and 2,407 are married females.

In the towns the corresponding figures are 2,429 and 2,105.

There is a fall in the proportion of widowers and also of widows. The former fell from 5.6 per cent in 1931 to 5.0 per cent in 1951. The latter fell from 16.1 per cent in 1931 to 12.8 per cent in 1951.

For maternity only married women in the age-group 15 to 44 are to be taken into account.

We have to base our findings on investigations carried out in Travancore-Cochin State during the 1951 census.

On an average a mother in the former Travancore-Cochin area (mostly part of Kerala now) where this particular investigation was conducted—a mother who lives to complete her child-bearing period gives birth to more than 6 children but not more than 7.

Out of this the number actually alive on census day was 4.6. Among the children born alive 2 had died predeceasing their mother.

Thus in the Travancore-Cochin area the child birth index is 6.6, child survival index 4.6, child loss index 2.0.

Age group	Child birth index	Child survival index	Child loss index
Under 20 ..	1.2	1.0	0.2
20—24 ..	1.8	1.4	0.4
25—29 ..	2.9	2.3	0.6
30—34 ..	4.2	3.2	1.0
35—39 ..	5.3	4.0	1.3
40—44 ..	6.2	4.6	1.6
45 and over ..	6.6	4.6	2.0
Average ..	4.3	3.2	1.1

The child birth indices of mothers divided into groups were as follows :

Agricultural landholders' and tenants' families	4.5
Agricultural labourers' families	4.1
Non-agricultural families	4.2
Rural	4.3
Urban	4.2

Mothers can be divided into two groups : those who commenced child-bearing during the ages 15 to 19 (Maternity Type A), and those who commenced child-bearing during the ages 20 to 24 (Type B).

Their child birth indices are as follows :

	Type A	Type B
Under 20	1.2	—
20—24	2.0	1.3
25—29	3.6	2.3
30—34	4.8	3.7
35—39	6.0	4.9
40—44	6.8	5.8
Over 45	7.3	6.4

Investigations of a different sort have given the following results :

The total number of births which occur in the course of one year among about 1,000 persons is 40. Among these 40 births, 8 births are first births, 16 births are either first births or second births; 23 births are either first, second or third births; and 17 out of 40 are either fourth births or births of a higher order.

The following table shows the child-birth indices for different age-groups of mothers and child survival and loss indices by State (pre-reorganisation) from a sample census :

State (Pre-reorganisation)	Age Group of Mothers					Average for all ages	All ages	
	Incomplete Maternity experience				Complete maternity experience 45 and over		Survival index	Loss index
	Under 15	15-24	25-34	35-44				
Uttar Pradesh .. .. .	..	1.8	3.8	5.4	6.1	3.4	2.6	0.6
Bihar†	1.3*	1.9	3.5	5.2	5.8	3.2	2.5	0.7
Assam	1.0*	2.1	4.1	5.3	6.6	3.2	2.9	0.3
Manipur .. .. .	..	2.2	3.4	4.4	4.7*	3.0	2.9	0.1
Tripura	1.0*	2.1	4.6	6.1	..	3.3	2.9	0.4
Madras†	1.0*	2.0	3.8	5.7	6.0	3.3	2.8	0.5
Travancore-Cochin (1952)† ..	2.0*	1.8	4.1	6.3	10.5*	3.5	2.9	0.6
Travancore-Cochin (1951) 10 per cent sample† ..	1.4	1.7	3.5	5.7	6.6	4.3	3.2	1.1
Coorg† .. .. .	..	2.0	3.8	..	..	3.4	3.1	0.3
Bombay†	1.0*	2.0	4.1	6.2	7.7	3.6	2.9	0.7
Gauharat†	1.0*	2.0	4.2	6.4	7.0*	3.7	3.2	0.5
Kutch† .. .. .	..	2.1	4.1	6.0	8.3*	3.7	2.9	0.8
Madhya Pradesh (1952)† ..	1.0*	2.0	4.4	6.5	7.7	3.6	2.6	1.0
Madhya Pradesh (1951)† ..	1.2	1.9	3.8	5.6	6.3	4.2	2.6	1.6
Madhya Bharat (1952)† ..	1.3*	2.3	4.2	6.1	5.7	3.6	2.7	0.9
Madhya Bharat (1953)† ..	1.0	2.2	4.3	5.7	6.5	3.5	2.7	0.8
Vindhya Pradesh† .. .. .	..	..	..	..	..	3.0	2.4	0.6
Rajasthan†	1.0*	1.9	3.5	5.8	6.0*	3.2	2.8	0.6
Punjab† .. .. .	..	2.5	4.1	6.4	6.0*	3.7	2.9	0.8
P&P&U† .. .. .	..	2.4	4.9	6.1	8.5*	4.0	3.4	0.6
Bilaspur .. .. .	..	1.9	3.9*	6.5*	..	3.1	3.0	0.1
Himachal Pradesh .. .. .	..	1.7	4.7	6.7*	6.0*	3.1	2.6	0.5
Ajmer† .. .. .	..	1.6	4.9	5.5	..	3.8	2.9	0.9

* Number of mothers less than 10.

† The State has either ceased to exist or has been drastically reorganised as from 1st Nov. 1956.

Himachal Pradesh and Bilaspur were merged on 1st July, 1954.

VITAL STATISTICS

The following table shows the number of births and deaths registered in each of the three decades. The figures in the first two columns

are in lakhs. The figures in the last two columns give the mean decennial registered rates.

Year	Registered births	Registered deaths	Birth-rate	Death-rate
1921-30	669	502	33.7	25.8
1931-40	753	512	33.8	23.0
1941-50	680	486	27.2	19.4

Many births and deaths go unregistered. Making allowance for this it is calculated that the birth-rate should be around 40, and the death-rate around 27.

This would give a natural increase rate of 13 per thousand per annum during the last decade.

On the same basis the birth-rates for the various zones will be as follows:

Central India (44); west India (42); north-west India (41 or 42); north India (38 or 39); east India (38 or 39); south India (36 or 37).

The death-rates would be as follows:

Central India (34); north India (27 or 28); east India (26, 27 or 28); west India (26); north-west India (24, 25 or 26); south India (21 or 22).

The following table shows the birth, death, and infant mortality rates for the sub-continent from 1921 to 1946 and for India alone from 1947 onwards where available.

Year	Birth-rate	Death-rate	Infant mortality
1921	33	31	198
1922	33	24	175
1923	34	25	176
1924	33	28	189
1925	32	24	174
1926	33	25	189
1927	33	23	167
1928	34	24	173
1929	33	24	178
1930	33	25	189
1931	35	25	179
1932	34	22	169
1933	36	23	171
1934	34	25	187
1935	35	24	161
1936	36	23	162
1937	35	22	162
1938	34	24	167
1939	34	21	156
1940	33	22	160
1941	32.1	21.9	158
1942	29.5	21.4	163
1943	26.1	23.9	165
1944	25.8	24.5	169
1945	28.0	22.1	151
1946	28.9	18.7	136
1947	26.6	19.7	146
1948	25.4	17.1	130
1949	26.7	15.8	123
1950	24.8	16	127
1952	30	N.A.	N.A.
1953	24.8	14.4	118
1954*	25.4	12.9	118
1955†	27.0	11.7	100
1956**	27.4	11.4	108

N. A.—Not available.

* For the pre-reorganization Part A States and Coorg and Delhi.

† Excluding Bihar, M.P., Orissa.

The expectation of life for males is 32.45 and for females 31.66. In the decade 1931-40 the respective figures were 26.91 for males and 26.56 for females.

The percentage of Indian males surviving to the age 20 is now 58 as against 45 at the beginning of this century. The same idea may be expressed differently by saying that 50 per cent

of Indian males survive to age 32 as against 14 previously.

The figures given below show the expectation of life at various ages as revealed by the 1951 census for the decade 1941-50:

For males: Age 0—32.45; 5—40.86; 10—38.97; 15—36.24; 20—33.03; 25—29.78; 30—26.58; 35—23.50; 40—20.53; 45—17.63; 50—14.89; 55—12.39; 60—10.13; 65—8.18; 70—6.51; 75—5.13; 80—3.99; 85—3.06; 90—2.30; 95—1.52.

For females: Age 0—31.66; 5—40.91; 10—39.45; 15—36.66; 20—32.90; 25—29.30; 30—26.18; 35—23.52; 40—20.06; 45—18.61; 50—16.15; 55—13.69; 60—11.33; 65—9.29; 70—7.53; 75—6.03; 80—4.77; 85—3.69; 90—2.72; 95—1.59.

The figures for births and deaths are based on a sample census carried out in 20 States**. In 10 of the States** the scheme covered all the Districts, while in the remaining it covered about one-fifth of the Districts. The exceptions were Rajasthan** and PEPSU** where only one District was covered. In Uttar Pradesh the scheme covered only the rural areas. Elsewhere both urban and rural areas came under survey.

The size of the sample also differs from State to State.

The number of unregistered births per 100 registered births were also recorded to estimate the true birth-rate by correcting the registered birth-rate in some States. The published registration figures in most States suffered from serious errors and could not form the basis of any scientific estimation.

The birth-rates as calculated from the same surveys are in a majority of States between 30 and 40 but are less with two exceptions than those estimated by the Actuary of 1951 for the decade 1941-50. The trend of fall in the birth-rate may be real or it may be affected by under-enumeration of births.

The average maternal age for all orders is between 27 and 28 in a large majority of the States. The average maternal age is higher in Japan and England and lower in the U.S.A., where maternity starts almost as early as in India.

The average age for first order births is between 21 and 22; the average for second order is between 23 and 25.

The Indian child birth index may be placed at between 6 and 7. The size of the sample was very small in every case and is not altogether dependable.

Child survival and loss indices indicate a very high loss of human resources. For mothers of completed fertility the child loss varies in a majority of States between 20 per cent and 33 per cent.

The proportion of births is almost equally balanced for the age-groups 15-24, 25-34 in the larger States where it is higher for the age-group 15-24.

A better study would have been possible if we had had quinquennial age-groups as in U.P. instead of decennial age-groups.

The proportion of first order births is the highest in all the States in the age-group 15-24, about 80 per cent of the first births occurring during this period. The different order births also occur earlier in India than elsewhere. The family here grows earlier and faster.

In a majority of the States in India between 40 and 50 per cent of the births are of the first and second order. In the remaining States they are between 30 and 40 per cent. Taking the total of the births of the first three orders the percentage works out to between 60 and 70 in half the States and 50 and 60 in the remaining half. The proportion of the first three orders do not show much difference from one another. The decline starts after the third birth and even then it is not as steep as it is in U.S.A. or England. A considerable proportion of births in India is recorded under the fourth and higher orders.

The Census Commissioner has a theory about improvident maternity. All births after the third will lead to an unwanted increase in the size of the family in an under-developed country like India. The proportion of births of 4th and higher order is therefore the incidence of improvident Maternity. This incidence was 40 to 50 in half the States and 30 to 40 in the remaining States.

In India the first and second births occupy a relatively unimportant place in the later age-groups after 34. Births of higher order assume prominence with increase in maternal age.

About births, per 1,000 females (all women, married as well as others) in the same age-group a majority of the States show fertility for all ages between 100 and 125 or 125 and over. Had it not been for a certain amount of under-enumeration the figures of fertility would have been still higher.

Fertility was the highest in the age-group 25-34 in nearly all the States. In U.P. where quinquennial age-groups were used fertility is low in the age-group 15-19 but rises sharply in the next age-group 20-24 and further rises slightly in the age-group 25-29, then a decline starts. In the age-group 30-34 the decline is gradual and continues to be gradual upto 39 after which it is steep. In the age-groups 40-44 and 45-49 it is preponderately high in comparison with figures for England, U.S.A. or Japan showing the high proportion of births in these ages.

These trends are common to all the States in India.

Rural fertility was higher than urban fertility except in two States.

The total birth-rates for all orders is above 100 in a majority of the States in India. In Japan it is 76, in U.S.A. 80, in England 50.

The fertility of married women for ages 15 to 44 was for major States between 150 and 200 or 200 and over. This indicates the figure for India as about 200. Fertility fell abruptly in the group 35-44. It was at its peak in the age-group 25 to 29.

In a majority of the States the death-rate as calculated for the sample census was between 10 and 20. This was much below the rate calculated by the 1951 census actuary. It is possible there was an under-enumeration of deaths in the sample census.

The proportion of deaths at younger age was high. In 10 States the specific death-rate for age under one was well over 60; in 12 States for the age-group 1 to 4 over 25; in 12 States for the age-group 5 to 9 over 6.

About 50 per cent of the deaths occurred among children under 10 years. The rates for the other age-groups in a majority of the States were as follows:

Age-group 10 to 14 it is over 8; 15-19 over 8; 20-24 over 5; 25-29 over 6; 30-34 over 7; 35-39 over 8; 40-44 over 10; 45-49 over 13; 50-54 over 15; 55-59 over 20; 60-64 over 40; 65-69 over 45; 70-74 over 65.

The mortality rates were higher for females than for males in the reproductive ages 15-44.

The rate for infant mortality (number of deaths under one per 1,000 live births per year) was over 50 for a majority of the States. If it was not for under enumeration the rate would be higher still. The rate for the period 1941-50 as estimated by the 1951 census actuary was between 180 and 230 for males and 145 and 225 for females.

** Pre-reorganisation.

The following table shows birth-rates and death-rates and other particulars by State (pre-reorganization) :—

State (Pre-reorganization)	Birth-rate registered		No. of unregis- tered births per 100 registered as verified at the sample census	Birth-rate (regis- tered) corrected for omissions	Birth-rate (Census Actuary), 1941-50	Death-rate registered		No. of unregis- tered deaths per 100 registered as verified at the sample census	Death-rate (regis- tered) corrected for omissions	Death-rate (Census Actuary), 1941-50
	Year	Rate				Year	Rate			
Uttar Pradesh (rural) ..	1953	15.3	41.9	21.7	38.6	1953	10.1	40.5	14.2	27.2
Bihar*	1952	18.8	508.2	114.3	39.0	1952	10.0	614.2	71.4	26.6
Assam	1952	14.0	64.2	24.5	46.7 ¹	1952	7.2	52.9	11.0	31.8 ¹
Manipur .. .. .	..	..	..	..	46.7 ²	..	..	..	..	31.8 ²
Tripura .. .. .	..	..	..	..	..	..	..	..	..	N.A.
Madras*	1951-52	30.4	11.1	33.8	35.7 (34.0)	1951-52	15.9	15.7	18.4	22.8 (19.1)
Travancore-Cochin* ..	1952	24.2	342.7	107.1	37.4 (35.4)	1952	6.2	374.2	29.4	18.0 (13.7)
Coorg* .. .. .	..	..	18.2	..	38.7	..	..	..	..	19.6
Bombay*	1952	33.3	17.7	39.2	41.0 (38.9)	1952	16.8	16.4	19.6	24.9 (21.3)
Saurashtra* .. .. .	..	..	88.9	..	42.2 ³ (39.1)	..	..	101.4	..	24.9 ³ (18.5)
Kutch* .. .. .	..	..	55.5	..	42.2 ⁴ (39.1)	..	..	47.2	..	24.9 ⁴ (18.5)
Madhya Pradesh*	1952	33.5	10.3	37.0	46.1	1952	24.8	14.2	28.3	38.5
Madhya Bharat*	1952	10.4	225.9	33.9	44.2 ⁵	1952	6.5	194.0	19.1	35.8 ⁵
Madhya Bharat (1953)* ..	..	..	143.1	..	44.2 ⁵	..	..	153.0	..	35.8 ⁵
Vindhya Pradesh* .. ..	..	..	214.4	..	44.2 ⁵	..	..	232.0	..	35.8 ⁵
Rajasthan* .. .. .	..	..	272.6	..	42.5	..	..	222.0	..	27.2
Punjab*	1952	41.5	14.5	47.5	41.2 (36.6)	1952	17.3	24.4	21.5	26.3 (18.3)
PEPSU* .. .. .	..	..	64.6	..	41.5 ⁷	..	..	73.3	..	31.3 ⁷
Bilaspur	1952	34.9	..	34.9	41.5 ⁸	1952	17.4	..	17.4	31.3 ⁸
Himachal Pradesh	1952	19.3	28.5	24.4	41.5 ⁸	1952	9.8	31.3	12.9	31.3 ⁸
Ajmer*	1952	21.8	45.1	31.6	45.0	1952	17.3	33.3	23.1	38.0

* The State has either ceased to exist or has been drastically reorganized as from 1st Nov. 1956.

¹Including Manipur.

²Including Saurashtra.

³Including Himachal Pradesh and Bilaspur.

⁴Including Assam.

⁵Including Vindhya Pradesh and Bhopal.

⁶Including Himachal Pradesh and PEPSU.

⁷Including Kutch.

⁸Including Madhya Bharat and Bhopal.

⁹Including Bilaspur and PEPSU.

Note: The birth-rates, death-rates, infant mortality rates for other States are as follows for 1950: Orissa: 25.0, 21.0, 188.8; West Bengal: 21.9, 13.0, 109.5; Coorg: 15.7, 7.5, 59.6; Delhi: 8.1, 9.0, 84.0.

Himachal Pradesh and Bilaspur were merged on 1st July 1954.

The following two tables show the death-rate specifics and infant mortality for different age-groups by State (pre-reorganization) on a sample basis :—

State (Pre-reorganization)	All ages	Under year	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39
Uttar Pradesh	..	..	..	..	..	..	..	..	..	..
Bihar*	15.3	100.5	28.6	8.6	5.1	2.5	4.9	4.3	7.3	5.4
Assam	17.8	10.8	24.9	10.3	7.2	8.3	11.3	10.3	11.9	16.9
Manipur	20.4	19.5	36.5	13.9	13.4	6.8	10.1	8.2	18.2	11.9
Tripura	21.5	..	34.4	15.2	7.4	9.8	7.0	20.3	20.5	19.2
Madras*	11.6	39.0	22.1	6.9	2.6	4.0	4.9	5.1	7.1	6.6
Travancore-Cochin* ..	11.9	63.0	24.2	3.5	1.5	2.9	4.2	2.3	3.0	10.1
Coorg*	3.2	..	..	..	..	..	..	20.0	..	..
Bombay*	13.2	85.0	25.5	4.2	1.6	4.4	6.0	4.7	5.5	5.5
Saurashtra*	14.3	108.7	39.2	6.8	2.7	3.7	3.7	4.5	2.3	6.0
Kutch*	19.4	108.9	57.3	12.5	6.5	2.3	8.5	6.2	4.8	17.0
Madhya Pradesh*	21.9	111.3	46.9	1.9	4.0	8.0	10.9	8.6	9.6	10.6
Madhya Bharat (1952)* ..	18.8	91.0	47.8	11.8	3.1	6.0	7.4	9.1	8.5	8.3
Madhya Bharat (1953)* ..	15.5	62.8	48.9	9.8	3.7	4.2	4.6	6.0	5.8	5.3
Vindhya Pradesh*	18.1	60.8	28.7	14.6	6.5	6.7	7.2	8.9	10.0	12.6
Rajasthan*	22.3	45.9	60.2	11.7	3.6	9.3	11.4	7.2	12.9	15.4
Punjab*	13.0	96.5	28.8	7.4	..	2.5	2.7	4.6	..	6.9
PEPSU*	12.3	21.9	20.5	4.9	4.1	6.7	7.7	..	3.1	12.5
Bilaspur	9.7	..	18.0	..	..	..	11.6	12.7	..	..
Himachal Pradesh	11.0	30.8	21.3	7.9	..	12.7	5.3	12.0	7.2	6.9
Ajmer*	10.6	76.0	37.1	4.5	..	3.1	3.2	3.7	4.5	..

State (Pre-reorganization)	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 and over	Infant mortality
Uttar Pradesh .. .. .	..	..	..	..	..	..	..	..	..
Bihar*	6.4	11.6	15.9	17.8	43.3	78.4	65.5	152.6	108.6
Assam	11.0	26.2	38.4	47.7	77.7	98.1	136.1	232.0	11.6
Manipur	12.0	26.0	23.0	23.0	74.8	55.6	78.3	236.1	20.2
Tripura	34.2	26.5	21.9	50.8	60.6	55.6	180.9	212.8	..
Madras*	9.1	13.1	14.5	23.0	36.6	49.9	50.1	148.7	38.8
Travancore-Cochin*	10.3	11.2	9.8	11.0	23.7	50.0	77.3	135.1	59.2
Coorg* .. .. .	..	41.7	..	..	..	..	..	..	..
Bombay*	6.3	7.8	13.3	16.9	26.7	50.6	61.7	192.0	81.7
Saurashtra*	7.6	14.9	12.4	8.1	17.2	48.4	58.8	164.9	101.6
Kutch*	13.8	7.3	19.3	5.5	36.8	27.9	71.4	87.6	96.7
Madhya Pradesh*	13.4	13.0	27.9	27.2	59.4	58.4	94.9	182.3	100.1
Madhya Bharat (1952)*	9.8	14.0	23.7	34.6	36.8	71.8	74.8	150.8	80.2
Madhya Bharat (1953)*	11.5	13.7	16.5	28.5	42.5	29.4	50.4	120.1	59.4
Vindhya Pradesh*	17.6	23.8	23.3	22.1	40.1	18.6	59.4	64.6	57.6
Rajasthan*	21.0	25.7	23.8	63.0	80.4	14.9	125.0	233.3	44.4
Punjab*	7.2	6.4	12.9	23.5	35.1	11.1	55.6	80.0	96.5
PEPSU*	5.3	29.4	19.1	13.0	54.3	60.6	21.3	156.3	21.9
Bilaspur .. .. .	..	..	25.6	..	32.3	..	200.0	76.9	..
Himachal Pradesh	19.6	..	12.0	20.8	..	..	..	100.0	30.8
Ajmer*	4.5	8.4	..	35.7	..	37.0	34.5	125.0	70.6

* The State has either ceased to exist or has been drastically reorganized as from 1st Nov. 1956.

Himachal Pradesh and Bilaspur were merged on 1st July 1954.

STATES—RELIGION, LIVELIHOOD

In the following four tables we give some items for the re-organized States that are available.

States	Hindus	Muslims	Christians	Sikhs	Agricultural	Non-agricultural
Andhra Pradesh .. .. .	..	..	..	..	15,496,254	10,806,132
Bihar .. .. .	..	..	..	..	33,310,521	5,473,287
Bombay .. .. .	..	..	..	..	29,875,502	18,359,719
Kerala	8,660,596	2,202,774	2,935,345	308	7,269,087	6,290,031
Madhya Pradesh .. .. .	..	..	..	..	20,328,260	5,743,377
Madras .. .. .	..	..	..	..	18,810,667	11,164,269
Mysore	16,894,829	1,944,858	416,001	145,505	13,820,661	5,580,532
Punjab†	9,440,779	244,993	98,858	5,553,914	10,603,241	5,396,513
Rajasthan .. .. .	..	..	..	..	11,130,257	4,840,517
West Bengal	20,570,677	4,978,728	181,491	30,620	15,496,254	10,806,132

† Excludes burnt slips.

STATES—ECONOMIC STATUS

States	Percentage of agricultural population	Percentage of non-agricultural population	Livelihood pattern of Agricultural classes : Group of 10,000			Livelihood pattern of Non-agricultural classes : Groups of 10,000			Non-agricultural self-supporting Group of 10,000		
			Self-supporting	Non-earning dependents	Earning dependents	Self-supporting	Non-earning dependents	Earning dependents	Employers	Employees	Independent workers
Andhra Pradesh	67.31	32.69	2,619	6,142	1,239	2,764	6,379	857	392	3,598	6,010
Bihar	85.89	14.11	..	..	..	..	..	..	..	..	..
Bombay	61.90	38.10	..	..	..	..	..	..	..	..	..
Kerala	53.65	46.35	2,618	6,782	600	2,941	6,500	559	272	5,818	3,679
Madhya Pradesh	77.97	22.03	..	..	..	..	..	..	..	..	..
Madras	62.75	37.25	..	..	..	..	..	..	..	..	..
Mysore	71.24	28.76	2,555	6,455	990	2,848	6,523	629	..	..	..
Punjab	63.30	36.70	2,756	5,452	1,392	2,714	6,504	782	85	3,367	6,548
Rajasthan	69.69	30.31	4,379,798†	1,769,465†	4,980,997†	1,531,519†	364,022†	2,944,976†	31,452	443,660	1,006,671
West Bengal	58.92	41.08	..	..	..	..	..	..	..	..	..

† Absolute figures.

STATES—ECONOMIC STATUS, EDUCATION

States	Industries and services, self-supporting persons (in a sample group of 10,000)										Educational Standards*				
	Processing and Manufacture										Below middle school	Middle school	Matriculate and equivalent	Intermediate	Degree or diploma holders
	Primary Industries	Mining and quarrying	Food-stuffs, textiles, leather, etc.	Metals and Chemicals	Others	Construction and Utilities	Commerce	Transport. Communications	Health, Education and Public Administration	Other services					
Andhra Pradesh	657	101	1,908	264	814	629	1,649	475	1,069	2,250	..	..	..	..	..
Bihar ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bombay ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kerala ..	1,266	101	1,901	286	1,017	391	1,404	684	721	2,229	5,192,389	139,183	127,733	14,661	57,759
Madhya Pradesh	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Madras ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mysore ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Punjab ..	198	13	1,163	240	688	438	2,458	675	1,765	2,362	1,272,096	261,677	143,843	30,719	118,118
Rajasthan ..	..	..	..	..	..	..	..	..	..	..	500,301	60,845	21,723	4,743	44,231
West Bengal	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

* absolute figures.

STATES—AGE, CIVIL CONDITION, VITAL STATISTICS

States	Age-groups in a sample of 10,000 persons					Age distribution from a sample of 1,000 married persons.					Regi- stered death-rate for 1955 in 1,000	Regi- stered birth-rate for 1955 in 1,000	Infant mortality rate for 1955 in 1,000				
	Infants	1 to 4	5 to 14	15 to 24	35 to 54	Males, age			Females, age								
						55 and over	0-14		15-34					35-54		55 and over	
							0-14	15-34	35-54	0-14				15-34	35-54		
Andhra Pradesh ..	272	950	2,462	3,286	2,142	885	9	212	206	69	43	297	139	25	30.0	14.8	123
Bihar ..	487	980	2,397	3,041	2,040	1,036	37	220	171	70	50	248	160	53	17.9 ^a	9.9 ^a	78 ^a
Bombay ..	315	1,082	2,561	3,367	1,945	736	9	235	200	56	34	309	137	20	37.2	15.2	100
Kerala ..	279	1,141	2,426	3,469	1,870	814	..	173	222	84	3	310	174	34	22.2	6.2	40
Madhya Pradesh	329	1,017	2,481	3,241	2,089	731	27	244	189	47	45	283	140	25	29.2 ^a	17.5 ^a	150 ^a
Madras ..	244	987	2,407	3,361	2,173	845	..	181	232	75	6	305	172	28	31.2	14.1	103
Mysore ..	279	1,050	2,599	3,314	1,999	764	4	194	226	66	30	329	135	15	22.0	8.4	72
Punjab ..	435	1,586	2,466	3,123	1,903	893	8	238	185	71	20	291	147	39	43.2	13.7	106
Rajasthan ..	265	1,067	2,538	3,251	1,965	807	21	238	184	58	44	290	137	28	6.0	3.0	N.A.
West Bengal	284	912	2,365	3,692	2,022	746	7	259	215	62	38	289	110	20	25.6	8.9	89

* figures are for 1954.

INDIANS OVERSEAS

THE number of Indian nationals overseas which includes Pakistani nationals (unless otherwise stated) is given below

Name of country	Indian population	Year of estimate	Name of country	Indian population	Year of estimate
Commonwealth.			Foreign		
Aden	15,817	1955	Aden Protectorate	100	1956
Australia	887	1954*	Afghanistan	236	1954
Barbados	140	1955	Argentina	250(approx.)	1958
British Guiana	2,10,000	1954	Austria	41	1955 (Mar.)
British Honduras	2,000	1946	Bahrain	3,000	1954
British North Borneo	2,000	1954	Belgian Congo	1,227	1950
British Somaliland	250	1946	Belgium	72	1955
Brunei	436	1947	Brazil	60	1955
Canada	7,964	1957	Bulgaria	3	1953
Ceylon (a)	9,00,000(approx.)	1957	Burma	Est. to be 6-7 lakhs	1957
Dominica	5	1950	Cambodia	200	1954
Fiji Islands	1,69,409	1956	Chile	5	(end 1957)
Gibraltar	41	1946	China	210	1958
Gold Coast (b)	329	1954	Cuba	23 (Approx.)	1955 (May)
Grenada	4,000	1954	Czechoslovakia	4	1955
Hongkong	3,000	1957	Denmark	22	1955
Jamaica	26,000	1954	Dutch Guiana	70,000	1955
Kenya	1,27,000	1954	Egypt	100	1956
Leeward Islands	99	1946	Ethiopia (including Eritrea)	2,000	1957
Malaya	7,40,436	1956(Inc. Pak.)	Finland	1	1955
Malta	37	1948	France	265	1957
Mauritius	3,75,918	1955	Germany (West and East)	35	1953
New Zealand	1,200	1952	West Germany	1,300 (Students and trainees)	1950
Nigeria	304	1954	Indo-China	2,300	1952
Nyasaland	6,000(approx.)	1951	Indonesian Republic	46,000	1957
Rhodesia (Northern)	3,500(approx.)	1951	Iran	917	1954
Rhodesia (Southern)	4,700(approx.)	1954	Iraq	850	1954
Sarawak	2,201	1954	Italian Somaliland	1,000	1947
Seychelles	285	1947	Italy	113	1955 (Mar.)
Sierra Leone	76	1948	Japan	501	1954
Singapore	92,895(Inc. Pak.)	1954	Kuwait	2,500	1954
South Africa	4,31,000 (estimates)(c)	1955	Lebanon	59	1955
St. Kitts	97	1950	Libya	27	1954
St. Lucia	3,000	1954	Luxemburg	Nil.	1952
St. Vincent	2,000	1954	Madagascar	14,000	1956(approx.)
Tanganyika	65,365	1957	Mexico	12 (approx.)	1958
Trinidad and Tobago	2,67,000	1957	Moscat	1,145	1947
Uganda	50,000	1954	Nepal	10,441	1941
United Kingdom	1,70,000(approx.)	1954	Netherlands	3	1957
Zanzibar and Pemba	15,812	1948	Palestine	56	1947
			Panama	Between 500 and 800	1956
			Philippines	1,295	1954
			Portugal	1	1952
			Portuguese East Africa	5,000	1948
			Qatar (Persian Gulf)	800	1954
			Reunion Islands	2,500	1955(approx.)
			Rwanda Urundi	1,963	1950
			Saudi Arabia	5,000	1956
			Sharjah Dubai (Persian Gulf)	280	1954
			Sudan	2,500	1957
			Sweden	79	1955
			Switzerland	24	1957
			Syria	13	1954
			Thailand	9,501	1955*
			United States of America	5,063	1958
			U.S.S.R.	15	1953
			Yemen	50	1956
			Yugoslavia	N.A.	---

(a) The present position in this respect has been described as uncertain. The figure 9 lakhs relates only to the plantation population who should be entitled to Ceylonese citizenship. The number of Indians who have left Ceylon upto August 1957 is 14,271. These Indian nationals had gone to Ceylon for professional or business reasons. Number of Indians and Pakistanis registered as citizens upto March 15, 1953 in the Indian Mission was 18,500.

(b) Renamed Ghana.

(c) Persons of Indian origin.

* Indian nationals only.

MIGRATION TABLES

The following table shows the emigration and immigration figures for 1953 and 1954 :

Country	Emigration		Immigration	
	1953	1954	1953	1954
Africa	24,604	25,692	22,230	22,844
Burma	8,361	8,960	10,990	13,392
Ceylon	90,297	47,066	1,17,008	58,294
Malaya	46,042	28,465	26,514	35,506
Others	24,186	23,394	31,193	34,124
Total	1,93,480	1,33,577	2,07,943	1,64,180

The distribution of some language groups in the countries of migration would be as follows:

Tamils
Malay-Singapore : 4,80,945; Mauritius : 10,500; Fiji Islands : 10,000.

Hindustani group
Mauritius : 2,40,000; Fiji Islands : 1,24,000; Malay-Singapore : 1,360.

Gujarati
Kenya : 69,000; Tanganyika : 61,000; Uganda : 44,000; Mauritius : 21,000; Zanzibar and Pemba : 15,000; Fiji Islands : 8,000; Nyasaland : 6,000; South Rhodesia : 4,500; North Rhodesia : 3,600; Ruanda Urundi : 2,000; Indonesia : 2,000; Malay-Singapore : 1,300; Belgian Congo : 1,200.

Punjabi
Kenya : 50,000; Malay-Singapore : 30,600; Tanganyika : 5,000; Indonesia : 4,000; Fiji Islands : 3,000; Uganda : 3,000.

Telugu

Malay-Singapore : 24,100 ; Indonesia : 20,000 ; Mauritius : 3,600.

Malayalam

Malay-Singapore : 44,400.

Sindhi

Indonesia : 12,000 ; Hong Kong : 1,600.

Marathi

Uganda : 2,600 ; Tanganyika : 1,600 ; Zanzibar and Pemba : 1,000.

Bengali

Malay-Singapore : 3,900.

EMIGRATION LAWS

Emigration out of India is governed by the Indian Emigration Act (VII of 1922) and the Rules made thereunder, as amended from time to time.

"Emigration" means departure by sea out of India of a person under an agreement or with the intention to work for hire. Emigration is not lawful except from Ports which have been notified as "Emigration" Ports. Emigration for unskilled work is not lawful to any country at present, and the very departure for engaging in unskilled work to Ceylon, Burma, Malaya and Singapore is prohibited, unless exemption is granted by general or special orders of the Central Government.

Emigration for skilled work is permissible on compliance with prescribed formalities.

The functions under the Act are performed by the Central Government through the Controller-General of Emigration and Joint Secretary to the Government of India in the Ministry of External Affairs, New Delhi, with the assistance of the Protectors of Emigrants at the Emigration Ports and the Controller of Emigration, Madras, who supervises the activities of the Protectors of Emigrants in the Madras State.

Following Ports are at present Emigration Ports under the Act. Each Port has a Protector of Emigrants.

1. Bombay (Protector of Emigrants : Army and Navy Building, 148 Mahatma Gandhi Road, Bombay 1)
2. Okha (Port Officer).
3. Porbander (Port Officer).
4. Beldi (Port Officer).
5. Madras (Protector of Emigrants : 41, Mukkur Nallamuthu Chetty Street, George Town, Madras).
6. Nagapattinam (Protector of Emigrants).
7. Dhanushkodi (Protector of Emigrants : Mandapam Camp).
8. Tuticorin (Protector of Emigrants).
9. Calcutta (Protector of Emigrants : 4, Brabourne Road, Calcutta).

QUOTA BASIS

The following countries admit Indians on quota basis : Canada, U.S.A., Philippines, Thailand and Indonesia.

Canada. The Government of India and the Government of Canada have entered into a modified Agreement regarding the immigration of Indians into Canada in partial modification of the Agreement of 1951 under which the Government of Canada had agreed to admit annually 150 Indian citizens into Canada. The modified Agreement came into effect on the 1st of January, 1957.

Under the modified Agreement, the Canadian Government have agreed to increase the annual quota of immigrants from India from 150 to 300. Of these 300 immigrants, 150 will be "ordinary quota" immigrants and 150 will be "preference quota" immigrants. Relatives of Indians who have permanently settled in Canada or who have acquired Canadian citizenship will be admissible into Canada as "preference quota" immigrants while other applicants will be admissible under the "ordinary quota". It may be noted that "close relatives" of all those who have become Canadian citizens will be admitted into Canada as non-quota immigrants.

A "relative" means the husband, wife, son, daughter, brother, sister (or the husband, wife or unmarried child under twenty-one years of

age of any such son, daughter, brother or sister), father, mother, grandparent, unmarried orphan nephew or niece under twenty-one years of age, fiancé or fiancée.

A "close relative" means the husband, wife, unmarried child under twenty-one years of age, father over sixty-five years of age, or mother over sixty years of age.

Any person admitted to Canada as an immigrant might become a citizen of Canada after five years' continuous residence there. There is no legislation in Canada, federal or provincial, which discriminates against any group of citizens on grounds of national origin, race, language or religion.

Applications from prospective immigrants to Canada from India should be addressed to The Canadian Immigration Office, Faridkot House, Lytton Road, New Delhi.

U.S.A. The United States of America has fixed an annual quota of 100 for India of which 25 per cent is reserved for Indians born or residing outside India. The selection of immigrants is made by the U.S. Government. The main considerations on which selection is made are : (a) the immigrant must be a genuine East Indian, (b) must be free from contagious diseases or moral turpitude, (c) must not subscribe to anarchist or subversive theories, (d) must not be a practicing polygamist, (e) must be literate in some foreign language, and (f) must be in possession of sufficient funds to avoid likelihood of becoming public liability. For this purpose the applicant must (i) have sufficient resources in U.S. dollars (or the Indian Government's sanction for conversion of sufficient resources to dollars) to maintain himself and his family in the U.S. during the period of all-nage (5 years) or (ii) acquire a sponsor in the U.S. who will provide funds for such maintenance.

There are no laws by which people of Indian origin are subjected to any colour prejudices.

Philippines. With effect from September 1953, 50 Indian nationals are admitted per annum for permanent settlement under the Philippines Immigration Act. Selection is made by the Philippines Government through their Embassy in India.

Thailand. The quota fixed by Thailand is 200 per annum. The selection is made by the Thai Government.

Indonesia. Indonesia fixed a quota of 1,000 immigrants in 1952 to a group of four countries, viz., India, Pakistan, Ceylon and Burma. It is, however, entirely at the discretion of the Indonesian Government to permit Indians to settle in Indonesia.

FREER MIGRATION

In some of the countries, though Indians are not admitted for the specific purpose of settlement, they may be permitted to enter and reside on completion of formalities and conditions prescribed under the respective immigration and other laws of those countries. Mauritius, British East African territories of Kenya, Uganda, Tanganyika, Zanzibar, Belgian Congo, Ruanda-Urundi, Nigeria, Ethiopia, Aden, Bahrain, Iraq, Muscat, Kuwait, Saudi Arabia, Seychelles, Malaya, Indo-China, Fiji, Japan, the United Kingdom, British West Indies, British Guiana, and British North Borneo are among such countries.

The main requirements of some of the countries are indicated below :

Mauritius. An intending immigrant should be able to deposit Rs. 1,000 on entry into the Colony.

British East Africa. A person intending to engage on his own account in trade, business, agriculture, mining, and manufacture in these territories must have at his disposition prescribed capital and must obtain a certificate from the prescribed authority in the territory concerned permitting him or her to engage in a particular profession, trade or calling in that territory. Professionals like doctors, dentists, lawyers, are not required to have any prescribed capital, but

should possess sufficient capital or assured income to enable them to give effect to their intention.

The Government of Kenya have announced that their future immigration policy will be largely based on economic considerations and that Great Britain will be the primary source of immigrants of the kind the Colony needs. The scope of Indian immigration into Kenya has been further curtailed.

Fiji. Generally, permits to enter and to settle are granted to the following categories of persons :

(i) Farmers and planters if they have already acquired property in the Colony not less than 100 acres, three quarters of which must be productive land.

(ii) Professional men and women with recognised qualification intending to practise their professions.

(iii) Ministers of religion and teachers.

Malaya. Under the New Immigration Ordinance which came into force on August 1, 1953, entry permits for permanent residence will not normally be granted to fresh immigrants wishing to enter Malaya for employment or for pursuing a profession unless the applicant is a skilled artisan or his entry is considered to be in the economic interest of Malaya or Singapore, or he holds a contract of employment with a well-established business concern on terms and conditions of service of a prescribed standard, or unless he holds special qualifications to be able to pursue his profession without prejudice to the interests of persons already resident in Malaya.

British West Indies. Indians are admitted in exceptional cases, where they possess special skills that are in short supply there or who may bring capital for investment.

Belgian Congo. Entry Permits may be granted to those who can deposit a certain sum and satisfy the authorities regarding good conduct, etc.

Ethiopia. There is no particular restrictions for immigration into Ethiopia, but the Ethiopian Government's permission is required in every case.

United Kingdom. Indians are free to settle in the United Kingdom.

Switzerland. Indian nationals can go to and reside in Switzerland, subject to the laws and rules in force in that country.

ENTRY BANNED

Fresh Indian immigration is either banned or is not permitted as a matter of policy into the following countries :—South Africa, Southern Rhodesia, Northern Rhodesia, Nyasaland, Australia, New Zealand, Burma, Ceylon, most of the European and South American countries.

South Africa. Immigration of Indians into the Union of South Africa is banned.

British Central Africa. The three territories of Southern Rhodesia, Northern Rhodesia and Nyasaland were brought into a federation known as the Federation of Rhodesia and Nyasaland. Immigration is a federal subject, and it is the declared policy of the Federal Government not to admit fresh Indian immigrants excepting teachers, ministers of religion and wives and minor children of persons already settled there.

New Zealand. There is a ban on the entry of fresh Indians, but as a special case the New Zealand Government permits the entry of the children of permanent residents into New Zealand for permanent residence provided they fulfil certain conditions.

Australia. Asians, including Indians, are not allowed to immigrate into Australia for permanent settlement. However, Indians who are bona fide merchants and are in a position to engage in wholesale import-export business may be admitted and allowed to remain there so long as they continue in the trade, but without any citizenship or other rights. Indians already settled there can, however, take their wives and minor children and also shop assistants from India subject to certain conditions.

BURMA

Burma was a province of India till 1937 April when it was given a separate constitution. In 1931 the Indian population was reported to be over one million. Consequent upon the Japanese occupation of Burma in 1942, about 4 lakhs of Indians left Burma for India. After the liberation of Burma many did not return to that country in view of the changed conditions in Burma and the difficulty of obtaining employment there. The present population of Indians in Burma is estimated to be about 7 lakhs.

Indians are mainly agricultural, dock and casual labourers and small-scale business men. Some Indians are engaged in wholesale importing business.

With the introduction of the Burmanisation policy, no foreigner is now allowed to buy any property, nor can any property be transferred to any foreigner. Non-nationals in Government service are being replaced by nationals.

A large number of Indian land-owners in Burma have been adversely affected by the 'Land Nationalization' Scheme.

Under the Union of Burma Citizenship Act, 1948, an alien can become a Burma citizen by naturalisation, if he had resided continuously in the Union for not less than five years before the application and also fulfils other prescribed conditions.

As foreigners in the country, Indians as such have no franchise. Those Indians who have become Burmese citizens are entitled to all privileges including franchise that other Burmese are entitled to.

Rupees thirty a month can be remitted to dependents in India by Money Order. (Source of information: Burmese Embassy). All applications for remittances of moneys should be passed by the Burmese Exchange Control Authorities who allow remittances for maintenance of families and other specific purposes on the strength of certificates from the District Magistrate concerned in India that the payees are solely dependent on the remittances. On leaving Burma for good, assets can be transferred to India if approved by the Exchange Control Authorities in Burma.

MALAYA

The Federation of Malaya is an independent Dominion and the term Malaya now generally denotes that country alone. The other administrative area in the Malaya peninsula is Singapore, a crown colony.

Of the total Indian population of over 7 lakhs in Malaya about 70 per cent are labourers in rubber and tin estates, and the rest are either clerks or employed in business, trade and other professions like law and medicine.

Indians do not suffer from any special disabilities.

Indians are eligible for citizenship of the Federation of Malaya, if they fulfil the prescribed conditions. Many of the Indians in Malaya are qualified or entitled to become Malayan citizens.

Elections in Malaya were held in 1955. The Legislative Council is composed of 98 members of whom 52 are elected and the remaining either nominated or ex-officio. The Legislative Council has seven Indian members. There are 16 Ministers in the Federal Executive Council of whom one is Indian.

In Singapore there is no citizenship law and the British Nationality Act applies.

Under a new law as from Oct. 1957 Commonwealth citizens who have not acquired U.K. citizenship can acquire Singapore citizenship, provided reciprocal arrangements have been entered into with respective countries.

The Colony of Singapore is under a Governor; strength of Council of Ministers 12 (two of these are Indian). The strength of the Legislative Assembly is 32 (four of these are Indian).

About 27,000 Indians who took Singapore citizenship were reported to be State-less because the U.K. had not amended the British Nationality Act to include Singapore.

There are no restrictions on Indians in the matter of remittances to India.

CANADA

Indian residents of Canada are largely comprised of labourers employed in lumbering and trucking. There are a few lumber mill owners, and some are working as clerks in various establishments. The majority of Indians are in British Columbia. The Indian community is called the "East Indian Community".

There are no disabilities on Indians in the matter of owning property, engaging in trade or profession, entering Government service or residence in any locality. The period for qualification for citizenship is 5 years. In 1952, one Indian was elected to a Municipal Council.

Indians can remit to India any amount earned in Canada.

BRITISH GUIANA, WEST INDIES

Indians form the bulk of sugar plantation labour in British Guiana and Trinidad. A good number of them work also on cocoa plantations. They are the backbone of the countries' agriculture, and grow rice and vegetables. There are also a number of prominent Indian merchants, doctors and teachers.

In British Guiana, Indians constitute the largest single racial group. (46 per cent of the total population.) In Trinidad Indians are about 56 per cent of the total population.

Very few Indians have been employed in Government service. A vast majority of Indians are illiterate. In Jamaica, a large number of dairies are owned by Indians.

There is no discrimination against Indians in British Guiana or Trinidad, and they enjoy the same citizenship rights as other nationals of these territories.

Indians have been elected to the Executive and Legislative Councils of British Guiana. The Constitution of British Guiana was suspended in 1953 and all the members of the Legislative Council were nominated.

In Trinidad the first general election under the revised constitution was held on Sept. 24, 1956 in which the Peoples' National Movement won 13 of 24 Legislative Council seats. Of the 24 seats nine were held by Indians. The Executive Council consisted of 10 members, two of whom were Indian.

Another election was held in March 1958. Only 26 per cent of the people are reported to have exercised their franchise rights. 25 members of the Federal Labour Party and 19 of the Democratic Labour Party were elected to the House of Representatives—the Federal Parliament. The elected representatives from the Democratic Labour Party include three Indians.

In Jamaica where Indians form only 1.7 per cent of the total population there is one Indian member in the Lower House comprising 32 elected members.

Money can be freely sent to India from the British West Indies.

MAURITIUS

Indians in Mauritius form about 67 per cent of the total population of the Colony. The Indian population is mainly composed of descendants of "indentured" labourers from Madras, U.P. and Bihar, but there is a sprinkling of traders from Bombay. Indians have settled there for generations and are now termed "Indo-Mauritians". A large proportion of them are farm-labourers on sugar plantations. The rest are engaged in commerce and trade or are doctors, lawyers, government servants.

Indians are mostly illiterate, and on the whole their economic and social conditions are not as satisfactory as in some other Colonies.

There is no colour bar against Indians, nor do they suffer from any political disability.

The Legislative Council of the Colony as at present constituted consists of 35 members including the Governor as President, three ex-officio, 12 nominated and 19 elected members. Of these 35 members 14 are Indian.

Fresh proposals for constitutional advance were made in 1956. Some of these were implemented later in the year. The strength of the Executive Council was raised from 9 to 12 of whom seven will be non-official members. The Executive Council will exercise collective responsibility. All members will be designated Ministers and six non-official members will be assigned portfolios.

The rest of the proposals are to be implemented in 1959, when fresh elections will be held and the number of elected members of the Legislative Council increased from 19 to 40.

Besides the 40 elected members, there will be three official members and not more than 12 members nominated by the Governor. The new Executive Council will have 12 members, three of whom will be officials. The remaining nine members will be appointed by the Governor from the legislature. All the members of the Executive Council including the officials, will be designated Ministers.

There are no restrictions on remittances to India.

EAST AFRICA

British East Africa consists of the four territories of Kenya, Uganda, Tanganyika and Zanzibar.

The majority of the Indians in these territories are engaged in commercial undertakings. Artisans, technicians, Government servants, doctors, lawyers, make up most of the balance.

Indians in East Africa—numbering about 2 lakhs—are mostly concentrated in urban centres. In Kenya and Tanganyika they constitute about 59 per cent of the total non-native population of each territory; in Uganda they form the single largest community among the non-Africans, being about 82 per cent of the non-African population. Their general economic condition is on the whole very satisfactory. Many of them are quite well-to-do.

In Uganda some Indians have big factories, e.g., sugar, meal and ginning. About 90 per cent of the total trade of Uganda passes through Indian hands.

Indians (and also other non-Europeans) are not allowed to own or lease land in the Kenya Highlands for agricultural and industrial purposes. Anti-Asiatic regulations prevent the purchase or occupation of certain residential sites in Nairobi and Mombasa (in Kenya) by Indians.

Indians are, in practice, discriminated against in the matter of appointments under the Government; they are generally excluded from appointments to higher posts. An Indian (or other non-European) gets less pay than a European for the same work. But this position is being remedied.

In Kenya, grants for social services, e.g., education, are more favourable to Europeans than to Indians.

Indian residents in these territories are entitled to acquire the citizenship of the U.K. and Colonies under the British Nationality Act. Normally one year's continuous stay or birth in the territory is necessary.

In Kenya, the population is divided into race categories for the election of members to the Legislative Council; the Indian electoral roll is further subdivided as between Indian Muslims and other Indians. Out of six seats two are for Indian Muslims and four for other Indians.

Indians also enjoy municipal franchise in these territories.

SOUTH AFRICA

Persons of Indian origin in South Africa numbering about 430,000 are mostly labourers, traders, small farmers, factory workers, and in small numbers professionals.

Racial discrimination against Indians exists in South Africa in every walk of life and in the worst possible form. Persons of Indian origin are practically excluded from parliamentary, provincial and municipal franchise as well as from public services except in menial and subordinate posts.

"Apartheid" or racial segregation is the declared policy of the South African Government. In accordance with this policy Indians are subject to a number of restrictions as regards immigration, inter-provincial migration, residence, trade, industry, professional and other occupations. Racial segregation is also enforced in schools, post offices, railways, public transport, hotels, churches, social and religious gatherings and public utility undertakings.

The outstanding piece of anti-Asiatic legislation is the Group Areas Act, 1950. By this Act, the entire population of the Union has been divided into three main groups, White, Native and Coloured. Persons of Indian origin are included in the Coloured group. The Government will establish by proclamation "group areas" for exclusive occupation or ownership or both, of any of the groups. The various racial communities will have to live and occupy premises for trade and professions only in areas allotted to them. Indians and other non-Europeans will thus not be able to continue to hold properties in an area declared for the European group. The Union Government has already started taking active steps for the proclamation of group areas in a number of important cities in the Union. When the Act is fully implemented, persons of Indian origin will have to move into the areas exclusively reserved for them and this will disrupt their trade and business and involve immense losses running to millions of pounds.

The Group Areas Act was further amended in 1955 (Act No. 4 of 1955) to invest increased powers to the Land Tenure Advisory Board.

Asians have been declared prohibited immigrants since 1913, but the right of entry into the Union of wives and children of Indians domiciled in South Africa was provided for in the Reciprocity Resolution passed at the Imperial Conference of 1918 and later in the Cape Town Agreement of 1927. Under an Act passed in 1953, the Union Government banned the entry into South Africa of the wives and children of persons of Indian origin domiciled in the Union. But certain specified categories of wives and children of persons of Indian origin were allowed to enter South Africa till 10th February 1956.

The aim of the present South African Government in regard to Indians is their ultimate repatriation to India.

Practically all Indians domiciled in South Africa are South African citizens by law, but they are denied some of the most important rights of citizenship.

No Indian, who is not already a South African citizen, is allowed to acquire South African citizenship.

Indians have no franchise rights in the Provinces of Natal and Transvaal. In the Cape Province they enjoy limited franchise rights as for Cape Coloureds.

Indians are not eligible to a place in the Executive Council or Legislature, whether provincial or central.

There is no special limit to remittances by Indians to India.

The question of the treatment of the people of Indian origin in South Africa was placed before the General Assembly of the United Nations in 1946. In that year the U.N. General Assembly passed a resolution expressing the opinion that "the treatment of Indians should

be in conformity with the international obligations under the agreements concluded between the two Governments and the relevant provisions of the Charter." Resolutions have been passed in subsequent sessions of the U.N. General Assembly in this respect, but the Union Government have paid little attention to these resolutions. In the Resolutions adopted in 1950 and afterwards the Union Government was also called upon to suspend the implementation of the Group Areas Act pending the conclusion of negotiations between the Governments of India, Pakistan and South Africa. But the Government of South Africa has proceeded with the implementation of this Act despite these Resolutions.

On Nov. 26, 1957 the U.N. passed two resolutions: The first by 59 votes to 6 with 14 abstentions that South Africa had not modified its race policies and asking that it should do so. The second resolution was passed by 64 votes to none with 16 abstentions asking South Africa to begin negotiations with India and Pakistan on the treatment of people of Indian origin.

The question of the treatment of people of Indian origin in South Africa was again discussed in the U.N. General Assembly in 1958 which was boycotted by the South African delegation. A resolution was adopted to express regret that the Government of the Union of South Africa have so far ignored all requests of the General Assembly and not changed its policy of apartheid which is in direct violation of the U.N. Charter.

SOUTHERN RHODESIA

Indians in Southern Rhodesia are mostly traders. Immigration of Indians into Southern Rhodesia has been prohibited since 1924, and only wives and children under 16 of domiciled Indian residents are admitted.

Although there are no discriminatory laws as such against Indians, in practice and in the interpretation of laws discrimination against them exists, particularly in the social sphere. Indians are not eligible for appointments to the Fixed Establishment of the Civil Services, and are not admitted into the Armed Forces. Indians are required to obtain special permits in order to purchase, possess or sell arms and ammunition whereas Europeans can do so on ordinary permits.

There is a common roll for all races with common qualifications. Of about 50,000 voters in the territory, between 400 and 500 are Indians.

There is no limit to remittances to sterling area countries.

CEYLON

Out of a total of about 10 lakh persons of Indian origin in Ceylon, about 781,000 (labourers, subordinate staff, etc.) are in the tea, rubber and coconut estates. The balance is made up of merchants, shop assistants, land proprietors, and professional men such as doctors, accountants, lawyers and their families.

There is no restriction on Indians acquiring property in Ceylon, but non-Ceylonese are not allotted Crown Land. Trade in certain commodities and with certain countries like Japan and Germany is exclusively reserved for Ceylonese enterprises. Certain rights like fishing rights and the ownership of industries like public transport (omnibuses) are restricted to Ceylonese. Government service is restricted to Ceylonese except that foreigners are appointed on a contract basis when no qualified or suitable Ceylonese is available. Consequently Indians who have not acquired Ceylon citizenship have severe handicaps. Indians are also denied certain privileges such as National Insurance and un-employment relief.

The rights of Indians to citizenship are governed by two Acts enacted in 1948 after a discussion between the Indian and Ceylonese Prime Ministers. These Acts are the Ceylon Citizenship Act and the Indian and Pakistani Residents (Citizenship) Act, which provide that the Indian residents in Ceylon would be entitled to obtain the citizenship of Ceylon by registration subject to the following conditions: (a) an

applicant must be resident in Ceylon when the laws came into force and must have been residing in Ceylon since January 1, 1936 if a bachelor and since January 1, 1939 if a married man, (b) he must have adequate means of livelihood, (c) he should be in a position to comply with the laws and customs of Ceylon, and (d) the application for registration was filed and submitted to the Controller of Registration before August 5, 1951.

An Agreement was entered into in January 1954 between the Government of India and the Government of Ceylon regarding the citizenship rights of persons of Indian origin in Ceylon. Under this Agreement the Government of Ceylon agreed to expedite the registration of citizens under the Indian and Pakistani (Citizenship) Act and to make every endeavour to complete the disposal of pending applications within two years.

At a conference held in October 1954 at New Delhi between the Representatives of Ceylon and India, it was agreed that applications for Indian citizenship by persons of Indian origin will not be refused on the ground that an applicant had earlier applied to the authorities in Ceylon for registration as a Ceylonese citizen, and that pending registration of such persons either as Ceylonese or as Indian, they will be issued Identity Certificates for travel to India by the authorities (Indian or Ceylonese as the case may be) with whom their applications for citizenship are pending. The Ceylon Government have also agreed that all those who hereafter become Indian citizens will be allowed to continue in their employment in Ceylon till the age of 55. They have further agreed to facilitate the registration of persons of Indian origin as Ceylonese citizens.

The total number of applicants for Ceylon citizenship is estimated to be about 850,000.

Out of these, the applications of about 96,923 persons were still reported as pending disposal as on September 1, 1954.

The Government of Ceylon launched their scheme of repatriating Indians at the end of 1954. Indians whose temporary residence permits had expired were served with quit notices.

In April 1955 the Government of Ceylon amended their Immigrants and Emigrants Act of 1948 whereby they have shifted the onus of proof in a prosecution under the Immigrants and Emigrants Amendment Act on the accused. The employment of persons who are unable to prove their nationality, has been made illegal and the employers rendered liable to prosecution.

Till the end of June 1957, about 23,285 Indians served with quit notices returned to India.

Pursuant to January 1954 Agreement, the Ceylon Government enacted the Indian and Pakistani (Parliamentary Representation) Act of 1954. Under it, for the purpose of voting the entire island of Ceylon is made into a single Constituency, from which registered citizens of Indian origin shall elect four members to the House of Representatives. The voting will be separate till 1966, after which registered citizens of Indian origin will also be brought on the general electoral register.

The Parliament of Ceylon consists of the House of Representatives (Lower House) and the Senate (Upper House). The strength of the House of Representatives was 101, 95 elected and 6 nominated members. Under the Constitution Amendment Act, 1954 the number of members of the House of Representatives has been increased from 101 to 105 to provide for the representation of 4 members to be elected from the Indian and Pakistani Residents Constituency.

But by a later Bill passed by the Parliament the separate electorates were to be abolished.

An agreement on the Ceylonization of Indian business undertakings was reached on Nov. 22, 1954. It was agreed that Indian firms could retain essential (technical, involving trust and confidence) personnel, but only Ceylonese should be employed in lower and middle ranks and that they should be trained for executive posts.

Remittances from Ceylon are governed by the Exchange Control Regulations in force which are altered from time to time in accordance with the financial situation in Ceylon. Under the existing Exchange Control Regulations remittances upto a maximum of one-third of proved income in Ceylon may be sent to India. All non-Ceylonese holding valid residence permits can obtain Exchange Control Cards from the Post Offices for a monthly remittance of Rs. 30 for purposes of maintenance.

FIJI

Indians have played an important part in the development of the economic resources of the Fiji Islands. Indian residents are the descendants of the indentured immigrants from India who started coming into the Colony in 1879. The Indian population is about 49 per cent of the whole population of the island. The majority of the Indians are independent farmers, agricultural labourers, skilled and semi-skilled workers; the rest being teachers, clerks, storekeepers, doctors, lawyers. Sugar-cane production and road transport are Indian monopolies.

There is no colour bar in Fiji and Indians suffer from no 'political disabilities'. There is also no racial discrimination against Indians with regard to appointment to the civil services. However, under the present Government regulations, Indians cannot own land which is marked as 'Native Land Reserve' or Crown Land, without the approval of Government; but there are no restrictions on their acquiring freehold land.

Indians in Fiji have franchise both in respect of Legislature and Local Town Council but the franchise is on a communal basis.

The Legislative Council consists of 31 members—16 officials and 15 non-officials. In the non-official group Europeans, Indians and Fijians have equal representation with 5 members for each group. Of the 5 Indian members 3 are elected on a communal franchise and 2 are nominated. The Executive Council consists of 4 officials (excluding the Governor) and 3 non-official members. One of the non-official members is an Indian elected from among the Indian members of the Legislative Council.

There are no restrictions on the remittance of money outside Fiji.

AUSTRALIA, NEW ZEALAND

The majority of persons of Indian origin settled in Australia are engaged in retail trade or agricultural operations.

Indians domiciled in Australia do not suffer from any disability and have all citizenship rights. In accordance with the White Australia policy, fresh Indians are, however, not admitted for permanent settlement.

The Commonwealth franchise was granted to Indians domiciled in Australia in 1925.

The great bulk of Indians in New Zealand are engaged in the sale of fruits and groceries. Domiciled Indians are not generally subject to any disability or discrimination.

Indians have always enjoyed the right to vote both in Municipal and Parliamentary elections.

Indians can remit a limited amount to India for maintenance of wives and children. Up to April 1962, the limit was £55 for wife and £5 for each child (subject to maximum of 4 children) per quarter, but since then a 50 per cent cut has been imposed.

A TOURIST'S GUIDE*

For all information and assistance, visitors are advised to contact the Government of India tourist offices in India. The representatives of the Tourist Department are stationed on duty at the airport and in the case of Bombay a representative of the Tourist Office always meets all important passenger liners.

THE following hints meant for foreign tourists may be useful:

1. Every foreign tourist entering India should be in possession of a valid passport issued by his Government.

He should also obtain before leaving his country a tourist visa from the Indian representative abroad (or the British representative in countries where there are no Indian representatives). Commonwealth citizens (except those of Pakistan and Ceylon) are exempt from the visa requirement, provided their passports are valid for travel to India. Persons of non-Indian origin domiciled in South Africa are, however, required to obtain visas.

Transit visas are not required for through air/ship passengers in direct transit by the same flight or by the next regularly scheduled flight irrespective of whether the flight is of the same or a different Airline, provided the period does not exceed 72 hours and provided the mode of journey does not change. One can however leave the airport or ship by obtaining a landing permit for 72 hours and on depositing his passport.

The normal period of stay on a tourist visa is 3 months, and on a transit visa 15 days.

The tourist visas can be further extended by two months.

For short visits not exceeding 2 weeks to Pakistan, Nepal or Ceylon tourists may obtain "no objection to return to India" certificates and return visas from the State Governments.

Visas for India are, unless otherwise specified, valid for a single journey only.

2. All non-Commonwealth tourists arriving in India are required to get themselves registered at the port of arrival and obtain certificates of registration. They will be registered as "tourists" if in possession of a tourist visa, and will not be required to report their movements to the police or registration authorities during their stay in India.

3. The Government of India have placed no health restrictions on persons entering India by sea or air, except in regard to yellow fever.

However, all persons are advised, in their own interest, to be protected against small-pox and cholera according to international requirements.

4. All baggage is open to customs examination. The duty payable on most articles varies from 25 per cent to 100 per cent or more according to the article.

Certain personal effects are allowed to enter free. Also alcoholic liquor up to one quart, provided the tourist can procure a permit on arrival by producing his Tourist Introduction Card. Liquor permits are issued to tourists at the Santa Cruz Airport, Bombay and at Ballard Pier, on application immediately on landing. Failing this, the permit may be obtained from the Foreign Liquor Permit Office, Old Customs House, Mint Road, Fort or from the excise official at the following hotels: Taj Mahal, Greens, Ambassador, Grand, West End and Ritz.

5. Tourists are allowed to bring into India any amount of Indian or foreign currency notes or coins subject to declaration except in the cases specified below:

Indian coins from Pakistan Rs. 5 in value, Indian coins from Afghanistan Re. 1 in value. There is no limit on the amount of Travellers' Cheques.

The official rates of exchange are as follows: £1 equal to Rs. 13.33; U.S. \$1 equal to Rs. 4.76. The actual buying and selling rates, however, differ slightly from these rates.

Foreign currency can be exchanged at any authorized dealer or money changer.

6. Tourists are advised to arrange for clearing their baggage by one of the recognized travel agencies.

TRAVEL AGENCIES

Here is a list of recognized agencies: Messrs. American Express Co. Ltd., Oriental Building, 364, Dr. Dadabai Naorji Road, P.O. Box No. 507, Bombay-1; Messrs. Thos. Cook & Son, Cook's Building, D. Naorji Road, Bombay-1; The Oriental Express Co. Ltd., Hotel

Marine, New Delhi; Jeena & Company, Passenger, Shipping, Clearing & Insurance Agents, 10, Veer Nariman Road, P.O. Box No. 849, Bombay-1; Lee & Muirhead (India) Ltd., 12, Rampart Row, Fort, Bombay-1; Trade Wings Ltd., Travel Agents, 30, Rampart Row, Fort, Bombay-1; Trade Wings (Calcutta) Ltd., 15-Old Court House Street, Calcutta-1; Balmer Lawrie & Co. Ltd., 21, Netaji Subhas Road, Calcutta-1; Mercury Travels (India) Ltd., Grand Hotel, P.O. Box No. 925, Calcutta-1; Rami Mohan & Co., Ltd., The National Travel Services, P.O. Box No. 1723, Madras-1; Bharat Travel Service Ltd., Tourist Agents, 310-311, Linghi Chetty St., Madras-1; Iyer & Son Ltd., United India Building, Connaught Place, New Delhi; Cox & Kings (Agents) Ltd., P.O. Box No. 308, Lloyds Bank Building, Bombay-1; Grindlays Bank Ltd., P.O. Box No. 98, Mint Road, Bombay-1; G. Raghunatham Pillai Bank Ltd., Tourist Agents, Hyderabad (Deccan); Jammal Sons Ltd. (Hind Musafir Agency), Jhangir Wadia Building, 15, Mahatma Gandhi Road, Bombay-1; The Indian Travel Corp. Ltd., Banaras Pathak & Banaras Cantt., Banaras; Airfreight Ltd., Neville House, Nicol Road, Ballard Estate, Bombay-1; Globe Travels, 11-H., Connaught Circus, New Delhi; N. Jammadas & Co., Travel Agents, 16 Bank Street, Fort, Bombay; Asiatic Travel Service, P.O. Box No. 1568, 12, Murzban Road, Fort, Bombay-1; National Travel Agency, Mercantile Buildings, 9 & 10 Lall Bazar, Calcutta-1; Saba & Rai Travels Ltd., Hotel Ambassador, Bujang Singh Park, New Delhi; Esorts (Agents) Ltd., P.O. Box 187, Pratap Buildings, Connaught Circus, New Delhi; Venzimal Beasurmal & Bros., 521, Kalbadevi Road, P.O. Box. 2112, Bombay; Harrison's Crossfields, Cochin.

Note: Of the travel agencies noted above the first 17 and the 25th are authorized to issue tickets both for internal and external travel; 18th to 22nd are authorized to issue tickets only in conjunction with air and sea travel internal or external; 23rd to 24th are authorized to issue railway tickets only in conjunction with external travel.

* **NOTE:** When the population of a town is not given it may be generally assumed that it is less than 20,000.

No. of foreign tourists in 1958: 92,000; in 1951: 21,000. Foreign exchange earnings through tourist traffic was about Rs. 16 to 20 crores, in 1958.

TOURIST OFFICES

The following is a list of Government of India tourist offices in India and abroad:

1. Director, Govt. of India Tourist Office, 123, Queen's Road, Bombay-1.
2. Director, Govt. of India Tourist Office, 88, Janpath, New Delhi.
3. Director, Govt. of India Tourist Office, 13, Old Court House Street, Calcutta.
4. Director, Govt. of India Tourist Office, 35, Mount Road, Madras.
5. Manager, Govt. of India Tourist Office, Krishna Vilas, Station Road, Aurangabad.
6. Manager, Govt. of India Tourist Office, Plot No. 5, Hanidia Road, Bhopal.
7. Manager, Govt. of India Tourist Office, The Mall, Agra.
8. Manager, Govt. of India Tourist Office, 15-B, Mall, Banaras.
9. Manager, Govt. of India Tourist Office, 16-A, Mahatma Gandhi Road, Bangalore.
10. Manager, Govt. of India Tourist Office, Willington Island, Cochin-3.
11. Manager, Govt. of India Tourist Office, The Mall, Simla.
12. Manager, Govt. of India Tourist Office, Tourist Bureau Building, Chaurastha, Darjeeling.
13. Manager, Govt. of India Tourist Office, Commissioner Road, Ootacamund.
14. Manager, Govt. of India Tourist Office, Rajasthan State Hotel, Jaipur.
15. Director, Govt. of India Tourist Office, 28, Cockspur Street, Trafalgar Square, London N.W. 1.
16. Director, Govt. of India Tourist Office, 19, East 49th Street, New York, 17, N.Y.
17. Manager, Govt. of India Tourist Office, 685, Market Street, San Francisco 5, California.
18. Director, Govt. of India Tourist Office, Indisches Verkehrsbureau, Frankfurt (main) Baseler Hochhaus, Baseler Strasse 46.
19. Assistant Director, Govt. of India Tourist Office, Leonard House, 46, Elizabeth Street, Melbourne C.1. (Australia).
20. Assistant Director, Govt. of India Tourist Office, Bank of Ceylon Buildings, York Street, Colombo.
21. Director, Govt. of India Tourist Office, 8, Boulevard de la Madeleine, Paris-9.

It may be mentioned here that a Tourist Promotion Committee with the Cabinet Secretary of the Union Government as Chairman has been formed to promote tourist traffic from abroad.

TOURIST CENTRES

Mount Abu (hill station): Pop. 4,316 (1941) in Rajasthan, about 4,000 feet above sea level. There are two seasons in the year, the first lasting about two and a half months from the middle of March to the beginning of June, and the second lasting about one and a half months from the middle of September to the end of October. *Places worth a visit:* 1. the Dilwara Jain temples (11th-13th century, A.D.) containing the finest marble carvings in India, 2. Achalgarh temples (15th-16th Century, A.D.) and Mandakini Kund, 3. Ruins of an ancient town called Chandravati, 4. Nakki Talao (lake), 5. Arbuda Devi, a shrine cut in rock, 6. Guru Shikhar (5,646 ft.), highest point in Abu, 7. Sunset point, 8. Palanpur point, 9. Ganmukh Temple and Agni Kund, 10. the Municipal Park. Mount Abu is electrified and has waterworks with public utility taps. The chief means of conveyance are rickshaws, taxis and buses. There are hotels, dak bungalows and inspection houses at Mount Abu. Permission is required to use the dak bungalows and inspection houses. Mount Abu is reached by railway and road. The nearest railway station is Abu Road on the metre-gauge section of the Western Railway from Ahmedabad to Delhi. From the station Abu Road is about 17½ miles by road, and there is regular motor service between the town and the station. Taxis can be hired from Mount Abu Motor Service, Abu Road.

Agra: Pop. 375,665 (1951), a city in U.P., stands on the banks of the River Jumuna. It was the capital of the Moghul Empire during the reigns of Babar, Akbar, Jehangir and Shah Jehan. *Places worth a visit:* 1. the Taj Mahal, regarded by many as the most beautiful building in the world, 2. the Fort, 3. the Juma Masjid, 4. Moti Masjid, 5. the tomb of Itmad-ud-Daula, 6. Akbar's tomb at Sikandra, about five miles from Agra, 7. Dayal Bagh, 8. Twenty-three miles from Agra is the deserted city of Fatehpur Sikri founded by Akbar.

Agra, which has many railway stations, is on the main Bombay-Delhi and Calcutta-Delhi lines and is accessible by the Central or the Western or the Northern Railway.

Ahmedabad: in Bombay State, is an important textile centre. It contains numerous monuments of the fifteenth and sixteenth centuries. Pop. 788,333 (1951).

Aiholi: near Bagalkot in Mysore State contains about fifty temples important in the development of Hindu architecture and sculpture.

Ajanta Caves: are 66 miles north of Aurangabad in Bombay State. The rock-cut caves are 29 in number (5 chaityas or shrines and 24 viharas or monasteries, all Buddhist) and present a record of a unique combination of painting, sculpture and architecture of a period extending over nine centuries from about the 2nd Century B.C. to about 7th Century A.D. Three miles from the caves are a rest-house and a travellers' bungalow under the charge of the Director of Archaeology of the State. There is a curator's office next to the rest-house from which help and information can always be obtained. The caves can be reached from Aurangabad on the railway line between Dronachellam and Manmad by the State Transport buses which regularly ply between Aurangabad Station and the Ajanta caves.

Ajmer: city of considerable antiquity, Hindu and Muslim religious centre, contains Western Railway workshop. Pop. 196,633 (1951). *Places worth a visit:* 1. the Durgah of Khwaja Sahib (tomb of Muslim saint), 2. the Magazine (Akbar's old palace now museum), 3. Ana Sagar Lake (the marble pavilions round the lake were built by Shah Jehan), 4. Adhai-din-ka-Jhoup (Hut of two and a half days), 5. Taragarh Fort (built by Akbar), 6. Mayo College, 7. Pushkar, the most sacred lake in India, is about seven miles away. The chief means of conveyance are buses, tongas and pao gharris. Ajmer lies on the metre-gauge section of the Western Railway line between Delhi and Ahmedabad. A line from Ajmer goes south to connect it with Khandwa on the Central Railway line between Delhi and Bombay (Rajasthan).

Allahabad: city in U.P., situated at the confluence of the Ganga and the Jumuna. It has an old fort and also an Asoka pillar. Sixty-five miles from Allahabad is Kosambi where the ruins of an ancient capital are being excavated. Pop. 332,295 (1951).

Alwar, Bikaner, Jodhpur, Kotah: famous for Rajput historical monuments.

Amritsar: city in the Punjab, sacred to the Sikhs. Pop. 325,747 (1951). Amritsar is the very centre of the Sikh religion and has a big trade in grain and textiles. *Places worth a visit:* 1. the Golden Temple standing in the Pool of Immortality, 2. Baba Atal Tower, 3. Akal Takht, 4. Ram Bagh Gardens, and 5. Fort Govind Garh. The chief means of conveyance in the city are hackney carriages. Fares are fixed. Amritsar is the Indian terminus of the frontier line from Delhi. It is on the Northern Railway.

Aurangabad: in Bombay, is note-worthy because of its proximity to Ellora and Ajanta caves and for handloom textiles. *Places worth a visit are:* 1. Bibi-ka-Mughara—the tomb of Aurangzeb's wife which is a replica of the famous Taj, 2. Panchakki (old water-mill). The shrine of Shah Munsafi, a Muslim saint, lies near by. Pop. 66,686 (1951).

Badami: in Mysore State, is famous for sculptured caves of the 6th century and for a group of Hindu temples. Fifteen miles from Badami is Pattadakal with another group of early Hindu temples (7th or 8th century) examples of pure Dravidian architecture.

Bangalore: Largest city in Mysore and a health resort, is about 3,000 feet above sea-level. It is well laid-out and up-to-date with every urban facility. *Places worth a visit:* 1. Cubbon Park, 2. Lal Bagh, 3. Band-stand, 4. Race Course, 5. Maharaja's Palace, 6. Tipu's Palace, 7. Venkataramanaswamy Temple. The chief means of conveyance are rickshaws, jukkas, buses and taxis. Pop. 778,977 (1951).

Baroda: Capital town of the former Baroda State, now part of Bombay State, is about 250 miles to the north of Bombay, modern, pop. 211,407 (1951). *Places worth a visit:* 1. Laxmi Vilas Palace (the residence of the Maharaja, one of the most beautiful palaces in India), 2. Old Nazar Bagh Palace, 3. Museum and Public Park, 4. Jubilee Garden, 5. L. F. Battery, and 6. the city walls. The chief means of conveyance are tongas, buses, taxis. Baroda lies on the main lines of the Western Railway between Bombay and Delhi and Bombay and Ahmedabad.

Belur: in Mysore State, noted for its elaborately sculptured temples of the Hoysala period.

Banaras: town in U.P. on the banks of the Ganges, very sacred to the Hindus. It is in fact the religious capital of Hindu India and contains about 1,500 comparatively large temples besides countless minor shrines. It is also reputed to be the oldest city in the country. Pop. 355,777 (1951). *Places worth a visit:* 1. Vishwanath Temple, 2. Bharat Mata Temple, 3. Mandir, with Jaisingh's Observatory, 4. Aurangzeb's Mosque, 5. Gyan Wapi Mosque, 6. Nandewar Kothi, 7. Ramnagar Fort, 8. Maidajin Garden, 9. Victoria Gardens, 10. Benares Hindu University, and 11. Sarnath, a great Buddhist centre with many architectural remains, is about six miles from Banaras. The chief means of conveyance are taxis and tongas.

There are also about 30 dharmaalas for Hindu pilgrims. Banaras is on the branch line from Moghul Sarai to Saharanpur. It is also connected with the major towns of India by railway.

Bharatpur: town in Rajasthan is famous for its historic fort. Pop. 37,321 (1951).

Bhubaneswar: which is the new capital of Orissa, is a city of temples once said to number 7,000. *Places worth a visit:* 1. Lingaraj Temple, visitors are not allowed inside the compound but have to see it from a platform, 2. Mukteswar Temple, 3. Parasurameswar Temple, 4. Raj Rani Temple. Nearby are the Jain and Buddhist rock-cut caves of Khandagiri and Udayagiri and Asoka's Rock Edict at Dhauli. There is a Dak Bungalow where visitors can stay with the District Board's permission. Bhubaneswar is on the main S.E. R. line between Waltair and Howrah, about 20 miles from Cuttack and 38 miles from Puri.

Bijapur: town in Mysore State, capital of the old Muslim kingdom of Bijapur is rich with the remains of palaces, mosques, and tombs of the Adil Shahi kings. *Places worth a visit:* 1. Jami Masjid (the greatest mosque in South India), 2. Gol Gumbaz (the tomb of Mahammad Adil Shah and the second largest dome in the world), also called the Whispering Gallery, 3. Methar Mahal, 4. Ashar Mahal, 5. Gagan Mahal, 6. Chini Mahal, 7. Mecca Masjid, 8. Taj-Baury (water-tank), 9. Malik-i-Maidan (Great Gun), 10. Landi-Kasab Gun, 11. Haldar Burj (tower), 12. Ibrahim Rosa (the tomb and mosque of Ibrahim II), 13. Jala Mandir (reservoir), 14. Chand Bauri (old tank), 15. Granary, 16. Jod Gombaz (double tombs), 17. Bara Kaman Masjid, and 18. Begum Tank. The chief means of conveyance are taxis, horries, tongas and bullock-carts. Bijapur is a railway station on the Gadag-Sholapur section of the Southern Railway. There are a dharmaala and a travellers' bungalow about one and a half miles from the station. Pop. 65,724 (1951).

* The official name is Varanasi.

Bombay: second city and port in India generally called the Gateway to India, is western and modern. Pop.: over 3 million; Area (Greater Bombay) 174 sq. miles. It is the principal centre of the textile industry, and the second biggest financial centre. The foreign trade of Bombay is about 45 per cent of the total trade of India. The city returns 30 per cent of the country's total income-tax, and 20 per cent of the corporation tax. It is an important communications centre, served by several air-lines and two big railways of both of which it is a terminus. May and October are the hottest months, but from November to March it is pleasant. *Places worth a visit:* 1. the Gateway of India, 2. Apollo Bunder, 3. Prince of Wales Museum, 4. the Town Hall, 5. Bombay Castle, 6. Rajabai Tower and University Building, 7. Victoria Terminus of the Central Railway, 8. the General Post Office, 9. Crawford Market, 10. Brabourne Stadium, 11. Chowpatty sands, 12. Malabar Hill, Hanging Gardens and Kamla Nehru Park, 13. Central Station, Terminus of the Western Railway, 14. Race Course, 15. Bhandarwada Reservoir and Gardens, 16. Victoria Gardens. Places near about Bombay which are worth a visit are: 1. Juhu (sea-side resort), 2. Versova (sea-side resort), 3. Vihar Lake (from which the city gets its water-supply), 4. Kanheri Caves (rock-cut caves of Buddhist origin), 5. Jogeshwari Caves, 6. Vajreshwari (temple and hot springs of medicinal property), 7. Mandapeshwar (cave temple), 8. Nirmal (temple and lake), 9. Ambarnath (temple), 10. Uran (port, with private garden and zoo), 11. Pali (hot springs and small game shooting), 12. Elephanta Caves (Brahmanical Caves). The chief means of conveyance in Bombay are trams, buses, electric railway, taxis and gharias.

Brindavan: holy place of Hindus, about six miles from Mathura in U.P. It is sacred because of its association with the birth and early life of the Hindu God Shri Krishna. *Places worth a visit:* 1. Govind Dev Temple, 2. Gopinath Temple, 3. Ranganath Mandir.

There are travellers' bungalows. Brindavan is accessible by railway or road from Mathura.

Buddha Gaya: in Bihar, a Buddhist centre of pilgrimage. It contains the famous meditative Buddhist temple near the Bodhi Tree under which Gautam did penance and attained Enlightenment. Pop. 133,700 (1951).

Bundi: in Rajasthan is well-known for its buildings. Jungles nearby provide plenty of tiger shooting. Pop. 22,697 (1951).

Calcutta: until March, 1912, the headquarters of the Indian Government, and now, as then, the commercial capital of India. It is the terminus of three great railways, and the port of an immense river traffic. Though it lies 84 miles from the Bay of Bengal on the River Hooghly, it has a larger foreign trade than any other Indian port, and its enterprising Port Trust has the largest revenue among Indian port authorities. It is the centre of five great industries—jute, tea, hides and skins, coal and lac. Its exports include gunny bags, raw jute, tea, shellac, coal, hides and skins, rice and linseed, while it is the chief distributing centre for Lancashire piece-goods, metals and machinery, and the vast and varied requirements of the States of West Bengal, East Bengal (Pakistan), Bihar and Orissa and the tea districts. Population of West Bengal is 26.16 millions and of Greater Calcutta 4,578,071. *Places worth a visit:* 1. Victoria Memorial (contains a picture-gallery and museum), 2. the Indian Museum, 3. the Zoological Gardens, 4. the Jain Temple, 5. the Kalighat Temple, 6. Belvedere House (where the British Viceroys stayed when on visit to Calcutta), now being converted into a museum, 7. Raj Bhavan (residence of the Governor of West Bengal), 8. Marble Palace (containing art treasures property of the Mallik family), 9. Fort William, 10. the Eden Gardens, 11. the Town Hall, 12. the National Library, 13. Dalhousie Square, 14. the Race Course, 15. Dhakuria Lake, 16. the Hindu bathing ghats, 17. Dakshineswar Temple. Places near about Calcutta which are worth a visit are:

1. Bally (holy place), 2. Belur (home of the Ramakrishna Mission), 3. the Botanical Gardens contains the biggest banyan tree in existence), 4. Diamond Harbour (fort and customs house), 5. Dam Dum (airport of Calcutta).

Cape Comorin: also called Kanya Kumari in Malira State, is the southern-most tip of India.

Conjeevaram (Kanchipuram): the city of temples, the Banaras of the South, is about 45 miles to the south-west of Madras. It is one of the seven holy cities of India and the only one in the South. The place is divided into three parts, Shiva Conjeevaram (containing Shiva temples), Vishnu Conjeevaram (containing a smaller number of Vishnu temples) and Pillayar Paliyam, a testimony to the part played by all the main Hindu religious sects in the history of the city. There are over a thousand temples in all. *Places worth a visit:* 1. Kallianath Temple (over 1,000 years old), 2. Valukunth Perumal Temple (over 1,000 years old), 3. Ekambareswar Temple (400 years old), 4. Vedaraja Perumal Temple. Pop. 84,810 (1951).

Conjeevaram is on the Rengunta-Chingleput section of the Southern Railway and is easily accessible from Madras via Chingleput.

Cooch-Behar: in West Bengal, is known for the facilities and opportunities which it offers to shikaris in search of big game hunting. Pop. 33,242 (1951).

Coomer: hill station on the Nilgiri Hills in Madras State, is about 6,000 feet above sea-level. The climate is mild and genial neither too hot in the summer nor too cold in the winter. The mean day temperature is 64 degrees. The north-east monsoon breaks in October and lasts about two months. The town has good water-supply and natural drainage facilities and is reputed to be one of the cleanest towns in South India. *Places worth a visit:* 1. Sim's Park (contains collection of plants), 2. Low's Waterfall, 3. Tiger Rock (hill fort). There are innumerable places for excursion and picnic purposes, e.g. the Droog, the Dolphin Nose, the Lamb's Rock, Las Falls, Lady Canning Seat, the Ralliah Dam and Catherine Falls. The chief means of conveyance are cars which can be hired.

Coomoor lies on the Mettupalayam-Ootacamund line of the Southern Railway. It is also connected by road with Ootacamund, and Kotagiri, another hill station. Pop. 23,902 (1951).

Darjeeling: hill station and summer capital of the West Bengal Government lies on the lower slopes of the Himalayas about 370 miles to the north of Calcutta. It is 7,110 feet above sea-level. The maximum temperature in the summer is about 70 degrees and the minimum in the winter is about 35. The town commands picturesque views including that of Mount Kanchenjunga and on a clear day of Mount Everest. Various sports are available during the season such as fishing, shooting, horse-riding and a number of other indoor and outdoor sports. Darjeeling has also a first-class sanatorium known as Eden Sanatorium. *Places worth a visit:* 1. Government House, 2. Town Hall, 3. Museum, 4. Observatory Hill (from where a magnificent view of Kanchenjunga can be obtained), 5. the Mall, 6. Natural History Botanical Gardens, 7. Birch Hill Park, 8. Senchal Lakes, 9. Ghoom Monastery, 10. Tiger Hill (from where the sunrise over Everest is generally viewed).

The chief means of conveyance are rickshaws, ponies and dandies. Darjeeling is the terminus of the Darjeeling-Himalayan section of the N. E. Railway and is about 27 hours' journey from Calcutta. From Siliguri where the visitor has to change, Darjeeling can also be reached by car which is quicker than travelling by the mountain railway. Pop. 33,605 (1951).

Delantabad: in Bombay State, contains the famous rock-hewn 12th century fortresses at one time so prosperous that it led Bin Tuglak to shift his capital to it from Delhi (1308). Close by is the tomb of the Moghul Emperor Aurangzeb.

Delhi (New): the capital of India and the seat of the Government. It was planned in accordance with modern ideas by the architects Sir Edwin Lutyens and Sir Herbert Baker and was formally opened in 1931. New Delhi houses the President's House (now called Rashtrapati Bhavan), the Parliament, and the Secretariat. All the buildings in New Delhi are white except the ones mentioned above. These latter are built of red sandstone. Pop. 276,314 (1951).

Delhi (Old): also called Shahjahanabad, the ancient capital of India stands on the river Jumna, and is enclosed by a stone wall with seven gates. It has a history going back to 3,000 years and within an area of 50 square miles eight Delhis rose and fell. The seven predecessors of present-day Delhi are Kutub, Biri, Tuglakabad, Jahanabad, Firozabad, Purana Quila and Shahjahanabad. No city in India contains as many historical remains as Old Delhi. One can trace here the growth and decay of almost every dynasty which held sway over the ancient land of Hindustan. There are a number of factories, jewellery, gold and silver embroidery and ivory carvings works for which Delhi is well-known. Pop. 914,700 (1951). Delhi is a great distributing centre for cotton, wool and silk. Industries include hardware, utensils and stoneware. Delhi is also a large market for grain. Lately tourist traffic has grown into a regular new trade. *Places worth a visit:* Red Fort, Jama Masjid, Chandni Chowk, Rajghat Samadhi, Ashoka's Pillars, Feroze Shah Kotla, Purana Quila, Humayun's Tomb, Isa Khan's Tomb, Lodi Park and Lodi Tomb, Safdar Jang's Tomb, Haus Khas, Kutab Minar, Tughlaqabad, India Gate or War Memorial Arch, Rashtrapati Bhavan, Parliament House, National Museum, Shri Lakshmi Narayan Temple, Jantar Mantar or the Observatory, Museums.

The means of conveyance are tongas, buses, taxis, trams, cycle-rickshaws and auto-rickshaws.

Delhi is directly connected by rail and air with Bombay, Calcutta and Madras. The Central and Western Railways connect it with Bombay, the Northern and Eastern Railways with Calcutta, and the Southern and Central Railways together with Madras.

Delhi also lies on the direct East-West trans-world air routes linking India with all the major cities of the world.

Ellora Caves: are situated about 15 miles to the north-west of Aurangabad in Bombay State. The caves which are excavated in the face of a hill are 34 in number and run north to south for a distance of a mile and a quarter. The hill has the shape of a crescent the southern, the centre, and the northern being occupied respectively by Buddhist, Hindu and Jain temples. There are 12 Buddhist caves, 17 Hindu caves and 5 Jain caves. The Hindu caves are more lavishly decorated than others and Kalash Temple which is the most famous of the caves is also the biggest cave temple in India. It stands in a court averaging 184 feet wide, 276 feet long with a earrp 107 feet high at the back. Among other notable caves are caves X, XII, XIV, XV, XXIX, XXXIII, XXXIV. It is believed that the Ellora Caves are about a thousand years old. They are reached from Aurangabad by bus or car.

Ernakulam: in Kerala State, is famous for its backwaters fringed by Hindu, Muslim, Christian and Jewish settlements. Pop. 62,283 (1951).

Fatehpur Sikri: City founded by Akbar in 1569 but abandoned soon after is situated 23 miles from Agra. Akbar wished to make it his capital but it had to be abandoned because of lack of water. Here Akbar's son Salim who later became the Emperor Jahangir was born. The place contains a number of palaces, shrines, mosques built of marble and red sandstone. *The more notable among the monuments are:* 1. Buland Darwaza, the Gateway of Victory, built to commemorate the conquest of Khandah. It is 176 feet high and is the highest gateway in India. It forms the southern gateway to the most imposing structure in Fatehpur Sikri, 2. the Jama Masjid,

said to be a copy of the mosque at Mecca or Medina. Then there are 3. Panch Mahal, 4. Diwan-i-Khas (Hall of Private Audience), 5. Mariam's House, 6. Palace of Jodh Bai, 7. House of Birbal, 8. Elephant Tower and 9. Khas Mahal. Fatehpur Sikri has a railway station, and the city can be easily reached by car. There is a dak bungalow where visitors can get meals by previous arrangement.

Goleconda: 5 miles from Hyderabad is an ancient spectacular fort (Andhra).

Gopalpur-on-Sea: in Orissa is a sea-side resort for a quiet holiday.

Gulmarg: an ideal hill station about twenty-nine miles from Srinagar, is a little less than 9,000 feet above sea-level. The place boasts of all modern facilities and is particularly noted as a winter playground affording scope for skating, skiing, tobogganing, and golf. Round about are ideal places for walks, rides and excursions.

Gwalior: best known for its fort (which is reputed to be the most interesting and remarkable example of a Hindu palace of an early age) lies about 200 miles to the south of Delhi. *Places worth visiting*: 1. Gwalior fort (includes Man Singh's Palace and a number of temples and shrines), 2. Tansen's Tomb, 3. Kani Laxmi Bai's Chhatrai, 4. the Chhatris of other Marhatta rulers, 5. Tomb of Mahomed Ghaus, 6. Jami Masjid, 7. State Museum, 8. King George Park and Zoo, 9. Gwalior Pottery Works. Seventy-two miles from Gwalior is Shivpuri or Sipri famous for its lake and scenery. Surway is twelve miles again from Shivpuri contains the remains of a fortress of the early medieval period. The chief means of conveyance are tongas and buses. There are two dharmshalas open only to Hindus but at Dufferin Sarai opposite the station rooms are available for rent. Gwalior is on the main Central Railway line between Bombay and Delhi. Pop. 241,577 (1951) (Madhya Pradesh).

Halabid: in Mysore, is well known for its elaborately sculptured temples of the Hoysala period.

Hampi: in Mysore State, is the ruined capital of the Vijayanagar Empire. It is 5 miles from the Hospet Railway Station on the Southern Railway. The ruins are about 600 years old and are described as "virtually a vast open air museum of Hindu monuments in the Dravidian style of architecture".

Hardwar: in U.P. on the Inner Himalayas, is a great Hindu pilgrim centre.

Imphal: north-east frontier town and capital of Manipur. It is celebrated for the Manipur dance and handloom products.

Jabalpur: in Madhya Pradesh; fourteen miles from Jabalpur are the marble rocks. Pop. 256,908 (1951).

Jaipur: provisional capital of Rajasthan Union, is a well laid-out modern city. It is famous all over India for the beauty of its art and the skill of its artisans. Jaipur pottery, brass ware, stone carving, ivory and sandalwood work and jewellery have enjoyed a great reputation from ancient times. Pop. 291,130 (1951). *Places worth a visit*: 1. Maharaja's Palace, 2. Jal Singh's Observatory, 3. the ruins of Amber (ancient capital), 4. the Hawa Mahal, 5. the Palace Armoury, 6. Cenotaphs of the Queens, 7. Galta (place of pilgrimage) and Chat, 8. School of Arts, 9. Public Library, 10. Transport Gardens, 11. Museum. The chief means of transport are tongas, ekkas, phaetons, taxis, buses and palgharis.

Jaipur is on the metro-gauge line of the Western Railway between Ahmedabad and Delhi.

Jamshedpur: in Bihar, famous as India's 'Steel town'. Pop. 216,162 (1951).

Jog Falls: in Mysore State, are one of the highest waterfalls in the world.

Junagadh: in Bombay, is situated below the celebrated Girnar Hill and is one of the most ancient cities in India. The temples on the hill are noted for their architecture and delicate painting. On the way to Girnar is a rock with an Asoka edict. Pop. 62,780 (1951).

In Junagadh is the famous Gir Forest—the only place in Asia where lions are found.

Kangra Valley: famous for its magnificent landscapes and historic temples, lies in the Punjab. Semi-urban hill stations are Kangra and Dharamsala. *Places worth a visit in Dharamsala are*: 1. Bhagunath Water Springs, 2. State Quarries, 3. Himalayan Snow View. The chief means of conveyance are cars and buses. There is also a dak bungalow at Dharamsala where visitors can stay. To get to the Kangra Valley a visitor has to change at Pathankot into the narrow-gauge railway which runs to Nagrota. Dharamsala can also be reached from Pathankot by car.

Kanheri: near Bombay, is famous for its Buddhist caves dating back to the 1st century A. D. It is about twenty miles from Bombay.

Kashmir: unsurpassed for the beauty of its mountains, lakes and valleys is a province of the State of Jammu and Kashmir, situated in the far north of India, 5,000 ft. above sea-level. Srinagar, the capital of the State is famous for its shawls and carpets and the exquisite beauty of its wood-work and papier-mache articles. Its fruit and vegetables are equally well-known. Well-furnished, luxurious house-boats moored along the river Jhelum or in the Dal Lake provide all necessary comforts amidst gorgeous natural surroundings. The normal recreations include Shikara rides on the lakes and canals, mountain-climbing, big and small game hunting, golf, fishing and swimming. Gulmarg, Sonamarg and Pahalgam are favourite holiday resorts in the neighbouring mountains and can be reached by motorable road. The way to Srinagar is via Pathankot, which is a railway terminus. From Pathankot one goes to Srinagar by road passing Jammu on the way. There is a regular air service from Delhi to Srinagar, and a shuttle non-scheduled air service from Pathankot to Srinagar during the tourist season. The chief means of conveyance are boats, tongas, cars or buses. *Places worth a visit*: 1. The Moghul Gardens, like a. Shalimar, b. Chashama, c. Achabal, d. Shahand, e. Nisbat. 2. The lakes like a. Dal Lake, b. Wular Lake, c. Anchar Lake, d. Manasbal Lake and so on. 3. Places of historical and religious interest like a. Martand temple, b. Pandranthan temple, c. Bhaumazu caves, d. Avantika Pura and e. Pari Mahal.

Khajuraho: in Chhattarpur in Madhya Pradesh, is famous for its group of highly ornate medieval temples (Madhya Pradesh).

Kodalkanal: famous hill station on the Pains Hills in Madras State. It is about 7,000 feet above sea-level and has a temperate climate. The average annual rainfall is 65 inches, the major part of the rain falling in October, November and December. The months of April, May and June constitute the 'season'. The town enjoys excellent water-supply and is also well-equipped with all the ordinary amenities of life. The place affords plenty of scope for such recreations as walking, hiking, boating, fishing, hill climbing and golf. Going on an excursion or picnic is yet another way of diverting oneself. For the more adventurous there is big game hunting. Kodalkanal is the delight of the gardener and flowers are in bloom all the year round. *Places worth a visit*: 1. the lake skirted by a three-mile road, 2. the water falls like a. Fairy Falls, b. Silver Cascades, c. Bear Shola Falls, d. Glen Falls, e. Pamber Falls. 3. There are view points like a. Coaker's Walk, b. Pillar Rocks, c. Prospect Point, d. Vembadi Shola Peak, e. Dolphin's Nose. Then 4. the Solar Observatory.

There are a number of boarding houses, and fully furnished flats can also be rented. Kodalkanal is reached from Kodalkanal Road railway-junction on the Southern Railway via Tiruchirappalli. Kodalkanal town is 80 miles from the railway station and the journey can be done by car, taxi or bus on a very good motor road.

Kanarak or Konark: place in Orissa, famous as the site of the Temple of the Sun God otherwise called the Black Pagoda. It is remarkable both as an example of ancient Indian archi-

teature and sculpture and of engineering skill. A great part of the temple is destroyed but on the porch stand the huge figures of warriors and life-sized pieces of horses and elephants and the famous carved wheels at the basement. The image of the sun in the yard of the Puri Temple is generally supposed to have come from Kanarak. Kanarak is about 60 miles from Puri by bus or taxi, 40 miles from Bhuvaneshwar by bus or taxi. The road is open from November to May.

Kolar: in Mysore, is the site of the famous gold fields. Pop. 159,084 (1951).

Kotagiri: A hill station on the Nilgiris, higher than Coonoor, but lower than Ootacamund, is smaller and quieter than either. It is about 6,500 feet above sea-level and has a mean day temperature of 62 degrees. The town has electricity, a number of shops and boarding houses, a local board hospital and golf course. Kotagiri is reached from Coonoor or Ootacamund by car or bus. The roads are excellent and there is a regular bus service. Between Kotagiri and Ootacamund the road goes over Doddabetta the highest peak in the Nilgiri Hills (Madras State).

Kulu Valley: well-known for the variety of its scenery and places of historical interest is situated in the Punjab, north of Simla. It is ideal for hiking and trout fishing. The important part of the valley from the tourist's point of view is the road which runs from Pathankot or Nagrota the rail-heads into the valley. A few miles beyond Pathankot the road passes through the rich cultivation of the Kangra Valley and the extensive tea gardens surrounding Palampur and Baijnath. The traveller has a view of the majestic snow-capped mountains of the Dhaul Dhar range standing out in bold relief against the sky-line. He also comes across the ancient temples of Baijnath. Beyond Aut after Mandi the valley opens out and the final stretch through the lovely Kulu Valley mainly along the left bank of the river Beas offers an entirely different type of scenic effect. The Kulu Valley is also called the 'Valley of the Gods' as in addition to several important deities like Raghunathji at Sutanpur and Jamlu of Malana every village has its own particular God. The best season is from March to May and September to November. The summer is never uncomfortably hot. The main centres of the Kulu Valley are: 1. Kulu or Sutanpur, the principal town, about 4,000 feet above sea-level. It is the main shopping centre and has a dak bungalow, and a number of rest-houses. 2. Raison, 8 miles from Sutanpur and 4,700 feet above sea-level. The available sports are golf, tennis and swimming. Mayflower and the Shacks are two hotels. 3. Katrain, is in the widest part of the Valley, 12 miles from Sutanpur and 4,800 feet above sea-level. 4. Naggar, summer headquarters, is 5,800 feet above sea-level. There is a departmental rest-house and a serial. 5. Manali, the head of the valley and terminus of the motor road, is 23 miles from Sutanpur and is situated amid typical Alpine scenery. Accommodation for visitors is available at Sunshine Orchards, Departmental rest houses and Mission Hospital. Except Manali, the road to which may be occasionally closed owing to snowfall the rest of the valley is open throughout the year. Pathankot is the rail-head for Kulu. From Pathankot Kulu is reached by bus or car, or from Pathankot to Nagrota by metre-gauge railway and from there by bus to Kulu.

Kumason Hills: in U.P. form part of the Himalayas and are known as the sportsman's paradise. Two important summer resorts are Nainital and Ranikhet. Most mountaineering parties establish their base at Ranikhet for ascent to the Pindari Glacier.

Tiger shooting is available in the Terai and Bhabhar Forests in the Kumason region.

Lansdowne: in U.P. in Garhwal about half way between Mussoorie and Nainital.

Lonsava: in Bombay State, lies in the heart of the Western Ghats and is known for the Karla Caves—6 miles from Lonsava by car.

Ludlow: the city of gardens is the capital of U.P. It is full of places of historical interest

and of architectural beauty and is generally regarded as the cultural capital of Moghul India. It is well-known for its pottery, copper and brass ware, wood and ivory carvings and gold and silver embroidery on cloth. Legend connects the founding of the city with Laxmana, the brother of Rama, the mythical hero of the Hindus, and is sometimes called Laxmanpur. Pop. 496,861 (1951). The chief means of conveyance are tongas, ekkas, phaetons and taxis. *Places worth a visit*: 1. Great Imambara, 2. Small Imambara, 3. tombs of Wajid Ali Shah and his Begum, 4. Kaiser Bagh Palace, 5. Chattr Manali, 6. Dilkusha Palace, 7. Moti Mahal, 8. Machi Bhavan Palace, 9. Jumma Masjid, 10. Charbagh, 11. Alam Bagh, 12. Sikander Bagh, 13. Nuss Bagh, 14. Wingfield Park, 15. Residency, 16. Havelock's Tomb, 17. Clock tower, 18. Museum, 19. Observatory, 20. Iron Bridge. Lucknow is a big junction on the Northern Railway.

Madras: the third largest city in the sub-continent and the capital of Madras State. It is the place where the English first settled to trade. Pop. 1,416,056 (1951 census). The chief means of conveyance are rickshaws, juktas, horse carriages, taxis and buses. *Places worth a visit*: 1. Fort St. George (contains the oldest Protestant church in the country where Clive was married), 2. High Court, 3. Light House, from the top of which one can get a panoramic view of the city, 4. Marina. The Marina is one of the most beautiful promenades in the world; sea-bathing is possible at certain points, 5. The Museum, 6. Connemara Library, 7. the Zoo, 8. the Observatory, 9. Moore Market, 10. Parthasarathy Temple, 11. Mylapore Tank and Kapaleswar Temple, 12. St. George's Cathedral, 13. St. Thomas Mount, 14. Race Course, 15. Buckingham and Carnatic Mill, 16. Madras Pencil Factory and 17. Adyar, where the headquarters of the Theosophical Society are located. There are two places round about Madras which are also worth a visit: 1. the ruins of the Gingee Fort famous in the days of the Vijayanagar Empire are about 95 miles from Madras and can be reached by rail and road, 2. the seven Pagodas of Mahabalipuram are 53 miles by road from Madras and can also be reached by road from Chingleput Railway Junction. Kalakshetra is a well-known institution for music, dance and drama at Adyar.

Madurai: the second biggest city in Madras State is a great religious centre, containing as it does a number of famous temples. In the old days it was the capital of the Pandya kingdom and has always been a seat of Hindu culture particularly Hindu architecture. The silk-weaving and textile industries of Madurai are also noteworthy. *Places worth a visit*: 1. The Great Temple, actually made up of two temples one of Meenakshi and the other of Shiva. Adjoining the temple are a. Nandi Hall, b. temple of the Saints, c. the Jewel House, d. the Stable Houses. Then there is 2. Tirumal Nayak's Palace. Pop. 361,781 (1951).

Mahabaleshwar: a hill station in Bombay State, the season being April and May. It is 4,500 feet above sea-level and is noted for its bracing climate. It is also well-known for its fruit and vegetables, orchids and lilies which bloom in April and May. The chief recreations are hiking and driving in a car. Among the sports which are available are tennis, golf and polo. *Places worth a visit*: 1. The two Government Houses old and new, 2. Reay Garden and 3. the two temples Krishna and Mahabaleshwar. Then there are a number of points from which magnificent views can be obtained, like Arthur Seat Point, Baghad Point, Castle Rock, Carnac Point, Connaught Point, Falkland Point, Elphinstone Point, Margney and Lardwick Point and Bombay Point. Then there are the waterfalls like Chinaman's Waterfall, Dhobi Waterfall, Lingmala Waterfall and a lake called Yenna Lake. The places of historical interest are all connected with the name of the Mahratha leader Shivaji such as Kamalgarh Fort, Makrandgarh Fort, Pandavgarh Fort, Pratapgarh Fort and Raigarh Fort. Near Pratapgarh are the Bhavani Temple and the tomb of Afzulkhan. All these places are accessible by road from Mahabaleshwar.

Mahabaleshwar can be reached from Poona both by road and railway. By railway one can go as far as Wathar Station from where Mahabaleshwar is only about half-an-hour's journey by road.

Mandu: in Madhya Pradesh is one of the greatest mediaeval city sites in India with extensive remains including fortifications and palaces. Seventy-eight miles west of Mandu by road via Dhar is Bagh which has a large number of caves adorned with fine old frescoes.

Matheran: the nearest hill station to Bombay is 2,650 feet above sea-level, and is famous for the magnificent views which it yields. The town looks on to the sea, and the coastal plain rises imperceptibly until it reaches the steep ascent of the Ghats. In his walk round the eighteen-mile circumference of the hill the visitor can reach no fewer than thirty-three points of which the following deserve mention: 1. Garbut Point, 2. Panorama Point, 3. Porcupine Point, 4. Louisa Point, 5. Chowk Point, 6. Alexandra Point, 7. Belvedere Point, 8. Echo Point, 9. Monkey Point. At every one of these points the visitor will find comfortable seats, shady trees and fine views. Among other places which are worth a visit are: 1. Charlotte Lake, 2. Paymaster Park, 3. Band-stand, 4. Castle Hill Tower, 5. Race Course. The chief recreations are walking and riding. Rickshaws, munchils and horses are the chief means of conveyance.

Matheran is reached from Neral Station on the main line between Bombay and Poona. From Neral there is a light railway to Matheran which is about one-and-a-half-hour's journey. Alternatively one can do the journey by rickshaw or pony by previous engagement at Matheran.

Mathura: in U.P. is an important place of pilgrimage for Hindus, because of its associations with Shri Krishna. It has also an archaeological museum. Six miles from Mathura is Brindavan. Pop. 98,552 (1951).

Mussoorie: A hill station in U.P. lies 18 miles to the north of Dehra Dun. It is 6,500 feet above sea-level. The town has excellent water-supply, electric lighting system, hospitals, nursing homes and some of the best schools in India both for boys and girls. There are also plenty of sports and amusements. And like every Himalayan hill station one can obtain magnificent views of mountain tops and green river valleys. Hiking and going on excursion or picnic are among the main recreations. The means of conveyance are rickshaws, ponies, dandies, buses and cars. *Places worth a visit*: 1. The falls like a. Bhatta Falls, b. Kamptee Falls, c. Hearsay Falls, d. Mossy Falls, 2. Wimper's Tank, 3. Band-stand. Mussoorie is reached from Dehra Dun by car or bus and is about two hours' journey.

Mysore (State): commemorates the destruction of Mahishasur, the demon by Chamundi who is the tutelary goddess of the royal family of Mysore. Mysore is a picturesque land of forest and mountain presenting the most diversified and beautiful scenery. In the southern forests are found wild elephants for the capture of which khedda operations are undertaken from time to time. Tigers, leopards, bears and lions are also numerous. *Places worth a visit in Mysore State*: 1. The Chenna Kesava Temple at Belur, 24 miles from Hassan, 2. Sivasaamudram Falls on the Cavery River, 3. Hoysaleswara Temple at Halebidu, 4. Geroppe Falls also called the Jog Falls on the Shiravati River, the most famous beauty spot in Mysore. The falls are higher than Niagara, 5. Kolar Gold Fields, the biggest in India worked by electric power, 6. Nandidurg, a hill station near Bangalore, and the summer residence of Tipu Sultan, 7. Srirangapatnam of historical and religious interest as the capital of Tipu and as the city of many temples, 8. Shravanabelgola, the great Jain religious centre with the huge statue of Gomateshwara and of course the city of Bangalore and the town of Mysore.

Mysore (City): second city in the State, is built in accordance with modern standards, and contains a number of beautiful public buildings. It attracts great crowds twice a year when the

city wears a gala appearance. These two occasions are the Maharaja's birthday and the Dasarah. *Places worth a visit*: 1. The various palaces (and also stables) like the Maharaja's Palace, Jaganmohan Palace and so on, 2. Chamundi Hill, with the Bull and the Temple, 3. Zoological Gardens, 4. Silk Factory, 5. Sandalwood Factory, 6. Krishnarajasagar Dam and the Brindavan Gardens, among the most beautiful in the world, about 12 miles from Mysore. The chief means of conveyance are juktas, coaches, and taxis. Mysore is one of the termini of the Southern Railway. Pop. 244,323 (1951).

Naini Tal: hill station and summer capital of the U.P. Government, is about 6,350 feet above sea-level. Among the principal recreations are hiking, boating and yatching on the lake around which the town stands, and fishing and riding. One can also enjoy the Himalayan mountain scenery. *Places worth a visit*: 1. Cheena Peak, 2. Land's End, 3. Lariya Kanta Peak, 4. Sher-ka-Danda Peak, 5. Tiffin Top or Dorothy Seat, 6. Camel's Peak or Deopatta Peak. Naini Tal is reached from Kathgodam railway station which is connected with Bareilly and Mathura. From Kathgodam one goes by bus or car to Naini Tal which is 22 miles away.

Nalanda: in Bihar contains a group of ruined Buddhist temples and monasteries and a small local museum. It was the seat of an ancient Buddhist university.

Nasik: in Bombay State, is a place of pilgrimage for Hindus and is famous for Buddhist rock-cut temples of the first century B.C. and later. Pop. 97,042 (1951).

Ootacamund: hill station and summer capital of Madras State, stands 7,600 feet above sea-level on the Nilgiris. It is sometimes called 'the Queen of the hill stations.' One of the main features which distinguishes it from other hill stations is the number and length of motorable roads which go winding in and out of spacious parks or long stretches of turf studded with ornamental trees. The mean temperature for the year is 57.33°; during the winter the thermometer touches freezing point. Ootacamund is called the sportsman's paradise: plenty of fishing and big game shooting being available. There is also golf and tennis and during the season races and tournaments are held. *Places worth a visit*: 1. Botanical Gardens, 2. Race Course, 3. Assembly Room, 4. Doddabetta, the highest peak in the Nilgiris, and 5. Pykara Hydro-Electric Dam which is about 18 miles from Ootacamund. The chief means of conveyance are juktas, rickshaws and taxis. Ootacamund is the terminus of the Nilgiri mountain railway. Pop. 41,370 (1951).

Pachmarhi: hill station, was summer capital of Madhya Pradesh lies on the Mahadeo hills of the Satpura Range and is about 3,500 feet above sea-level. There are about 20 golf links in the town and plenty of game is also available in the Pipariya forest. *Places worth a visit*: 1. Hee Dam, 2. Mahadeo Caves, 3. Dhupgarh, highest point in the Satpuras, 4. Dorothy Deep Falls, 5. Duchesa Falls, 6. Lansdowne Hill, 7. Sulphur springs, 8. Waters Meet, 9. Big Falls, 10. Pansy Pool, 11. Twipram Pool, 12. Saunder's Pool, 13. Pandava Caves. Pachmarhi is reached from Pipariya Station on the main Central Railway line from Bombay to Jabalpur. From Pipariya, Pachmarhi is 32 miles and the journey can be done by bus or car.

There are facilities for swimming, trekking and riding.

Padmanabhapuram: in Kerala, is the ancient capital of the former Travancore State. *Place worth a visit*: Palace.

Pahalgam: in Kashmir in the lap of the Lidder Valley is situated 60 miles from Srinagar and is famous for its camping sites, and as a base for the Amarnath Cave and Kolahoi glacier.

Palkiana: in Bombay, is famous for its holy hill Shatrunjaya (see separate note) and its Jain temples. Pop. 24,007.

Patna: capital of Bihar, stands on the site of the ancient city of Pataliputra. Pop. 283,479 (1951).

Poona : in Bombay State has many old palaces and parks and one of the best race courses in India. *Places worth a visit are* : the National Chemical Laboratory, the Defence Academy and the Central Water and Power Research Station at Khadakvasla. Pop. 480,982 (1951).

Portbandar : in Bombay, is the birth-place of Mahatma Gandhi and an attractive summer resort. Pop. 58,924 (1951).

Prabhas Patan : in Bombay, is the site of the famous Sumnath Temple, whose idol was reinstated in May 1951.

Puri : famous for the Jagannath Temple, is a coastal town in the State of Orissa and is the State's summer re-ort. The car festival when an image of Jagannath is taken in procession in a huge rath is an event of India-wide importance. The temple has a black marble pillar in front and a 24-feet high stone wall all round. There are four entrances. The presiding deities are Krishna, Balaram and their sister Subhadra. Besides the Jagannath Temple other places worth a visit are the monastic establishments (maths). Fifty miles from Puri is Konarak, famous for the Sun Temple. Pop. 49,037 (1951).

Rameshwaram : This holy town in Madras State is built on an island in the Palk Straits. It contains one of India's most venerated temples, perhaps the finest example of South Indian architecture. It is in the form of a quadrangular enclosure 650 ft. by 1,000 ft. The temple is renowned for its vast pillared corridors nearly 4,000 ft. long.

Ranchi : hill station and summer resort of Bihar, noted for its picturesque scenery and fine roads. Pop. 106,819 (1951).

Ranikhet : is a hill station in U.P. on the Kumaon Hills. Most mountaineering parties establish their bases at Ranikhet.

Sanchi : small village in Malhya Pradesh, famous for the Buddhist stupa which is the largest and the best preserved in India. The stupa is built with sand stone and is about 103 feet in diameter and 42 feet high. The sculpture is remarkable in that there is no anthropomorphic figure of Buddha. The most striking features of the Stupa are the four gates which are profusely carved with scenes from the Jataka stories. Sanchi is on the main Central Ry. line between Bombay and Delhi. There is a State-owned dak bungalow at the place where lodging and boarding are available by previous arrangement.

Santiniketan : in West Bengal, is the home of the famous Visva Bharati, the international university founded by Tagore. *Places worth a visit are* : Rabindra Bhavan (the poet's residence) where his personal belongings, manuscripts, etc. are on display and the poet's mud hut where he wrote many of his famous books. The place is 91 miles from Calcutta on the Eastern Railway and 3 miles from Bolpur Station.

Sasaram : in Bihar is famous for the magnificent tomb of Sher Shah, Emperor of Delhi. Pop. 29,265 (1951).

Seringapatam : or Srirangapatna in Mysore State, 9 miles by road from Mysore city is the ancient capital of Tippu Sultan. It has the Sultan's fort, mosque and palaces.

Sevagram : in Bombay State, is the village where Mahatma Gandhi founded his ashram.

Shatrunjaya Hills :—Shatrunjaya, near Paltana in Bombay, is also known to the Jains as Siddhagiri or Siddhachala or the Hill of the Perfected Ones. It is the most sacred place (*stha*) of Shvetambara Jains. There are a great number of temples in groups on *loks* or summits. The most important one is the *tsuk* of Adishvara Bhagavan. The ancient image, consecrated by the prophet's son, Bahubali, has been replaced. This is perhaps the most holy site within the most sacred precincts of the Shatrunjaya Hills. At this place a large number of saints are said to have attained *Nirvana*. A number of inscriptions have been found here, which have been utilised towards writing the history of Western India and the history of the different schools of Jainism.

Shillong : is the headquarters of the Assam Government. Thirty-six miles from here is Cherrapunji, the wettest place in the world. Pop. 53,756 (1951).

Shivpuri : also known as Sipri is in Madhya Pradesh, 72 miles from Gwalior. It is an interesting tourist resort with good hunting and boating possibilities. Pop. 21,887 (1951).

Simla : the former summer capital of the Government of India and the Government of the Punjab, it is situated on a spur of the Himalayas at a height of 7,200 feet. Among the recreations of the place are hiking, riding and shooting. The roads are excellent. *Places worth a visit* : 1. President's House, 2. Race Course, 3. Jakko Hill, 4. Observatory Hill, 5. Prospect Hill, and 6. Mashobra-Mahasu, seven miles away. There is a very good road into the interior and hikers to Narkanda, Kotgarh, Rampur and Bushahr can lodge in rest-houses that line the road. There is also a motor bus service on this road and holiday-makers who leave in the morning can be back in Simla by evening. The trek route to Kulu commences at Narkanda. Simla is also well provided with a number of excellent schools. The chief means of conveyance are rickshaws and horses.

Simla is now the capital of Himachal Pradesh.

Simla is reached from Delhi via Kalka on the Delhi-Ambala line. From Kalka there is a mountain railway upto Simla. At Kalka motor cars are available for those who prefer to travel by road. The journey taking 3½ hours. For cheaper travel there are buses which regularly run between Kalka and Simla. All through the scenery is superb, with mountain peaks or luxuriant foliage. Pop. 46,150 (1951).

Sumnath : see under Prabhas Patan.

Sravanabelagola : in Mysore State, is noted for its Jain temples and the colossal statue of Gomatesvara which is 60 ft. high, the tallest known monolithic statue in the world erected in 983 A.D.

Srirangam : an island on the Cavery, two miles north of Tiruchirappalli (Trichinopoly), contains the largest temple in South India. The temple is consecrated to Ranganath (Vishnu) and contains a hall of 1,000 columns. Changes were made from the 9th to the 16th centuries and inscriptions of Chola, Pandya, Hoysasala and Vijayanagar are all found on it. The north gopuram is 152 feet high. Pop. 36,702 (1951).

Tanjore : in the delta of the Cavery river in Madras State is noted for its temples and palaces. It was the capital of the Cholas under whom it grew in name and fame as a great centre of culture. *Places worth a visit* : 1. the temple of Brihadeshvara built by Raja-Raja the great, 2. Nalk's Court, 3. Mahratha Court (the two together are often called the Palace in Tanjore), 4. Nandi, the Bull. The chief means of conveyance are juktas and taxis. There are also good dak bungalows. Tanjore is reached from Madras by the Southern Railway. Pop. 100,680.

Tiruchirappalli (Trichinopoly) : the third largest city in Madras State is situated on the Cavery. It is a very ancient city and was the strategic capital of the Chola and Nalk kings. Tiruchirappalli is also known as the Kailash of the South. It is now a great educational centre. *Places worth a visit* : 1. the Rock and the temple on the Rock, 2. the two huge masses of granite known as the Golden Rock and Fakir Rock, 3. the Jambukeshwar Temple, two miles north of Trichinopoly dedicated to Appulinga or Siva. Pop. 218,921 (1951).

Travancore : (now constituent part of Kerala State) : the most beautiful and fertile region in all southern India has many charms to offer the traveller within its domains. It has scenery ranging from a countryside of lakes, creeks and canals, to low hills, undulating land, rice fields and forests of coconut and areca palms, with a heavy undergrowth of pepper vines and tapioca.

It has also a wonderful highland zone with mountains touching heights of from 5,000 feet to over 8,000 feet, and hills covered with the densest of virgin forest, the home of great herds of wild elephants and bison, tiger, bear, black panther and wild boar, and where lies the lovely Periyar Lake over which one may cruise in comfort and see wild life in its natural habitat.

Trivandrum, the capital of Kerala, is accessible by well-kept roads and railway, and is also now connected by air with Bombay, Madras and Colombo.

Places worth a visit : 1. the Palace, 2. Museum, 3. Picture Gallery, 4. Zoo, 5. Aquarium.

About seven miles south of Trivandrum is Kovalam, a pleasant seaside resort with good facilities for bathing.

Cape Comorin* (Kanya Kumari), the Lands End of India, is the southernmost point of the Union where the sunrise and sunset are magnificent sights. It is a sacred spot to Hindus and a place of pilgrimage as the reputed abode of Kanyakumari, the virgin Goddess to whom the temple there is dedicated.

North of Trivandrum is the ancient town of Quilon and to the north of this again, a pleasant trip by boat along delightful backwaters or by car along a good motor road, is the busy seaport of Alleppey.

Trivandrum : See under Travancore.

Udaipur : in Rajasthan, is a city of lakes with island palaces. Seventy miles from Udaipur is Chittorgarh, the abandoned capital of Mewar, famous for its Tower of Victory. Pop. 89,621 (1951).

Ujjain : in Malhya Pradesh, is one of the seven cities sacred to the Hindus. Pop. 129,817 (1951).

HOTELS

Here is a list of first-class Western style hotels

AGRA CANTT.

IMPERIAL HOTEL : Mahatma Gandhi Road;
LAURIE'S HOTEL : Mahatma Gandhi Road.

AHMEDABAD

RITZ HOTEL : Khanpur.

ALLAHABAD

BARNETT'S HOTEL : 14, Canning Road;
ROYAL HOTEL : 24, South Road, Civil Lines.

ALWAR

CIRCUIT HOUSE.

AMBALA CANTT.

CECIL HOTEL : Staff Road; PARRY'S HOTEL : Staff Road.

AMRITSAR

AMRITSAR HOTEL : Albert Road; IMPERIAL HOTEL : Queen's Road.

AURANGABAD

ATKANGABAD HOTEL : Aurangabad.

BANARAS CANTT.

CLARK'S HOTEL : The Mall; HOTEL DE PARIS : 15, The Mall.

BANGALORE

CENTRAL HOTEL, Bangalore 1; HOTEL EMBASSY : 40C, Infantry Road, Bangalore 1; LORD'S HOTEL : Cubbon Road and Infantry Road, Bangalore 1; SHILTON HOTEL : St. Mark's Road, Bangalore 1; WEST END HOTEL : Opp. Race course.

BARODA

BARODA HOTEL : Race Course Road.

BIKANER

CIRCUIT HOUSE : Outside Public Park.

BOMBAY

AIR LINES HOTEL : Churchgate Reclamation;
AMBASSADOR HOTEL : Churchgate Extension;
GRAND HOTEL (BOMBAY) LTD. : Ballard Estate;
GREEN'S HOTEL AND RESTAURANT : Landowas

* Now in Madras State.

Road, Apollo Bunder; **SEA GREEN HOTEL**: Marine Drive; **TAJ MAHAL HOTEL**: Strand Road, Apollo Bunder; **ASTORIA HOTEL**: Churchgate Reclamation; **RITZ HOTEL**: Churchgate Reclamation, Fort; **WEST END HOTEL**: 45, Marine Lines; **HOTEL WALDORF**: 16, Arthur Bunder Road.

BUNDI
Circuit House.

CALCUTTA
GRAND HOTEL: 15, 16, Chowringhee Road.
GREAT EASTERN HOTEL: 1, 2 & 3, Old Court House Street, Post Box No. 192.
SPENCES HOTEL, LTD.: 4, Wellesley Place.

CAPE COMORIN
HOTEL CAPE.

CHANDIGARH
MOUNT VIEW HOTEL: Section No. 19.

CHHATARPUR
Circuit House.

COCHIN
MALABAR HOTEL: Willington Island, Cochin 3.
COONOR (Nilgiri Hills).
HAMPTON HOTEL: Hill Grove Hotel.

DALHOUSIE
DALHOUSIE CLUB CHAMBERS: Near the motor terminus; **GRAND VIEW HOTEL**: Near the bus stand; **HOTEL METRO**: Charing Cross.

DARJEELING
BELLEVUE HOTEL: Chowrasta; **HOTEL MOUNT EVEREST**: Gandhi Road; **WINDAMERE HOTEL**: Observatory Hill.

DEHRA DUN
HOTEL WHITE HOUSE: 15-A, Lytton Road, Civil Lines.

DELHI
ASHOKA HOTELS: Diplomatic Enclave, New Delhi.

CLARIDGE'S HOTEL: 12, Aurangzeb Road.
GRAND HOTEL: 2, Underhill Road, Civil Lines; **HOTEL AMBASSADOR**: Sujana Singh Park, New Delhi; **HOTEL CECIL**: Civil Lines; **AIR LINES HOTEL**: Opposite New Delhi Railway Station.
HOTEL BROADWAY: Asaf Ali Road, D.A.G. Extension.

HOTEL IMPERIAL: Janpath, New Delhi.
HOTEL JANPATH: New Delhi.
HOTEL MARINA: Connaught Circus, New Delhi.
MAIDEN'S HOTEL: Allpore Road.
SWISS HOTEL: 2, Allpore Road

DEOLALI
CORONATION HOTEL: Lam Road; **RUGBY HOTEL**: Rest Camp Road.

GOPALPUR
PALM BEACH HOTEL: Gopalpur-on-Sea, P.O. Gopalpur, Dist. Ganjam.

GULMARG (Kashmir).
GOLF VIEW HOTEL: Upper Golf Course; **NEDOU'S HOTEL**.

OWALIOR
OWALIOR HOTEL & STATE HOUSE.

HYDERABAD
RITZ HOTEL: Hill Fort Palace, Hyderabad.
ROCK CASTLE HOTEL: Jubilee Hills.

INDORE
INDORE HOTEL: South Tukoganj; **LANTERN HOTEL**: North Tukoganj.

JABALPUR
JACKSON'S HOTEL: Civil Lines.

JAIPUR
JAI MAHAL PALACE HOTEL: Civil Lines; **Khetri House**.
KAISER-I-HIND HOTEL.

NEW HOTEL: Ajmer Road, Civil Lines; **CIRCUIT HOUSE**: Station Road.

JODHPUR
Circuit House.

KANPUR
BRECKLEY HOUSE.
KATRAN (Kulu-Punjab)
RIVERVIEW GUEST HOUSE.
KHAJURAHO (Madhya Pradesh)
Circuit House.

KHANDALA
KHANDALA HOTEL: Near the Railway Station.
KODAIKANAL
CARLTON HOTEL: Lake Road; **HOLIDAY HOME**: Near the Golf Club.

KOTAH
Circuit House: Civil Lines.

KRISHNARAJ SAGAR
HOTEL KRISHNARAJ SAGAR: Krishnara Sagar P.O.

LUCKNOW
CARLTON HOTEL, LTD.: Shahnajaf Road.
LUDHIANA
WINDSOR HOTEL & RESTAURANT: Near Clock Tower.

MADRAS
AMBASSADOR HOTEL: 151, Mount Road; **CONNEMARA HOTEL**: Blinn's Road; **HOTEL OCEANIC**: 93, San Thome High Road; **HOTEL DASAPRAKASH**: Poonamallee High Road.
AIRLINES HOTELS: 177-179 Mount Road.

MAHABALESHWAR
FREDERICK HOTEL: Poona-Mewar Road; **RACE VIEW HOTEL**: Cusum Sajan Hill.

MANALI (Kulu-Punjab)
SUNSHINE ORCHARDS GUEST HOUSE.

MATHERAN
LORD'S HOTEL: Mahatma Gandhi Road; **RUGBY HOTEL**: Vithalrao Kotwal Road.

MOUNT ABU
HOTEL JODHPUR.
MOUNT HOTEL: Near Telephone Exchange.

MUSSOORIE
CHARLEVILLE HOTEL; **HAKMAN'S GRAND HOTEL**; **SAVOY HOTEL**.

MYSORE
CARLTON HOTEL: Dee's Road; **HOTEL METROPOLE**: Viceroys Road.

NAGPUR
MOUNT HOTEL.

NAINI TAL
GRAND HOTEL: The Mall; **HOTEL METROPOLE**; **HOTEL WALDORF**: The Mall; **ROYAL HOTEL**: The Mall.

OOTACAMUND
HOTEL CECIL; **SAVOY HOTEL**.

PAHALGAM
PINE VIEW HOTEL.

PATNA
GRAND HOTEL: Fraser Road; **HOTEL REPUBLIC**: Lawly's Building, Exhibition Road, P.B. No. 33.

POONA
NAPIER'S HOTEL: 10, Moledina Road, Camp; **POONA HOTEL**: 4, Connaught Road; **WELLESLEY HOTEL**: 12-A, Connaught Road.

PURI
SOUTH EASTERN RAILWAY HOTEL.

RANCHI
EASTERN RAILWAY HOTEL: Opposite Railway Station, Post Box No. 84.

SECUNDERABAD
PERRY'S HOTEL: Sardar Patel Road.

SHILLONG

PSAK HOTEL: Near the Secretariat, Post Box No. 22; **PINEWOOD HOTEL LTD.**: Near Government House.

SIMLA

HOTEL CECIL: The Mall.
CLARK'S HOTEL: The Mall.

SRINAGAR
OSEROI PALACE HOTEL; **NEDOU'S HOTEL**.

THEKADAY (KERALA)
ARANTA NIVAS.

TRIVANDRUM
MASCOT HOTEL.

UDAIPUR
CIRCUIT HOUSE, **ANAND BHAWAN**.

INSPECTION BUNGALOWS, ETC.

The following places have inspection bungalows:

Baliam, Bacalkot, Belgaum, Dandell, Karla, Karwar, Khandala, Mahabaleshwar, Ajanta, Aurangabad, Bagh Caves, Sirsi, Balidh-Gaya, Sa'sna, Ajmer, Mathura, Agra, Allahabad, Almorah, Bhowali, Dehra Dun, Haldwani, Lansdowne, Lucknow, Ranikhet, Rishikesh, Amravati, Chidambaram, Cochín, Hampi, Kanchipuram, Mahabalipuram, Poondi, Periyar Game Sanctuary, Sivasamudram, Tanjore, Tiruchirappalli, Vijayawada, Jog Falls.

The following places have Pak Bungalows: Baroda, Mount Abu, Aurangabad, Ellora, Bagh Caves, Indore, Ujjain, Buddh-Gaya, Imphal, Almorah, Chamba, Joginderanagar, Kathgodam, Kulu Valley, Mandi, Narkanda, Sanchi, Banaras, Bhini, Bhimtal, Bikaner, Chhatrapur, Chittorgarh, Dhoolpur, Dungarpur, Jaisalmer, Ranikhet, Udaipur.

The following places have circuit or rest houses or both:

Ahmedabad, Baroda, Bhopal, Natheran, Bhojpur, Sanchi, Aurangabad, Ujjain, Jabalpur, Lonavala, Pachmarhi, Wardha, Buddh-Gaya, Ajmer, Alwar, Amritsar, Bhopal, Chamba, Khajuraho, Kulu Valley, Mandi, Naldara, Agra, Almorah, Ambala, Banaras, Bhowali, Bikaner, Bundi, Chhatrapur, Dalhousie, Dehra Dun, Delhi, Jaipur, Kalka, Kotah, Kurukshetra, Naini Tal, Nangal Township, Ranikhet, Udaipur, Kanya Kumari, Kodalkanal, Madura, Mettur Dam, Ootacamund, Trivandrum, Vishakapatnam, Alwaye, Kottayam.

The following places have travellers' bungalows: Dandell, Karwar, Ajmer, Belur, Coimbatore, Coonor, Courtallam, Dhannakkodi, Helebid, Hassan, Kodalkanal, Kottagiri, Kolar Gold Fields, Mangalore, Tiruchirappalli Cantt., Udipi, Vellore, Vishakapatnam.

Other rest places exist at:

Jamnagar (Government Guest House), Khadi (Forest Bungalow), Nasik (Dt. Bungalow, Excise Commissioner's Bungalow), Konarak (P.W.D. Bungalow), Bharatpur (Swagat Bhawan), Nilokheri (Guest House), Patiala (Baradari Palace (Guest House), Ootacamund (Connemara Cottage, Westmere), Rameshwaram (Mahabir Dharma-shala), Srirangapatnam (Krishna Murthy Bungalow), Trivandrum (Residency, Sachhavotama Chattram), Ajanta (Fardapur State Guest House), Dandell (Forest Bungalow), Ellora (Khuldabad State Guest House), Mahabaleshwar (Surgeon's Bungalow, Holiday Camp), Mount Abu (Carriek Cottage, Strohl Vakalat, Old Strohl Tehall), Pachmarhi (Hotel Blocks), Sirsi (District Bungalow), Agra (Archaeological Bungalow, Fatehpur Sikri, Archaeological Bungalow, Sikandra), Haldwani (Kham Bungalow), Jaipur (Government Hotel), Lansdowne (District Board House), Nangal Township (Field Hostel (East and West)), Hampi (P.W.D. Bungalow (Hospet)), Dam Site (Tungabadhra), Kamalapuram, Kolar Gold Fields (Government Guest House, Oorgama), Periyar Game Sanctuary (Government Guest House, Edupalayam), Vellore (Masilami Madanar (Choultry (Private))), Vishakapatnam (Turner's Choultry).

CONSTITUTION OF INDIA

THE present constitution of India was drawn up by a Constituent Assembly which first met on 9th December 1946. A draft constitution was published in February 1948. The constitution with amendments in the original draft was finally adopted on 26th November, 1949. It came into effect on 26th January 1950.

There were seven amendments to the Constitution upto the end of December 1958.

A whole Schedule, the Ninth Schedule, was added by an amendment in 1951.

A major amendment was concerned with the re-formation of the constituent units of the Union. The States as re-formed came into existence on 1st Nov., 1956.

STATES

India, that is, Bharat is a sovereign democratic republic.

It is variously called the Republic of India, the Union of India, The Indian Union.

The Union is made up of 29 States.

Of these 13 are designated Part 'A' States, one, Part 'B' State and six Part 'C' Territories.

The 13 Part A States with their capitals given in brackets are:

Andhra Pradesh (Hyderabad); Assam (Shillong); Bihar (Patna); Bombay (Bombay); Kerala (Trivandrum); Madhya Pradesh (Bhopal); Madras (Madras); Mysore (Bangalore); Orissa (Bhubaneswar); Punjab (Chandigarh); Rajasthan (Jaipur); Uttar Pradesh (Lucknow); West Bengal (Calcutta).

The one Part B State with its capital in brackets:

Jammu and Kashmir (Srinagar).

The 6 part C Territories with their capitals in brackets are:

Delhi (Delhi); Himachal Pradesh (Simla); Manipur (Imphal); Tripura (Agartala); Laccadive, Minicoy and Amindivi Islands (Kochikode, provisional headquarters); Andaman and Nicobar Islands (Port Blair).

The States are administered by State Governments, the Territories by the Central Government.

The one Part B State, Kashmir, is in a unique position. It enjoys rather more power than a Part A State (see under Jammu and Kashmir). It has a flag of its own.

This special status is conferred by Art. 370 of the Constitution.

In addition to the States and Territories mentioned above there are two administrative units—the North-East Frontier Agency, called NEFA for short, and the Naga Administrative Unit.

Both these units are administered by the Governor of Assam as agent of the Central Government.

FEDERATION

The constitution of India is quasi-federal in nature.

The distribution of power between the Centre and the local administrations follows the accepted principle that subjects which for convenience and efficiency ought to be administered on an all-India basis are vested in the Union Government, while others (of the nation-building sort) which can be conveniently administered on a local basis are vested in the State Governments.

Thus, defence, foreign affairs, transport and communications, currency and coinage, banking, customs and export duties, and the administration of justice at the higher level are all Central subjects, while State powers include those over police, public health, education, agriculture, forests and so on.

There is a third group of subjects that fall betwixt and between such as trade and industry, economic and social planning, social security and

insurance, labour welfare, price control, electricity, newspapers and books and vital statistics. On these subjects both the Centre and the State can freely legislate, it being understood that whenever there is conflict between Union and State legislation the Union laws shall prevail.

Three detailed lists of subjects are drawn up, the Union List, the State List and the Concurrent List, and the residuary power rests with the Union. That is to say, if at any time, a subject which does not figure in any of the three lists, comes up for consideration the power of dealing with it lies with the Union Government.

The three lists are given in the Seventh Schedule.

It may be added that the Union List has 97 entries, the State List 66 and the Concurrent List 47.

Thus the constitution of India is a quasi-federation in which the Centre is the dominating partner. The Union Government controls the State Governments in certain matters. The Union has also the power to confer additional powers on the States.

All elections are directed and controlled by an Election Commission. Elections to the Lok Sabha and the Legislative Assemblies of the States are on the basis of adult suffrage. Seats are reserved in the Lok Sabha for the Scheduled Castes and the Scheduled Tribes.

There is a Public Service Commission for the Union and also for the States. Two or more States may agree to have only one Commission for the group. Actually, every Part A State has a Public Service Commission at present while the Union Public Service Commission operates for the Part C Union Territories as well. Appointment of members of the Commission are made by the President or the Governor as the case may be. The Commission conduct examinations for appointments to the services of the Union or the States. The Union Commission submits an annual report to the President.

Provision is made for removing differences between the various States by empowering the President to establish an Inter-State Council.

FUNDAMENTAL RIGHTS

In the Indian Union the rights of Indian citizenship are given to 1. One who is born in India, 2. Either of whose parents were born in India, and 3. Who has been a resident of India for five years. Provision is also made for persons who are affected by the partition of the sub-continent.

Details were filled in by the Citizenship Act of 1955 which also provides for the termination and deprivation of citizenship under certain conditions. The Act also empowers Government to extend the rights of citizenship to any country in the Commonwealth and the Republic of Ireland on a reciprocal basis.

Certain fundamental rights are guaranteed to every citizen for the first time. All citizens are equal before the law and no discrimination is made on grounds of religion, sex, caste, etc. All citizens have equal opportunities.

Freedom of speech and expression is guaranteed, and the right to hold meetings (without arms), to form unions and associations, to move freely in India and to reside in any part, to acquire property and to practise any profession are also assured under the Constitution.

Life and personal liberty are protected under the law, and there will not be punishment for the same offences more than once. Preventive detention is also forbidden except in certain cases.

Children under the age of 14 will not be allowed to be employed in factories and forced labour like *begar* is prohibited.

India is a secular State and as such there is freedom of conscience. Citizens are allowed to profess, practise and propagate any religion; and the State will not ordinarily interfere in religious questions. The minorities are assured of cultural and educational rights.

The State can acquire compulsorily property for public purposes, but compensation may be paid to the owner of the property concerned although questions relating to the quantum of compensation are not justiciable. But property may also be acquired without compensation in certain cases.

All titles, except military or academic, are also abolished, though honours for meritorious service may be conferred.

Untouchability is abolished.

These fundamental rights can be enforced by the Supreme Court which has the authority to issue prerogative writs such as *Habeas corpus*, *certiorari*, *prohibition*, etc.

In respect of the Defence Forces, however, Parliament has power to legislate on these fundamental rights.

It must also be pointed out that some of these fundamental rights can be suspended in case of emergency, and the remedies available for their enforcement may also be suspended by an order of the President.

There are also certain Directive Principles in accordance with which the State has to direct its policy. These principles are of a recommendatory character and cannot be enforced in a court of law. However the State is expected to look upon them as a kind of touch-stones for its policy and action.

These principles include organization of village panchayats, provision for just and humane conditions of work, maternity relief, a uniform civil code for the citizens, provision for compulsory and free education of children and separation of judiciary from executive.

There are special provisions to safeguard the interests of two groups—The Anglo-Indians and the Scheduled Castes and Tribes.

The Scheduled Castes and Tribes have special representation in the legislatures of the country (see separate articles on the Scheduled Castes and Tribes). In certain tribal areas there are autonomous administrative bodies.

As for Anglo-Indians the President may nominate not more than two members of the Anglo-Indian community to the Lok Sabha if he thinks that the community is not adequately represented. Similar power is given to the Governor of a State.

The claims of the Scheduled Castes and the Scheduled Tribes are to be considered in making appointments to services, and for two years after the commencement of the Constitution the Anglo-Indians were to have the same proportion in the services as they had immediately before 15th August 1947. This reservation is to be progressively reduced by 10 per cent every two years in such a way that it is to cease completely ten years after the commencement of the Constitution.

In fact all reservation including reservation of seats for Scheduled and Tribal classes are to cease ten years after the commencement of the Constitution.

A special officer for the Scheduled Castes and the Scheduled Tribes has been appointed.

UNION EXECUTIVE

The executive head of the Indian Union is the President. He is elected by the elected members of the Houses of Parliament and the Legislative Assemblies of all the States. His term of office is five years, and he is eligible for re-election.

Only a person who is a citizen of India and has completed the age of thirty-five years is qualified to contest the election.

He is the Supreme Commander of the Armed Forces.

He has the power to grant pardons or remission of punishment.

The President is entitled to the use of an official residence without payment of rent, and a salary of Rs. 10,000 per month and allowances. Provision has also been made by an Act of Parliament for a pension of Rs. 15,000 per annum.

The President has the power of summoning, proroguing and dissolving Parliament. At the commencement of each session he addresses both Houses of Parliament assembled together. He has the right of sending messages to Parliament and sending back a Bill presented to him for his consent. This power however can be used by him only once.

The President has legislative powers under certain circumstances. When neither of the Houses of Parliament is in session and the President is satisfied that circumstances exist which make immediate action necessary he may promulgate an ordinance.

Such ordinance must be put before both the Houses of Parliament and will cease to operate at the expiration of six weeks from the reassembly of Parliament.

The President can also declare emergency if he is satisfied that the security of India or any part thereof is threatened either by war or internal disturbances when the legislature is in session. Such a proclamation would give additional powers to the Union executive and the Legislature.

The Judges of the Supreme Court and the High Courts, the Attorney-General of India and the Comptroller and Auditor-General of India are all appointed by the President. The heads of the Part A States, i.e., Governors are also appointed by the President.

The President has the power of appointing ambassadors abroad and receiving diplomatic representatives of foreign States.

The President places a number of annual reports before Parliament: the Annual Financial Statement, the report of the Auditor-General of India relating to the accounts of the Government of India, the annual report of the Union Public Services Commission and the report of the Special Officer for Minorities.

All executive action of the Government of India is taken in the name of the President and it is the duty of the Prime Minister to communicate to the President all decisions of the Council of Ministers.

Provision is made for the impeachment of the President, by Parliament, for violation of the Constitution. If such a resolution is passed by a majority of not less than two-thirds of the total membership, such a resolution has the effect of removing the President from office.

In the exercise of his functions, the President has the aid and advice of a Council of Ministers, with the Prime Minister at the head of it. The President appoints the Prime Minister and other Ministers are appointed on the advice of the Prime Minister.

The Council of Ministers is collectively responsible to the Lok Sabha (the Lower House). Every Minister must be a member of either House of Parliament, and he is required to take an oath of office and secrecy.

The salaries and allowances of Ministers are determined by Parliament.

There is a Vice-President of India, who is ex-officio Chairman of the Rajya Sabha (the Upper House). The Vice-President acts as President during a casual vacancy in the office of the President. He is elected by the members of both Houses of Parliament and his term of office is five years.

UNION PARLIAMENT

The Parliament consists of the President and two Houses known as, as already mentioned, the Lok Sabha and the Rajya Sabha. It must meet at least twice a year. The maximum strength of the two Houses is fixed at 250 (12 nominated) for the Rajya Sabha and 520 for the Lok Sabha (not more than 500 from the States and 20 from the Territories).

In April 1958 the Rajya Sabha had a total strength of 232. Of these members 12 were nominated by the President.

In April 1958 the Lok Sabha had a total strength of 505. Of these members 11 were nominated.

The Rajya Sabha is elected by the elected members of the Legislative Assemblies of the States, while the Lok Sabha is elected directly by the voters in the country.

In the case of the Part C Union Territories of Himachal Pradesh, Tripura, and Manipur, the Territorial Councils form the electoral colleges for the election of members to the Rajya Sabha from these Territories. The electoral college for the Territory of Delhi consists of persons who were members of the Delhi Legislative Assembly immediately before the 1st November 1956.

The elections to the Lok Sabha are based on adult suffrage and joint electorates. There is no reservation of seats for any group except Scheduled Castes and Scheduled Tribes.

The representatives of Jammu and Kashmir in the Lok Sabha are appointed by the President on the recommendation of the legislature of the State.

The Rajya Sabha is a permanent body with one-third of its members retiring every second year. The Vice-President of the Union is also the Chairman of the Rajya Sabha. The Rajya Sabha has also a Deputy Chairman.

The Lok Sabha has a duration of five years, ordinarily. There is a Speaker and a Deputy Speaker of the House both of whom are elected by its members.

All these posts carry a salary and allowances. Under certain circumstances, the members can be disqualified and their seats declared vacant.

Money Bills can be introduced only in the Lok Sabha. The Rajya Sabha can only return a Bill with its recommendations to the Lok Sabha within a period of fourteen days of its receipt. Bills passed by Parliament are submitted to the President for his assent. Only on such assent being given does the Bill become law.

The language used in Parliament is either Hindi or English.

The distribution of seats in the Rajya Sabha is as follows:

Andhra Pradesh 18; Assam 7; Bihar 22; Bombay 27; Kerala 9; Madhya Pradesh 16; Madras 17; Mysore 12; Orissa 10; Punjab 11; Rajasthan 10; Uttar Pradesh 31; West Bengal 16; Jammu and Kashmir 4; Delhi 3; Himachal Pradesh 2; Manipur 1; Tripura 1; Total—220.

The President has nominated 12 members. Thus the total of elected and nominated members is 232 (Dec. 1958).

The allocation of seats in the Lok Sabha is as follows:

Andhra Pradesh 43; Assam 13; Bihar 53; Bombay 66; Kerala 18; Madhya Pradesh 36; Madras 41; Mysore 26; Orissa 20; Punjab 22; Rajasthan 22; Uttar Pradesh 86; West Bengal 36; Jammu and Kashmir 6; Delhi 5; Himachal Pradesh 4; Manipur 2; Tripura 2.

The President has nominated one member each for the Andamans and the Laccadives and two to represent the Anglo-Indian Community.

As mentioned above the six members from Jammu and Kashmir are also nominated by the

President on the recommendation of the State legislature.

SUPREME COURT

The Supreme Court of India consists of a Chief Justice of India and not more than ten other Judges. The appointments are made by the President. The salary of the Chief Justice is Rs. 8,000 per month and of the other Judges Rs. 4,000 per month.

The Judges could hold office till the age of 65.

For purposes of constitutional law the Supreme Court has exclusive original jurisdiction in any dispute (a) between the Government of India and one or more States, (b) between the Government of India and one or more States on one side and one or more other States on the other, (c) between two or more States only in so far as the dispute involves any question on which the existence of a legal right depends.

The Supreme Court has also jurisdiction both appellate and original in matters which involve a substantial question of law as to the interpretation of the constitution.

An Attorney-General for legal advice and a Comptroller and Auditor-General of India for audit and accounts are appointed by the President. The Attorney-General has the right to appear in all courts in India.

STATE GOVERNMENT

The 13 Part A States have Governors at their heads, five Part C Union Territories have Chief Commissioners at their head, the head of the sixth, Himachal Pradesh, is designated Lieutenant-Governor, and the Part B State of Kashmir has a Sadr-i-Riyasat (President).

The States and Union Territories are grouped into geographical zones, and for each zone there is a Zonal Council, which is an advisory body.

These came into existence as part of the scheme relating to the reorganization of States embodied in the States Reorganization Act of 1956.

Zonal Councils

There are five zones: Northern zone (Punjab, Rajasthan, Kashmir, Delhi and Himachal Pradesh); Central zone (Uttar Pradesh and Madhya Pradesh); Eastern zone (Bihar, West Bengal, Orissa, Assam, Manipur and Tripura); Western zone (Bombay and Mysore); Southern zone (Andhra Pradesh, Madras, and Kerala and also Mysore as a permanent invitee).

Each Zonal Council consists of a Union Minister to be nominated by the President, the Chief Minister of each of the States in the Zone and two other Ministers of each State. The two Ministers are to be nominated by the Governor of the State. In the case of Kashmir by the Sadr-i-Riyasat. If there is no Council of Ministers in a State the three members from that State will be nominated by the President. In the case of a Part C Territory there will be only two members and they will be nominated by the President.

The Union Minister is to preside over the meetings.

The Union Minister nominated by the President at present happens to be Mr. Govind Vallabh Pant, the Home Minister.

The Council will normally meet by rotation in the States included in the Zone.

The idea in constituting Zonal Councils is to develop the habit of cooperative working and to arrest the growth of particularist trends like regionalism and linguism.

It would also help in encouraging cooperation among the States in the execution of major development projects.

The Councils may discuss matters of common interest and more especially problems arising out of the reorganization of States such as border disputes, linguistic minorities, inter-State transport and also economic or social planning—and advise the Central or State Governments on the action to be taken in such matters.

All questions at meetings will be decided by a majority of the members present.

The proceedings of every meeting of a Zonal Council have to be forwarded to the Central Government and the States Governments concerned.

Wherever there is a problem in which States of more than one Zone have a common interest it will be discussed at a joint meeting.

The joint meeting will be held at such time and place as the Chairman may decide. The rules of procedure at these meetings will be framed by the Central Government.

The office of each Zonal Council has been located as follows :

North Zone—New Delhi, Central Zone—Allahabad, Eastern Zone—Calcutta, Southern Zone—Madras, Western Zone—Bombay.

The administrative expenses of the office, except the salary and allowances of the Secretary will be borne by the Central Government.

The Governor of a State is appointed by the President. Executive power is vested in the Governor who is appointed for a term of five years, ordinarily. Only a citizen of India and one who has completed 35 years of age, is eligible for such an appointment.

The Governor, like the President has power to grant pardon, etc. He will have a Council of Ministers to aid and advise him. The Governor also appoints an Advocate-General for the State.

Ten States, Andhra Pradesh, Bihar, Bombay, Kashmir, Madhya Pradesh*, Madras, Mysore, Punjab, Uttar Pradesh, West Bengal have two Houses of Legislature; the others, only one. The two Houses are called the Legislative Assembly (sometimes Vidhan Sabha) and the Legislative Council (sometimes Vidhan Parishad). The former has a duration of five years, while the latter is a permanent body with one-third of the members retiring every second year.

The minimum strength of an Assembly is 60 and the maximum 500.

The minimum strength of a Council is 40, and the maximum one-third of the State Assembly.

The Legislature must meet at least twice a year. While the Assembly consists of members who are directly elected from territorial constituencies, the Council consists of members nominated by the Governor, elected by the Assembly and of representatives of local bodies and special interests.

The number of seats in the Legislative Assembly and the Legislative Council is as follows (the first figure shows the number of seats in the Assembly, and the second in the Council):

Andhra Pradesh: 301, 0; Assam: 108,—; Bihar: 318, 96; Bombay: 297, 108; Kashmir: 100, 36; Kerala: 126,—; Madhya Pradesh: 288, 90; Madras: 208, 63; Mysore: 208, 63; Orissa: 140,—; Punjab: 154, 51; Rajasthan: 176,—; Uttar Pradesh: 430, 108; West Bengal: 252, 75.

The total number of seats in the Territorial Council of Himachal Pradesh is 41, of Manipur 30 and of Tripura 30.

About the Kashmir Assembly it may be mentioned that 25 seats are now vacant waiting to be filled in by members from that part of Kashmir now under occupation by Pakistan troops.

The effective strength of the Assembly is 75.

The right of summoning, proroguing and dissolving the legislature is vested in the Governor, who addresses the legislature at the commencement of each session.

Like the Parliament there is a Speaker, a Deputy Speaker, a Chairman and a Deputy Chair-

man for the Legislative Assembly and the Legislative Council respectively. These officers of the legislatures are entitled to salary and allowances.

The language in the legislature can be either Hindi or English or any other language allowed by the Speaker.

The State Legislatures cannot discuss the conduct of any judge of the Supreme Court or of a High Court in the discharge of his duties.

As the Governor is a part of the legislature, he has certain legislative powers. He can promulgate ordinances during the recess of the legislature; such ordinances must be placed before the legislature and cease to operate at the expiration of six weeks from the re-assembly of the legislature.

The salary of the Governor is Rs. 5,500 per month and he is also entitled to certain allowances.

If the government of a State cannot be carried on in accordance with the provisions of the Constitution, and the Governor makes a report to that effect to the President, the President may by proclamation assume to himself all or any of the functions of the Government of the State. He may also declare that the powers of the State legislatures shall be exercised by Parliament, and suspend any provision of the constitution relating to the State.

However, he cannot assume to himself, or suspend any of the provisions of the Constitution relating to High Courts.

UNION TERRITORIES

In accordance with the provisions of the Territorial Councils Act of 1950 three Part C Union Territories namely, Himachal Pradesh, Manipur and Tripura have Territorial Councils.

The Councils are elected directly from territorial constituencies on the basis of adult suffrage. They will deal with local affairs such as education, public health, roads and bridges and transport generally, panchayats, local works, animal husbandry.

A Council will meet at least once in two months. The Administrator of the Territory may attend and address a meeting of the Council. When he attends any such meeting he will preside over it.

For every Territorial Council there will be a chief executive officer appointed by the Administrator. There may also be other staff.

The Council can levy taxes on professions, trades, callings and employments and tolls on bridges and fix school fees. The taxes have to be approved by the Central Government before they become effective.

The Council has the power to borrow money with the approval of the Central Government.

The budget estimates of the Territory will be presented by a Finance Committee of the Council. The budget estimates finally adopted by the Council in the light of the suggestions made by the Administrator will be the budget of the Territorial Council.

The Central Government may pay to a Territorial Council the net proceeds of the following taxes attributable to the area under the Council's jurisdiction:

Entertainment tax; a certain percentage of the land revenue not exceeding 10; tax on motor vehicles; taxes on passengers, goods, terminal tax.

The Central Government may also make such grants as it thinks fit.

The Administrator will have the right to give directions to the Council in regard to matters connected with education.

The Administrator can also suspend the execution of a resolution or order of the Council or prohibit any action on grounds that it is likely to lead to a breach of the peace or cause annoyance or injury to the public or to any

class or body of persons. But in such cases he has to send a report to the Central Government together with explanations offered by the Council. The Central Government may then confirm, modify or rescind the Administrator's order.

The Central Government may on the report of the Administrator supersede a Territorial Council for incompetence, negligence of duty or abuse of power. In such cases a new Council will have to be elected within a period of one year.

The Central Government has the power to make rules for the purpose of carrying out the provisions of the Act, to regulate the conduct of business of the Council; regulate the employment, payment, suspension of officers and servants of the Council; the keeping of accounts.

Such rules framed by the Central Government have to be laid before Parliament for not less than thirty days, and have to be approved by it.

Any bye-laws made by the Council in regard to matters over which it has jurisdiction have to be confirmed by the Central Government. These laws are liable to alteration by the latter authority.

On the day the Territorial Council was established all Zilla Panchayats in Himachal Pradesh stood abolished, and the liabilities and assets accrued to the Council.

The strength of the Territorial Council of Himachal Pradesh is 41, of Manipur 30 and of Tripura 30. Of the 41 seats in the Himachal Council 12 are reserved for the Scheduled Castes.

The Central Government has the authority to nominate two persons who are not in the service of Government, to a Territorial Council.

For the Part C Union Territory of Delhi there is established an Advisory Committee which will be associated with the Minister of Home Affairs who is responsible for the administration of Union Territories. This Committee consists of all members of Parliament representing Delhi, the Chief Commissioner of Delhi, the Vice-Chancellor of the University of Delhi, the President of the Delhi Municipal Committee and the Senior Vice President of the New Delhi Municipal Committee.

As regards Andaman and Nicobar Islands (Part C Territory), the President makes rules and regulations for the peace and good government of the State, and appoints a Chief Commissioner for administration. The President has the power of making regulations which have the effect of amending or repealing an Act of Parliament.

NEFA and the Naga Administrative Units are administered by the Governor of Assam, who acts as the agent of the Union Government.

The Governor of Assam has an Adviser for NEFA and an Administrator for the Naga Unit.

It may be mentioned here that the tribal areas of Assam have a special status. The Governor of Assam administers them on behalf of the President and can set up councils for districts and regions. These councils have powers of legislation about disposition of land, inheritance of property, marital and other social customs. They can set up and administer courts, schools, dispensaries and markets. They can collect certain specified taxes.

These areas are often referred to as the autonomous districts of Assam.

There is a High Court for each State and a Judicial Commissioners' Court each for the Union Territories of Himachal Pradesh, Manipur and Tripura.

The salary of a Chief Justice of a State is Rs. 4,000, and of a High Court Judge Rs. 3,500.

The highest court for Delhi is the District Court. Appeals from here go to the Punjab High Court, a circuit bench of which sits in Delhi. For Andamans, the highest court is the Chief Commissioner's Court. Appeals go to the Calcutta High Court.

* The Council has not been set up at the time of writing (March 1959).

† Now Superseded by the Corporation.

FINANCE

The financial relations between the Union and the States are as follows:—There is a Consolidated Fund of India and a Consolidated Fund of each State, and all money received is credited to the public account of India or the public account of the State as the case may be. Provision is also made for the establishment of a 'Contingency Fund of India' and a 'Contingency Fund of the State.'

Certain duties and taxes are levied and collected by the Government of India, such as duties in respect of succession to property, terminal taxes, taxes on railway fares and freights, etc. But the net proceeds are assigned to the States, in accordance with such principles of distribution as formulated by Parliament. Certain other taxes, like income-tax are levied and collected by the Government of India, but are distributed between the Union and the States.

These matters are fixed in accordance with the recommendations of a Finance Commission appointed for the purpose.

No moneys can be appropriated out of the Consolidated Fund of India or of a State except in accordance with an Appropriation Act by the appropriate legislature.

The property of the Union is exempt from the taxes imposed by a State, and the property and income of States are exempt from Union taxation.

The privy purse sums of the Rulers are a charge on the Consolidated Fund of India, and these sums are to be exempt from taxes on income.

OFFICIAL LANGUAGE

Hindi in the Devanagari script is the official language of the Union and the form of numerals is the international form of the Indian numerals. The English language, however, will continue to be the official language for a period of not more than fifteen years from the commencement of the Constitution.

The official language of the Union, i.e., English will be used for communication between the Union and a State or between one State and another. However, if two States agree Hindi may be used instead of English between them.

All proceedings in the Supreme Court and High Courts, the texts of Bills and Acts passed by the legislatures and ordinances promulgated by the appropriate authorities are to be in the English language, until Parliament by law provides otherwise.

By previous consent of the President proceedings in a High Court may be conducted in Hindi or any recognised State language but judgments, decrees or orders passed by the court must be in English.

It is the duty of the Union Government to promote and spread the Hindi language. The vocabulary for the development of the language is to be drawn primarily from Sanskrit.

The States have been given the liberty of adopting any one or more languages used

in their territory or Hindi as the official language of the State.

The following languages are recognised by the Constitution: (1) Assamese, (2) Bengali, (3) Gujarati, (4) Hindi, (5) Kannada, (6) Kashmiri, (7) Malayalam, (8) Marathi, (9) Oriya, (10) Punjabi, (11) Sanskrit, (12) Tamil, (13) Telugu, (14) Urdu.

A commission was to be appointed by the President, at the expiration of five years from the commencement of the Constitution, to make recommendations to him, as regards the progressive use of the Hindi language for official purposes of the Union, and other allied matters.

The Commission so appointed has now published a report.

EMERGENCY PROVISIONS

If the President is satisfied that a grave emergency exists, and the security of India or any part thereof is threatened either by war or internal disturbance, he may make a declaration to that effect. Such proclamation must be approved by both the Houses of Parliament, before the expiration of two months, otherwise it ceases to operate at the end of that period. As a result of this proclamation Parliament will be authorised to legislate on items included in the State list and the President, to issue directions to the Governor. Parliament can validate such a proclamation for a period of three years which is the maximum.

A request for a declaration of emergency may also come from a State authority.

This, however, would not be applicable to the functions of the High Courts. Somewhat similar provision is also made for financial emergency.

AMENDMENT OF THE CONSTITUTION

For purposes of amendment the items are divided into three classes with a different procedure for each class.

For amendment of the provision with respect to the Supreme Court and the High Courts, the distribution of legislative powers between the Centre and the States, the representation of the States in Parliament, etc., the amendment must be passed by both the Houses of Parliament by a majority of the total membership of the House and by a majority of two-thirds of the members present and voting, and must further be ratified by the legislatures of not less than one-half of the States.

In other cases no reference to the State legislatures is necessary. Parliament by itself can amend the Constitution in the manner mentioned above. In some cases amendments can be effected even by a bare majority such as is required for the passing of any ordinary law.

There were seven amendments to the Constitution from the coming into force of the Constitution on 26th January 1950 to the end of December 1958.

The Constitution (First Amendment) Act, 1951 aimed among other things at enabling the State

to make special provision for the advancement of socially and educationally backward classes. It also gave the State broader powers to restrict freedom of speech and writing in the interests of friendly relations with foreign States, public order, decency, morality and in relation to defamation or incitement to an offence.

Two new articles were added after Art 31 to save the laws relating to the acquisition of estates and the validation of certain land reforms Acts and Regulations passed by certain States. These Acts were specified in an extra Schedule added to the list, the Ninth Schedule.

The Articles affected by the First Amendment were 15, 19, 85, 87, 174, 176, 341, 342, 372 and 375. It added two new Articles 31A and 31B and a new Schedule, the Ninth Schedule.

The object of the Constitution (Second Amendment) Act, 1952 was to make adjustments in the representation in the Lok Sabha consequent on the completion of the 1951 census. The Article affected was Article 81.

The Constitution (Third Amendment) Act, 1954 changed entry No. 33 in the Concurrent List in the Seventh Schedule by adding food-stuffs, cattle fodder, raw cotton and jute whose production and supply could be controlled by the Centre if necessary.

The Constitution (Fourth Amendment) Act, 1955 enables the State to acquire private property compulsorily for a public purpose and bars any reference about the quantum of compensation fixed by the legislature to a court of law. Also, the temporary taking over of private property* in the public interest or to secure better management is excluded from the compensation clause. Laws providing for State monopolies are also saved from invalidation. Seven new entries were made to the Ninth Schedule.

The Articles affected were 31, 31A, 31(2) and 305.

The Constitution (Fifth Amendment) Act, 1955 merely fixed a time for State legislatures to give their opinion on Central laws affecting the area, boundary etc. of the State concerned. The Article affected was 3.

The Constitution (Sixth Amendment) Act, 1956 added a new entry in the Union List in the Seventh Schedule, thus giving the Centre authority to legislate on the taxes, on the sale and purchase of goods in the course of inter-State transactions.

The Constitution (Seventh Amendment) Act, 1956 dealt with a whole host of problems thrown up by the reorganisation of the States, such as the alteration of State boundaries, the creation of new States, the classification of certain areas as Union Territory, the allocation of seats in the Rajya Sabha, the provision of a bicameral legislature for certain States. Other points the Amendment dealt with are the original jurisdiction of the Supreme Court, the High Courts and safeguards for linguistic minorities.

Some articles affected were 1, 80, 81, 82, 131, 168, 216, 217, 220, 222, 224 and the First Schedule and the Fourth Schedule. Four new Articles 290A, 350A and 350B and 372A were added.

* without affecting ownership.

PUBLIC SERVICES

EMPLOYEES of the Central Government numbered 14,07,387 in November 1957. Out of these about 10 lakhs were railwaymen.

Category-wise the figures were: Class I—12,556, Class II—18,532, Class III—7,51,635 and Class IV—8,24,664.

On an average about 25,000 employees of the Central Government earn a pension every year.

The Constitution provides for the setting up of a Public Service Commission for the Union and for each State. Two or more States may join together to have a common Public Service Commission.

The chairman and members of the Union Public Service Commission and of Joint Commissions are appointed by the President of the Union, while the chairman and members of a State Commission are appointed by the Governor.

A member of the Union Commission holds office for six years or till he is 65 years. A member of a State Commission also holds office for six years but retires earlier on attaining the age of 60.

On ceasing to hold office a member of the Commission is eligible for appointment only as Chairman of the same Commission or of some other Commission but not for any other employment either under the Government of India or the State Government.

The Chairman of the Union Public Service Commission is not eligible for any Government appointment whatever.

A member of a Commission can be removed only by the President on the advice of the Supreme Court.

The Union and State Commissions conduct examinations for recruitment to Government service. The Commissions also advise the Governments on the service conditions of the employees. There is a statutory obligation on a Government to consult the Commission on such questions, and if there are any rules which specifically exempt Government from such consultation these rules should be approved by the legislature.

An annual report of the Commission which also includes a list of cases in which Government did not accept the advice of the Commission together with a memorandum from Government explaining the reasons for the non-acceptance of the Commission's advice on these matters has to be placed before the appropriate legislature.

ALL-INDIA SERVICES

- (i) Indian Administrative Service;
- (ii) Indian Police Service.

With Independence two problems faced the country about Public Services. A large number of British officials left and Muslim officials opted for Pakistan. The gap thus created had to be filled by some sort of emergency recruitment. Out of about 1,000 Civil Servants about 600 are estimated to have left.

The second was to replace the I.C.S. by a new service, an I.A.S.

The first problem was met by setting up an Emergency Recruitment Board in the middle of 1948 which selected the required number of men from both inside and outside the ranks of the permanent services.

The I.A.S. was to serve the same purpose as the old I.C.S. except that it would not provide officials for the judiciary.

The recruitments to both I.A.S. and I.P.S. are made through an All India Competitive Examination. 25 per cent of the senior duty posts in both the cadres are filled up by promotion from the State Civil Service and State Police Service officers respectively. It has also been provided that 15 per cent of the vacancies in the promotion quota can be filled by officers of outstanding merit and ability in the other State Services. The promotions are made in consultation with the U.P.S.C.

During the period 1st September 1957 to 30th September 1958, 64 I.A.S. officers and 66 I.P.S. officers were appointed on the basis of the annual I.A.S., etc. Examinations conducted by the U.P.S.C.

During the same period, 49 I.A.S. officers and 21 I.P.S. officers were appointed by promotion from State Civil Service and State Police Service respectively.

The cadre strength of the I.A.S. and I.P.S. has been increased because of the growing demand of I.A.S. and I.P.S. officers for the Second Five Year Plan.

In order to fill up the gap in the I.A.S., 182 States Services Officers have been promoted to the I.A.S. and 66 of the open market special recruits selected on the basis of the I.A.S. (Special Recruitment) Examination, 1956 have so far been appointed to the I.A.S. under the Special Recruitment Scheme. Some more open market special recruits were expected to be appointed to the I.A.S. under this scheme.

In the case of I.P.S. 48 State Police Service officers have so far been promoted to the I.P.S. under the Special Recruitment Scheme (Dec. 1958).

The I.A.S. and I.P.S. probationers are trained at the I.A.S. Training School, Delhi and I.P.S. Training College at Mount Abu, respectively.

The conditions of recruitment, service, etc. of the two All India Services are fixed by the All India Services Act, 1951 as amended in 1958 to enable the State of Jammu and Kashmir to participate in the recruitment. So far 34 sets of rules and regulations relating to service conditions of these two services have been framed (Dec. 1958).

The present cadre strength of the I.A.S. and I.P.S. is 1,705 and 1,079 respectively (Dec. 1958).

CENTRAL SERVICES

The following are the Central Services:

1. Archaeological Service (Class I).
2. Botanical Survey of India (Class I).
3. Central Engineering Service (Class I).
4. Central Electrical Engineering Service (Class I).
5. Central Health Service (Class I).
6. Central Revenue (Chemical Service) (Class I).
7. Central Secretariat Service:—
 - (a) Selection Grade;
 - (b) Grade I.
 - (c) Grade II.
8. General Central Service (Class I).
9. Geological Survey of India (Class I).
10. Indian Audit and Accounts Service.
11. Indian Defence Accounts Service.
12. Indian Foreign Service (Class I).
13. India Meteorological Service (Class I).
14. Indian Postal Service (Class I).
15. Indian Posts and Telegraphs Traffic Service (Class I).
16. Indian Revenue Service:—
 - (a) Customs Branch (Indian Customs Service, Class I).
 - (b) Central Excise Branch Central Excise Service (Class I).
 - (c) Income Tax Branch (Income Tax Service, Class I).
17. Indian Salt Service (Class I).
18. Mercantile Marine Training Ship Service (Class I).
19. Mines Department (Class I).
20. Overseas Communications Service (Class I).
21. Survey of India (Class I).
22. Telegraph Engineering Service (Class I).
23. Zoological Survey of India (Class I).

To serve the needs of Ministries having industrial undertakings functioning under them, an Industrial Management Pool has been constituted. Recruitment to this Pool will be done by the Union Public Service Commission. At the initial constitution of the Pool its strength is to be 200.

A new service called the Central Legal Service came into being on 1st Oct. 1957. The main function of this Service was to draft legislation and to give advice on legal matters.

Proposals are also under consideration to create other All India Services like a service of Statisticians and another of Economists.

An Act which repeals all existing domicile laws in the country which prescribe a period of residence within a particular State or Union territory for any public employment has been passed by Parliament and was expected to come into force at any time.*

PAY SCALES

The pay scales of some of the more important All-India and Central services are given below:

Indian Administrative Service and Indian Foreign Service.

Junior Scale: 350-400-450-450-500-540-30-600-E.B.-30-870-40-950 (19 years).

Senior Scale: 800 (6th year or under)-50-1,000-80-1,300-50-1,800 (25 years).

Indian Police Service.

Junior Scale: 350-350-380-380-30-590-E.B.-30-770-40-850 (19 years).

Senior Scale: 600 (6th year or under)-40-1,000-1,000-1,050-1,050-1,100-1,100-1,150 (22nd year).

Selection grade: 1,250.

Indian Audit and Accounts Service.

Junior Scale: Rs. 350-350-380-380-30-590-E.B.-30-770-40-850.

Senior Scale: Rs. 600 (6th year or under)-40-1,000-1,000-1,050-1,050-1,100-1,100-1,150.

Junior Administrative grades: Rs. 1,300-60-1,600-1,600-100-1,800.

Senior Administrative grades: Rs. 1,800-100-2,000-2,000-125-2,250.

Indian Postal Service (Class I).

Junior Time Scale: Rs. 350-350-380-380-30-590-E.B.-30-770-40-850.

(Officers under training will draw pay in this time scale).

Senior Time Scale: Rs. 600-40-1,000-1,000-1,050-1,050-1,100-1,100-1,150.

Directors of Postal Services: Rs. 1,300-60-1,600.

Postmaster-General: Rs. 1,800-100-2,000.

Indian Income-tax Service (Class I).

Grade II:

Time Scale: Rs. 350-350-380-380-30-590-E.B.-30-770-40-850.

Grade I:

Time Scale: Rs. 600-40-1,000-1,000-1,050-1,050-1,100-1,100-1,150.

Assistant Commissioners of Income-tax: Rs. 1,000-50-1,400.

Commissioners of Income-tax, Grade II: Rs. 1,300-60-1,600.

Commissioners of Income-tax, Grade I: Rs. 1,800-100-2,000.

SERVICE RULES

The Rules regarding discipline and appeal of Govt. servants have been revised to delete many of the obsolete provisions and to make specific provisions in respect of many points which were previously included only in administrative instructions.

The revised rules, viz. the Central Civil Services (Classification, Control & Appeal) Rules, 1957, were promulgated on 28th Feb., 1957. The issue of these rules has contributed much to expedition in the disposal of disciplinary cases against Government servants.

* States which have amended their rules: Assam, Bombay, Kerala, M.P., Madras, Mysore, Punjab, Rajasthan, U.P. (March 1959).

Under the Central Civil Service (Conduct) Rules, 1955, Government servants are prohibited from taking part in politics, elections, accepting gifts more than of a trifling value, engaging in any private trade or business or undertaking any private employment, contracting bigamous marriage without Government's permission or speculating in investments, borrowing, etc.*

The rules also require Government servants to submit annual returns of their immovable, movable and other valuable property.*

The Home Ministry has announced an amendment to the General Services (Conduct) Rules 1955, declaring that no Government servant shall participate in any demonstration or resort to any form of strike in connection with any matter pertaining to his conditions of service.*

A Rules Revision Committee to simplify the existing Financial and Service Rules has been appointed.

The Home Minister made a declaration in Parliament that there was nothing wrong in a Government official's joining a commercial firm or an industrial undertaking after his retirement provided he had had no official dealings with such firms during his official career.

There was no reason why people who were fit and active and whose technical knowledge and experience were required by the private enterprise in order to step up productivity should not be allowed to serve. He cited instances in the U.S., the U.K. and Russia in support of his declaration.

The statement was made in the course of a discussion on Government policy about retired officials joining private firms.

The Home Minister said he was examining a proposal that even those officers who were not entitled to pension should not be allowed to join private firms for two years after their retirement without the Government's permission.

It had already been laid down that engineers should not take up jobs with contractors and the retired income-tax officers should not practice before officers who had worked under them.

The discussion itself arose from the fact that a retired Chairman of the Railway Board had accepted a job with a private firm.

The criteria which the official set for himself were explained in a letter which he wrote to the Chairman of the Railway Board. This letter was read in Parliament. The criteria are reproduced below as they are interesting and important :

(a) I would not accept a post for which suitable Indian younger than me was available.

(b) My future work must help in creating more gainful employment for Indians.

(c) My activities must be directed towards increasing the productivity of engineering industries.

(d) The organisation I join should enjoy the highest reputation and preferably be one with which I have not had direct dealings in my official capacity while on the Railway Board.

(e) If possible, I should replace a high level non-Indian national in an industrial organisation.

ANTI-CORRUPTION

There is a special police force at the Centre called the Delhi Special Police Establishment to investigate cases of corruption on the part of Central Government servants.

Under Section 5 of the Prevention of Corruption Act, 1947, 'criminal misconduct in the discharge of official duty' has been made an offence and a rule of evidence has also been laid down requiring the court to draw a presumption against a public servant found in possession of assets which are disproportionate to his known sources of income and which he cannot satisfactorily account for.

According to the annual report for 1957-58, cases involving 1,526 Government servants, including 287 gazetted officers, were dealt with by the Union Home Ministry's Special Police Establishment.

Fines imposed in cases decided by courts totalled more than Rs. 1,50,000, the maximum being Rs. 20,000 in the case of a non-gazetted employee.

The longest term of imprisonment awarded was five years.

Among the gazetted officers involved were : 41 engineers; 17 railway officers; 14 military commissioned officers; 10 Directors and Deputy Directors of Supply and Disposals and Food and Agriculture, and 37 other Class I and 54 other Class II officers.

Cases decided by departmental action, according to the Report, increased nearly threefold since 1953, from 115 to 311.

Similarly, the number of cases decided by courts were the highest, i.e., 254 as against 186 in 1956, 133 in 1955, 215 in 1954 and 161 in 1953.

In the calendar year 1958, Ninety-one Government employees, including eleven gazetted officers, were either dismissed or removed from service on charges of corruption. The Officers punished otherwise numbered 265.

A total of 811 corruption cases of different categories was brought to book. Of these 171 were taken to the courts and 335 probed into departmentally.

In 1957 the S.P.E. engaged in combating offences of bribery, corruption, misconduct, misappropriation, cheating, forgery, etc., took up 111 cases of bribery. Nearly 180 cases were of corruption and misconduct, 255 cases were of misappropriation, cheating and forgery, 45 related to breaches in Import Export Regulations, and 272 cases to cheating and forgery in the export-import trade.

Further, 734 initial inquiries were taken up and 511 were completed. Only in 122 cases was no action considered possible while proceedings were initiated in the rest of the 389 cases.

The Report says that nearly 1,000 anonymous and pseudonymous complaints were received by the Special Police Establishment in 1957. More than half were found worth looking into. But, only 50 per cent of them were found to have some substance. Similarly, only 50 per cent of the 1,900 complaints handed in openly had some truth.

Sustained efforts made to collect information regarding corruption and bribery among Central Government servants led to an increase in new cases, from 819 in 1956 to 1,061 in 1957.

This represented an increase of 29.5 per cent over the figures of the previous year.

The Report also refers to the Criminal Law Amendment Act passed in 1957, which has made changes in the law and procedure relating to bribery and corruption to fill the lacunae.

The Act has extended the definition of "public servant" to include employees of statutory corporations, Government companies and such other bodies. Further under this Act, a compulsory minimum sentence of one year is prescribed for persons convicted for criminal misconduct. The fines imposed will be commensurate with the proved or presumed illegal gains of the person convicted.

The Report added that four Inspectors of the S.P.E. were awarded the Police Medal by the President on the occasion of Independence Day and Republic Day. The Inspector General distributed about 30 Commendation Certificates besides granting cash awards to officers and staff for good work.

In the Ministry of Home Affairs an Administrative Vigilance Division has been set up under a Director of the status of a Joint Secretary, and in each Ministry and Department a Vigilance Officer has been appointed who personally deals with all cases requiring disciplinary action.

ORGANIZATION & METHODS DIVISION

The work of the Organization and Methods Division of the Government of India created in March 1954 has had considerable success in promoting speed and efficiency in the disposal of work. Experience revealed that it was not so much the system that was at fault but the way it was worked. Studies were made in selected sections by marking files and tracing their pro-

gress. A number of devices have been adopted to increase speed and efficiency. There is, for instance, a check on the output of work and a record of the cases pending for more than a month. More authority is delegated to the Section Officer than before. In the disposal of important matters either within a Ministry or between two Ministries recourse is had to personal discussion rather than to the routing of files. There is now far less delay in any correspondence with the Union Public Service Commission. A 'Standing Guard File' is now maintained for locating and putting up precedents. Dak is accepted upto the closing hour (previously it was accepted only upto 3 P.M.), and the Section Officer sends only such files up to the under Secretary as he cannot deal with himself.

The O & M Division, in collaboration with the Special Reorganisation Units, has introduced training classes for selected Section officers in the techniques of work study, the purpose of which is to simplify methods and procedures and to measure the output of work in a scientific way.

SERVICE CONDITIONS

Some of the steps recently taken to improve the service conditions of Government servants are :

In regard to pension, gratuity, leave and medical attendance certain disparities existed between class IV and other classes of Government servants. They have now been removed. About 9 lakh class IV employees are expected to benefit from this liberalisation.

The pension scheme has also been liberalised for all classes of Government servants.

All classes of Government servants and members of their families have been allowed travel concession benefits for visiting their home towns once every two years. Government's assistance will be 90 per cent of the railway fare to and fro in respect of distances exceeding 250 miles (100 miles in case of grade IV employees).

In each Ministry and Department of the Government of India, a Welfare Officer has been appointed to conduct welfare activities among the members of the staff and also to look into their personal problems.

The Staff Councils established in 1954 on the model of the Whitley Councils in U.K. are encouraged to hold meetings more frequently and to offer constructive suggestions regarding improvement of administrative machinery and also to seek redress of their grievances.

The Government Staff Welfare Organization has now a scheme of Kalyan Kendras under which wives of class III and IV Government employees will be trained to add to the family's income by doing job work like tailoring, embroidery and knitting in their leisure. The institutes will be opened in the various residential colonies of Government employees, especially in the new ones, to offer theoretical and practical coaching in these handicrafts. In addition, the centres will devote two days in a week to music and dancing.

Wages for the job work done will be fixed by a Committee of technically-qualified hands. Orders from Government offices, schools, hospitals, hostels, etc., will be sought on a regular basis and raw material such as cloth and wool will be obtained at concessional rates from manufacturers.

Six Kalyan Kendras were in existence in the Delhi colonies in Feb. 1959.

They are, however, in the nature of an experiment.

Other benefits to Government servants include advance of pay to employees drawing pay less than Rs. 300 p.m. on the eve of important festivals, overtime allowance to non-gazetted and class IV employees in Delhi, payment of railway fare for families of Government servants who die while in service, family pension, etc.

A Pay Commission has been appointed to examine the principles which should govern the structure of emoluments and conditions of service and other allied matters concerning Central Government employees.

* An amendment was made in March 1959 exempting non-gazetted employees drawing Rs. 500 or less per month. Proselytising activities are forbidden.

PUBLIC SERVICE COMMISSIONS

According to the 1957-58 report of the Union Public Service Commission, the Commission interviewed 8,842 candidates for 2,369 posts. Out of this 2,284 candidates were recommended for various posts and 1,375 placed on the reserve list for likely vacancies in the near future.

In addition, the Commission examined 154 candidates by interview aided by written or practical tests for 25 posts.

The Commission had in September 1958 about \$10 centres for conducting 15 examinations.

Important examinations held were: Indian Administrative Service, etc. Exam.; Engineering Services Exam.; Special Class Railway Apprentices' Exam.; Survey of India Exam.; National Defence Academy Exams.; Military College Exams.; Indian Air Force Exam.; Indian Navy Exams.; Army Medical Corps Exam.; Assistant Supdts. Exam.; Assistant Supdts. (Intelligence Bureau) Exam.; Assistant Grade Exam.; Stenographers' Exam.; Typewriting Tests and Assistants (R.T.E.) Exam. Besides Delhi, the centres were generally located in the States of Uttar Pradesh, Bombay, West Bengal, Andhra Pradesh, Madras, Punjab, Bihar, Assam and Jammu and Kashmir.

There was no case in which the Union Public Service Commission's recommendations had not been accepted by Government.

The Commission concurred in the *ad hoc* recruitment of Army Officers who had retired in 1955 and 1956 to Civil posts for which they may be deemed suitable by the Commission. In the year under report, the scheme was extended to apply to those who had retired before 1955. The Commission recommended during the year 16 officers of this category for appointment to civil posts.

The administrative posts, says the Report, "still continue to have a special charm for many aspirants to Government service and technical and scientific personnel are no exception".

Numerous candidates belonging to the technical services or holding technical posts had, for

instance, applied for the Indian Administrative Service (special recruitment).

The same feature was noticeable in the recruitment to the Industrial Management Pool.

"Obviously", says the U.P.S.C. "It is not in the public interest that technical and scientific personnel, who are badly needed at present in their own line, should feel tempted to go into the administrative line, often at a late stage of their career."

"If the conditions of service in the scientific and technical fields are suitably improved it is possible that the lure of administrative services may lose much of its force."

The Report once again pointed out to the deterioration of standards. According to the remarks of the examiners on the performance of candidates, "the general standard of attainment is going down".

The Commission felt however that possibly some of the deficiencies noticed among the candidates, particularly on the technical side, might very well be made up, if well-planned courses of training were prescribed for the successful candidates during the probationary period for all important appointments.

The Commission also noted that the number of candidates competing at the examinations was becoming disproportionately high compared with the number of posts available.

In the case of the Combined Indian Administrative Service, etc., Examinations the number of candidates appearing at the examinations were presenting a problem. Apart from the difficulty of finding accommodation for so many candidates there was the serious difficulty of finding the number of suitable examiners and ensuring uniformity of standards.

In spite of the rush of applicants, so far as the Joint Services Wing Examinations were concerned, it was found increasingly difficult to secure the requisite number of suitable candidates.

A very large number of those who qualified in the written test did not pass the test conducted by the Services Selection Board of the Defence

Services. In the case of the Navy although the number of vacancies each year was very small, the number who qualified finally was generally even smaller.

The Commission hoped that candidates as well as their parents would themselves weigh carefully the possibility of success and not fritter away their money and energies in the vain pursuit of competing for services for which the candidates were not adequately prepared.

The following is a list of Public Service Commissions in India:

1. Andhra Pradesh Public Service Commission (Hyderabad).
2. Assam Public Service Commission (Shillong).
3. Bihar Public Service Commission (15, Bayley Road, Patna).
4. Bombay Public Service Commission (Bank of India Building, Mahatma Gandhi Road, Bombay).
5. Madras Public Service Commission (Madras).
6. Madhya Pradesh Public Service Commission (Indore).
7. Mysore Public Service Commission (Ballabrooke, Palace Road, High Grounds, Bangalore).
8. Orissa Public Service Commission (Cuttack).
9. Punjab Public Service Commission (Patiala).
10. Kerala Public Service Commission (Trivandrum).
11. Uttar Pradesh Public Service Commission (Allahabad).
12. Rajasthan Public Service Commission (43, Station Road, Jaipur).
13. West Bengal Public Service Commission (Anderson House, Alipore, Calcutta).
14. Jammu and Kashmir Public Service Commission (Srinagar).

The Union Public Service Commission also operates for all Union Administrations.

ADMINISTRATION OF JUSTICE

THE Indian Union though a dual polity has no dual judiciary at all. The Supreme Court and the High Courts form one single integrated judiciary having jurisdiction and providing remedies in all cases arising under the constitutional law, the civil law or the criminal law. This is done in order to eliminate all diversities in remedial procedure.

The writs which for generations ran over the length and breadth of the country in the name of the British Sovereign, are now issued by the Supreme Court of India and the various High Courts in the territory of India. All the laws which existed before independence continue to operate in India as before subject to adaptation and modification made therein. Article 372 of the Constitution provides *inter alia* that, subject to the other provisions of the constitution, all the laws in force in the territory of India immediately before the commencement of the Constitution shall continue in force therein until altered, repealed or amended by a competent Legislature or other competent authority.

Article 13 of the Constitution provides that all laws in force in the territory of India immediately before the commencement of the Constitution, in so far as they are inconsistent with the provisions of the Constitution relating to Fundamental Rights (Part III) shall to the extent of such inconsistency be void.

The State is also deterred from making any law which takes away or abridges the Fundamental

Rights conferred by this Part, and any law made in contravention shall be void to the extent of such contravention (Art. 13 (2)).

Article 14 ensures to all persons equality before the law by providing that the State shall not deny to any person equality before the law or the equal protection of the laws within the territory of India.

The continuity of the existing laws and legal procedure is further ensured by Article 375 under which all courts of civil, criminal and revenue jurisdiction and all authorities and officers continue to exercise their respective functions subject to the provisions of the Constitution.

The indigenous law of India is personal and divisible with reference to the two great classes of the population, Hindu and Muslim. Both systems claim divine origin and are inextricably interwoven with religion, and each exists in combination with a law based on custom. The rules of the Shastras and the Koran have, however, been in some cases altered and relaxed. Instances can be found in the Bengal Sati Regulation Act of 1829, the Indian Slavery Act, 1843, the Caste Disabilities Removal Act of 1850, the Hindu Widows' Remarriage Act, 1856, and some other Acts and Codes like those which remove the civil disabilities of Harijans.

During recent years indeed there has been a determined demand on the part of social

reformers, and various women's organisations in India for an amendment of the Hindu Law so as to bring it into line with progressive social opinion, in consonance with the spirit of the times.

The Draft Hindu Code that was before the provisional Parliament aimed at abolishing the archaic principles of the ancient system of law, the removal of sex and caste disabilities, and generally simplifying, secularising, and modernising the law governing all Hindus, including Lingayats, Buddhists, Jains and Sikhs. But the Code lapsed on account of the dissolution of the provisional Parliament.

The Government of India however introduced piecemeal legislation regarding reforms in Hindu Law.

The following Acts have already been passed: The Hindu Marriage Act 1955, The Hindu Succession Act 1956, The Hindu Minority and Guardianship Act 1946, The Hindu Adaptation and Maintenance Act 1956. The new Hindu code is thus part of the statute book.

In the meanwhile, an opposite tendency has been observable among the Muslims, who by recent legislation have sought to revert to the law of the Shariat, discountenancing the application of Hindu Law and custom to the sections of the Muslim community who as converts from Hinduism had retained Hindu Law in matters of inheritance and succession.

Apart from this, the entire legal system which has hitherto prevailed in the country is in course of time bound to undergo a profound transformation by reason of the withdrawal of British rule and the partition of India. A Law Commission has been appointed by the Government of India for this purpose, and it has already submitted to the Government interim reports on certain laws and administration of justice. It has also submitted its report on the administration of justice.

A summary of this is given at the end of the article.

A demand has been made for the simplification of the procedure and law for the administration of justice.

Accordingly a bill for amending the code of Criminal Procedure was passed. The amendment gives the accused certain new rights. He can now take an oath and give evidence if he so desires.

The Indian Penal Code has from time to time been amended. The rules of Civil Procedure have been embodied in the Code of Civil Procedure. The Code of Civil Procedure was remodelled in 1908 and the Code of Criminal Procedure in 1898. These Codes as amended from time to time are now in force.

SUPREME COURT

Art. 124 of the Constitution provides for the establishment of a Supreme Court of India consisting of a Chief Justice of India and seven other judges. There is provision in law for the appointment in all of 10 other judges. At present there are 11 judges including the Chief Justice. Every judge of the Supreme Court shall be appointed by the President and shall hold office until he attains the age of sixty-five years. In the course of appointment of a Judge the Chief Justice shall always be consulted. Only a citizen of India who has been for at least 5 years a judge of a High Court, or for 10 years an advocate of a High Court, or a person, who in the opinion of the President, is a distinguished jurist, is qualified to be appointed judge of the Supreme Court.

A judge of the Supreme Court is not liable to be removed from his office except by an order of the President passed after an address by each House of Parliament, supported by a majority of the total membership of that House, and by a majority of not less than two-thirds of the members of that House present and voting, has been presented to the President in the same session for such removal, on the ground of proved misbehaviour or incapacity. No person who has held office as a judge of the Supreme Court shall plead or act in any court or before any authority within the territory of India.

The Supreme Court is a court of record with all the powers of such a court including the power to punish for contempt. The seat of the Court is to be in Delhi or such other place as the Chief Justice with the approval of the President may from time to time appoint.

The Supreme Court has exclusive original jurisdiction in any dispute (a) between the Government of India and one or more States; (b) between Government of India and one or more States on the one side and one or more other States, on the other; (c) between two or more States, if and in so far as the dispute involves any question (whether of law or fact) on which the existence or extent of a legal right depends. (Article 131).

The Appellate jurisdiction of the Supreme Court extends over all appeals from any judgment, decree or final order of a High Court, in civil, criminal or other proceedings, if the High Court certifies that the case involves a substantial question of law as to the interpretation of the Constitution. If the High Court refuses such a certificate the Supreme Court may grant special leave to appeal in a proper case (Art. 136). An appeal shall also lie to the Supreme Court from a High Court in civil matters, when the amount or value of the subject matter in dispute is not less than Rs. 20,000 or the High Court certifies the case to be a fit one for appeal to the Supreme Court (Art. 133).

In criminal matters under Art. 134 an appeal lies to the Supreme Court from any judgment, final order or sentence of a High Court, if the High Court has (a) on appeal reversed an order of acquittal of an accused person and sentenced him to death; or (b) has withdrawn for trial before itself any case from a subordinate court and has in such trial convicted the accused person and sentenced him to death; or (c) the High Court has certified that the case is a fit one for appeal.

For purposes of appeals to the Supreme Court, the Judicial Commissioners' Courts are to be considered as High Courts.

Under Art. 136 discretion is given to the Supreme Court to grant special leave to appeal from any judgment, decree, sentence or order, in any matter passed by any Court or Tribunal in the territory of India.

The Supreme Court has also power to review its own judgement (Art. 137).

The jurisdiction and powers of the Federal Court under the existing law are also exercisable by the Supreme Court (Art. 135) including the advisory power to give its opinion on questions of law or fact referred to it by the President (Art. 143).

The law declared by the Supreme Court shall be binding on all courts in the territory of India excepting the Supreme Court itself.

The dual system in the Supreme Court was abolished with effect from January 26, 1955.

Parliament has the power to legislate on the constitution, organisation, jurisdiction and powers of the Supreme Court.

Article 32 of the Constitution guarantees the right to move the Supreme Court by appropriate proceedings for the enforcement of Fundamental Rights; and for the enforcement of such rights the Supreme Court has power to issue directions or orders or writs, including writs in the nature of Habeas Corpus, mandamus, prohibition, *quo warrant* and *Certiorari* whichever may be appropriate.

Power is given to Parliament to enlarge the jurisdiction of the Supreme Court by appropriate legislation (Art. 138).

The royal prerogative to grant pardons, reprieves, respites or remissions of punishments now resides in the President (Art. 72).

Under Art. 348, all proceedings in the Supreme Court and in every High Court in India and the authoritative text of all Bills and Acts of Parliament and the State Legislatures and of all Ordinances promulgated by the President or Governors and of all orders, rules and regulations issued under the Constitution or any law shall be in the English language. If this language is to be replaced by any other language, Parliament must legislate to that effect.

All authorities, civil and criminal in the territory of India, have to act in aid of the Supreme Court (Art. 144). The independence of the judges of the Supreme Court, is secured by charging their salaries on the Consolidated Fund of India, and by prohibiting any discussion on the conduct of the judges in their official capacity.

Some important judgements of the Supreme Court of India in 1958:

(1) In *Mohd. Hanif Quareshi and others v. State of Bihar and others* (1958 S.C.J. Pt. 75) the Supreme Court laid down that a total ban on the slaughter of cows of all ages and calves of cows and calves of the buffaloes male and female, is quite reasonable and valid with the directive principles laid down in Art. 48 of the Constitution of India.

(2) In *Express Newspapers (Private) Ltd. and another v. The Union of India and others* (1958 S.C.J. 1113, the Supreme Court laid down that fixation of 'rate of wages' includes the 'scale of wages' and in such fixation the capacity of the industry to pay is one of the essential circumstances to be considered except in cases of subsistence wages."

HIGH COURTS

Every High Court is a court of record and has all powers of such court including the power to commit for contempt of itself.

Every judge of a High Court is appointed by the President after consultation with the Chief Justice of India, the Governor of the State and the Chief Justice of the particular High Court; and he holds office until he attains the age of sixty years.

A person is not qualified to be appointed a judge of a High Court unless he is a citizen of India and has either held judicial office or practised as an advocate for 10 years in any of the States.

A High Court judge is not liable to be removed from his office except in the manner provided in Art. 124 (4) for the removal of a judge of the Supreme Court of India.

No person who after the commencement of the constitution has held office as a permanent judge of a High Court could plead or act in any court or before any authority in the territory of India except the Supreme Court or other High Courts.

There is provision in the Constitution for the appointment of additional or acting judges.

Power is given to the President in consultation with the Chief Justice of India to transfer a judge from one High Court to any other High Court in India. (Art. 222.)

Article 225 preserves the jurisdiction and powers of the High Courts as they existed immediately before the commencement of the Constitution. Restrictions on the exercise of the original jurisdiction in revenue matters are removed.

Art. 226 gives to every High Court in India power throughout its jurisdiction to issue to any person or authority including Government directions, orders, writs, including writs in the nature of Habeas Corpus, mandamus, prohibition, *quo warrant* and *Certiorari* for the enforcement of Fundamental Rights and for any other purpose. (Art. 226).

The High Courts have powers of superintendence over all subordinate courts and tribunals within their respective jurisdiction.

Legislation affecting constitution and organisation of the High Courts can be passed by Parliament alone.

The Law Commission appointed by the Government of India has offered the suggestion that the powers of the High Courts under Art. 226-227 should be curtailed.

The Commission has also recommended to the Government of India that a High Court should not have Benches. It has also expressed the view that the establishment of tribunals will be necessary in view of the ideal of a Welfare State.

LOWER COURTS

The Code of Criminal Procedure provides for the constitution of inferior criminal courts styled courts of session and courts of magistrates.

Every State, outside the towns of Madras, Bombay and Calcutta, is divided into sessions divisions consisting of one or more districts, and every sessions division has a court of session and a sessions judge, with assistants if need be. These stationary sessions courts are like the English Assizes, and are competent to try all accused persons duly committed, and to inflict any punishment authorised by law, but sentences of death are subject to confirmation by the highest court of criminal appeal in the State.

The jury system has been abolished in Bombay State except in the Greater Bombay area.

Magistrates' courts are of three classes with descending powers. Provision is made and largely utilised in the towns, for the appointment of honorary magistrates. In the towns of Madras, Bombay and Calcutta, Presidency Magistrates deal with magisterial cases and benches of Justices of the Peace or Honorary Magistrates dispose of the less important cases.

Article 50 of the Constitution lays down that the States shall take steps to separate the judiciary from the executive in the public service of the States.

The State of Bombay was the first State to introduce the separation of the judiciary from the executive in public services, by a statute. The Act came into force on July 1, 1953.

There is partial separation in the following States: Andhra, Madras, Punjab, Bihar, U. P., and Kerala. It is not effected by any statute but by rules made by the Government in that behalf.

The Government of West Bengal has announced that it has decided to make the judiciary independent of the executive at all levels.

The constitution and jurisdiction of the inferior civil courts vary. Broadly speaking one district and sessions judge is appointed for each district. As District Judge he presides in its principal civil court. His functions as sessions Judge have already been described.

For these posts members of the Indian Civil Service were mainly selected in the past though some appointments were made from the Provincial Service. Now members of the Bar are recruited. In the majority of cases members of the subordinate judiciary are promoted to the posts of District Judges.

Next come the Subordinate Judges and Munsifs, the extent of whose original jurisdiction varies in different parts of the country.

There are in addition a number of Courts of Small Causes, with jurisdiction to try money suits up to Rs. 500. In the towns of Madras, Bombay and Calcutta where the Chartered High Courts have original jurisdiction, Small Causes Courts dispose of money suits up to Rs. 3,000.

In Bombay and Madras there are also City Civil Courts. The City Civil Court in Bombay has a pecuniary jurisdiction of upto Rs. 25,000.

As Insolvency Courts the Chartered High Courts of Calcutta, Bombay and Madras have jurisdiction in the Presidency towns. In the mofussil similar powers are conferred on the District Courts by the Provincial Insolvency Act of 1920.

There are Coroners only for the Presidency Towns of Calcutta and Bombay. Elsewhere their duties are discharged by the ordinary staff of magistrates and police officers unaided by jurors.

SPECIAL COURTS

Labour Courts and Industrial Courts now exist in most States.

A Labour Court consists of a single judge.

These Courts decide upon disputes regarding (a) propriety or legality of an order passed by an employer, (b) the application and interpretation of standing orders, (c) they also decide disputes referred to them by Government for arbitration. Legality or otherwise of strikes or lock-outs or closure, etc. is also decided by them.

An appeal against the judgment of the Labour Courts lies to the Industrial Court. This court has also original jurisdiction regarding matters referred to it by the Government or by representative Unions. It decides upon questions of law referred to it by Wage Boards and references regarding interpretation of the Act and the Rules. It has power of superintendence over Labour Courts.

The Industrial Disputes Act was passed by the Central Legislature in 1947 for the investigation and settlement of industrial disputes.

Industrial Tribunals were established under this Act. If the conciliation bodies set up under this Act fail to bring about a settlement, the matter is referred to the Industrial Tribunals.

Neither party to a dispute is entitled to be represented by a legal practitioner except with the consent of the other party and by leave of the Tribunal.

Industrial Tribunals are not permanent Courts. Whenever a matter is referred to the Government regarding an industrial dispute the Government appoints one or more persons as Industrial Tribunal to adjudicate upon the dispute.

The Industrial Disputes (Amendment and Miscellaneous Provisions) Act No. 36 of 1956 makes provision for the constitution of the following courts and tribunals:

1. Labour Courts to be constituted by the appropriate Government. A court is to consist of one judge only.

2. Industrial Tribunals. A Tribunal is to consist of one judge only. A person is not qualified to be a member of a Tribunal unless he has been judge of a High Court. The Tribunals will be constituted by the appropriate Government.

3. National Tribunals. These Tribunals will be constituted by the Central Government. Here also a tribunal is to consist of one judge only.

This Act came into force on 1st Sept., 1956.

The Industrial Disputes (Amendment) Act 41 of 1956 and the Dock Workers (Regulation of Employment) Act, 1948, are two other Acts with respect to labour classes.

Administration of labour laws is a divided responsibility. The Central Government has the following organisations for the administration of labour laws. (1) The Office of the Chief Labour Commissioner, New Delhi. (2) The Office of the Coal Mines Welfare Commissioner, Dhanbad. (3) The Office of the Coal Mines Provident Fund Commissioner, Dhanbad. (4) The Office of the Welfare Commissioner, Mka Mines Labour Welfare Fund, Dhanbad and Nellore. (5) The Office of the Chief Inspector of Mines, Dhanbad. (6) The Office of the Chief Adviser of Factories, New Delhi. (7) The Office of the Director-General, Employees' State Insurance Corporation, New Delhi. (8) The Office of the Controller of Emigrant Labour, Shillong. (9) The Office of the Director, Labour Bureau, Simla. (10) The Office of the Central Provident Fund Commissioner, New Delhi.

The State Governments also have their own organisations for the administration and enforcement of labour laws.

Juvenile offenders are tried by the Juvenile Courts. In places where there are no juvenile courts the offenders are tried either by the High Court, or the Court of Session or a salaried Presidency Magistrate or a salaried Magistrate of the First Class.

Legal practitioners are not entitled to appear in any case or proceeding before a Juvenile Court. However the Court may grant permission in exceptional cases.

Probation officers are appointed by the State Government for helping the Court in the discharge of its functions. The powers and duties of such officers are laid down in the rules. Their main duty is to investigate the history of the juvenile offender and offer help to the Court. An appeal against the judgment of a Juvenile Court lies to the Chief Presidency Magistrate in Greater Bombay, and in other places to the Court of Session. If a case is decided by a Presidency Magistrate or a Court of Session the appeal lies to the High Court.

Panchayat Courts (called Nyaya Panchayat) are in existence in many States. The members of the Panchayat Court are elected by the Village Panchayat. Sections 30-44 of the Act lay down rules about the suits that may be tried and the suits that may not be tried by the Court. A Nyaya Panchayat cannot alter or revise its decision. An appeal against a decision of the Nyaya Panchayat lies to the District Judge.

LEGAL OFFICIALS

The Government of India have their own law colleague in the Law Minister of the Union Cabinet. All Government measures are drafted in his Ministry after their substance is decided upon by the administrative departments concerned.

Outside the Cabinet the principal law officers of the Government of India are the Attorney-General and Solicitor-General appointed by the President. At Bombay and Calcutta the Government of India have their own solicitors.

Each of the State Governments has its own Advocate-General.

Article 76 of the Constitution of India says that for the post of Attorney-General the President shall appoint a person qualified to be appointed a Judge of the Supreme Court. It shall be the duty of the Attorney-General to advise the Government of India on such legal matters and to perform such other duties of a legal character as may be referred or assigned to him by the President, and to discharge the functions conferred upon him by the Constitution. In the performance of his duties the Attorney-General shall have right of audience in all Courts in the territory of India. The Attorney-General has a right to take part in the proceedings of Parliament and address it.

Under Article 165 the Governor of each State is authorised to appoint a person qualified to be appointed a Judge of a High Court to be Advocate-General for the State.

The Advocate-General is appointed by the Governor. He has to give advice to the Government of the State upon such legal matters and to perform such other duties of a legal character as may be referred to or assigned to him. He holds office during the pleasure of the Governor. He appears in the Court on behalf of the Government. He is the leader of the Bar and the President of the Bar Council. He is also authorised to take part in the proceedings of the State legislature, if his advice is sought.

In addition to the Advocate-General there is also a Government Pleader in many States. He usually belongs to the Appellate Side of the High Court while the Advocate-General belongs to the Original Side where the High Court has both Original and Appellate Sides. The Government Pleader is assisted by an Assistant Government Pleader and they look after criminal work.

The State Governments have their own law officers, in addition to the Advocate-General and the Government Pleader. The law officer is designated Remembrancer of Legal Affairs. He also works as Secretary to the Legal Department. He is never a practising lawyer, but a Government servant. Usually one of the District Judges is appointed Remembrancer of Legal Affairs.

The Legal Remembrancer drafts Government Bills and gives advice to Government Departments on all legal matters.

Sheriffs are attached to the High Courts of Bombay, Calcutta and Madras.

They are entrusted with the work of preparing jury lists, serving summons and other legal processes. The Sheriff in Bombay is the ex-officio Chairman of the Bombay State Permanent Famine Relief Committee. He can also convene public meetings on behalf of the citizens.

The detailed work of the office is entrusted to the Deputy Sheriff who is an officer of the High Court.

There are Official Assignees in three States—Bombay, W. Bengal and Madras. The appointment is made by the Chief Justice of the High Court concerned.

The duties of the Official Assignee are two-fold, viz. realisation and distribution of the insolvent's estate, and the control of the property of the insolvent and his conduct generally.

A party aggrieved by the decision of the Official Assignee may appeal to the Insolvency Judge of the High Court.

In addition to the Official Assignee, a Deputy Official Assignee may also be appointed. Another officer of the court is the Insolvency Registrar who may be vested with the powers mentioned in section 6 of the Presidency Towns Insolvency Act.

There are two classes of legal practitioners, practising in the Supreme Court. They are Senior Advocates, and other Advocates (popularly known as Junior Advocates).

All Advocates of the Supreme Court are entitled to practise in High Courts. In Bombay and Calcutta an Advocate can appear on the original side only when instructed by an Attorney. An Advocate of a High Court is entitled to practise in the High Court concerned and in all the courts subordinate to it. An Attorney-at-Law if enrolled as an Advocate can also practise in the High Court, except on the original side. He, however, can plead in insolvency and chamber matters.

Pleaders are entitled to practise in the District for which they hold sanads.

In addition to these classes, there are Mukhtars in the States of Assam, Bihar, Orissa, Uttar Pradesh, West Bengal and Rajasthan. In Assam there is one more class of legal practitioners known as Revenue Agents.

The dual system was abolished in the Supreme Court on 26th Jan. 1955.

Formerly official Law Reports were published only in six series—Bombay, Allahabad, Calcutta, Madras and Nagpur. Three more series, Cuttack, Mysore and Rajasthan, have now been added.

These reports contain cases decided by the High Courts and the Supreme Court of India.

In addition to these series a "Supreme Court Reporter" is also published. It contains important decisions of the Supreme Court of India.

Besides these official reports there are a number of private agencies that also bring out reports of the decisions of the Supreme Court and the High Courts. The Law Commission is considering the desirability or otherwise of allowing private series of law reports. Reports are also published of important cases determined by Labour Courts, Industrial Courts and Labour Appellate Tribunals.

HINDU LAW REFORM

A short note on Hindu Law reform is in order as it concerns the welfare of the women of this country.

As a result of increasing consciousness on the part of Indian women of their social and political status, there has in recent years been a move to revise and codify the somewhat vague and contradictory law governing the Hindu home, especially as it affects marriage, divorce, succession to property, etc.

In 1937 the Indian Legislature enacted the Hindu Women's Rights to Property Act. This Act, for the first time, gave to Hindu widows a right to claim a share in the husband's property and demand partition.

Four years later the Government of India set up a Committee to overhaul and codify the Hindu Law. This Committee, which was known as the Rau Committee, drafted two bills dealing with Hindu intestate succession and Hindu marriage.

When the measures came up for consideration by the two Houses of the Central Legislature, a joint committee of the Houses recommended the revival of the Rau Committee with a view to the codification of the entire Hindu Law. Consequently the Rau Committee was revived early in 1944. During 1944-45, the Committee made a tour of the country and elicited public opinion on the proposals embodied in the two measures and on the codification of the Hindu Law as a whole. They gathered evidence from leading lawyers and representative organisations of various shades of Hindu opinion on a draft Hindu Code prepared by them.

During the last five years, the Central and the Provincial Legislatures passed various Acts, which aimed at improving the condition of Hindu women.

The Hindu Marriage Disabilities Removal Act of 1946, legalised marriages between Hindus belonging to the same Gotra or Pravara.

The Hindu Married Women's Right to Separate Residence and Maintenance Act of 1946 enabled a married Hindu woman to claim from her husband separate residence and maintenance on certain grounds.

The Hindu Marriage Validating Act, 1949 removed the caste-barriers from the sphere of marriages and validated even the Pratiloma marriages.

The Child Marriage Restraint (Amendment) Act of 1949 raises the marriage age of girls from 14 to 15 years.

In the State of Bombay, monogamy was made a rule by the Prevention of Hindu Bigamous Marriage Act of 1946, and dissolution of marriages by divorce was allowed under certain conditions by the Bombay Hindu Divorce Act of 1947.

In the state of Madras, there was an Act preventing bigamous marriages and providing for divorce. The Act was called the Madras Hindu (Bigamy Prevention and Divorce) Act.

The Madras Legislature passed the Madras Devadasis (Prevention of Dedication) Act in 1947. This Act puts an end to the unhealthy practice of dedicating Hindu women as 'devadasis' to Hindu deities.

Bombay Hindu Women's Right to Property Act (Extension to Agricultural Land) extended the application of the Hindu Women's Right to Property Act, 1938 to agricultural land also. A similar law was passed in Madras.

Though the Hindu Code Bill was dropped, the Government of India have passed several Acts as already mentioned affecting Hindu Law.

The Special Marriage Act of 1954 repeals the Special Marriage Act of 1872. Though the Act of 1954 is not a part of Hindu Code, it affects Hindus in so far as it provides for civil marriages both for Hindus and non-Hindus.

The Hindu Marriage Act of 1955 came into force on 18th May, 1955. The Act has repealed the following laws :—

1. The Hindu Marriage Disabilities Removal Act of 1946; 2. The Hindu Marriage Validity Act of 1949; 3. The Hindu Divorce Act of 1947 (Bombay Act); 4. The Prevention of Hindu Bigamous Marriage Act of 1946; 5. The Madras Hindu (Bigamy Prevention and Divorce) Act; 6. The Saurashtra Prevention of Hindu Bigamous Marriage Act; 7. The Saurashtra Hindu Divorce Act.

Under the Hindu Marriage Act 25 of 1955, monogamy has become a rule in Hindu Society. Divorce is allowed on certain grounds. Inter-caste marriages are valid.

The Hindu Minority and Guardianship Act (32 of 1955) seeks to regularise the law regarding guardianship.

The Hindu Succession Act 29 of 1956 aims at simplifying the Hindu Law of succession. It does away with the distinction between the Mitakshara and Dayabhaga law of succession. However, special provision is made for regulating succession to the property of intestates governed by Marumakkattayam, Aliyasantana or Mamudri laws of inheritance. The Act creates two classes of heirs, preferential heirs are included in Class I. The Act confers a right to a share on a daughter, a provision unknown to the previous Hindu Law.

The Hindu Succession Act has also made the following changes, which are revolutionary, in the old Hindu Law :

All property held by a Hindu woman is now her absolute property and there are no restrictions on her rights.

The heirs of a deceased Hindu are entitled to get a share even in the undivided interest in the coparcenary property. A Hindu can make a will even of his undivided interest in the coparcenary property.

The Hindu Adoption and Maintenance Act 79 of 1956 was passed in December 1956. Under the Act the adoption of a son or a daughter is permitted. The consent of the wife is necessary for adoption, which is now purely secular in character.

Besides these laws, Parliament has passed two important Acts relating to social reform. The Suppression of Immoral Traffic in Women and Girls' Act (No. 104 of 1956) was passed in December 1956. This Act provides in pursuance of the International Convention signed at New York on 9th May 1930 for the suppression of immoral traffic in women and girls. The Women's and Children's Institutions (Licensing) Act (No. 106 of 1956) was passed in December 1956. This Act provides for the licensing of such institutions and of matters relating to them.

Yet another Act, in social reform is the Probation of Offenders Act. Act 20 of 1958.

The Bombay Legislature has passed an Act for the registration of marriages.

LAW COMMISSION REPORT

A Law Commission to revise the Statute Law of the country and suggest ways and means of improving the system of judicial administration was appointed on Aug. 5, 1955.

The members were :

Mr. M. C. Setalvad (Chairman); Mr. M. C. Chagla, Mr. K. N. Wanchoo, Mr. G. N. Das, Mr. P. Satyanarayana Rao, Dr. N. C. Sen Gupta, Mr. V. K. T. Chari, Mr. Narasu Raju, Mr. S. N. Sikri, Mr. G. S. Pathak and Mr. G. N. Joshi.

The Commission was to function in two sections. The first section consisting of the Chair-

man and the first three members was to deal mainly with the question of the reform of judicial administration. The second was to consist of the other seven members and was to deal with the revision of statute law. The two sections would however work in close co-operation under the direction of the Chairman.

While the section dealing with the revision of statute law submitted periodical reports, the one dealing with judicial administration submitted its full report sometime in the second half of 1956. It was laid on the table in Parliament on 25th Feb. 1959.

In Dec. 1956 the Law Commission was re-constituted for a period of three years to enable it to continue the work of statute revision.

The chairman is Mr. T. L. Venkatarama Iyer, retired judge of the Supreme Court. There will be two whole-time and two part-time members. The Secretary to the Government of India in the Legislative Department, Mr. G. Rajagopal is Secretary to the Commission.

SUMMARY

Below we give a summary of the report of the Law Commission on judicial administration placed before Parliament on 25th February.

While urging the retention of the existing judicial system the Commission has made far-reaching recommendations.

These include the establishment of country-wide panchayat courts, the setting up at the Centre of a Ministry of Justice, a Law Commission, an Indian Judicial Service and the abolition of trial by jury. It has also recommended the replacement of English by Hindi in the world of law at some convenient date in the future, the creation of an all-India bar, the separation of the judiciary from the executive, legal aid to the poor, better pensions for Supreme and High Court Judges, the appointment of whole-time directors of public prosecution in each district and of an *ad hoc* body presided over by the Chief Justice of India to draw up a panel of persons suitable for appointment as judges.

The Commission has adversely commented on the appointment of judges of the High Court and the Supreme Court on communal, regional and other considerations.

In the High Courts "unsatisfactory appointments, made on political, communal and regional or other grounds, have resulted in the diminution of the out-turn of work and contributed to arrears."

In the Supreme Court too "the best talent among the judges of the High Courts has not always found its way to this Court."

"Communal and regional considerations and executive influence (exerted from the highest quarters) have been responsible for some appointments."

While agreeing that in a vast majority of cases of appointments to the High Courts, the procedure laid down under the Constitution had been followed and the concurrence of the Chief Justices obtained, in many unsatisfactory appointments "the Chief Justices have had to surrender their better judgment and yield to the wishes of the Chief Ministers."

The Commission has recommended the amendment of Article 217 of the Constitution to provide that a judge of the High Court should be appointed only on the recommendation of the Chief Justice of the State and with the concurrence of the Chief Justice of India.

Judicial System: The Commission is of the view that the working of the existing judicial system is not unsatisfactory and its abandonment is not desirable. Defects noticed in the existing system could and should be removed. At the same time greater use could be made of simpler procedures such as *nyaya panchayats*.

The Commission does not agree with the suggestion for amendment of Article 136 to restrict the Supreme Court's special appeal jurisdiction, but suggests the setting up of a special tribunal to hear appeals from labour tribunals or the enlargement of the jurisdiction of High Courts for the same purpose. It has also suggested that the Supreme Court should be "more chary of granting special leave freely (in criminal matters) as such a practice has a tendency to affect the prestige of the High Courts."

Recruitment: The Commission has advocated recruitment to the Supreme Court Bench directly from the Bar and the discontinuance of the present practice of appointing the most senior judge as Chief Justice of India or Chief Justice of a High Court.

In the case of the Supreme Court the most suitable person, whether from the Court, the Bar or the High Courts should be chosen while in the case of the High Court the fittest person should be chosen, if necessary from outside. The duties of a Chief Justice require not only a person of ability and experience but also a competent administrator capable of handling complex matters.

Pensions: The Commission has suggested increase in the pensions to be paid to Judges of High Courts and Supreme Courts. While there is no need to raise the retirement age of Supreme Court Judges, that of High Court judges should be raised to 66. Retired judges should not have "Chamber practice" and retired High Court

judges should not be allowed to practise in any court after retirement in view of the increased pensions recommended.

Retired judges of the Supreme Court and High Court should be prohibited from accepting any employment under the Government after retirement except to serve on the Supreme Court Bench as *ad hoc* or full judges as the case may be.

There should be an effort to recruit directly distinguished members of the bar to the Supreme Court Bench and the person so selected should have a tenure of at least ten years in the interests of the stability of the judicial administration. The Chief Justice of India should have a tenure of at least five to seven years.

Arrears: On the question of arrears in the Supreme Court, the Commission is of the view that the file of the Court is being clogged with appeals relating to labour matters. While Article 136 under which such appeals are filed should not be amended, relief should be given to the Supreme Court by enabling parties to file appeals in such matters to High Courts or to a special tribunal constituted for that purpose.

The pendency of cases before the Supreme Court shows an upward trend, but a further increase in the strength of the Court should be deferred for the present. The Commission recommends that in the meantime the Court itself might consider the desirability of instituting a system of preliminary hearing in Article 32 petitions and of enlarging the powers of a single Judge or of a Division Bench to deal with contested interlocutory and miscellaneous matters.

At the High Courts, the Commission is of the view that increase in normal work, expansion of special jurisdiction under various Acts, petitions for the enforcement of the fundamental rights guaranteed by the Constitution, faulty tests adopted by the executive in assessing the necessary judge-strength, delays in filling vacancies and deputation of judges for work other than purely judicial have contributed to the large arrears.

High Court Judges: The permanent strength of High Courts should be re-fixed after taking into consideration the recent increase in their work and the strength so fixed should be reviewed at intervals of two or three years.

The Commission does not think that the present salary of High Court judges is so inadequate as to deter competent men from accepting judgeships excepting perhaps in Calcutta and Bombay. The difficulties in these two places (because of the low salaries offered) could be counteracted by offering judgeships to rising junior members of the Bar at a comparatively early age.

At present an officer of the judicial service with ten years' service is eligible for appointment as a High Court judge even though he might not have actually performed judicial functions for that length of time. The relevant Article of the Constitution should be amended to restrict appointments only to a judicial officer who has exercised judicial functions as a district judge for at least three years.

The standard time for the disposal of second appeals and Letters Patent appeals should be one year, of first appeals two years and of criminal matters, writs and civil revision petitions six months from the date of institution. Cases pending for longer duration should be treated as arrears and additional judges appointed for the sole purpose of their disposal within two years.

JURISDICTION

Courts should work for at least 200 days in a year and judges should sit in the Court and do judicial work for at least five hours every working day. Judges should set an example of strict punctuality on the Bench—the practice of retiring into Chambers for dictating judgments or for doing administrative work during court hours is not desirable.

The setting up of Benches of the High Court at different centres in a State is undesirable.

The High Courts at Calcutta, Bombay and Madras should continue to exercise their ordinary original civil jurisdiction but this should extend only to matters exceeding Rs. 10,800 in value.

The non-appealable limit under Section 102 of the Civil Procedure Code should be raised to Rs. 2,000 and there should be no second appeals in civil suits where the value is below Rs. 2,000 and no right to immovable property is involved.

Letters Patent appeals may be abolished. A single judge hearing a second appeal should, if he finds the question involved in the appeal is important, refer it to a Division Bench.

The appellate jurisdiction of district judges should be immediately raised to Rs. 10,000 and all such appeals now pending in High Courts should be transferred to district courts for disposal.

Disposal of Suits: The Commission is of the view that in regard to the subordinate judiciary and the present arrears of work the existing strength of the judiciary at the level of *muniffs* and subordinate judges was sufficient to deal with current institution of suits. At the level of district judges, the judiciary is so largely deficient in numbers that it is not able even to cope with current institutions. The pendency of old suits is very high in most of the States.

The Commission suggests that a regular contested suit in a *muniff's* court should be dealt with within a year and in a subordinate judge's court within a year and a half. Small cause suits should be disposed of within three months, regular contested appeals in district courts within six months and civil miscellaneous appeals within three months. Criminal cases in magistrates' courts should be disposed of within two months, committal proceedings within six weeks and sessions cases within three months from the date of apprehension of the accused.

Criminal appeals and revisions should be disposed of within two months in the sessions courts and within six months in the High Court from the date of institution.

All matters not disposed of within the period specified should be treated as arrears and special arrangements made to deal with them.

The Commission says that despite repeated attempts by the High Courts, the failure of the State Governments to appoint additional judges to handle the work, which has considerably increased on account of several new Acts coming into force, has resulted in accumulation of arrears.

The strength of the subordinate judiciary should be kept at such a level as to enable it to dispose of all matters within the time-limits suggested by the Commission. The High Courts should carefully examine immediately the requirements of judicial personnel of various classes in the light of the volume of work in the subordinate courts and fix the strength so that it will be sufficient to dispose of the current institutions within the target limits.

Judicial Service: The Commission has made a number of recommendations about the recruitment, emoluments and promotions and conditions of service of the subordinate judiciary. The State Judicial Service should have two Classes—Class I consisting of District Judges or other equivalent posts, Class II comprising two grades of officers, namely, *muniffs* and subordinate judges.

Wherever the judiciary has been separated from the executive, the civil and criminal judiciary should be unified.

Dealing with recruitment to the subordinate judiciary, the Commission has strongly deprecated reservations of special quotas for specified communities. The Commission thinks that the only reservations that could be legitimately made are those in favour of the backward classes. But even these reserved seats should be filled by persons in order of merit from among those who have been subjected to an examination.

The Commission suggests that an All-India Judicial Service should be constituted by an all-India competitive examination open to law graduates on the lines of the I.A.S. examination.

This All-India service should man 40 per cent of the posts in the State Judicial Service Class I. The remaining 60 per cent should be filled in moieties by promotions from the State Judicial Service Class II and by direct recruitment of the Bar.

Promotions in the Judicial Service should be based only on merit and not on seniority. The age of retirement of judicial officers should be raised to 58, but they should not be re-employed under the Government after retirement.

No punishment short of dismissal should be imposed on a judicial officer found guilty of corruption.

While it is not advisable to form anti-corruption committees comprising district judges and members of the Bar to go into the cases of alleged corruption by judicial officers, the High Court should take particular care to scrutinise the reputation of officers for integrity at the time of promotions.

Where the judiciary has not been separated from the executive, the criminal judiciary should be brought under the administrative control of the High Courts.

Pecuniary Jurisdiction: The Commission has suggested vesting of unlimited pecuniary jurisdiction in the subordinate or senior civil judges, raising pecuniary jurisdiction of junior civil judges or munsifs, and vesting in the subordinate judges of jurisdiction under a number of laws like the Succession Act, the Guardian and Wards Act, the Indian Divorce Act, etc. which vest such jurisdiction in the district judges.

PROCEDURE

The Commission has suggested a number of procedural changes in the trial of suits and their appeals in respect of pleadings, service of process, examination of parties, discovery and issues, attendance of witnesses, hearing and delivery of judgments.

As regards civil revision, while the right of appeal against interlocutory orders should not be curtailed, a Rule Xist should be issued only on a careful and strict scrutiny of the revision petition.

The Commission is against suggestions for introducing written arguments in cases as in the U.S.

It suggests that in cases of suits against the Government, the provision in various laws requiring a two-month notice to the Government should be done away with. But if a suit against a Government or a public officer is filed without sufficient notice, the plaintiff could be deprived of his costs if his claims are settled by the Government before issues are framed in the Court.

Administration of justice being one of the primary functions of the State, it is not proper on principle to charge any fees from suitors in courts. But even if fees are charged, the revenue derived should not exceed the cost of administration of justice and should not be a source of profit. Steps should be taken to reduce Court

fees so that the revenue from it is sufficient to cover the cost of the civil judicial establishment.

The Commission thinks that the writ jurisdiction of the High Courts under Article 226 should in no way be curtailed as it provides a cheap, expeditious and effective remedy.

The Commission has recommended amendment of Article 226 of the Constitution to remove the difficulties created by the Supreme Court's interpretation of the Article that a High Court can only issue writs against the authorities within its territorial jurisdiction.

Tribunals: Dealing with the question of administrative tribunals, the Commission thinks that such tribunals should not be conceived of as a device to supplant the ordinary Courts of law. It does not favour the creation of a general administrative body. The existing jurisdiction of the Supreme Court and the High Court which enables them to examine to a limited extent the action of administrative bodies should be maintained unimpaired.

An appeal on facts should be provided to an independent tribunal, presided over by a High Court judge and assisted by a person or persons with administrative or technical knowledge in matters involving judicial or quasi-judicial decisions.

Court Servants: In view of the large number of applications to the High Courts by Government servants seeking redress in service matters through Article 226, appellate tribunals consisting of experienced civil servants as members and presided over by legally qualified chairmen may be established both at the Centre and in the States to deal with memorials and appeals from the Government servants.

Revising Enactments: The Commission has also suggested the setting up of a permanent body or commission, both at the Centre and the States, charged with the task of revising enactments.

Criminal Justice: Dealing separately with the question of criminal justice, the Commission is of the view that there is scope for improvement in the methods of trial and for investing the lower classes of magistrates with larger powers. The system of honorary magistrates could be tried in the States, where it does not prevail, to relieve the regular magistracy from the large number of petty cases.

At the investigation stage there is often considerable delay particularly in the complicated cases. The general quality of investigation is also poor. These defects must be remedied by increasing the police staff, modernising existing methods of investigation, separating investigating officers from the other police, avoiding piecemeal investigation, and providing training in proper methods of investigation and ensuring strict supervision by senior officers.

The work of prosecution should be conducted with the utmost fairness and without any eagerness on the part of the prosecutor to secure a conviction. The work of prosecution should not therefore be entrusted to police officers.

The Commission suggests the extension of the provision in the Motor Vehicles Act, enabling an accused to enter a plea of guilty without appearing in court, to other minor offences under the I.P.C., traffic cases and minor breaches of rules and regulations under various local and minor enactments.

There is large pendency of criminal appeals in most of the high courts and in the sessions courts in many States. To relieve the congestion in High Courts, a single judge may be empowered to hear all criminal appeals except those in which a sentence of death or transportation for life have been imposed. In the Sessions Courts, all jail appeals should be examined outside the Court hours. The present restrictions on rights of appeal should be raised from a fine of Rs. 50 to a fine of Rs. 200.

The judiciary has not been separated from the executive in a large number of States. Separation may be effected by Central legislation.

Legal Education: The Commission has also made recommendations for the improvement of legal education and the Bar. As regards the Bar, the Commission wants early implementation of the proposal for a unified All-India Bar. The employment of touts by lawyers should be made a criminal offence.

Aid to Poor: Legal aid to poor persons and persons of limited means is an obligation of a welfare State and the State should provide the necessary funds to meet this purpose. But the legal profession also owes a moral and social obligation to the poor members of society and should in the main, if not entirely, shoulder the responsibility for the administration and working of schemes of legal aid.

Social Life: The Law Commission has advised judges to remember that their office demands of them "certain reserve and restraint in their social life."

The Commission quotes the practice till very recently when British and Indian judges maintained as a rule "a tradition of isolation and aloofness, declining to mix freely with members of the public and the executive at clubs and other social functions."

The Commission adds: "We have indeed, in recent years, reached what was called 'an extreme position in the other direction' Far from avoiding the 'precincts of Government House', judges have come to treat invitations from Government House as 'commands'. Newspapers tell us of Chief Justices and judges being 'granted' interviews by Ministers."

"The attitude of judges in regard to contacts with the public seems to have completely altered. It has become frequent for judges, newly appointed to the bench, to accept invitations to entertainment not only from representative associations but also from individual members of the bar and even from private citizens."

"It appears to us that such behaviour by the judges must lead to a loss of the high respect in which the judges should be held by the community."

DEFENCE SERVICES

Chief of the Army Staff, General K. S. Thimayya.

Chief of the Naval Staff, Vice-Admiral Ram Das Katari.

Chief of the Air Staff, Air Marshal S. Mukerjee.

THE supreme command of all the Armed Forces of the Indian Republic is vested in the President. Since the attainment of Independence, the Ministry of Defence has become the central agency for formulating and obtaining policy decisions of the Government of India on defence matters and for transmitting them to, and seeing to their implementation by, the three Defence Services Headquarters.

The partition of India in 1947 was an important landmark in the history of the Armed Forces of India. They were divided between the two countries on a communal-cum-optional basis, which worked out to an approximate proportion of one-third to Pakistan and two-thirds to the Union of India. British troops, including the Royal Air Force, were completely withdrawn from India early in 1948.

The nationalisation of the Armed Forces started soon after the partition. In the three Services today only a handful of British technicians are employed on a contract basis. The order of precedence of the Defence Services has been re-arranged as Army, Navy and Air Force.

The total defence outlay on revenue and capital accounts for 1958-59 was estimated at Rs. 305 crores against the revised estimate of Rs. 291 crores during 1957-58 according to the annual White Paper on defence service estimates presented to Parliament. This is an increase of Rs. 80 to 100 crores over the 1956-57 figure and represents for the most part the cost of stores and equipment for the Air Force, Army and Navy in that order.

The foreign exchange component of this expenditure was Rs. 34.23 crores in 1956-57 and estimated at Rs. 77.58 crores in 1957-58 and is Rs. 71.31 crores in 1958-59.

Of the net defence estimate of Rs. 278.14 crores on revenue account for 1958-59, pay and allowances account for Rs. 95.77 crores, transport and miscellaneous charges for Rs. 17.57 crores, stores and equipment (including the expenditure on manufacturing establishments) for Rs. 138.71 crores, maintenance of buildings and installations for Rs. 11.60 crores and pensionary charges for Rs. 14.49 crores.

One head of receipts in the army estimates, which appears to call for scrutiny, is the sale proceeds of surplus and obsolescent stores. This amounted to Rs. 6.19 crores in 1956-57 and is estimated at Rs. 5.35 crores during 1957-58. The budget estimate for 1958-59 under this head is Rs. 5.22 crores.

DEFENCE ORGANISATION

During the British regime, the Commander-in-Chief was not only the Supreme Commander, i.e. head of the three Services, but also the Defence or War Member of the Executive Council, and, as such, occupied a specially privileged position—second only to that of the Viceroy and Governor-General. Since August 15, 1947, each Service has been placed under a separate and independent head, their present designations being Chief of the Army Staff, Chief of the Naval Staff and Chief of the Air Staff.

With the appointment of three Service Chiefs independent of each other, the task of co-ordination of the activities of the three Services has devolved on the Defence Ministry. In order to ensure expeditious handling of work, a network of committees has been established at different levels.

At the top is the Defence Committee of the Cabinet which is, for all practical purposes, the Government so far as the Services are concerned. All important policy questions relating to defence are decided by this Committee, which is presided over by the Prime Minister. Next in importance is the Defence Minister's Committee

which, besides, the Defence Minister, includes the Deputy Defence Ministers, the Defence Secretary, the Financial Adviser (Defence) and the three Service Chiefs.

The Defence Minister is responsible to Parliament for all matters relating to the Defence Services, including appropriation and allotment of funds, correlation of all civil and ministerial activities for purposes of defence and control and direction of research policy.

There are a number of inter-Services organisations, directly administered by the Defence Ministry, dealing with matters of common concern to the three Services. Some of them are the Defence Production Board, the National Cadet Corps, the National Defence Academy, the Defence Services Staff College, the School of Foreign Languages, the Directorate-General of Armed Forces Medical Services, the Resettlement Section, the Indian Soldiers' Sailors' and Airmen's Board, the Combined Inter-Services Historical Section, the Directorate of Military Lands and Cantonments and the Joint Cipher Bureau.

PRODUCTION BOARD

It was with a view to evolving a co-ordinated policy in regard to the production of military stores and equipment and the inspection, research, design and development activities of the three Services that the Government of India set up a Defence Production Board three years ago. With the Defence Minister as its Chairman, the Board is responsible for the proper running of all the Ordnance Factories, including the Machine-Tool Proto-Type Factory. It has under it the Scientific Adviser to the Minister, Dr. D. S. Kothari, and the Controller-General of Defence Production, Maj.-Gen. Pratap Narain, their respective departments being the Research and Development Organisation and the Production and Inspection Organisation.

The Research and Development Organisation was brought into being in January 1958 by the amalgamation of the Technical Development Establishments of the three Services and the Defence Science Organisation to ensure that scientific research played an effective role in production. The head of this new set-up, the Scientific Adviser to the Minister for Defence, is assisted by a Chief Controller and a Chief Scientist.

This re-organisation is intended to bring to the three Services the backing of the country's scientific activity and to secure the maximum utilisation of the available resources.

The R. and D. Organisation, which is closely associated with the P. and I. Organisation, includes technical establishments dealing with weapons, ammunition, military explosives, metallurgy, electronics and optical instruments. It has under it research installations like the Defence Science Laboratory, New Delhi, the Stores Laboratory, Kanpur, the Naval Physical Laboratories at Bombay and Cochin and research-cum-training installations, like the Institute of Armament Studies, Kirkee. Whereas research work is carried on in the laboratories, development work is concentrated at the various technical establishments scattered all over the country. The P. and I. Organisation is so designed as to achieve self-sufficiency in respect of stores required by the Services and has made continuous efforts to establish production of items hitherto imported.

A high-level departmental Committee, called the Defence Production Planning Committee, has been set up to work out a plan for achieving as near self-sufficiency as possible in defence stores.

The Artisan Training School, Ambarnath, plays an important role in training technical personnel for the defence industries.

It was in order to meet the urgent need of training technical staff officers for the Armed Forces that the Government established the Institute of Armament Studies some years ago, as a constituent of the Defence Science Organisation. Apart from training Service officers, the Institute provides facilities for a comprehensive scientific study and research in the performance of weapons and equipment.

Similarly, the two naval laboratories, one chemical and metallurgical and the other physical, were established to deal with science problems relating to the Navy. The former is concerned with anti-corrosion and anti-fouling paints, detection of flaws in materials and castings and welds, while the latter is engaged in research on under-water acoustics, mines and oceanography.

A Psychological Research Wing of the Science Organisation was formed in 1949 under a Chief Psychologist, the main function of which is to conduct research in the assessment of human personality so that the right type of officers may be selected for the Armed Forces.

A Defence Science Service has been instituted which includes all civilian scientists engaged in research, development, inspection or teaching in any of the three Services or in the Ministry of Defence.

ORDNANCE FACTORIES

The Ordnance Factories of the pre-1947 period, were producing only a limited range of conventional weapons. They have, since independence, been considerably enlarged and modernised to raise indigenous manufacture in an effort to make the country self-sufficient in vital supplies.

The Ordnance Factories' Organisation now comprises 19 industrial units scattered all over the country, employing more than two and a half lakh civilian employees and represents, next to the Railways, one of the largest State-owned integrated enterprises.

Before World War II there were only nine Ordnance Factories. Until recently the Ordnance Factories catered primarily for the Army, but during the past few years they have also produced stores for the Navy and the Air Force. These Service items include artillery guns, heavy mortars, naval guns, barrels and recoil system of guns, mountings, carriages and buffers for heavy and medium-calibre guns, light machine-guns and other small arms, bombs, shells and various types of ammunition and high explosives, sea mines, depth-charges, parachutes, service-clothing and mountaineering equipment.

Though primarily geared for the manufacture of highly-specialised armaments and military equipment, the Ordnance Factories, as part of their peace-time functions, are now using all their utilizable spare capacity to cater to the needs of various sections of the community. Wide and varied, their civil trade activities cover the five broad categories of ferrous, non-ferrous, leather and textile, chemical and general engineering. The last category includes scientific, optical and mathematical instruments, sporting arms and ammunition, metal castings and forgings and other miscellaneous articles.

The Machine-Tool Proto-Type Factory at Ambarnath (Bombay), with integrated facilities for the design, development and proto-type fabrication of newer types of armaments, is one of the principal Ordnance Factories. (For further details see under Government Industrial Undertakings.)

The Ordnance Factories manufacture a variety of steel, cast-iron and non-ferrous materials required by industry in various forms. Pioneer work has been done in the manufacture of practically all the steels, ferrous alloys and metal alloys for special purposes. Of the various

types of irons and steels which were hitherto imported, the Ordnance Factories can now supply carbon, nickel, nickel-chromium - molybdenum, austenitic stainless, spring, ball-bearing, high-speed and free-cutting steels, acid-resisting cast-irons and heat-resisting alloy irons. Typical items of non-ferrous metals which can be supplied are de-oxidised and arsenical copper, all types of brasses, high-tensile bronzes, nickel-silver, cupro-nickel and aluminium and its alloys. Long experience in the manufacture of these metals for the Services guarantees the quality of the material and rigid adherence to specifications.

With the peace-time relaxation in the requirements of scientific and optical stores for the Services, the Ordnance Factories have been manufacturing precision instruments of the highest standard of quality and finish for civilian use, including 35-mm sound projectors, film-strip projectors, still-film projectors, photo-enlargers, microfilm readers, pathological, dissecting and student-type microscopes, auto-collimators, prismatic binoculars, splinter-proof goggles and drawing instrument sets.

Initially manufacturing only harness and saddlery items for harnessed cavalry, artillery and other mounted units of the Army, one of the Ordnance Factories is now engaged in producing various miscellaneous items embracing four distinctly separate trades, e.g. leather, textile, wood and engineering. A multifarious variety of high-quality items are manufactured from raw hides for the Services, and, as and when fluctuations in defence needs occur, the flexibility of the set-up permits of production of consumer goods, such as frontier *chappals*, suit cases and brief cases.

The Ordnance Factories' highly-precision machinery, skilled craftsmen and production capacity offer substantial assistance to the Railways by keeping the wheels of traffic constantly moving. The railway stores manufactured by them cover several components of locomotives and wagons, including piston rods, connecting rods, crank-shafts, axles, coupling hooks, resistance grids, light-riding trolley wheels and fog signals. They also produce, among others, jeep engine blocks and heads, steam and diesel road-rollers and their spare parts, oil-exPELLERS, mechanical ploughs, air-conditioning compressors, fuel-gas plant, pressure cookers and small tools, bolts and nuts. The resources of these factories are now being harnessed to produce tractors in the country for the first time.

Among the various types of fire-arms for civil use which the Ordnance Factories produce are rifles and double and single-barrel shot-guns. They also supply to civil industry acetone, nitric and sulphuric acid, benzol, zylol, nitro-cellulose, nitro-benzene, mono-nitro-toluene and oleum. Schemes are also well advanced for the production of other chemicals.

ARTIFICIAL LIMB CENTRE

A modern Artificial Limb Centre was set up by the Central Government at Poona soon after World War II. In 1946, with the arrival of new equipment and machinery from the U.K., it was firmly established and now claims to be the fourth largest institution of its kind in the world.

For some years, the Centre catered only to the needs of the Services. But, since 1951 it has also been taking in civilian patients, whose number has since been progressively on the increase. In recent years, patients from some neighbouring countries, like Ceylon, Iraq, Burma and Indonesia, have also been accepted by it for limb-fitting.

The Centre, which functions under the control of the Director-General of Armed Forces Medical Services, also produces various types of orthopaedic boots and shoes, belts, trusses and spinal braces.

Besides the Ordnance Factories meeting the country's defence requirements, the other important defence industries are the Hindustan Aircraft (Private), Ltd., and the Bharat Electronics (Private), Ltd. at Bangalore.

For detailed notes on Hindustan Aircraft and Bharat Electronics see article 'Government Industrial Undertakings'.

NATIONAL CADET CORPS

The National Cadet Corps came into being in 1948. The aim of the Corps is (1) to develop character, comradeship, ideal of service and capacity for leadership in young men and women, (2) to stimulate interest in the defence of the country, and (3) to build up a reserve of potential officers to enable the Armed Forces to expand rapidly in a national emergency. The organisation is, thus, mainly of an educational and nation-building character. Officers and cadets have no liability whatsoever for active military service. In this way it is different from the Territorial Army, which is designed to serve as a second line of defence.

With the contemplated enlargement of the Cadet Corps under the Second Five-Year Plan, it is expected that a unit of the N.C.C. will be raised in every school and college throughout the length and breadth of the country. Giving, as it did, a background of military training to educated youth and inculcating in them a sense of discipline, the cadet movement caught the imagination of school and college students from the very beginning. It has proved to be the most popular and powerful youth organisation so far as the development of corporate life among students is concerned. Social service has been recognised as an essential feature of cadets' activities. By the end of the Second Five-Year Plan the strength of the Naval Wing of the N.C.C. is expected to be 30 Senior and 305 Junior Division troops compared to the strength in 1958 of 19 Senior and 150 Junior Division troops.

The N.C.C. consists of three divisions: (1) Junior, (2) Senior and (3) Girls'.

The strength of the Corps as on March 31, 1958 was as follows:—

	Officers	Cadets	Total
Junior Division ..	2,378	78,330	80,718
Senior Division ..	1,612	68,633	69,245
Girls' Division ..	515	15,480	15,995

The Senior Division provides Service training to young graduates and recruitment to it is from amongst students of universities and colleges. It is composed of three wings, viz. Army, Navy and Air.

Recruitment to the Junior Division is from amongst students of secondary schools. It is also composed of Army, Navy and Air Wings.

The object of the Girls' Division is to develop all-round personality among girls. This Division has two wings, Senior and Junior, units of the Senior Wing being raised in colleges and those of the Junior Wing in schools.

To cope with the demand for military training for boys and girls in schools who cannot get admission into the N.C.C., an Auxiliary Cadet Corps has been started. This corps has made rapid progress, and its present strength is estimated at 828,000.

The A.C.C. trains the youth of the country in team spirit, discipline and patriotism. It functions under the overall supervision of the Director, National Cadet Corps, Ministry of Defence. Instructors for this organisation are selected from schools and are trained by regular Army staff of the various N.C.C. units.

Ten per cent. of the total intake of commissioned officers in the Army, Navy and Air Forces on the basis of direct entry to the Service training institutions has been reserved for N.C.C. cadets of the three Service wings.

The Air Wing of the N.C.C. has been growing steadily. Glider training has been introduced in a few more air squadrons and in the senior wing of the girls' division of the corps. Two technical squadrons of the N.C.C. were established for the first time in 1958 at Hyderabad (Andhra) and Jorhat (Assam). These are in addition to the 17 air squadrons of the N.C.C. Air Wing.

TRAINING INSTITUTIONS

The important training institutions common to the three Services are given below:

National Defence Academy: The Joint Services Wing of the National Defence Academy was located in Clement Town, Dehra Dun,

where it started functioning as an experimental measure on January 4, 1949. The present location of the Academy is at Khadakvasala near Poona where it started functioning in January 1955. The Joint Services Wing, on its move to Khadakvasala, came to be known as the National Defence Academy. At this Academy, Army, Navy and Air Force cadets receive three years' combined basic training. This three years' course for cadets of all the three Services was introduced at Khadakvasala in July 1955. The first two years are devoted to common preliminary training and the third to specialised training in the three respective Services. Thereafter, Naval and Air Force cadets proceed to their respective Services establishments for advanced training, while the Army cadets join the Military College, Dehra Dun, for a further one-year course.

Commandant, Rear-Admiral B. A. Samson.

Defence Services Staff College: This is located in Wellington in the Nigri Hills in south India. One hundred officers drawn from all the three Services, including six officers from the U.S.A. and Commonwealth countries are, trained every year. The aim of the course is to prepare officers to hold second-grade or equivalent staff appointments or higher staff or command appointments.

Commandant, Maj.-Gen. P. P. Kumaramangalam.

School of Foreign Languages: This is located in New Delhi and was started on February 1, 1949.

Director, P. N. Banerjee.

Armed Forces Medical College: It is an inter-services post-graduate institution designed to meet the requirements of the integrated medical services of the Army, Navy and Air Force, and is located in Poona. The College has departments of medicine, surgery, pathology, hygiene, radiology, blood transfusion and dentistry.

This institution also supplies biological and chemical reagents and blood-transfusion material and equipment to all the Service hospitals and laboratories.

One of the most important functions of the College is to undertake fundamental and applied research for the solution of practical health problems of the Armed Forces.

Commandant, Maj.-Gen. Sarup Narain.

RESETTLEMENT SECTION

In appreciation of their services in World War II and after, the Government have given due consideration to the problem of resettlement of ex-Servicemen in civil life.

In collaboration with other Ministries of the Central Government, the State Governments, the Post-War Reconstruction Fund Trust Committees and other organisations, the Defence Ministry has formulated schemes for resettling ex-Servicemen in the Government and private service, land colonies, vocational and technical trades and motor transport services. More than 1,11,400 ex-Servicemen have already been thus rehabilitated in civil life.

In the matter of employment, the Government have accorded preference to ex-Servicemen in filling up appointments in police, excise, watch and ward and other departments for which military training is a qualification. As a result, nearly 71,550 ex-Servicemen have been placed in Government.

Ex-Servicemen who have a bias for agriculture are settled on land.

Through the efforts of the Defence Services Liaison Organisation, set-up in May 1946, 228 retired Armed forces officers were selected for appointment in civil posts under the Central or State Governments and 19 in the private sector up to the end of December 1957.

SOLDIERS', SAILORS' AND AIRMEN'S BOARD

The Indian Soldiers', Sailors' and Airmen's Board is the most important official institution connected with the welfare of the serving personnel of the Armed Forces and ex-Servicemen and their families. The nucleus of its funds was the residue of the Imperial Indian War Relief Fund which was handed in at the end of 1922.

The Board has its seat at New Delhi and co-ordinates the activities of State boards which exist in each State. Under the control of these State boards, there exists throughout the country a network of district boards, reinforced in some cases by tahsil or taluka committees and other kindred bodies. These boards are established in all districts from which recruits have been obtained in sufficient numbers. The President of the District Board is the Collector or the Deputy Commissioner. Each Board has a paid Secretary, usually an ex-I.C.O. or ex-J.C.O. There are 183 District Boards.

The Indian Soldiers', Sailors' and Airmen's Board Fund is now used primarily for payment of special pensions to blinded ex-Servicemen and to meet the expenditure on miscellaneous items, such as bank charges and audit fees in connection with the administration of the fund.

The other Central funds which are not under the control of the Indian Soldiers', Sailors' and Airmen's Board are:

Armed Forces Benevolent Fund, Flag Day Fund, Armed Forces Reconstruction Fund, Army Central Welfare Fund, Navy Benevolent Association Fund, Navy Amenities Fund, Air Force Benevolent Association Fund, Air Force Central Welfare Fund, Indian Gorkha Ex-Servicemen's Welfare Fund and St. Dunstan's India Fund.

GALLANTRY AWARDS

Three new gallantry awards were instituted by the President after Independence for gallantry in combat with the enemy. They are designated the Param Vir Chakra, the Maha Vir Chakra and the Vir Chakra. They came into force with effect from August 15, 1947.

The Param Vir Chakra is awarded for most conspicuous bravery, or some daring or pre-eminent act of valour or self-sacrifice, in the presence of the enemy, whether on land, at sea or in the air. It ranks first among all awards.

The Maha Vir Chakra is awarded for conspicuous acts of gallantry in the presence of the enemy whether on land, at sea or in the air.

The Vir Chakra is awarded for acts of gallantry in the presence of the enemy, whether on land, at sea or in the air.

A fourth gallantry decoration, named the Ashoka Chakra, in three grades, viz. Class I, Class II and Class III, was instituted for acts of gallantry other than in the face of the enemy. This also came into force with effect from August 15, 1947.

Class I of the Chakra is awarded for most conspicuous bravery, or some daring or pre-eminent act of valour or self-sacrifice. Class II of the Chakra is awarded for conspicuous gallantry and class III for gallantry.

If a recipient of any of these Chakras again performs such an act of bravery as would have made him or her eligible to receive the same decoration, such further act of bravery is recognised by the award of a Bar attached to the ribbon by which the Chakra is suspended, and for every such additional act of bravery, an additional Bar is added, and any such Bar or Bars is/are also awarded posthumously. For every Bar awarded a replica in miniature of the Chakra concerned and in the case of the Param Vir Chakra of the "Indra's Vajra" is added to the ribbon when worn alone.

Every recipient of any of these decorations who is junior in rank to a 2nd Lieutenant in the Army, a Sub-Lieutenant in the Navy, or a Pilot Officer in the Air Force, is entitled,

from the date of the act by which the decoration has been gained, to a special pension, and each additional Bar conferred carries with it additional pension for life.

A system of Mention-in-Despatches was also instituted. A 'lotus leaf' emblem is worn by the awardees on the ribbon of the campaign/war medal concerned.

The rates of monetary allowance admissible are as follows:—

- (a) (i) Param Vir Chakra.—Rs. 50 p.m. (Rs. 70 p.m. in the case of J.C.Os. who have previously been given an award of the second order of gallantry, such as the I.O.M.).
- (ii) Each Bar to PVC.—Rs. 20 p.m.
- (b) (i) Maha Vir Chakra.—Rs. 30 p.m. (Rs. 50 p.m. in the case of J.C.Os. who have been previously given a gallantry award of the third order, such as the M.C.).
- (ii) Each Bar to M.V.C.—Rs. 10 p.m.
- (c) (i) Vir Chakra.—Rs. 20 p.m.
- (ii) Each Bar to V.C.—Rs. 8 p.m.

On the death of such a recipient of the Chakra, the pension is continued to his widow until her death or remarriage. In addition to the above allowances admissible from the Central exchequer, all the States of the Union have framed their own schemes of rewarding the gallantry award winners by cash or land grants.

The following are the details of Republican India's awards won by members of the Armed Forces (Sept. 1957):—

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Param Vir Chakra—5 (3 posthumous).
Ashoka Chakra Class I—8 (6 posthumous).
Maha Vir Chakra—51 (20 posthumous).
Ashoka Chakra Class II—31 (8 posthumous).
Vir Chakra—292 (88 posthumous), the number including 4 bars.
Ashoka Chakra Class III—61 (10 posthumous).
Mention-in-Despatches—1,153 (85 posthumous).

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Ashoka Chakra Class III—2.

INDIAN AIR FORCE

Ashoka Chakra Class I—1.
Maha Vir Chakra—4.
Ashoka Chakra Class II—7.
Vir Chakra—30 (2 posthumous).
Ashoka Chakra Class III—2.

INDIAN ARMY

The Army HQ located in Delhi, functions directly under the Chief of the Army Staff. It is divided into the following main branches: (a) General Staff Branch, (b) Adjutant-General's Branch, (c) Quartermaster-General's Branch, (d) Master-General of the Ordnance Branch, (e) Engineer-in-Chief's Branch and (f) Military Secretary's Branch. These branches are further sub-divided into directorates.

The Chief of the General Staff, who is one of the four Principal Staff Officers (holding the rank of Lt.-General) at Army Headquarters, deals with military operations and intelligence, staff duties, training, artillery, signals, weapons and equipment, survey and the Territorial Army.

The Adjutant-General, who is another P.S.O., deals with all matters concerning man-power, such as pay and pensions, discipline, and terms and conditions of service.

The A. G. is also assisted by the Judge Advocate-General in matters affecting military law and international law in its military aspect.

The third P.S.O. is the Quartermaster-General, who controls all rail and sea movement, both of personnel and stores, within and outside the country. He also deals with the quartermaster problems of the Army as well as labour, canteen, fire and postal services.

The Master-General of the Ordnance, who is the fourth P.S.O., is responsible for the storage, care and preservation and issue of all kinds of equipment for troops. The Directorate of Electrical and Mechanical Engineering is also under the M.G.O.

The Engineer-in-Chief is the head of the Corps of Engineers and of the Military Engineering Service. The E-in-C's Branch gives technical advice on all engineering matters to the three Service Headquarters.

The Military Secretary handles confidential reports of officers and maintains their personal records.

The M. S. Branch is also responsible for postings and transfers, promotion and retirement of officers and the grant of honorary ranks and all types of commissions.

Under the Army H.Q., the Indian Army is organised into three Commands—Eastern, Western and Southern, each being under a General Officer Commanding-in-Chief of the rank of Lieutenant-General. The Commands are divided into Areas, each under the command of a G.O.C. of the rank of Major-General, and the Areas, in their turn, are sub-divided into Sub-Areas each under the command of a Brigadier.

The Army consists of a number of arms and services. They are Infantry, Armoured Corps, Regiment of Artillery, Corps of Engineers, Corps of Signals, Army Service Corps, Army Medical Corps, Army Dental Corps, Corps of Electrical and Mechanical Engineers, Army Education Corps, Remounts, Veterinary and Farms Corps, Corps of Military Police and Defence Security Corps.

An important technical arm of the Army, the Corps of Electrical and Mechanical Engineers has come to constitute a vital functioning limb of the defence set-up. Formed in 1943 as a repair organisation, it has since rebuilt all the mechanical, electrical and optical equipment of the Army and kept them in a 'fighting-fit' condition. It has also adapted itself to a minor-scale manufacturing programme because of the non-availability of spare-parts from abroad.

The Corps is manned by specialist officers and men who have received intensive training in the various aspects of engineering and acquired specialisation in certain fields. Some of the items designed and or manufactured by them are calibrating instruments, jigs, dies and tools, spares of automobiles, armoured vehicles and earth-moving equipment, castings and forgings and general engineering manufactures.

TERRITORIAL ARMY

As no country can afford to maintain a large standing fighting force in peace-time without straining its resources in men and material, a Territorial Army was formed in India, in 1940 to serve as a second line of defence.

The Territorial Army Act, 1948, was passed by Parliament in September 1948 and the Army was inaugurated in October 1949 when recruitment was thrown open.

The Territorial Army consists of various arms and services, i.e., the Regiment of Artillery, including anti-aircraft and coastal defence units, the Corps of Engineers, including port and railway units, the Corps of Signals, including P. and T. units, Infantry, the Medical Corps and the Corps of Electrical and Mechanical Engineers. The units raised are of two types, i.e., provincial units recruited from rural areas which undergo annual training of two to three months' duration at a stretch, and urban units recruited from large towns where Territorial Army units have been raised. They undergo training on the weekly drill system, i.e. in the evenings, Sundays and holidays with a short camp of not less than four consecutive days.

All able-bodied persons, from unskilled labourers to highly qualified technicians, provided they are citizens of India, are eligible for recruitment. The age limits are 18 and 35 years, relaxable in the case of ex-Service (Army, Navy

and Air Force) personnel and civilians possessing technical qualifications. Government servants and employees of private concerns are also eligible to join the Territorial Army.

The country has been divided into five zones for purposes of recruitment which is done on a zonal basis, i.e. only residents of the zone are recruited in the units which are raised from that zone. However, in the case of urban units, the residents of cities where such units are located are eligible to join.

The role of the Territorial Army is to

- (i) relieve the Regular Army of static duties and support the civil power if required.
- (ii) provide coastal defence and anti-aircraft units.
- (iii) provide units for the Regular Army if and when required.

When embodied, called out or under training, Territorial Army personnel receive the same pay and allowances as are admissible to the corresponding ranks of the Regular Army. It is obligatory for every civilian employer to reinstate a member of the Territorial Army in his civilian post on termination of his military training.

In order to provide an incentive to Territorial Army personnel for hard and meritorious work, 2½ per cent of the actual vacancies available at the Military College are reserved for such personnel. On successful completion of the course at the College they are to be granted regular commissions in the Army.

No officer or enrolled person is required to perform military service beyond the limits of India, save under a general or special order of the Central Government.

As a result of provincialisation of a few units of the Territorial Army, the arrangement of training in batches, the attendance in the units considerably rose during 1957-58. Recruitment also showed marked improvement. A Territorial Army Reserve was created.

LOK SAHAYAK SENA

Ever since Independence, there has been a persistent demand in the country for imparting military training to the people. To meet these aspirations, a scheme known as the Auxiliary Territorial Force was introduced in 1950, with the aim of giving elementary military training to as large a number of people as possible.

Under this scheme, 13,000 people were trained during 1953-54. Later, when it was decided to enlarge the scope of the scheme, the ATF was wound up and its place taken by the National Volunteer Force, since re-designated Lok Sahayak Sena.

The L.S.S. was inaugurated on May 1, 1955, to train five lakh men in five years or less. All able-bodied male citizens between 18 and 40 years, except ex-servicemen and N.C.C. cadets, are eligible to join this force. The object is not to raise a force for the defence of the country but to get people interested in national service and to inculcate in them a sense of discipline, self-reliance and responsibility.

Training in this force is imparted at camps organised throughout the country. The duration of a training camp is 30 days at which a maximum of 325 trainees are recruited. Training in this force includes drill, rifle training, elementary field engineering, first aid, hygiene and education.

For the duration of the camp, trainees are allowed free rations, accommodation, medical facilities and uniform. At the conclusion of 30 days training, each trainee is paid Rs. 15 as an out-of-pocket allowance.

Now in the third year of its existence, the L.S.S. has so far held 713 camps and trained a total of 3,10,000 people (Sept. 1958).

ARMY SCHOOLS

Recruitment for the permanent cadre of commissioned ranks in the Army is done through the National Defence Academy, Khadakvasla,

and the Military College, Dehra Dun. After completion of their three-year course at the N.D.A. Army cadets have to spend another one year at the Military College before being commissioned. Direct admission to the College at higher age-levels also continues, though the number of cadets so taken is limited.

The Military College at present conducts courses for ex-N.D.A., direct-entry and N.C.C. cadets, serving personnel, and technical graduates. Regular and direct-entry cadets commissioned in the technical branches are sent on specialised post-commission courses. The technical graduates' course was specially introduced in January 1948 as a temporary measure to give military training to qualified technicians and engineers for the Corps of Engineers, the Corps of Signals and the Corps of Electrical and Mechanical Engineers to cope with the increased requirements of technicians for the Army.

The Armoured Corps Centre and School at Ahmednagar trains recruits as well as regimental instructors. The School of Artillery at Deolali provides training in the field, anti-tank, anti-aircraft and coastal artillery branches. The Army Ordnance School at Jabalpur imparts specialised training to all officers and ORs in identification, handling and storage of various types of items, including ammunition and explosives.

The Infantry School at Mhow is the home of infantry doctrines and a centre for developing infantry weapons. The School also conducts courses for senior officers and junior commanders of all corps in the Army. The Army Service Corps has two schools, one at Meerut and the other at Bangalore, giving training in organisation and administration, animal transport, mechanical transport and supplies. The Army Medical Corps has its training centres at Lucknow and Poona.

The College of Military Engineering at Kirkee, near Poona, trains officers of the Corps of Engineers, the Corps of Signals and the Corps of Electrical and Mechanical Engineers to the degree standard in civil, tele-communication and electrical and mechanical engineering respectively.

The Madras, Bombay and Bengal Engineer Groups at Bangalore, Poona and Roorkee provide basic technical and specialised Corps training to officers and ORs of the Corps of Engineers as also civilian officers of the Military Engineering Service.

The Corps of Electrical and Mechanical Engineers has its training centre at Secunderabad, while the School of Signals, which gives technical training in tele-communication engineering to personnel of the Corps of Signals, is situated at Mhow. The Army Signals School, which trains officers and ORs of all arms as instructors in regimental signals, is located at Jabalpur.

The other training institutions in the Army are the Remounts, Veterinary and Farms Centre and School at Meerut, the Education Corps School at Pachmarhi, and the Intelligence Corps School and the Physical Training School, both at Poona.

The various commissioned ranks in the Army from the top downwards are: General, Lieutenant-General, Major-General, Brigadier, Colonel, Lieutenant Colonel, Major, Captain, Lieutenant and Second Lieutenant. The ranks of the Junior Commissioned Officers and other ranks respectively are Subedar-Major/Risaldar-Major, Subedar/Bisikar, and Jemadar/Dafadar, and Havildar, Naik, Lance-Naik and Sepoy/Sowar.

INDIAN NAVY

The Naval HQ, under the Chief of the Naval Staff, exercises control over the Indian Navy through the following four operational and administrative commands:

1. Flag Officer Commanding, Indian Fleet.
2. Flag Officer, Bombay.
3. Commodore-in-Charge, Cochin.
4. Commodore, East Coast, Vishakhapatnam.

Today, the Indian Fleet consists of I.N.S. MYSOKE, a cruiser (Flagship of the Navy), the cruiser I.N.S. DELHI, two Destroyer Squadrons (I.N.S. RAJPUT, RAJIT, RANA, GODAVARI, GOMATI and GANGA), one Frigate Squadron* (I.N.S. CAUVERY, KISTNA and TIR), and three Minesweeping Squadrons (I.N.S. BOMBAY, KONKAN, MADRAS, RAJ-PUTANA, BENGAL, ROHILKHAND, BANSEIN, BIMLIPATAM, KARWAR, KAKI-NADA, CANNANORE and CUDDALORE). In addition, the Fleet has some survey ships, a tanker and some auxiliary craft.

The Fleet is being expanded and the programme of acquisition of ships implemented in stages. The anti-submarine and anti-aircraft frigates of the latest type acquired by the Navy in the U.K. include I.N.S. BRAHMAPUTRA, KHUKRI, BEAS, TALWAR, TRISHUL, KIRPAN and KUTHAR.

It is proposed to build certain simpler types of naval vessels in India. Orders have been placed with the Hindustan Shipyard, Ltd., for a survey ship and a mooring vessel has already been launched and named I.N.S. DHRU'VAK.

The survey unit of the Navy, which now comprises I.N.S. INVESTIGATOR, JUMNA and SUTLEJ, carries out the necessary survey of India's coast and approaches to harbours. A new survey ship has been ordered.

Extensive surveys of major ports, like Bombay and Madras, have already been completed. With the help of the data provided by such surveys, charts are being prepared by the Hydrographic Office at Dehra Dun.

The Naval Dockyard, which came into being in 1750, has constructed some of the finest ships for the Royal Navy. A 1,000-ton frigate built at the Dockyard in 1870, which was originally named 'Trincomalee', is still being used by the Nautical Committee of the U.K.

The Dockyard is now equipped with a foundry, boiler, engine and ship-fitting shops, electronic and radar workshops, blacksmith, plater, joiner and carpentry shops, soil-making lofts, machine-shops, and gun-mounting and torpedo workshops. Its main function is to carry out all types of major repairs of ships of the Navy and the associated harbour craft services. For this purpose, it has under its control the Naval Stores Depot, the Spare Parts Distributing Centre and the Naval Armament Depot.

The armament depot of the Indian Navy, the first of its kind to be set up in peace time, was opened at Alwaye on September 19, 1956, by Vice-Admiral Katari, Chief of the Naval Staff.

NAVAL AVIATION

The Naval Air Arm, which is one of the youngest branches of the Navy, came into being in 1948 for training aircrew, followed soon after by the setting up of a Naval Air Station at Cochin. Later, the formation of a Fleet Requirements Unit was approved, aircraft, equipment and spares acquired and officers and ratings deputed for training courses abroad. The civil airfield at Cochin was acquired for the Navy in 1953 to be converted into the first Naval Air Station. Soon after, the first batch of Sealand aircraft were purchased from the U.K. and later the station was named I.N.S. GARUDA. Early in 1955, a number of Firefly target-towing aircraft were obtained from the U.K. for providing gunnery-training facilities for the Fleet. The strength of the Fleet Requirements Unit was further augmented when three HT-2 aircraft were acquired from HAL to give instructional training to aircrew and other personnel. Now a jet flight is being added to the Fleet Air Arm with a number of jet aircraft.

As a result of the latest decision of the Government to acquire H.M.S. HERCULES, an aircraft-carrier, together with a fleet of operational aircraft, the future of naval aviation in India is assured. The HERCULES, with a 15,700-ton displacement, is at present being re-fitted and modernised in the U.K. and will become available in a few years. Meanwhile, the question of

* Now two: The I.N.S. BRAHMAPUTRA and KHUKRI form another squadron. See below.

manning the carrier and training its naval aircrew is engaging the attention of the Government. As a first step, a Naval Air Training School has been set up at Cochin to train ratings in the maintenance and repair of aircraft. At the same time, the Government are considering setting up a School for Naval Airmen for training non-technical personnel.

To meet the meteorological needs of the Fleet Requirements Unit, a Naval Weather Services Organisation, manned by trained instructor officers, was established at the GARUDA towards the end of 1952. Since then, more and more instructor officers have been trained to take over meteorological duties, both ashore and aboard ships. This organisation now also conducts courses of instruction in meteorology for naval ratings.

The training of other naval personnel is carried out in the shore establishments of I.N.S. VENDURUTHI, Cochin, I.N.S. CIRCARS, Vishakapatnam, I.N.S. ANGER, Bombay, I.N.S. KUNJALI, Bombay, I.N.S. SHIVAJI, Lonavla, I.N.S. VALSURA, Jamnagar, and I.N.S. HANLA, Bombay. I.N.S. ASVINI at Bombay and I.N.S. SANJIVANI at Cochin are the two naval hospitals.

A memorable cruise in 1954 took the Flagship I.N.S. MYSORE to China, Japan and North Viet-Nam.

The various ranks in the Navy from the top downwards are: Admiral, Vice-Admiral, Rear-Admiral, Commodore, Captain, Commander, Lieut.-Commander, Lieutenant, Sub-Lieutenant, Branch List Officer, Midshipman, Chief Petty Officer, Petty Officer, Leading Rate, Able Rate and Ordinary Rate.

A Bill to consolidate and amend the law relating to the government of the Navy has been passed in Parliament.

INDIAN AIR FORCE

The Air HQ is divided into three main branches—Air Branch, which deals with operations, training, policy and plans, signals, reserves and intelligence, Administration Branch and Maintenance Branch. Each is under a Branch P.S.O. who, in turn, has several Directorates under him.

The Indian Air Force is, in the main, divided into three major formations, namely Operational, Training and Maintenance Commands under the control of the Air HQ.

The Operational Command controls all flying units—fighter, bomber, reconnaissance and air-transport squadrons. The Training Command has under its control training schools and colleges for both officers and airmen for technical and non-technical ground training and for aircrew flying training. The Maintenance Com-

mand controls all technical and equipment units in the I.A.F.

The three Commands exercise control through their Wings and Stations located in various parts of the country. Under each Wing and Station come various flying, training, technical or other static units.

The different types of aircraft used by the IAF:

Training: Tiger-Moth, Percival Prentice, HT 2, Harvard, Spitfire and Vampire.

Fighter: Vampire, Toofani Ouragan) Mystere, Hunter and Gnat.

Transport: Dakota, Devon, C-119 (Boxcar), Otter, Viscount, Ilyushin and Helicopter.

Bomber: Liberator, Canberra.

Reconnaissance: Spitfire, Auster, Liberator, Canberra, Dakota and Harvard.

During the past few years, this youngest Defence Service, which celebrated its Silver Jubilee on April 1, 1958, has attained self-sufficiency in training its personnel for flying and technical and non-technical duties.

Consequent on certain changes in their functional scope, some of the major Air Force training establishments have recently been redesignated. The Air Force Station at Hyderabad provides advanced training to aircrew. The Air Force Flying College at Jodhpur is the nursery of pilots, navigators and air-signallers. The Air Force Administrative College at Coimbatore trains officers of the ground duty branches. The Air Force Technical College at Jalahalli, near Bangalore, imparts training to engineering officers and technical airmen of certain advanced signals trades. The No. 1 Ground Training School at Jalahalli trains non-technical airmen. The No. 2 Ground Training School at Tambaram (Madras) trains technical tradesmen (airmen). The No. 3 Ground Training School at Jalahalli is intended for airmen trainees of higher signals trades.

The Service has also achieved a large measure of self-sufficiency in the field of training and only a small number of officers are now sent abroad for specialised courses not available in this country.

For advanced and applied flying training, a Jet Training Wing and a Transport Training Wing have been set up at Hakimpet and Begumpet as part of the Air Force Station, Hyderabad. On successful completion of their one-year training at the Air Force Flying College, Jodhpur, pupil aircrew have now to undergo a year's training either at Hakimpet or Begumpet before being awarded their wings and commissioned.

A Land-Air Warfare School is in the process of establishment (Aug. 1958). To train officers in aero-medicine, a school of Aviation Medicine has been started at Bangalore.

The I.A.F. Paratroopers' Training School at Agra, instituted in 1949, continues to train paratroopers for the Army, personnel for the I.A.F. Para-Medical Flights and instructors for the School itself.

Now armed with the latest jet trans-sonic aircraft, the Air Force has made rapid headway in the sphere of technical development. It can today boast of an organisation not merely performing maintenance tasks but also participating in research and production activity. It comprises a net work of repair and manufacturing units backed by a chain of equipment and storage depots.

Earliest and foremost of these units is the Base Repair Depot. Since its establishment, soon after Independence, as a nucleus of the Air Force repair organisation, it has grown in scope and size. It has since assembled new aircraft, sent back into service aircraft after reconditioning, and reclaimed with the assistance of the H.A.L., virtually "dead" Liberators and restored them to operational fitness. Today, the various functions of the B.R.D. are erection of new aircraft, periodical overhaul of planes in use, repair of damaged aircraft, overhaul of aero-engines and rectification of defects in engines.

In pursuance of the Reserve and Auxiliary Air Forces Act of 1952, five Auxiliary Air Force Squadrons have so far been raised at Delhi, Bombay, Calcutta, Allahabad and Madras. Similar auxiliary squadrons will be formed in other principal cities of India.

Since Independence, the Air Force has been entrusted with a number of national duties which may well be termed as full-fledged operations in peace-time. Some of these tasks were airlift of Indian personnel of the International Supervisory Commissions in Indo-China, air-dropping of foodgrains and medical supplies in the North-East Frontier Agency and other places affected by floods and other natural calamities and carrying out of photographic surveys to assist in the planning and development of hydro-electric schemes, oil prospecting in Rajasthan, Jwalamukhi and Cambay and other projects under the Five-Year Plans. A Flight of I.A.F. transport aircraft was rushed to Ceylon when the Island was hit by unprecedented floods in December 1957. It was able to organise airlift of foodgrains and other supplies to the affected areas on an extensive scale.

The various commissioned ranks in the Air Force from the top downwards are: Air Chief Marshal, Air Marshal, Air Vice-Marshal, Air Commodore, Group Captain, Wing Commander, Squadron Leader, Flight Lieutenant, Flying Officer and Pilot Officer.

The men are ranked as Master Warrant Officer, Warrant Officer, Flight Sergeant, Sergeant, Corporal, Leading Aircraftman, and Aircraftman Class I and Aircraftman Class II.

SOCIAL WELFARE IN INDIA

THE period under British rule (1800-1947) witnessed a destruction of the old social structure in India. In the new structure that emerged a number of reforms and institutions were introduced by bodies like the Brahmo Samaj (associated with the name of Raja Ram Mohan Roy), the Prarthana Samaj, the Deccan Education Society and the All-India Social Reform Association (Justice M. G. Ranade), the Ramkrishna Mission (Swami Vivekananda), the Servants of India Society (G. K. Gokhale) and the Arya Samaj (Dayanand Saraswati). Though these organisations were in the nature of religious orders, they took it as a part of their faith to serve the needy and the suffering. The Arya Samaj and the Ramkrishna Mission sponsored social reforms, established orphanages, widows' homes, free dis-

pensaries and relief centres in periods of emergency. The Servants of India Society is especially notable for its ramifications in the fields of labour, tribal welfare, youth welfare and emergency and relief work. An impetus to women's welfare was given by D. K. Karve's Women's University and G. K. Devadhar's Seva Sadan in Poona.

During this period pioneering work in many neglected fields of service, e.g. founding homes, leper asylums and institutions for the maimed and the handicapped, was undertaken by Christian missionaries in the country.

By 1920 Mahatma Gandhi's contribution began to gain recognition throughout the country. He provided for a number of constructive social welfare programmes through organisations like

the Harijan Sewak Sangh, All-India Village Industries Association, Charika Sangh, the Hindustani Nai Talimi Sangh, Goseva Sangh, and the Kasturba Gandhi National Memorial Trust, etc. His constructive programme also included dignity of manual labour and labour welfare, prohibition of alcohol, drugs and gambling, Tribal welfare and leprosy relief.

The late '30s saw the formation of the first popular Ministries in eleven provinces in India.

During the same period professional social work began to be recognised with the establishment of the Tata Institute of Social Sciences in 1936.

The new profession generally covers the following fields of social work: Community Welfare Services; Family, Child and Youth

Welfare Service; Public Welfare Administration; Social Security Services; Services for the mal-adjusted and handicapped groups; Social Defence and Correctional Administration; Services for Emergency Relief and Rehabilitation; Social Legislation and Social Action; Social Research; Training in Social Work; Tribal Welfare and Rural Welfare.

The establishment of the Indian Conference of Social Work at a meeting of over 450 social workers assembled in Bombay in November 1947 marks a significant development in the field of social work in India. The Conference undertakes and promotes the study of social problems and endeavours to foster co-operation, collaboration and co-ordination amongst social service agencies in India and abroad. It has held sessions in Bombay (1947), Madras (1948), Delhi (1949), Jamshedpur (1950), Calcutta (1951), Hyderabad (1953), Lucknow (1954), Bangalore (1955), Jaipur (1956) and its Decennial Anniversary Session in Madras (1957).

The I.C.S.W. was planning to hold its third national seminar, the subject being urban community development in May 1959.

In 1952, it enabled the International Conference of Social Work to hold its Sixth Session at Madras—the first International Conference on Asian soil.

The aspirations of the Indian people towards State responsibility for social welfare are reflected in Part IV of the Constitution which lays down the "Directive Principles of State Policy", as follows:—

"The State shall strive to promote the welfare of the people by securing and protecting as effectively as it may, a social order in which justice, social, economic, and political, shall inform all the institutions of the national life."

SOCIAL LEGISLATION

Social legislation on an all-India scale dates back to 1843 when the first law abolishing slavery was passed. The earlier laws sought to reform the evil social practices existing at the time, practices such as Sati, infanticide, and child marriage. Later, social legislation began to assume a more positive and constructive role. Laws for better working conditions in factories, laws providing maternity benefits, for the abolition of traffic in women and children, and laws for the protection and care of destitute and delinquent children have all received attention in the first half of this century.

According to the present Constitution, social legislation can be formulated and implemented both by the Central and State Governments. Most social subjects are on the concurrent list, i.e. they can be legislated upon by the Central or State Governments. These subjects include: marriage and divorce, social security and social insurance, economic and social planning, welfare of labour, charities and charitable institutions, vagrancy and mental deficiency.

Prison Reform Bills and Borstal Institutions are subjects in the State list. An informative volume entitled "Social Legislation", which contains detailed information regarding the laws pertaining to women, children, handicapped groups and social defence was published in 1956 by the Planning Commission of the Government of India.

In India, the Central Government does not have a special Ministry or department for social welfare. The Ministries of Health, Education, Labour, Home, Rehabilitation, Agriculture, Community Development and the Office of the Commissioner for Scheduled Castes and Tribes undertake several important social services. The States of Assam, Andhra Pradesh, Bombay, Madhya Pradesh, Punjab, Rajasthan, Uttar Pradesh and West Bengal have Departments of Social Welfare, whereas Madras possesses a Women's Welfare Department.

The expenditure allocated to Social Services in the first Five-Year Plan period was 533 crores of rupees out of a total outlay of 2,356 crores, which works out to 23 per cent, whereas in the Second Five-Year Plan, out of a total outlay of 4,800 crores of rupees 863 crores that is

18 per cent have been earmarked for Social Services, including Housing, Rehabilitation, etc. in the revised allocations.

To the above amount we could also add the provision of 90 crores in the First Plan period for community development and 200 crores in the Second Plan period, both of which work out to four per cent of the total outlay, respectively.

PLAN OUTLAY BY MAJOR HEADS OF DEVELOPMENT

	First Plan Total Provision (Rs. crores)	Second Plan Total Provision (Rs. crores)
(a) Education	164	285
(b) Health (including water supply and sanitation programme) ..	140	255
(c) Labour & Labour Welfare, Welfare of Backward Classes, Scheduled Tribes, Social Welfare	44	133
(d) Housing	49	100
(e) Rehabilitation ..	136	90
Total	533	863

SOME ACTS

Since 1947 there has been an unprecedented increase in social legislation both at the national and the State levels.

Some of the laws which are applicable to the entire country are the Industrial Disputes Act, 1947; The Factories Act, 1948; The Coal Mines Provident Fund and Bonus Schemes Act, 1948; Minimum Wage Act, 1948; Employees State Insurance Act, 1948; The Plantation Labour Act, 1951; The Mines Act and the Provident Fund Act, 1952.

Two Acts were passed to remove caste discrimination, namely, the Caste Disabilities Removal Act XXI of 1950 and the Untouchability Offences Act XXII of 1955.

Three laws introducing changes in Hindu Law governing Marriage and Succession have been passed since 1954, namely, The Special Marriage Act 43 of 1954; The Hindu Marriage Act XXV of 1955 and the Hindu Succession Act XXX of 1956.

Traffic in Women

The Suppression of Immoral Traffic in Women and Girls Act 1956 was implemented in most States in May 1958. It applies to the whole of India, and from the date of the coming into force of this Act, all other State Acts relating to the suppression of immoral traffic in women and girls or to the prevention of prostitution stand repealed.

Some institutions concerned with this aspect of the problem are:

The Bombay State: Women's Council Rescue Home, Bombay Vigilance Association Shelter, League of Mercy Shelter, Salvation Army Industrial Institute for Women, Shraddham and Anath Mahilashram and St. Catherine's Home (all in Bombay City).

In other districts of Bombay State, St. Crispin's Home (Poon), Shri Seth Masukhlal (Thagnal) Hindu Widhwa Ashram, Wasdeo Babaji Nowrangay Orphanage, Vikas Griha (Ahmedabad), Anath Mahilashram, Mahila Sevagram, Hindu Anath Mahilashram, Vikas Griha (Junagadh).

In Madras: The Stree Sadan Rescue and Training Home, Government Vigilance Home, Good Shepherd Home.

In Bengal: The Fendal Home and All Bengal Women's Union Home.

Delhi: Ashoka Ashram.

Delhi: Nari Niketan

Bihar: Bharatiya Bidhwasram, Ananthalya.

Mysore: Abhaya Ashram and Good Shepherd Home.

U.P.: The Kushalbagh Mission Orphanage and Salvation Army Home.

About 800 Homes and 370 Rescue Shelters in the country attempt the rehabilitation of fallen women.

A sum of rupees three crores is allotted to root out traffic in women and girls.

State Homes for Women and Reception Centres for temporary stay have been organised in various parts of the country by the Central Social Welfare Board.

From the time the Act was enforced on May 1, 1958 to Sept. 1, 1958 the Central Social Welfare Board set up 15 protective homes in six States and Delhi for about 725 persons.

State-wise, the accommodation available was: 100 in Nari Rudhar Samiti, Hyderabad, Andhra Pradesh; 200 in a rescue home and four shelters in Kerala; 100 in Sri Sadana Rescue Home, Madras City and 50 in Meenakshi Sadnam, Madurai, Madras; 45 in two homes in West Bengal; 100 in Nari Niketan in Delhi; 100 women in two homes in Mysore, and 25 women in two homes in Punjab.

There were no brothels in Himachal Pradesh and Manipur. The Laccadive, Minicoy and Amindivi Islands were also free from traffic in women and children.

The Central Social Welfare Board appointed an Advisory Committee under the chairmanship of Mrs. Dhanvanti Rama Rau to study the problem of social and moral hygiene in the country.

The Report observes that prostitution is mainly an urban problem and as many as 85-8% of women come from the rural areas in the age group 10 to 20. The causes that lead to prostitution are:—55-4% economic stress, 27-7% disharmony or family mal-adjustment, and 6-9% social and religious practices. Figures for kidnapping and seducing were not available.

It is the view of the Committee that vigilance or preventive work is very scanty and the standard of rescue work by voluntary institutions needs to be improved.

As a result of the recommendation of the Advisory Committee, appointed by the Board, a programme of social and moral hygiene and after-care services has been drawn up for the Second Plan.

Under this, 80 institutions would be set up in groups of five each. One of the institutions will be for the rehabilitation of women rescued from moral danger. Two institutions will be for persons discharged from correctional institutions and the remaining two, for persons discharged from non-correctional institutions.

In addition, there will be a shelter in each district to receive and transmit persons to these after-care centres.

Each institution will have a production unit on a co-operative basis attached to it.

The capacity of each institution will be a hundred and that of the production unit five hundred.

This scheme will also be run by Managing Committees consisting of officials and non-officials.

A total provision of Rs. 9.5 crores has been made in the plans of the appropriate Ministries in the Government of India and also in the State plans.

A committee under the chairmanship of Mr. M. S. Gore, Principal, Delhi School of Social Work, has a report on after-care programme. This Committee was set up by the Central Social Welfare Board.

The Association for Moral & Social Hygiene in India which was founded in 1886 by Keshab Chandra Sen has its headquarters in New Delhi and several State branches which in turn have District Branches. It works through various committees, the most important of which are Legal, Rescue and Rehabilitation, Preventive,

Research and Education. It also holds conferences on all India and State basis. Its strength consists in the fact that most of the voluntary agencies doing similar work are affiliated to it and it also receives the active co-operation of the police and other Governmental bodies.

Children, Beggars

Children's Acts in relation to delinquency are in force in the States of Andhra Pradesh, Bombay, Madhya Pradesh, Madras, Mysore, Punjab, Kerala, U.P. and West Bengal.

The Bombay Act was extended to the former States of Ajmer and Delhi.

The Borstal Schools Acts, which are slightly different in scope, are in operation in the States of Andhra, Bombay, Madras, Mysore, Punjab, U.P., West Bengal and Kerala.

The Reformatory Schools Act of 1907 has also been enforced in all the major States and some Union Territories.

There are 67 Remand Homes, 49 certified schools, 7 reformatory schools, 8 borstal schools and 8 juvenile jails in the country (Dec. 1958).

Besides formal education, vocational training in a number of trades is imparted to the inmates of the three types of institutions referred to above. Others provide follow-up services.

A new experiment in preventive correction was started in Bombay City by the Children's Aid Society under its Juvenile Service Bureau.

The Criminal Procedure Code treats vagrants and vagabonds alike and provides penalties under Sections 55 (i) (b) and 109 (b).

Beggars may be proceeded against under Section 133 as those committing public nuisance.

Beggary within railway premises was prohibited by law as from February 15, 1941.

The following special Acts have been passed to prohibit begging in public places:

- The Bombay Prevention of Beggary Act, 1945.
- The Bengal Vagrancy Act, 1943.
- The Bihar Prevention of Beggary Act, 1952.
- The Madras Prevention of Beggary Act, 1945.
- The Cochin Vagrancy Act, 1945.
- The Hyderabad Prevention of Beggary Act, 1941.
- The Mysore Prevention of Beggary Act, 1944.
- The Travancore Prohibition of Begging Act, 1945.
- The Bhopal Prevention of Beggary Act, 1917.

Begging is also prohibited in Madhya Pradesh, Punjab and Uttar Pradesh under the respective Municipalities Acts. The Police Acts of Bombay, Calcutta and Madras City also provide measures against begging.

There are institutions in the States for the custody, care and assistance of beggars in their rehabilitation.

There are 18 certified institutions with a total capacity for 2,000 beggars in Bombay. West Bengal has 5 Beggar Homes with an accommodation for 1,900. There are 7 similar institutions in Madras and 8 including 3 relief settlements in Kerala. There is a Beggar Home each in the States of U.P., Madhya Pradesh, Mysore and the Union Territory of Delhi. The inmates of these Homes are provided with food, clothing, education facilities for physical culture and vocational training.

VOLUNTARY SOCIAL WORK

The groups of voluntary social work in India largely fall under the following heads: Administrators; Professional social workers; Missionaries; The Gandhian social workers; and Voluntary social workers belonging to the various private agencies.

Of these the religious believe in the traditional form of charity, the Missionaries in institutionalised social work, the Gandhians in the 14-point constructive programme.

The group of professionally trained social workers is small though most compact. This group consists of some 1,000 alumni and teachers of the following post-graduate schools of social work in India:

The Tata Institute of Social Sciences, Deonar, Chembur, Bombay 28; Delhi School of Social Work, 8, University Road, Delhi 8; the Faculty of Social Work of the M. S. University of Baroda, Camp Road, Baroda; Shri Kashi Vidyapeeth, Banaras, Chavni, Banaras 2; Madras School of Social Work, 1, Jarrett's Gardens (upper flat), 23-24, Cass Major Road, Egmore, Madras 8; The All India Institute of Social Welfare and Business Management, College Square West, Calcutta 7. The J. K. Institute of Sociology and Human Relations, Lucknow University, Lucknow also imparts training in social work, while the Patna University has a department to train social workers for industrial welfare work.

Voluntary Social Service Agencies operating on an All-India basis are mentioned below:—

Child Welfare

Balkan-Ji-Bari (6-A, Cooperage, Bombay 1); Society for the Protection of Children in India (2-B, Camac Street, Calcutta); Indian Council for Child Welfare, Room 14-15, Block 'A', 'B' Barracks, Queensway, New Delhi; Indian Council for Child Education (Sumanas, 29, Edward Elliott Road, Madras 4).

Youth Welfare

Y.M.C.A. (5, Russel Street, Calcutta 16); Y.W.C.A. (Parliament Road, New Delhi); Bharat Scouts and Guides Association (Regal Building, Parliament Street, New Delhi).

Women's and Family Welfare

All India Women's Conference (6, Bhagwandas Road, New Delhi); Family Planning Association of India (Metropolitan House, Dadaboy Naoroji Road, Bombay 1); National Council of Women in India (G Block, Western House, Curzon Road, New Delhi); Kasturba Gandhi National Memorial Trust (Kasturba Gram, P.O. Indore, Madhya Pradesh).

Health

Tuberculosis Association of India (20, Red Cross Road, New Delhi 2); Indian Red Cross Society (20, Red Cross Road, New Delhi 2); All India Cancer Prevention Society (Tata Memorial Hospital, Parel, Bombay 12); Hind Kushi Niwaran Sangh (Red Cross Road, New Delhi); Akhil Bharat Sharirik Sikshan Maha-Mandal (Tilak Road, Nagpur, Bombay State).

Rehabilitation of the Handicapped

Convention of the Teachers of the Deaf in India (50, Bondel Road, Ballygunj, Calcutta); All India Light House for the Blind (89, Elliot Road, Calcutta); National Association for the Blind (Victoria Memorial Blind School, Tardoo, Bombay 7); All India Blind Relief Society (11-F, Lalpatnagar, New Delhi).

Rural Welfare

Sarva Sewa Sangh (K39-4 Golghar, Varanasi, U.P.); India Village Service (I.V.S. House, Marhara, Dist. Etah, U.P.).

General Social Welfare

Servants of India Society (Poona 4); Ramkrishna Mission (Belur, Dist. Howrah); Gandhi Memorial Fund (5, Mansingh Road, New Delhi); Salvation Army (Moreland Road, Bombay 8); Friends' Service Unit (1, Upperwood Street, Calcutta 16); All India Seva Samiti (Seva Samiti Building, Allahabad); Indian Co-operative Union Ltd. (American Barracks, Queensway, New Delhi).

Rural Women's Welfare

Kasturba Gandhi National Memorial Trust (Kasturbagram, Indore, Madhya Pradesh).

Relief and Rehabilitation

United Council of Relief and Welfare (Rashtrapati Bhavan, New Delhi).

Social Education

Indian Adult Education Society (20, Fais Bazar, Delhi); Nai Talim Sangh (Wardha, Bombay); Janta Mitta (Okhla, Delhi).

Welfare of Under-Privileged Groups

Harijan Sevak Sangh (Kingsway, Delhi); Shiksha Adhineti Sevak Sangh (Kingsway, Delhi).

Social Defence

All India Crime Prevention Society (Behari Niwas, Kanpur, U.P.); Association for Moral and Social Hygiene in India (Room No. 211, 'P' Block, Raisina Road, New Delhi).

Co-ordination

The national organisation for the co-ordination of all welfare services is the Indian Conference of Social Work located at 6/A, Cooperage, Bombay 1.

There is also a South-East Asia Regional Office of the International Conference of Social Work which has been established in conjunction with the Indian Conference of Social Work in Bombay.

International Welfare Agencies in India

The following are some of the International agencies and organisations working in the country: International Conference of Social Work (South-East Asia Regional Office (6/A, Cooperage, Bombay-1); Ford Foundation (52, Ferintosh Road, New Delhi); World Health Organisation (S.E.A. Office, Patiala House, Hardinge Avenue, New Delhi); Rockefeller Foundation (20/39, Diplomatic Enclave, Kautilya Marg, New Delhi); International Labour Organisation, Indian Branch (Mandi House, New Delhi); International Union for Child Welfare (Consultant for Far East Asia, Rooms Nos. 14 & 15, Block A, Barracks B, Queensway, New Delhi); United Nations International Children's Emergency Fund (UNICEF House, 11, Jor Bagh, Delhi); United Nations Educational, Scientific and Cultural Organisation (Old Mill Road, New Delhi); Food and Agricultural Organisation, U.N.O. 21, Curzon Road, New Delhi.

Bhoodan Movement

Special mention must be made of the Bhoodan Movement initiated by Acharya Vinoba Bhave, one of the ablest disciples of Gandhiji. He is effecting a silent but nevertheless remarkable social revolution within the country by the voluntary gift of land (Bhoodan), wealth (Samptidan), labour (Shramdan) and life (Jeevandan).

FAMILY PLANNING BOARD

On 1st September 1956 a Family Planning Board was set up, by the Union Ministry of Health to direct the family planning programme in the Second Five-Year Plan period. The Board consists of members whose term of office will normally be for five years, under the Chairmanship of the Union Minister for Health.

The Government of India have made a provision of Rs. 497 lakhs (Rs. 400 lakhs at the Centre and 97 lakhs in the States) for family planning work. The Board advises on various matters and the recommendations of the Board will be implemented by the Ministry of Health.

The programme for the Second Plan is 500 clinics in urban areas and 2,000 in rural areas. As far as possible there should be one clinic in every maternity and child welfare centre, primary health centre, dispensary, hospital and medical teaching institution.

As on 7th December 1958, there were in all 812 clinics. Trained personnel numbered 1,117, while about 2,370 school teachers had also been trained.

It was estimated that upto March 1959, the Centre would have incurred an expenditure of Rs. 78-60 lakhs.

Three main Institutes have been set up by the Government of India to help promotion of family planning.

One is a Family Planning Training and Research Centre with Dr. Subhila S. Gore as Officer-in-charge. This Centre started functioning in the middle of 1957, and trains doctors, health visitors, nurses and social workers to run family planning services in an integrated manner, including clinical work, educational propaganda and general family welfare. The trainees, who are specially deputed by Government or voluntary agencies, are in turn expected to train workers in their own States.

Second, a Contraceptive Testing Unit under Dr. V. B. Khastekar has been set up in the laboratories of the Indian Cancer Research

Centre, Parel, Bombay. This Unit tests all contraceptives and only those which fulfil certain scientific criteria are then approved for use in family planning clinics.

The third Institute, which is situated in the premises of the Tata Institute of Social Sciences, Chembur, Bombay, is the Demographic Training and Research Centre, jointly sponsored by the Government of India, the Sir Dorabji Tata Trust and the United Nations. This Institute, under Dr. K. C. K. E. Raja, gives post-graduate training in demographic studies to students from India as well as South-East Asian countries.

All the State Governments except Jammu and Kashmir have appointed Family Planning Boards, with whole-time Family Planning Officers in some cases.

The Health Departments of States are introducing family planning services in the rural primary health centres, and also in urban hospitals and dispensaries, with Central Government aid.

Several voluntary agencies also, have included family planning in their programmes of work, such as the All India Women's Conference, the Red Cross Society, the Bharat Sevak Samaj, etc.

The Family Planning Association of India is the leading voluntary and specialised agency in this field under the Chairmanship of Shrimati Dhanvanthi Rama Rau.

It has its Headquarters in Bombay and has 15 Branches in different parts of the country and has a programme for opening clinics, training personnel, promoting medical and sociological research, and conducting an educational programme at all levels by way of lectures, group meetings, home visits, publications of literatures and film shows.

It publishes a monthly Bulletin, "Planned Parenthood", and a quarterly magazine, the "Journal of Family Welfare". It has organised three All India Conferences on Family Planning and International Conferences in 1952 and in February 1959. It is a founder-member of and is affiliated to the International Planned Parenthood Federation where 22 countries are represented.

The Madras Government has a number of schemes for sterilization:

1. Scheme for payment of subsidy to selected private medical practitioners in Madras City for vasectomy operations for a period of one year.

Under the scheme, four private medical practitioners having enough surgical experience and nursing home facilities had been appointed.

(ii) Scheme of payment of special remuneration of Rs. 2- for each case operated to the canvassers and tutors in family planning.

(iii) Scheme in Madras City called the 'Madras City Public Employees Family Welfare Scheme' under which concessions had been extended to public employees in Madras City, seeking surgical methods of family planning.

Under this scheme, public employees in Madras City who had attained the age of 32 in the case of men, and 26 in the case of women, and who had not less than three living children were eligible to avail of the concessions extended under the scheme. For men undergoing vasectomy operation a cash grant of Rs. 15 each, and for women undergoing salpingectomy operation a cash grant of Rs. 25 each was payable under this scheme.

(iv) The Director, Indian Institute for Population Studies, Madras, was directed to conduct an attitude survey of fathers under the Madras City Public Employees' Family Welfare Scheme for which a sum of Rs. 1,500 was sanctioned as grant.

CENTRAL SOCIAL WELFARE BOARD

The Central Social Welfare Board was set up in August 1953 as an autonomous body under the general administrative charge of the Union Ministry of Education to promote programmes of social welfare under the First Five-Year Plan.

It has two main functions:

1. to afford financial assistance to existing welfare organizations

2. to sponsor and aid new welfare services in uncovered areas where they are needed.

About the first of the two objects mentioned above, a sum of Rs. three crores has been set apart for grant-in-aid to welfare organizations in the Second Plan.

To institutions of good standing grants are given on an assured basis for a continued period of five years. To smaller organizations grants are given on a yearly basis.

Budget (1957-58): Rs. 1.74 crores; 1956-57: Rs. 1.25 crores.

Over 4,500 institutions have so far been aided by the Board.

More precise figures are:

Between 1953 when the Board was set up and March 1958, 4,043 institutions for child welfare, women's welfare, welfare of the handicapped and general welfare were sanctioned grants amounting to Rs. 1,28,84,408 for a year at a time.

504 institutions received long-term grants amounting to Rs. 1,02,87,850 sanctioned upto March 1958 to be utilised upto March 1961.

In fulfilment of the second of its functions the Board has sanctioned the following schemes:

Welfare Extension Projects in rural areas for women and children; Urban Family Welfare projects; After-care Programmes.

There are also in being a pilot welfare extension project in urban areas; a programme for coaching women in rural areas to acquire the necessary educational qualification to serve as welfare workers; the provision of basic welfare services in gramdan villages.

The object of the Welfare Extension Projects is to provide basic welfare service to women, children and the handicapped.

From April 1957 the projects have been tied up with the larger community development projects. Each of these projects now covers the same 100 villages as the community development block and has on an average 14 to 17 centres.

The budget for three years for a welfare extension project of this type is about Rs. 1.33 lakhs.

The Second Plan provision is Rs. 8.6 crores.

It is estimated that at the end of the Second Plan period (March 1961) there would be 1,550 projects of this type, with 13,250 centres, covering 1,19,000 villages with a total population of 71.5 million. The total expenditure would amount to a little over Rs. 15 crores and the contribution of the Board would be Rs. 7.4 crores.

The total number of persons to be trained would be about 6,800 *Gram sevikas* and 1,320 midwives. The provision for this is Rs. 50 lakhs.

All welfare work relating to women and children in community development areas is now under the charge of the Board.

The projects started before 1957, are independent of the Community Development programmes.

Each of the projects covers 25 villages with a population of 20,000.

The target was one project per District or 330 in all by the end of the First Plan, and three more per District or 990 more in all during the Second Plan, thus bringing the total to 1,320 projects. Each project was to have five centres so that at least five villages together had one centre.

The activities at a centre include Balwadi (Creches-cum-pre-basic schools), maternity services, craft classes, social education for women and cultural facilities.

At each centre there is a *gram Sevika*, a craft instructor and a dai. At project level there are a mid-wife and a *mukhya sevika*.

The annual expenditure on each of these pre-1957 projects is about Rs. 25,000. The Board contributes 50 per cent of the expenditure, the

State Government 25 per cent, and local contributions make up the balance.

As on March 31, 1958, the Board had 435 Welfare Extension Projects (original pattern) through 2,027 centres covering 10,546 villages and a population of 92.49 lakhs.

47 projects had been sanctioned covering 4,700 villages and a population of 80.55 lakhs.

The urban Family Welfare schemes are really intended to give economic help to women of lower middle class families. Industrial Co-operatives are formed for starting small-scale industries in selected urban areas to employ about 500 women each. A woman was expected to earn about one and a half rupees a day. The aim is to set up about 20 units to benefit 10,000 families by the end of the Second Plan.

There are at present five units benefiting 2,500 families in Delhi, Hyderabad, Vijayawada and Poona.

The Ministry of Commerce and Industry provides trained personnel and also marketing facilities.

The Social Welfare Board has also decided to set up 100 Pilot Welfare Extension Projects in urban areas to provide welfare services. Each project will cover about 500 families of about 2,500 individuals. Rs. 25 lakhs have been set apart for the rest of the Plan period.

By December 1958, 56 projects had been sanctioned and some had started working.

The quota is seven for each State except Bombay which has 12.

The assistance of organizations like the Social Service Leagues, the Red Cross Society, Bharat Sevak Samaj, Rotary Club, the Ramakrishna Mission have been enlisted.

One of the most important achievements of the Board has been in the provision of after-care services. These are intended to complete the process begun in Care Institutions. State Homes have been set up to provide temporary residential facilities, organize work centres, give advice and help, negotiate the placement of those coming out of Care Institutions and ensure their social and vocational rehabilitation.

As already mentioned the setting up of these Homes with facilities for guidance, legal aid and so on was recommended by the Advisory Committee on After-care programme. The Production Unit attached to each Home would be conducted by the Ministry of Commerce and Industry.

By December 1958 the Board had 25 Homes and 46 shelters.

But only 9 Production Units had been sanctioned by the Ministry of Commerce and Industry.

It is estimated that by the end of the Second Plan there would be 80 Homes (and 80 Production Units) and 330 Shelters covering 40,000 persons.

About the provision of coaching for eligible women in rural areas to enable them to take the qualifying examination for *gram sevikas*, this arose because there was difficulty in finding the appropriate type of person.

It has, therefore, been decided that mature women with a knowledge of rural conditions and aptitude for learning and teaching should be given opportunities to acquire the minimum educational qualifications required to qualify them for posts of instructors and *gram sevikas* in the least possible time.

For this purpose 28 schemes had been sanctioned till December 1958.

Two other projects just taken up (December 1958) are:

Shelters for the homeless. These will be implemented by the Bharat Sevak Samaj. Shelters which will have recreational and educational facilities will be open between the hours 7-30 P.M. and 7 A.M. for a nominal payment.

Holiday Homes for children (between the ages of 8 and 16) in hillstations. The schemes will be implemented through the Indian Council of Child Welfare.

THE CO-OPERATIVE MOVEMENT

DURING 1956-57 the number of co-operative societies of all types rose from 240,395 to 244,799, the percentage increase being as low as 1.8 compared to 9.6 in 1955-56, 10.4 in 1954-55 and 4.8 in 1953-54.

Primary agricultural credit and non-credit societies accounted for most of the increase. The former, which numbered 1,61,510 at the end of June 1957 forming 65.9 per cent of the total number of societies, constituted numerically the most important single class of co-operative institutions in the country as in earlier years.

The membership of primary societies increased by 10 per cent from 1.76 lakhs at the commencement of the period under review to 1.94 lakhs at the end of 1956-57. The rate of increase was of the same order as in 1955-56; but taking into account the decline in membership of 2.75 lakhs consequent on the nationalization of life insurance societies the percentage increase in 1956-57 was higher at about 12.

As in previous years much of the increase was in the membership of the primary agricultural credit societies, the number of new members being 13.26 lakhs. Assuming that an average family comprises five members, it may be estimated that by the end of 1956-57 roughly 9.69 lakhs, or nearly 25 per cent of the population was served by co-operatives compared to 8.81 lakhs or 22.8 per cent of the population at the commencement of the period. Allowance will, however, have to be made for individuals being members of more than one society.

During 1956-57 the working capital of all types of co-operative societies rose by Rs. 98.85 crores to Rs. 567.67 crores, recording an increase of 21 per cent as against a rise of 20 per cent during 1955-56.

The percentage of owned funds (paid-up capital and reserves) and deposits to working capital

was 26.9 and 34.7 respectively, compared to 29.8 and 37.4 respectively at the close of 1955-56.

The outstandings at Rs. 25.76 crores in respect of advances made by the Reserve Bank were higher as compared to the previous year by Rs. 11.68 crores. There were significant increases in the outstandings in respect of loans from co-operative banks, government and other sources, which stood at Rs. 111.56 crores, Rs. 33.91 crores and Rs. 15.06 crores respectively at the close of 1956-57.

CREDIT STRUCTURE

The following table gives data relating to the loans advanced by primary co-operative societies of all types during the last three years:

Crores of rupees			
Item	1954-55	1955-56	1956-57
Advances ..	111.15	140.78	173.16
Recoveries ..	99.15	118.70	143.21
Outstandings ..	128.34	149.06	187.15
Overdues ..	21.82	22.63	24.18
(4) as percentage of (3) ..	17.0	15.1	12.9

The advances made during 1956-57 by primary societies were 23 per cent higher than during 1955-56.

Bombay accounted for Rs. 63.20 crores or 36.5 per cent of the aggregate advances.

The following table gives comparative statistics for 1955-56 and 1956-57 in regard to state co-operative banks, central co-operative banks and agricultural credit societies.

Amount in crores of rupees

Item	State co-operative banks		Central co-operative banks		Primary agricultural credit societies	
	1955-56	1956-57	1955-56	1956-57	1955-56	1956-57
1	2	3	4	5	6	7
Number ..	24	23	478	451	1,59,939	1,61,510
Membership (in thousands) ..	30	33	3.00	3.11	77.91	87.33
Advances ..	67.86	123.71	79.83	100.80	49.62	67.33
Repayments ..	57.57	110.62	68.19	65.33	38.25	51.05
Outstandings ..	34.77	49.62	54.34	71.90	59.84	76.82
Working capital ..	63.34	79.54	92.67	110.26	79.10	98.30
Owned funds ..	7.65	8.78	15.15	18.45	29.25	33.31
Deposits ..	36.67	38.39	55.71	58.48	7.05	8.05
Other borrowings ..	19.02	32.37	21.80	33.33	42.80	56.94

STATE CO-OPERATIVE BANKS

Following the territorial readjustment and integration effected under the States Reorganization Act 1956, the Manipur and Tripura State Co-operative Banks were newly formed, the Madhya Pradesh State Co-operative Bank was reconstituted into the Vidarbha and the Mahakoshal State Co-operative Banks while the Ajmer, Bhopal, Coorg and Vindhya Pradesh State Co-operative Banks ceased to be apex banks.

Consequently the number of state co-operative banks at the end of June 1957 stood at 23 compared to 24 a year before.

Of these, three state co-operative banks were functioning in Bombay and two each in Andhra, Madhya Pradesh and Punjab.

During 1956-57, the membership of the state co-operative banks declined from 36,394 to 33,440. Part of the decline is due to the exclusion of Ajmer, Bhopal, Coorg and Vindhya Pradesh co-operative banks from the list of state co-operative banks.

The paid-up capital and statutory reserves of the banks rose from Rs. 4.37 crores and Rs. 1.42 crores respectively at the commencement of the year to Rs. 5.31 crores and Rs. 1.46 crores respectively at the close of 1956-57.

The advances of state co-operative banks to their member banks and societies recorded an impressive rise during the year when they aggregated Rs. 113.77 crores against Rs. 58.10 crores during the previous year.

The advances to individuals amounted to Rs. 9.94 crores, the increase relatively to the year 1955-56 being negligible.

The overdues increased from Rs. 3.70 crores at the end of 1955-56 to Rs. 4.10 crores at the end of 1956-57.

The percentage of overdues to outstandings was 13.2 in the case of individuals and 7.9 in respect of societies against 10.2 and 10.7 respectively at the end of 1955-56.

Of the total investments of Rs. 19.96 crores at the end of 1956-57, Rs. 16.29 crores or approxi-

mately 82 per cent consisted of government and other trustee securities.

CENTRAL CO-OPERATIVE BANKS AND BANKING UNIONS

The declining trend in the number of central co-operative banks and banking unions continued during the year under review and the number of banks fell from 478 to 451, the smaller banks merging with adjacent larger banks.

Though the number of banks declined by 27, their membership rose from 3 lakhs to 3.11 lakhs during the year, comprising 1.47 lakh individuals and 1.64 lakh societies.

The working capital of the banks rose from Rs. 92.67 crores at the end of June 1956 to Rs. 110.26 crores at the end of June 1957. The central banks in Andhra, Bombay, Madras and Punjab accounted for over 62 per cent of the total working capital.

The owned funds of the central banks increased by about 22 per cent at the end of 1956-57.

Of the total deposits of Rs. 58.48 crores over 32 per cent was from co-operative societies and the rest from individuals and other sources. The increase in the deposits during the year was slight, being less than 5 per cent. On 30 June 1957, deposits constituted 53 per cent of the working capital compared to 60 per cent at the commencement of the period under review.

Loans advanced to individuals during 1956-57 rose by Rs. 6.52 crores to Rs. 15.96 crores.

There was also an increase of nearly 11 per cent in the loans due by individuals on 30 June 1957 compared to the position a year before. This is a discouraging feature as the proper function of a central bank is to finance affiliated societies.

Loans advanced to banks and societies during 1956-57 amounted to Rs. 84.84 crores representing an increase of 20.5 per cent over the previous year. Of this amount Rs. 25.20 crores was advanced by the central co-operative banks in Bombay.

At the end of 1956-57 the overdues amounted to Rs. 9.34 crores compared to Rs. 7.88 crores at the beginning of the year and constituted nearly 13 per cent of the outstanding loans compared to about 15 per cent in the previous year. The position of the overdues was particularly bad in the case of the central banks in Bihar, where they constituted over 44 per cent of the outstandings on 30 June 1957.

The investments of the banks aggregated Rs. 29.05 crores of which Rs. 15.65 crores were investments in trustee securities.

The average working capital per bank more than doubled itself during the period 1951-57. There was also some improvement in the average amount of loans advanced per bank.

AGRICULTURAL CREDIT SOCIETIES

Agricultural credit societies constitute the most important sector of the co-operative movement in the country. At the end of 1956-57 there were 161,510 such societies with a membership of 91.2 lakhs compared to 159,939 societies with a membership of 77.9 lakhs at the beginning of the year.

Nine out of every 16 societies were unlimited liability societies. As between the different states, Uttar Pradesh had the largest number of societies, viz. 42,646 which was more than double the number of societies in Bombay which ranked second with 17,812 societies.

The working capital of the agricultural credit societies rose by Rs. 19.20 crores to Rs. 98.30 crores during the year under review compared to an increase of Rs. 16.17 crores during 1955-56.

Borrowings from state or central banks, which stood at Rs. 55.90 crores as on 30 June 1957, formed the most important item of the working capital of these societies.

Deposits amounted to Rs. 8.05 crores at the end of 1956-57 against Rs. 7.05 crores at the commencement of the year. Of the total deposits, Rs. 4.04 crores or more than half was accounted for by Punjab and Bombay.

During 1956-57 loans advanced by agricultural credit societies rose to Rs. 67.33 crores from Rs. 49.62 crores during 1955-56 while the outstandings of loans stood at Rs. 76.82 crores at the end of June 1957 compared to Rs. 59.84 crores at the beginning of the year.

Overdues constituted about 22 per cent of the outstandings on 30 June 1957 against 25 per cent at the end of 1955-56.

The all-India averages in respect of membership, share capital, deposits, working capital and loans of agricultural credit societies are given in the following table:

Item	Amount in rupees	
	1955-56	1956-57
1. Membership per society	49	56
2. Working capital per society	4,946	6,086
3. Share capital		
(i) per society	1,051	1,228
(ii) per member	22	22
4. Deposits		
(i) per society	441	496
(ii) per member	9	9
5. Loan advanced per member	64	74

GRAIN BANKS

At the close of the year 1956-57 there were 8,191 grain banks with a membership of 7.62 lakhs and a working capital of Rs. 2.67 crores compared to 4,169 grain banks with a membership of 7.30 lakhs and a working capital of Rs. 2.42 crores at the end of the previous year.

Over 91 per cent of the banks were concentrated in Andhra, Bombay and Mysore.

The grain-loans advanced by the banks during 1956-57 amounted to Rs. 50.65 lakhs compared to Rs. 56.42 lakhs during the previous year.

Overdues, which amounted to Rs. 80.47 lakhs, constituted 68.5 per cent of the outstandings on 30 June 1957.

AGRICULTURAL CO-OPERATIVES

A Working Group on Agricultural Co-operatives, set up in pursuance of a National Development Council's decision on the subject which met in Jan. 1959 is believed generally to favour the establishment of multi-purpose societies at the village level, though Reserve Bank representatives strongly opposed the inclusion of credit and many other functions in their purview.

The Reserve Bank appeared to be of the view that primary societies should concern themselves exclusively with extension, management and service functions, leaving credit, co-operative farming and tube-wells to other bodies.

Credit in particular, according to this scheme, should be entrusted to large and independent bodies, serving eight to ten villages each. The primary societies would be responsible for processing all loan applications and for recovery work.

In the opinion of the Working Group generally, this would weaken the co-operative movement and defeat the object of the programme proposed. The Group hoped to finalise its report in Feb. 1959, leaving the decision on this crucial and other matters to the Government.

Another objection to the Reserve Bank proposal was that while excluding primary societies from all power and influence—the peasant would naturally look upon them as mere obstacles in the way of credit, which was his main need—it would saddle them with the

responsibility of effecting recoveries and maintaining accounts. Even the service functions of these societies would be severely affected, credit for the purchase of items like seed, fertiliser and implements having to be sanctioned by a different body.

The Reserve Bank's view was that it needed a certain degree of security and administrative efficiency before it could entrust its funds to a body. This would not be forthcoming among the primary societies for some time to come. Ventures like co-operative farming and tube-wells should be excluded from the purview of these institutions because of the financial risk involved.

The group was understood generally to be agreed that share participation by the Government should be avoided. Although this would reduce the credit available, official control and supervision which was a necessary accompaniment of such participation, was an evil that was to be combated if initiative was to be fostered among the community. Instead, large-scale societies and well-to-do farmers should be invited to come forward and help. All production 'taccavi' should be diverted to the co-operative banks, only distress 'taccavi' being distributed by the Government directly.

"De-officialisation" of the co-operative machinery was to begin straightway. Official chairmen of central banks were to be replaced by non-officials, the Government retaining only registration and auditing and some other allied functions.

One of the points emphasised by the Working Group was the need for a trained corps of co-operative cadre, who apart from discharging accounting and other similar functions, should act as the spearhead of the movement in the villages. This should be the responsibility of co-operative associations or unions themselves, not of the Government.

The Group had devoted some attention to the question of training. It had come to the conclusion that the present institutions—six by the Reserve Bank, eight by the Union Government and about 40 by the States—were inadequate in view of the target of 20 million members and had urged the committee on co-operative training to get down to the task of expanding these facilities.

Finally, the Group was of the opinion that the programme of expansion should proceed side by side with advice to improve and consolidate existing societies.

In Nov. 1958 a conference of Registrars of co-operative Societies dealt with a number of issues arising from a co-operative programme decided by the National Development Council.

Among other things, the conference helped to emphasise the need for a flexible approach to the problem.

The consensus of opinion on the much debated question of the character and size of the co-operative society was that a viable unit would have to embrace three villages instead of one. Similarly, it was agreed that while these societies should, as a rule, have limited liability, States like Madras, which had successfully worked the unlimited liability type, should have the option to continue the system.

With regard to credit, the general opinion was that in view of the expanded scope of the proposed societies in this respect, Government help, at present given as taccavi or in other forms, should be channelled into the co-operative structure, thus strengthening its resources, which would be helped further by proper co-ordination with the small savings drive.

The Registrars, who have returned to their States with a livelier appreciation of the scope and demands of the new programme, were expected to discuss the matter further with their departments, and if necessary, with the respective Chief Ministers, who were a party to the N.D.C. decision.

The Registrars were occupied during the conference with the new emphasis on the small-sized society, which constitutes a basic change for the States, particularly like Uttar Pradesh, which had in recent years plumped for large societies in a big way. It was felt that while the emphasis had hitherto erred on the side of size, the N.D.C. resolution had swung too far to the other extreme. It was felt that the limit of 1,000 members need not be observed too rigidly.

With regard to the scope and functioning of these societies, the conclusion appeared to have been that a single multi-purpose unit should look after credit, supply of fertilisers, seeds and implements and processing and marketing of produce. Functional co-operatives, concerned with items like soil conservation and contour bunding, involving as they do in many cases, a large number of villages, might come in later as supplementaries if the basic units were unable to take up the work.

Processing was added as an important function of the marketing co-operative. Great importance was attached to the marketing societies because they would, in course of time, become an integral part of the Government's programme for the nationalisation of the wholesale trade in food grains.

The Second Plan target for marketing co-operatives is 1,900, of which 1,000 were expected to be established by the end of 1958. It was suggested that the States should try and set up the remaining 9,000 during 1959 itself, in which case the Centre would be prepared to consider additional financial help.

NON-AGRICULTURAL CREDIT SOCIETIES

The non-agricultural credit societies comprise urban banks, employees' credit societies and other special types of credit societies which cater for the banking and credit requirements of urban people.

These societies numbered 10,150 at the end of June 1957 compared to 10,003 at the commencement of the year.

More than 50 per cent of these societies were concentrated in Punjab, Bombay and Mysore.

Their membership rose by 1.66 lakhs to 32.39 lakhs during 1956-57.

The paid-up capital and reserves of these societies amounted to Rs. 20.64 crores and Rs. 9.48 crores respectively on 30 June 1957 compared to Rs. 19.09 crores and Rs. 8.98 crores respectively at the beginning of the year.

Their working capital recorded a fairly large increase from Rs. 85.74 crores at the beginning of the year to Rs. 100.41 crores at the end of June 1957.

Loans advanced during 1956-57 amounted to Rs. 82.07 crores and represented an increase of Rs. 10.01 crores over the amount advanced during the preceding year.

On 30 June 1957, the loans due by individuals amounted to Rs. 74.99 crores and the overdues formed 8.2 per cent of this amount.

Investments in trustee securities amounted to Rs. 12.58 crores at the end of 1956-57.

The deposits held by these societies have been rising steadily and, on 30 June 1957, they amounted to Rs. 64.89 crores compared to Rs. 53.84 crores a year before.

The non-agricultural credit societies in Bombay accounted for a little over 49 per cent of the total deposits.

Having adequate resources of their own, the societies generally did not have to borrow to any appreciable extent from outside sources. Thus, at the end of June 1957, the borrowings of these societies amounted to only Rs. 5.80 crores.

LAND MORTGAGE BANKS

There were 12 central land mortgage banks with a membership of 116,145 individuals and 419 banks at the end of 1956-57 compared to 9 banks with a membership of 50,599 individuals and 401 banks at the end of the previous year.

The paid-up share capital and reserves of the banks amounted to Rs. 1.09 lakhs and Rs. 62 lakhs respectively at the end of 1956-57.

The working capital of the banks is built up mainly by floating debentures which are guaranteed as to repayment of principal and payment of interest by the respective state governments.

The debentures outstanding on 30 June 1957 amounted to Rs. 16.96 crores compared to Rs. 14.94 crores at the end of June 1956.

The loans advanced by the banks during 1956-57 amounted to Rs. 3.30 crores, while outstanding on 30 June 1957 stood at Rs. 14.94 crores against Rs. 13.08 crores at the end of the previous year.

Sinking fund investments amounted to Rs. 4.94 crores at the end of 1956-57.

During the year under review the number of primary land mortgage banks rose by 24 to 236 and their membership by 19,759 to 3.34 lakhs.

During the same period the paid-up capital of these banks rose from Rs. 55.64 lakhs to Rs. 98.70 lakhs.

Borrowings from central land mortgage banks and loans due by individuals stood at Rs. 10.94 crores and Rs. 11.51 crores respectively on 30 June 1957.

STATE ASSISTANCE

The following table shows the assistance given by the State Governments to the different types of co-operative institutions in the form of contribution to their paid-up share capital.

Lakhs of rupees

State	State co-operative banks	Central co-operative banks	Primary agricultural societies	Central land mortgage banks	Marketing Societies		Others	Total
					State and central	Primary		
Andhra	4.29	6.00	8.24	1.00	0.13	0.90	..	20.56
Assam	15.00	0.80	..	4.00	1.00	..	..	20.50
Bihar	40.00	20.00	..	..	..	..	..	60.00
Bombay	56.40	39.10	1,90.74	10.00	5.81	3.47	36.34	3,41.86
Jammu & Kashmir	12.90	..	..	..	..	..	..	12.90
Kerala	5.00	..	2.78	1.50	..	0.50	0.09	9.87
Madhya Pradesh	14.60	32.00	13.83	..	..	2.60	..	63.03
Madras	8.00	..	2.20	..	..	..	..	10.20
Mysore	5.00	..	..	..	..	5.10	..	10.10
Orissa	4.00	6.85	17.97	2.25	0.51	..	11.50	43.08
Punjab	18.00	13.90	87.75	..	..	..	..	119.65
Rajasthan	8.93	7.92	4.70	..	0.25	0.40	..	22.20
Uttar Pradesh	5.00	..	..	..	10.00	..	0.06	15.06
West Bengal	15.00	..	..	..	0.25	0.81	0.01	16.07
Himachal Pradesh	8.00	..	..	..	0.50	..	..	8.50
Manipur .. .. .	..	..	..	..	..	..	0.04	0.04
Total	2,20.12	1,26.27	3,28.21	18.75	18.45	13.78	48.04	7,73.62

NON-CREDIT SOCIETIES

The number and membership of the state non-credit societies declined from 82 and 22,894 at the end of June 1956 to 56 and 15,644 at the close of 1956-57.

On 30 June 1957 their paid-up share capital was also less at Rs. 1.70 crores compared to Rs. 1.82 crores at the end of the preceding year.

The turnover of these societies during 1956-57 was of the value of Rs. 14.52 crores which was more or less of the same order as during 1955-56.

On 30 June 1957 the central non-credit societies numbered 2,947 and their membership consisted of 20.49 lakh individuals and 74,024 societies. The corresponding figures on 30 June 1956 were 2,764, 18.48 lakhs and 67,046 respectively.

Their turnover for the year 1956-57 aggregated Rs. 71.46 crores which exceeded the turnover for the preceding year by Rs. 13.61 crores.

At the end of June 1957 there were 31,905 agricultural non-credit societies of all types with a membership of 27.58 lakhs and a working capital of Rs. 44.73 crores compared to 30,268 societies with a membership of 25.92 lakhs and a working capital of Rs. 28.41 crores at the commencement of the year.

Their turnover during 1956-57 was of the value of Rs. 43.96 crores compared to Rs. 31.16 crores during the preceding year.

Out of the 31,905 agricultural non-credit societies 9,731 were agricultural marketing societies. The membership of the marketing societies rose by 2.67 lakhs to 7.51 lakhs during the year under report.

The sales effected by these societies during 1956-57 were valued at Rs. 24.51 crores against Rs. 15.23 crores during the preceding year.

On 30 June 1957, the number, membership and working capital of the non-agricultural non-credit societies stood at 23,622, 31.64 lakhs and Rs. 60.89 crores against 27,745, 33.23 lakhs and Rs. 58.13 crores at the beginning of the year.

Their turnover during the year under review was of the value of Rs. 61.89 crores compared to Rs. 44.78 crores during 1955-56.

The number of supervising unions rose from 568 to 650 during the year under review but the number of societies affiliated to them fell steeply from 29,550 to 31,136, and in the result,

their income also declined to Rs. 13.81 lakhs from Rs. 14.94 lakhs during the preceding year.

The number of supervisors employed by them was also less at 1,410 compared to 1,536 at the commencement of the year.

The number of state unions and institutes declined by 4 during 1956-57.

The total number of societies affiliated to them was 39,172 of which 38,677 were primary societies and the rest, viz. 495 were central societies.

Of their total income of Rs. 47.70 lakhs, grant from government and fees or subscriptions from affiliated societies amounted to Rs. 39.08 lakhs and Rs. 1.00 lakh respectively.

Life insurance societies have been integrated with the Life Insurance Corporation of India.

Thus at the end of June 1957 there were only 6 insurance societies comprising 4 fire and general insurance societies and 2 motor insurance societies in the co-operative fold.

SOCIETIES UNDER LIQUIDATION

There were 13,372 societies under liquidation at the end of June 1956. During 1956-57, 2,258 societies were brought under liquidation and the accounts of 1,670 societies were finally wound up.

The value of assets realised and liabilities paid off during 1956-57 amounted to Rs. 64.46 lakhs and Rs. 49.37 lakhs respectively against Rs. 42.46 lakhs and Rs. 32.56 lakhs respectively during the preceding year.

At the end of 1956-57, 13,960 societies, were under liquidation.

As on the same date the liabilities and assets of the societies under liquidation amounted to Rs. 6.25 crores and Rs. 5.31 crores respectively against Rs. 5.93 crores and Rs. 4.78 crores at the beginning of the year 1956-57.

TRAINING OF CO-OPERATIVE PERSONNEL

Position : June 1958.
The drive for training a large number of persons to meet the needs of growing co-operative programme in the Second Five-Year Plan is making headway according to schedule.

Already about 14,000 candidates have been trained to take up positions as managers, accountants, supervisors and auditors in co-operative societies. Additional 15,000 will be trained during the remaining three years of the

Second Plan at the 47 schools spread in 14 States and 2 Union Territories. Candidates from Tripura and Himachal Pradesh, which have no training facilities, will be trained at schools in West Bengal and Delhi respectively.

For encouraging development of cooperation in Community Development Blocks, 1,220 Block Level Co-operative Officers have been trained and 700-800 more are expected to be trained annually.

Training to all ranks of co-operative personnel is provided by a Central Committee set up in 1953 by the Government of India in collaboration with the Reserve Bank.

Technical Staff

Progress has also been made in the training of technical staff for specialised agencies like marketing unions, Land Mortgage Banks and warehouses. Five regional training centres, providing special courses in co-operative marketing, at Poona, Madras, Meerut, Ranchi and Indore, have completed training of 347 persons; besides 109 are at present attending courses.

In co-operative land mortgage banking, training has been given to 148 persons at the Madras Centre and about 40 persons are under training.

Twenty persons selected for appointment as warehousemen and technical assistants at the nine warehouses set up so far were given reorientation training before posting.

Of the 400 senior personnel required for manning co-operative departments and institutions in the States, 310 have been trained and 37 are under training at the All-India Co-operative Training College, Poona. Besides, 641 "intermediate personnel", like Co-operative Sub-Registrars, have completed training and 214 are at present attending courses.

55 centres were set up in N.E.S. and Community Development Blocks during 1957-58 for the education of members and office-bearers. Earlier, this method had been tried in six pilot areas in Delhi, Bihar, Madhya Pradesh and Bombay. Already 84,378 members and office-bearers of co-operative societies have been given education in the principles and practice of co-operation. The ultimate object is to impart such knowledge to 20,000 office-bearers, 1,50,000 members of Managing Committees and 7.5 lakh members of societies.

NET RESULT

The net results of the operations of different types of societies during the year under review are given in the following tables.

Amounts in lakhs of rupees

Type of society	1955-56				1956-57			
	PROFIT		LOSS		PROFIT		LOSS	
	No. of societies	Amount	No. of societies	Amount	No. of societies	Amount	No. of societies	Amount
State co-operative banks ..	22	38	2	1	19	47	2	1
Central co-operative banks	84	61	6	374	1,18	46	9
Primary agricultural credit societies and grain banks	2,01	..	44	1,14,310	2,61	25,955	55
Central land mortgage banks	8	..	—	11	12	2	—
Primary land mortgage banks	7	..	1	201	8	37	2
State and central non-credit societies	1,58	..	34	621	2,05	181	55
Primary agricultural non-credit societies	69	..	66	6,440	1,65	5,582	90
Primary non-agricultural credit societies	1,51	..	8	7,118	2,00	1,496	12
Primary non-agricultural non-credit societies	2,31	..	1,59	11,100	2,82	7,498	2,16
TOTAL	9,47	..	3,19	1,39,994	12,95	40,800	4,40

FIGURES AT A GLANCE—1956-57

Amounts in lakhs of rupees

Type of society	Number	Membership (in thousands)	Loans advanced	Working capital	VALUE OF GOODS	
					Received	Sold
I. All societies ..	2,44,769	1,93,73 ¹	173,16 ¹	567,67		
II. STATE AND CENTRAL SOCIETIES						
1. State co-operative banks ..	23	33	123,71	79,54		
2. Central co-operative banks ..	451	3,11	100,80	110,26		
3. Central land mortgage banks ..	12	1,17	3,90	21,32		
4. State non-credit societies ..	56	16	1,41	12,90	14,83	14,82
5. Central non-credit societies ..	2,947	21,23	7,61	23,95	70,12	71,46
III. PRIMARY SOCIETIES						
6. AGRICULTURAL						
(i) Credit societies ..	1,61,510	91,17	67,33	96,30	9,70	9,85
(ii) Grain banks ..	8,191	7,62	51	2,67	2	1
(iii) Primary land mortgage banks	326	3,34	2,05	12,70		
(iv) Non-credit societies ..	31,905	27,58	14,68	44,73	43,71	43,96
7. NON-AGRICULTURAL						
(i) Credit societies ..	10,150	32,39	82,07	100,41	3,02	3,56
(ii) Non-credit societies ..	23,522	31,64	5,06	60,89	58,34	61,39

¹ Relates to primary societies.

ALL CO-OPERATIVE SOCIETIES—NUMBER, MEMBERSHIP AND WORKING CAPITAL AT THE END OF 1954-57—BY STATE

Amounts in thousands of rupees

State	No. of societies	Membership of primary societies	WORKING CAPITAL						
			Total	Share capital paid-up	Reserve and other funds	Loans from			
						Co-operative institutions	Reserve Bank	Government	Other sources
Andhra ..	19,131	23,34,288	68,37,02	9,39,96	6,63,54	21,02,21	6,34,25	4,15,31	70,19
Assam ..	5,234	3,33,136	6,52,34	75,36	45,17	1,39,53	1,00,00	22,32	5,38
Bihar ..	23,585	10,54,478	13,82,43	2,36,02	1,40,89	2,09,95	—	1,81,19	47,26
Bombay ..	30,207	35,81,860	186,12,47	33,52,75	16,77,39	27,01,15	6,24,39	7,01,26	6,89,85
Jammu and Kashmir ..	2,434	2,13,098	2,30,44	41,48	25,41	81,19	—	45,78	11
Kerala ..	4,298	9,13,194	10,18,01	1,93,60	1,98,02	1,47,30	33,92	34,16	9,42
Madhya Pradesh ..	19,593	6,78,567	25,50,20	3,10,85	2,36,63	7,88,26	1,86,66	1,35,69	40,16
Madras ..	12,406	23,16,607	74,30,00	9,20,36	9,86,01	16,26,23	3,81,53	5,17,71	2,34,73
Mysore ..	12,509	17,56,902	39,85,55	5,52,97	3,81,88	8,21,14	1,00,00	1,89,65	1,66,89
Orissa ..	9,164	7,48,141	12,56,39	1,75,62	1,43,72	3,26,69	28,02	1,05,50	38,31
Punjab ..	23,235	11,92,332	38,97,55	8,15,91	3,29,78	9,93,18	2,02,42	2,03,74	32,00
Rajasthan ..	8,374	3,16,754	8,04,07	1,39,67	93,93	1,77,62	64,00	78,09	13,59
Uttar Pradesh ..	53,451	25,13,510	48,93,87	9,39,39	7,40,06	8,26,31	1,97,45	6,10,97	1,00,91
West Bengal ..	18,337	12,30,220	26,34,37	4,39,17	3,48,91	1,62,36	23,15	1,00,25	36,43
Andaman and Nicobar Islands ..	24	2,551	6,80	38	5,90	—	—	10	47
Delhi ..	1,565	99,658	3,74,09	69,31	20,41	28,05	—	28,68	5,56
Himachal Pradesh ..	787	54,491	1,42,68	29,99	13,50	19,34	—	2,47	12,74
Manipur ..	126	8,170	4,58	1,95	46	10	—	3,33	89
Pondicherry ..	61	8,730	21,01	2,98	1,32	5,03	—	4,30	—
Tripura ..	248	14,662	28,87	6,40	49	47	—	11,39	21
Total 1956-57 ..	2,44,769	1,93,73,349	567,66,82	92,46,12	60,53,42	111,56,11	25,75,79	33,90,89	15,05,64
Total 1955-56 ..	2,40,395	1,76,21,978	468,81,69	77,15,93	62,27,91	80,48,24	14,07,42	24,32,94	6,51,34
Total 1954-55 ..	2,19,288	1,60,20,681	390,51,66	64,72,72	56,11,00	60,05,69	8,43,60	20,16,25	7,64,83

State	Working Capital (Contd.)					Population in millions ^a	Number of societies per 1 lakh inhabitants	Number of members of primary societies per 1,000 inhabitants	Average working capital (in rupees) per head of population
	Deposits from			Borrowings of Land Mortgage Banks and Societies					
	Co- operative institutions	Primary societies	Individuals and other sources	Debentures	Individuals and other sources				
Andhra	88.44	2,40.13	7,93.31	4,03.26	4,86.42	33.06	56.3	66.7	21
Assam	11	28.14	2,36.10	—	23	10.10	51.8	32.9	6
Bihar	83	1,52.90	4,11.39	—	—	41.26	57.2	25.6	3
Bombay	3,27.34	10,36.05	67,68.02	5,47.82	1,86.45	53.90	56.0	66.5	35
Jammu and Kashmir	—	14.83	21.64	—	—	4.67	52.1	45.6	5
Kerala	41	94.23	2,47.12	32.70	27.13	15.43	27.8	59.2	7
Madhya Pradesh ..	75.20	1,22.43	5,73.54	41.06	39.72	27.48	71.3	24.7	9
Madras	82.58	3,83.49	13,52.91	5,13.65	4,30.80	32.69	37.9	70.9	23
Mysore	34.09	1,82.27	12,13.74	1,43.90	2,00.02	21.70	57.6	81.0	18
Orissa	31.86	1,49.84	2,26.22	20.00	10.61	15.22	60.2	49.2	8
Punjab	91.59	1,62.36	10,65.97	—	—	17.08	136.0	69.8	23
Rajasthan	28.97	41.63	1,65.60	—	97	17.47	47.9	18.1	5
Uttar Pradesh ..	1,89.44	1,21.53	11,67.54	—	27	67.83	78.8	37.1	7
West Bengal ..	53.87	1,02.14	13,52.40	—	15.69	28.45	64.5	43.2	9
Andaman and Nicobar Islands ..	—	—	5	—	—	0.03	80.0	85.0	23
Delhi	2.82	7.38	2,11.94	—	—	2.12	73.8	47.0	18
Himachal Pradesh ..	8	8.54	56.00	—	—	1.14	69.0	49.6	13
Manipur	—	1.60	25	—	—	0.63	20.0	13.0	1
Pondicherry	—	4.92	2.46	—	—	0.37	16.5	23.6	6
Tripura	—	7.69	2.22	—	—	0.74	33.5	19.8	4
Total for 1956-57 ..	10,07.63	23,62.10	158,68.42	17,02.39	13,98.31	392.27	62.4	49.4	14
Total for 1955-56 ..	11,97.40	25,42.13	138,03.78	15,02.00	12,37.54	386.69	62.2	45.6	12
Total for 1954-55 ..	8,93.09	20,44.64	119,94.48	12,78.84	11,26.51	381.88	57.42	42.0	10

^a Including deposits and other borrowings amounting to 1,17,10.^b Statutory estimates furnished by the Registrar General, Ministry of Home Affairs, Government of India.

The following symbols have been used in all the tables :

.. = not available.

— = nil or negligible.

ALL CO-OPERATIVE SOCIETIES—NUMBER AND MEMBERSHIP AT THE END OF 1954-57 —BY CATEGORY

State	State and Central					Agricultural				Non-Agricultural	
	State and central banks and banking unions	Non-credit societies	Central land mortgage banks	State unions and institutes	Super-vialing unions	Credit societies	Grain banks	Non-credit societies	Primary land mortgage banks	Credit societies	Non-credit societies
Number of Societies											
Andhra	26	48	2	4	128	9,690	3,559	2,772	70	798	2,034
Assam	15	13	1	1	5	2,649	—	1,245	2	162	1,141
Bihar	48	157	—	1	1	13,593	25	7,953	—	140	1,667
Bombay	58	60	2	2	193	17,812	2,721	2,449	26	1,993	4,891
Jammu and Kashmir	5	69	—	—	—	1,621	—	248	—	112	879
Kerala	3	17	2	1	50	2,098	—	711	4	371	1,041
Madhya Pradesh ..	58	5	—	3	4	17,021	130	596	16	481	1,279
Madras	15	43	1	7	131	8,096	3	1,394	72	803	1,841
Mysore	21	46	1	1	135	7,318	1,206	1,131	98	1,023	1,529
Orissa	18	5	1	1	—	7,147	483	348	—	235	928
Punjab	69	56	—	2	—	13,144	—	3,351	—	2,099	4,514
Rajasthan	25	62	2	—	3	5,445	7	489	22	371	2,048
Uttar Pradesh ..	64	2,332	—	1	—	42,646	—	5,762	6	807	1,833
West Bengal ..	45	52	—	1	—	12,120	57	2,967	10	531	2,534
Andaman and Nicobar Islands	—	—	—	—	—	1	—	—	—	—	23
Delhi	1	8	—	—	—	370	—	316	—	288	552
Himachal Pradesh ..	1	27	—	—	—	576	—	56	—	25	102
Manipur	1	1	—	—	—	14	—	50	—	2	58
Pondicherry	—	—	—	—	—	22	—	11	—	4	24
Tripura	1	2	—	1	—	127	—	36	—	5	76
Total 1954-57 ..	474	3,003	12	26	650	1,61,510	8,191	31,905	326	10,150	28,532
Total 1955-56 ..	502	2,846	9	30	582	1,59,939	8,169	30,268	302	10,003	27,745
Total 1954-55 ..	508	2,659	9	24	563	1,43,320	8,102	30,197	292	9,348	24,266
Number of Members											
Andhra	15,746	22,725	77	9,790	4,461	8,70,156	3,32,975	4,69,560	1,14,115	1,67,508	3,79,974
Assam	4,393	885	744	12	54	74,605	—	2,16,959	280	15,542	25,750
Bihar	18,132	11,674	—	22,461	42	4,47,841	32,631	3,38,414	—	87,910	1,59,682
Bombay	94,701	40,785	96,301	424	9,307	12,38,415	2,16,640	4,24,609	43,766	11,24,138	5,34,392
Jammu and Kashmir ..	3,122	12,161	—	—	—	1,82,768	—	12,409	—	3,257	14,664
Kerala	4,425	8,486	6,045	66	3,372	4,55,730	—	1,14,722	4,027	2,05,022	1,33,693
Madhya Pradesh ..	55,242	435	—	2,057	3,213	4,61,100	4,092	55,656	12,419	61,925	83,375
Madras	12,747	17,034	391	1,266	7,256	8,78,962	2,288	3,13,997	95,588	5,32,660	4,93,092
Mysore	25,644	28,397	379	843	3,027	7,68,420	77,652	2,31,297	57,239	2,54,770	3,67,524
Orissa	10,020	312	11,875	1,145	—	4,80,933	87,857	29,486	—	39,874	1,09,992
Punjab	26,334	9,845	—	900	—	6,75,620	—	2,36,301	—	1,02,535	1,78,876
Rajasthan	11,687	3,645	749	—	134	1,81,992	516	14,241	1,899	27,237	80,869
Uttar Pradesh ..	45,563	19,69,954	—	74	—	19,13,085	—	1,22,127	891	1,43,338	3,34,069
West Bengal ..	14,319	9,268	—	77	—	4,14,837	7,608	1,67,931	3,362	4,31,341	2,05,141
Andaman and Nicobar Islands	—	—	—	—	—	171	—	—	—	—	2,380
Delhi	925	1,666	—	—	—	16,571	—	12,294	—	36,649	34,144
Himachal Pradesh ..	841	1,155	—	—	—	45,954	—	3,269	—	1,297	5,971
Manipur	32	64	—	—	—	865	—	2,719	—	360	4,226
Pondicherry	—	—	—	—	—	956	—	2,046	—	3,121	2,607
Tripura	122	55	—	47	—	7,845	—	2,975	—	243	3,599
Total 1954-57 ..	3,43,995	21,34,546	1,16,561	39,172	30,366	91,16,846	7,62,259	27,57,911	3,23,586	32,38,727	81,64,020
Total 1955-56 ..	3,35,949	19,37,609	90,786	41,980	39,259	77,90,850	7,30,429	23,91,826	3,13,827	30,72,600	73,22,447
Total 1954-55 ..	3,08,294	18,27,691	65,893	39,413	36,673	65,65,416	6,71,503	24,94,508	2,90,931	28,47,944	71,50,377

PRIMARY SOCIETIES—LOAN TRANSACTIONS DURING 1954-57—BY STATE

Amounts in thousands of rupees

State	No. of members (in thousands)	Loans advanced	Loans repaid	Loans outstanding	Of which overdue ¹	Amount advanced per member (in rupees)
Andhra	23.24	14,60.84	10,61.11	22,06.90	2,78.00	63
Assam	3.38	1,07.67	59.83	1,02.24	15.77	32
Bihar	10.64	3,92.36	3,18.08	4,20.87	67.65	37
Bombay	35.82	63,19.99	53,67.71	56,14.75	7,36.00	176
Jammu and Kashmir	2.13	61.76	37.03	49.77	3.20	29
Kerala	9.13	3,47.82	2,65.98	4,07.79	62.01	33
Madhya Pradesh	6.79	7,54.85	5,72.80	8,13.38	1,11.71	111
Madras	23.17	21,61.88	19,52.04	25,34.34	2,06.37	93
Mysore	17.57	18,75.10	16,00.24	20,86.99	2,76.70	107
Orissa	7.48	2,37.59	1,79.03	3,54.13	95.25	32
Punjab	11.92	7,71.37	5,99.40	9,90.01	2,06.56	65
Rajasthan	3.17	1,63.17	1,34.68	2,08.06	38.60	52
Uttar Pradesh	25.14	8,12.76	6,63.39	10,36.44	1,26.88	32
West Bengal	12.30	17,17.89	14,17.29	17,37.95	1,80.19	140
Andaman and Nicobar Islands	3	—	—	—	—	—
Delhi	1.00	99.86	73.97	1,12.77	14.60	100
Himachal Pradesh	56	12.18	7.55	26.83	3.28	22
Manipur	8	4.01	35	2.35	5	60
Pondicherry	9	13.62	10.15	7.68	2	151
Tripura	15	1.14	27	2.01	9	8
Total 1956-57	1,93.74	173,15.88	143,20.70	187,15.26	24,17.93	89
Total 1955-56	1,76.12	140,78.42	118,70.38	149,96.36	22,62.67	80
Total 1954-55	1,00.21	111,15.17	99,14.88	128,33.74	21,82.12	69

¹ Overdues of primary non-credit societies are not included.

CENTRAL CO-OPERATIVE BANKS AND AGRICULTURAL CREDIT SOCIETIES—1950-51 AND 1956-57

(Average per Bank or Society)

Amounts in thousands of rupees

Item	Central co-operative banks		Agricultural credit societies		Item	Central co-operative banks		Agricultural credit societies	
	1950-51	1956-57	1950-51	1956-57		1950-51	1956-57	1950-51	1956-57
1. Number	305	451	1,15,462 ¹	1,61,510	6. Borrowings	1.93	7.39	1	4
2. MEMBERSHIP					7. Working capital	11.16	24.45	4	6
(i) Individuals	241	325	45	56	8. Advances	16.40	22.35	2	4
(ii) Banks and societies	213	363	—	—	9. Outstandings	6.76	15.94	3	5
3. Share capital paid-up	80	2.46	1	1	10. Overdues	59	2.07	1	1
4. Reserve and other funds	95	1.62	1	1	11. Percentage of overdues to outstandings	8.7	12.9	33.0	20.0
5. Deposits	7.48	12.97	2	1					

¹ Including grain banks.

The overwhelming majority of the credit societies are in the former Part A States, a fact that shows that they are not evenly distributed over the country.

The crucial problem here is making credit available to the average cultivator at rates which he can actually afford. The rates are high ranging as they do between 12½% and 24%, though there are States where the rate ranges between 6½% and 9%.

In answer to a question in Parliament it was stated that the rural credit target provided for 1958-59 was Rs. 140 crores. During 1956-57 it was Rs. 65 crores, in 1957-58 it was Rs. 100 crores.

In summing up the whole movement, it may be noticed that there was an all round improvement in the profits made by co-operative societies during 1956-57 compared to the previous year. The increase was, however, not uniform as between the different types of societies.

The largest increase was noticed in the case of primary agricultural non-credit societies whose profits rose from Rs. 69 lakhs in 1955-56 to Rs. 1.65 lakhs in the current year.

Simultaneously with the increase in profits, losses made by the societies too have shown an increase, particularly in the case of primary non-agricultural non-credit societies.

In the case of central co-operative banks the number of banks showing a loss declined from 61 to 46 but the amount of loss incurred by the 46 banks at Rs. 9 lakhs was 50 per cent in excess of that incurred by all the 61 banks in 1955-56.

PUBLIC HEALTH

MATTERS connected with health fall largely in the State field.

The Centre is, however, directly responsible even for State subjects in the Centrally administered areas of Manipur, Delhi, Tripura and Himachal Pradesh.

The Central Government's function in regard to matters which are primarily the responsibility of States themselves, can be stated to be co-ordination, the collection and supply of information, supply of expert technical assistance and advice, and such other assistance as can be given for the promotion of the health and well-being of the country.

A Central Health Service has been sanctioned; when fully constituted it will comprise about 350 Class I posts and an equal number of class II posts.

CENSUS

In 1956, it was estimated, there were about 10,000 medical institutions and about 125,000 beds. This would represent an increase during the First Plan of about 16 per cent in institutions and 10 per cent in beds.

The number of doctors was a little under 70,000 and of dental surgeons about 700.

The total outlay on public health during the First Plan was about Rs. 101 crores.

Second Plan: Rs. 256 crores.

The main facts (based on 1951 census reports) are given below:

About 380,000 persons are engaged in medical and health services in the country as a whole. Out of this 230,000 live in towns and 150,000 live in villages. These may be divided as follows (exclusive of five Districts in Bihar):

Registered medical practitioners (91,930); Vaidis, hakims and those not registered (96,147); Compounders (38,407); Nurses (31,517); Midwives (23,938); Vaccinators (5,928); Dentists (3,283); Others engaged in hospitals and private establishments rendering medical or health services but not including scavengers or sanitary staff (72,970).

Number of hospitals, 8,601 (1951); no. of beds, 113,557 (1951); no. of nursing homes, 500 (1952); no. of medical colleges (including 3 dental colleges, 3 nursing, one pharmacy), 34 (1952); no. of colleges for indigenous systems, 50 (1952); no. of special institutions (e.g., radiological) conducted by private agencies, 195; no. of maternity and child welfare centres (urban) 664, (rural) 418 (1947); no. of trained visitors (urban) 231, (rural) 136 (1947); no. of trained midwives (urban) 922, (rural) 255 (1947); no. of trained dais (urban) 1,264, (rural) 1,387 (1917).

VITAL STATISTICS

The registered birth rates, death rates and infant mortality rates are given below:

	Birth rate.	Death rate.	Infant Mortality rate.
1930 ..	33.0	23.0	149
1940 ..	33.0	22.0	160
1947 ..	26.6	19.7	144
1948 ..	25.4	17.1	130
1949 ..	26.7	15.8	123
1950 ..	24.4	16.6	127
1953 ..	24.8	13.0	119
1954 ..	24.4	12.5	109
1955* ..	27.0	11.7	100
1956† ..	25.2	11.4	104

Note: Figs. for 1930 and 1940 relate to British Indian provinces. The rest relate to former Part 'A' States and Delhi, Ajmer, Coorg.

* Excludes Bihar, M.P., Orissa.

† Figures are provisional. This also excludes Bihar, M.P., Orissa and Coorg.

The infant mortality rates in some of the Indian cities per mille of live births are given below.

Name of the City	1956*	1957*
Ahmedabad ..	N.A.	149
Bombay ..	N.A.	110
Calcutta ..	129	N.A.
Delhi ..	79	N.A.
Lucknow ..	96	97
Madras ..	145	N.A.
Nagpur ..	N.A.	73

N.A. = Not available.

* Figures are provisional.

The following paragraph gives the maternal death-rate (deaths per 1,000 of live and stillbirths) for 1955 in some major towns in India.

Ahmedabad, 0.6; Bombay, 1.0; Calcutta, 2.6; Delhi City, 1.7; Lucknow, 1.6; Madras, 2.3.

TROPICAL DISEASES

The following table gives the number of deaths and rates (number of deaths for every 1,000 of the population) from different diseases recorded in former Part 'A' States excluding Assam, Delhi, Coorg, Ajmer and Mysore.

	1955*		1956†	
	Total	Rate	Total	Rate
Cholera ..	7,256	0.03	13,267	0.06
Dysentery & Diarrhoea ..	131,251	0.6	118,495	0.9
Fever ..	1,048,927	4.8	991,917	4.8
Malaria† ..	—	—	—	—
Plague ..	178	—	142	—
Respiratory disease ..	290,143	1.3	223,145	0.9
Small-pox ..	21,184	0.1	12,664	0.06
Tuberculosis† ..	—	—	—	—
Other causes ..	1,024,581	4.7	912,874	4.6
Total ..	2,523,520	11.6	2,272,504	11.4

* Excluding Bihar, M.P., Orissa.

† Figures are provisional. This also excludes Bihar, M.P., Orissa and Coorg.

Death rates from certain causes recorded in the various States of India for 1956:

State (Pre-reorganization)	Cholera	Small-pox	Plague	Fever	Dysentery & Diarrhoea	Respiratory diseases	All other causes	Total
Andhra ..	0.03	0.1	0.002	4.6	0.7	1.01	•	•
Assam ..	0.01	0.01	0.002	2.4	0.07	0.41	•	•
Bihar ..	•	•	•	•	•	•	•	•
Bombay ..	0.13	0.06	—	5.5	0.58	0.53	•	•
Madras ..	0.01	0.03	0.01	2.05	1.02	0.37	•	•
Madhya Pradesh ..	•	•	•	•	•	•	•	•
Orissa ..	•	•	•	•	•	•	•	•
Punjab ..	—	0.006	—	10.45	0.54	2.42	•	•
Uttar Pradesh ..	0.06	0.09	0.001	5.89	0.37	0.70	•	•
West Bengal ..	0.16	0.05	—	3.48	0.63	1.06	•	•
Ajmer ..	•	0.01	•	8.13	0.17	0.79	•	•
Coorg ..	•	•	•	•	•	•	•	•
Delhi ..	—	0.05	—	1.7	0.5	0.7	•	•

* Information not available.

Also, figures are provisional.

Veneral Diseases: Syphilis occurs in sporadic venereal and endemic non-venereal forms. Gonorrhoea is widely prevalent. Other venereal diseases like Chancroid, Lymphogranuloma Venereum and Granuloma Inguinale are localised in their distribution.

In large cities and industrial areas, prevalence of venereal diseases is estimated to be 5 to 7 per cent of the population for syphilis alone.

The problem in rural areas is not defined from limited surveys conducted in recent years. It appears that sub-Himalayan tracts extending from Kashmir in the West to Assam in the East have a high incidence of syphilis.

Yaws is found in some of the districts of Orissa, Madhya Pradesh, Andhra Pradesh and Bombay.

West Bengal and Himachal Pradesh have full time V. D. control officers. Anti-Yaws Campaigns are in progress in the States of Orissa, Madhya Pradesh and Andhra Pradesh with the assistance of WHO and or UNICEF.

In 1949, Government of India set up in collaboration with the World Health Organisation a Venereal Disease Demonstration Centre in Himachal Pradesh. Besides survey and mass treatment among the people, the Centre was engaged in the training of personnel. Seventeen Teams from different States participated in the training programme at the end of which each

team was supplied with laboratory equipment and penicillin by the UNICEF to establish control activities in the States.

Veneral disease control was included in the First Five Year Plan. Some States had already developed limited control facilities. The Himachal Pradesh administration established a full scale Venereal Disease Organisation at Simla. A Venereal Disease Training and Demonstration Centre was established at Safdarjung Hospital in New Delhi in March 1954. The Venereal Disease Department of the Madras General Hospital was upgraded in 1952. These Training Centres provide improved training facilities.

A Cardiolipin production unit and a Penicillin production unit were established in co-operation with WHO and UNICEF.

On the advice of the Health Panel of the Planning Commission, the Government of India have provided in their Second Plan for the establishment, in association with the State Governments, of:—1. A Central V. D. Organisation; 2. 8 Clinics and Laboratories at the headquarters of the States; 3. 75 Clinics at district headquarters; 4. Strengthening of State Venereal Disease Organisation; 5. Mass survey and treatment programmes in highly infected areas; 6. Free supply of penicillin; 7. Training of Personnel.

The Government of India will meet 75 per cent of the non-recurring expenditure subject to a maximum of Rs. 15,000 per clinic and 50 per cent of the recurring expenditure subject to a maximum of Rs. 15,000 per clinic per year. The Government of India are also arranging for a free supply of PAM (penicillin) worth Rs. 20,23,000 during the Plan period and antigens during the first two years of the Plan period. The scheme will cost Rs. 58,67,000 to the Government of India and Rs. 84.28 lakhs to State Governments.

A Central V. D. Organisation was established in November 1957 with a view to co-ordinating the activities of the different States.

So far (upto Sep. 1958) a total of 8 headquarters clinics and 35 District clinics have been established in the different States. Intensive control schemes which include field survey and mass treatment have been initiated in the Mahasu district of Himachal Pradesh and Ankola and Gulbarga of Mysore.

Facilities for the diagnosis and treatment of venereal diseases are available at certain V.D. clinics at various ports for seamen. The Government of India also ratified in 1954 the Brussels Agreement of 1924 which provides for services for the treatment of Venereal Diseases of all merchant seamen or watermen at ports irrespective of nationality.

With a view to standardizing Serological Tests for syphilis procedures it is proposed to implement a National Interlaboratory Annual S.T.N. Evaluation.

Cancer: The number of persons who die of cancer annually is believed to be in the neighbourhood of 2 lakhs.

There are only two institutions exclusively for the treatment of cancer in India: Tata Memorial Hospital at Bombay and the Chittaranjan Hospital at Calcutta. Both are now under the Central Government.

There are 40 general hospitals in the country where facilities for cancer treatment are available.

There are three in the Punjab (Amritsar, Gurdaspur, Patiala), four in U.P. (Agra, Lucknow, Allahabad), four in Madras (Madras and Madurai), six in Bombay (Bombay, Ahmedabad, Bhavnagar, Jamnagar, Nagpur), four in Mysore (Bangalore, Mysore, Mangalore), three in Kerala (Trivandrum and Ernakulam), two in Assam (Dibrugarh and Shillong), four in Rajasthan (Jaipur, Bikaner, Jodhpur, Ajmer), one in Orissa (Cuttack), one in Bihar (Patna), four in West Bengal (all in Calcutta), two in Delhi and two in Andhra Pradesh (Visakhapatnam, Hyderabad).

The Government of India have arranged for three Cobalt Bomb Therapy Units under the Colombo Plan for supply to the Tata Memorial Hospital, Bombay, the Chittaranjan National Cancer Research Centre, Calcutta, and the Christian Medical College, Ludhiana. It is understood that two more units will be made available from Canada under the Colombo Plan.

Research is conducted at the Cancer Research Centre at the Tata Memorial Hospital in Bombay, the Chittaranjan National Cancer Research Centre, Calcutta; and the Cancer Institute, Madras. The Indian Cancer Society has its headquarters in Bombay and its divisional headquarters in Calcutta and Madras as shown above.

Under the Second Five-Year Plan Rs. 35 lakhs have been provided to establish cancer wards and units in certain hospitals.

PUBLIC HEALTH AGENCIES

A Central Council of Health exists with the Union Health Minister as chairman and State Health Ministers as members.

Dr. T. R. Tewari, Director, Contributory Health Service Scheme, is the Secretary of the Council. The Council is an advisory body and in that capacity performs the following duties:—(a) to consider and recommend broad lines of policy in regard to matters concerning health

in all its aspects, such as the provision of remedial and preventive care, environmental hygiene, nutrition, health education and the promotion of facilities for training and research; (b) to make proposals for legislation in fields of activity relating to medical and public health matters, laying down the pattern of development for the country as a whole; (c) to examine the whole field of possible co-operation on a wide basis in regard to inter-State quarantine during times of festivals, outbreaks of epidemic diseases and serious calamities such as earthquakes and famines and to draw up a common programme of action.

The body in charge of research is the Indian Council of Medical Research.

(For a list of research institutions see under Research.)

A sum of Rs. 4 crores is provided for research programmes.

The annual grant to the Council amounts to Rs. 12 lakhs.

The following medical bodies are in existence: The Indian Medical Council, the Indian Nursing Council, the Dental Council of India and the Pharmacy Council of India.

The object is to control and regulate the respective professions and standards of qualification.

There are State Pharmacy Councils in Punjab, W. Bengal, Bombay, Madras, Bihar, U.P. Delhi and M.P.

Among important Acts in force are Vaccination Act, Drugs Act of 1940, Drugs Rules of 1945. Then there are the Indian Medical Council Act, the Nursing Act of 1947, the Dentist Act, the Pharmacy Act.

There are four main medical depots—one each at Bombay, Calcutta, Karnal and Madras. The depots at Bombay and Madras have factories attached to them.

CONTROL OF DISEASES

Steps are being taken to control a number of diseases that are rampant.

Malaria

National Malaria Control Programme was launched with effect from April, 1953.

In 1956-57 the control programme covered a population of 19.53 millions.

The incidence of malaria dropped from 63 million in 1953-54 to 21 million in 1956-57, a drop of about 66 per cent.

The expenditure incurred by the Central Government from 1953-58 was Rs. 297.30 lakhs.

From April 1, 1958 it was decided to convert this control programme to one of eradication of malaria. This was calculated to be ultimately cheaper than continued control measures. In about six years the programme will cover almost the entire population of the country.

It aims at reducing the parasite reservoir in human beings to such a negligible degree that once that has been achieved there will be no danger of resumption of local transmission.

There are two phases of this programme. The attack phase, and maintenance or surveillance phase. During the attack phase the central idea is to spray twice a year every human habitation and cattle shed in the areas where malaria is endemic.

Estimates show that 23 crores people live in such areas and 230 units, each designed to protect 10 lakh people, will be operating therein.

Intensive insecticide spraying will be carried out for three consecutive years from 1958-59 to 1960-61.

Sixteen crores of people living in areas where malaria transmission is known to occur in such a low degree as not to constitute a health problem, would also be protected under the Programme. All such areas will be brought within the ambit of spraying operations for 2 years from 1960-61 when 160 additional units will be established to cover them. Only one round of

spray will afford adequate protection in these areas. Thus by 1960-61, the entire country will be covered by the spraying operations.

During the surveillance phase, a special staff will help watch for cases when spraying operations are decided to be interrupted. This staff will make house to house visits detecting residual malaria cases, taking blood tests etc. The important factor of this phase is that the surveillance staff will go into operation by 1960-61, i.e. one year prior to the contemplated interruption of spraying. The data covered will help determine the advisability of stopping spraying operations during the next season. Even where this is done, vigilance will continue for a further period of three years. After this the responsibility for surveillance will fall on the local public health administration.

The estimated cost of the eradication programme during the current and next plan period will be about Rs. 63.24 crores whereas a control programme for the same period is expected to cost about Rs. 52.02 crores.

The eradication programme does not aim at eradication of mosquitoes, which may continue to thrive, with this difference that they will cease to be the transmitters of malaria infection.

For the supply of DDT, which is one of the principal insecticides used in the control and also the eradication programme, a DDT plant, jointly sponsored by the UNICEF, WHO and the Government of India, was set up at Delhi in 1955 at a cost of Rs. 40.33 lakhs, with a production capacity of 700 tons of DDT annually. In 1957-58 it produced 720 tons of DDT 50 per cent and 315 tons of DDT technical. To meet the increased demand for DDT under the eradication programme, it is proposed to step up the capacity of the plant to 1,400 tons annually.

A second DDT plant, to produce 1,400 tons of DDT, technical equivalent to 2,800 tons of DDT 50 per cent set up at Alwaye, Kerala State, has gone into production.

The standard spraying equipment is now being produced locally to meet the entire requirements of the country.

Training facilities at the Malaria Institute of India, Delhi has been intensified since the year 1953-54. 257 medical officers, 616 Malaria Inspectors, 67 Malaria Engineers and 32 Medical Entomologists have been trained.

The expenditure during the Second Five Year Plan period is estimated to be Rs. 55.72 crores including 2 years of control operations and 3 years of eradication operations. During the years 1956-57 and 1957-58, an expenditure of Rs. 12.15 crores was incurred.

Filaria

Among mosquito-borne diseases filaria is second only to malaria. No satisfactory cure has been found for this disease. What is aimed at is the control of the carrier species, and anti-mosquito measures have to continue for five years before results become apparent.

The National Filaria Control programme had 13 control units and 22 survey units allotted during the first Plan. Thirty-three more have been allotted, 13 during the year 1956-57 and 20 during 1957-58.

In view of the tight foreign exchange position in the country and the absence of aid from the USTCM, it is decided, on the advice of the Planning Commission, that the programme should be continued at the existing level and no new Filaria Control units should be allotted during the remaining period of Second Five Year Plan.

Filaria survey with the object of delimiting the extent of the filariasis problem and to collect the pre-control data have been in progress in all States except Assam and West Bengal.

Upto 31st Oct. 1958 representative sample of nearly 20.8 million persons residing in places known to be or suspected to be filarial had been surveyed.

Mass drug administration with Diethylcarbamazine (Hetrasan) is in progress as part of the control programme.

About 20-04 lakh persons have been treated.

Anti-mosquito measures are in progress in all States except Assam and West Bengal. About 7 million persons have been protected by residual spraying with Dieldrin 50 per cent W.W.P.

A course of training in filariology is being arranged at the Malaria Institute of India, Delhi and another at Ernakulam in January 1959.

So far 70 medical officers and 109 filaria inspectors have been trained.

The National Filaria Control Programme will cost 9 crores of rupees during the Second Five-Year Plan (Central Rs. 6 crores, States Rs. 3 crores).

Leprosy

An estimate made in 1953 put the number of lepers in India at over 15 lakhs.

The areas of highest incidence are Andhra, Assam, Bihar, M.P., Madras, Kerala, some parts of U.P., and Bombay.

The necessity of new legislation is urgently felt as the Lepser Act of 1928 has not been effective in checking leprosy.

State Governments favour the redesignation of 'leprosy clinics' as 'skin clinics'.

A number of bodies are fighting to control leprosy—Mission to Lepers, Hind Kshat Nivaran Sangh (formerly Indian Council of the British Empire Leprosy Relief Association), Gandhi Memorial Leprosy Foundation, Kasturba Gandhi Trust, Maharogi Sewa Mandal.

The Mission runs 50 leper homes with about 10,000 inmates and gets grants from State Governments.

The Sangh has as its president the President of the Indian Republic.

The Sangh has its headquarters in New Delhi and branches in 11 States.

The Sangh's activities include financial assistance to leprosy homes and clinics, propaganda through publication of posters and other material, assistance in the training of medical workers and physiotherapists, and publication of the quarterly journal "Leprosy in India".

Isolation of leprosy cases in special leprosy homes was regarded in the past as the main method of control of leprosy in endemic areas. Such institutional isolation has not however yielded the results expected of it.

With the discovery of sulphone therapy in leprosy, a new approach is now available for the control of the disease. Apart from clinical improvement, sulphone therapy brings about a gradual reduction in the number of leprosy bacilli in the skin, and, by promoting healing of ulcers in nose and elsewhere. It also reduces infective discharge from patients.

The only sure method of preventing contact with infective cases is the isolation of cases in leprosy hospitals, sanatoria, or colonies. There are in all about 152 colonies, homes, asylums and hospitals for the treatment of leprosy patients and the number of beds provided is estimated at 19,600.

Treatment in out-patient leprosy clinics is also available in various parts of India. The number of such clinics is approximately 1,203 and the total number of cases taking treatment therein is roughly 1,20,000 per year.

Under the Leprosy Control Scheme of the Government of India included in the First Five-Year Plan at a cost of Rs. 30 lakhs to the Central Government alone, 4 treatment and study centres and 36 subsidiary centres were sanctioned in different States. Till the end of March 1956 four treatment and study centres and 29 subsidiary centres were established.

The scheme has been continued in a more expanded form in the Second Plan. An amount of Rs. 408.48 lakhs has been allocated for this purpose in the States' plans. The non-recurring expenditure will be borne in its entirety by the Central Government and the recurring expenditure shared on a 50-50 basis.

A hundred additional subsidiary centres during the Second Plan are due to be established. Upto end of March 1959, 62 Centres are planned for the States.

The total number of centres functioning till the end of June 1958 including those established during the First Plan was 67 covering a population of 56 lakhs.

A scheme for the training of Medical Officers in Leprosy has been sanctioned.

A Central Leprosy Teaching and Research Institute has been established at Tirumani in Madras State in association with the Lady Willington Leprosy Sanatorium, Tirumani and the Silver Jubilee Childrens Clinic for Child Leprosy, Saidapet.

A sum of Rs. 25.00 lakhs has been provided for this Institute during the Second Five-Year Plan.

Tuberculosis

Mortality figures for cities show a tuberculosis death-rate ranging from 200 to 450 per 100,000 as far as can be ascertained. Little information is available from rural areas but certain investigations have shown that in small towns the infection rate is nearly as high as in the larger cities, and that in the villages it is lower though considerable.

It can be safely estimated that there are at least 500,000 deaths from tuberculosis annually. If the ratio of 5 cases of active tuberculosis to one death from tuberculosis is accepted, there will be, at least, 2,500,000 active cases of tuberculosis in India.

A national tuberculosis survey on a sample basis has just been completed. The final report is expected to provide reliable data.

A preliminary estimate puts the incidence at 2 per cent.

The survey was conducted by the Indian Council of Medical Research in cities, small towns and villages—Hyderabad, Calcutta, Delhi, Madanapalle, Trivandrum, Patna.

The tentative findings of the survey in brief are: 1. The morbidity of T.B. varies from 7 to 30 per thousand persons in different areas; 2. The prevalence of T.B. in villages, small towns and cities is not so marked as originally expected; 3. The morbidity rates are lower for females than for males; 4. The prevalence of T.B. among the persons of the age group of 45 years and above was considerably higher than for the age group of 5 to 34 years; and 5. Bacteriologically positive cases varied from 1 to 11 per thousand persons in different areas.

The Government of India has an Adviser in Tuberculosis in its Directorate-General of Health Services. He advises the Central Government and the various State Governments on tuberculosis policy and helps in co-ordinating various tuberculosis schemes. He is also Technical Adviser to the Tuberculosis Association of India.

Prophylactic (BCG) Vaccination against tuberculosis was introduced in India in August, 1948 with the assistance of WHO. The mass campaign was started in April, 1951 and is now (Jan. 1959) in progress in all the States except the Andamans, Pondicherry and the Laccadives. Upto the end of Aug. 1958, about 11.3 crore persons had been tuberculin tested of whom about 3.9 crores were vaccinated with BCG and thus given protection against tuberculosis.

The target is to cover the whole of the susceptible population of 170 millions by 1960-61.

The contribution of UNICEF and WHO would amount to over 1.48 mln. dollars upto the

end of 1958 to cover the services of the international personnel and provision of equipment and supplies consisting of vaccination equipment and vehicles, film projectors, public address equipment, etc.

There were in Oct. 1958, 157 technicians' teams, each team consisting of one team leader (medical or non-medical) and six technicians in one team.

In furtherance of the object of introducing B.C.G. Vaccination in India, a laboratory for the manufacture of this vaccine was established by the Government of India at the King Institute, Guindy, in 1949. It supplies vaccine not only to centres in India but also to centres in South-East Asia.

In order to find out if it is possible to obviate certain difficulties experienced in the use of the liquid vaccine, a freeze drying vaccine plant for manufacturing and using dry vaccine has been installed as a pilot project.

There are at present five anti-tuberculosis demonstration and teaching centres, one each at New Delhi, Patna, Trivandrum, Madras and Nagpur. The Madras centre which was established in 1956 is beginning its career with an important research project namely the study of the role of modern tubercular drugs in the prevention of the spread of tuberculosis.

In the Second Plan it is proposed to establish ten more centres.

It is proposed to establish or upgrade about 300 TB Clinics during the Second Plan so as to have at least one Clinic in each District.

Attached to the Delhi University is the 'Patel Chest Institute' for teaching and research in T.B. and other diseases of the chest.

The needs of tuberculous children could not be attended to till recently, but now two hospitals for tuberculosis children have been established, one in Delhi and the other at Arogyavaram in Andhra State.

According to the latest available figures there are for the treatment of T.B. patients, 69 sanatoria, 71 hospitals, 300 clinics, 160 wards with a strength of 22,185 beds.

These beds are meant mostly for giving treatment. Beds for isolating advanced cases of T.B. for whom such treatment is not possible, have so far been negligible, and it is proposed to establish at least 4,000 beds for the isolation of such cases during the Second Plan period.

There are about ten After Care and Rehabilitation Centres for ex-tuberculosis patients, and it may be possible to establish 8 more rehabilitation centres during the Second Five-Year Plan period.

The Government of India have also provided for research in various aspects of tuberculosis by providing funds for the purpose to the Indian Council of Medical Research.

Various international bodies also co-operate with the I.C.M.R. in conducting this research on sound lines.

Goitre, Trachoma

The scheme for goitre control envisages estimation of the problem, the supply of iodized salts and the assessment of the results of iodine prophylaxis.

The Goitre Pilot Survey Project, Punjab, will undertake routine estimation of iodine in fortified salts. Iodized salt will be made available to the selected areas for human consumption at the same price as ordinary salt. The cost of iodination of salt will be met by the Union Government.

The Ministry of Health has appointed an Officer on Special Duty to supervise the programme.

The estimated cost is about Rs. 18 lakhs. Two field units will cover a population of 67.5 lakhs in the Second Plan period.

UNICEF assistance of 15,000 dollars was sanctioned at the UNICEF Executive Board meeting in March 1957.

The Executive Board at their meeting in September, 1955 recommended a further allocation of \$27,500 for the provision of additional equipment for the iodination of salt. It is now proposed to install at Sambhar one bigger plant capable of producing 6 tons of iodised salt per hour instead of 5 smaller plants originally proposed.

A Trachoma Pilot Project, has now been instituted at Aligarh.

Maternity

The maternal and child mortality as already indicated is high—the maternity death rate is over 12 and infant mortality about 108.

It is now recognised that Maternity and Child Welfare is an important service. Fourteen States have established posts of Assistant Director of Health Services to direct Maternity & Child Welfare Services in the States of Orissa, Assam, Delhi, U.P., Punjab, Madhya Pradesh, Bihar, Andhra, Himachal Pradesh, Kerala, Bombay, Rajasthan, Mysore and Kashmir. The Union Govt. has an officer in the Directorate General of Health Services who assists States in Maternity & Child Welfare activities.

Non-official bodies engaged in welfare work are the Indian Council for Child Welfare, New Delhi; The Kasturba Gandhi Memorial Trust; and the Indian Red Cross which has a special bureau. State bodies include Bombay Mothers and Children Welfare Society, The Bihar Mother and Children Committee.

The Central Social and Welfare Board assists the State Boards in promoting Maternity and child welfare services. As a result, a large number of agencies undertake services for mothers and children and training programmes for staffing the services with trained personnel.

The total number of maternity and child health centres has now increased to over 3,500. Besides, 750 primary health centres also provide these services.

A sum of Rs. 50 lakhs was earmarked by the Government of India in the First Five-Year Plan for establishing Maternal and Child Health Centres in rural areas of the States.

This sum was utilised by the States, and 201 Maternity and Child Welfare Units, each serving a population of 60,000 to 70,000, were established and will be brought under primary health centres when the latter are developed.

The large bulk of midwifery services in the villages will continue to be rendered by *dais* already practising in the villages. Under the Second Five-Year Plan a short six months course has been designed to orient them in modern techniques of asepsis, and make better and fuller use of their services, and provision has been made in the Plan for training 34,000 *dais*. A sum of Rs. 90 lakhs has been provided in the Plan for the purpose.

A sum of Rs. 45 lakhs has been provided in the Second Five-Year Plan to assist medical colleges to improve paediatric training so that medical personnel can, during the training receive adequate instruction in paediatrics and are better equipped to play their role in Child Health Services.

The centres earmarked for assistance are Hyderabad, Trivandrum, Bombay, Darbhanga and Agra.

The scope for expansion of services is vast. The programmes so far undertaken are effective as indicated by reduction in mortality. The maternal and infant mortality continue to show a downward trend. The former is 12 per 1,000 live births in rural areas and 6 in urban areas whereas the infant mortality is 108 per 1,000 live births.

The programme of training Auxiliary Nurse-Midwives for Community Development Projects, was launched during the year 1954.

One hundred training centres in the various States have been approved by the Government of India to undertake the training under the scheme. Two thousand two hundred and seventy-seven students have been enrolled. Of these 685 have since qualified. A total sum of Rs. 13.90 lakhs has been paid by the Central Government towards the implementation of the scheme.

Nine training centres, one each in Andhra, Kerala, Orissa, Madhya Pradesh, Punjab and two each in Madras and Rajasthan have been approved by the Government of India to undertake the scheme for the integration of Public Health with the Basic course in Nursing.

A total sum of Rs. 6.56 lakhs has been paid by the Central Government to these centres. The training in all the above 9 approved centres has since started.

It has been decided to extend the scheme for the integration of Public Health with the Basic Course in Nursing to another 10 schools during the remaining two years of the Second Five Year Plan. Proposals from the State Governments have been called for and it is expected that from the year 1959-60 the additional 10 centres will also start functioning.

DEFECTIVES

The last census of handicapped persons (blind, deaf, crippled, mentally retarded, etc.), took place in 1931. These put the number of blind at about 600,000 and the number of deaf and hard-of-hearing at 230,000.

It is estimated that today the total number of blind is about 2,000,000 and the deaf about 700,000.

There is a Training Centre for the Adult Blind at Dehra Dun to impart vocational training. It imparts training in cottage-industry-type handicrafts to about 170 adult blind. There is also a common Braille code for Indian languages known as Bharati Braille. The Central Braille Printing Press at Dehra Dun has already published several Braille books in English, Hindi and other regional languages.

There are in all 75 institutions for the blind and 44 for the deaf and 4 for the mentally handicapped. Four institutions cater for the orthopaedically handicapped children. About 2,000 blind children and adults and about 2,000 deaf children and adults receive training at these institutions.

The Government of India give scholarships to blind and deaf persons over the age of 16 in order to help them to undertake higher academic education, or professional, vocational or technical training in normal institutions of learning. Scholarships are also awarded to orthopaedically handicapped children and adults.

The number of scholarships awarded at present is 350.

In September, 1955 the Government of India appointed a National Advisory Council for the Education of the Handicapped to advise Government, to formulate new schemes, and to serve as liaison between Government and voluntary bodies.

One of the most difficult problems in the welfare of the handicapped is to secure employment for suitably trained handicapped persons. In order to deal with this problem the Government of India propose to establish a special organisation during the Second Plan period to assist handicapped persons in finding employment in the public services, industry and commerce.

Mental Diseases

The number of mental cases is about one million, mental defectives one and a half million, of psycho-neurotics about three million.

There are at present four institutions for mentally retarded children.

These are:

The Heaven School, Modi Minar, Char Bangla (near Vereeva), Bombay.

Hermini Villa, St. Andrew's Road, Bandra, Bombay 20.

School for the Training and Care of Children in Need of Special Care, Sewree Hill, Sewree, Bombay.

B.M. School of Psychology and Child Development, Ahmedabad.

At present there are 32 mental hospitals with accommodation for about 20,000 patients.

The Mysore Government Mental Hospital at Bangalore and the Hospital for Mental Diseases at Ranchi are the ones which are best equipped.

The following is a list of mental hospitals in India:

Mental Hospital, Taspur; Inter-Provincial Mental Hospital, Kanke, Ranchi; Indian Mental Hospital, Kanke, Ranchi; N. M. Mental Hospital, Thana (Bombay); Mental Hospital, Ratnagiri (Bombay); Central Mental Hospital, Yeravda; Mental Hospital, Ahmedabad; Mental Hospital, Dharwar; Mental Hospital, Baroda; Mental Hospital, Nagpur; Government Mental Hospital, Madras; Government Mental Hospital, Wafair; Government Mental Hospital, Kozhikode; Punjab Mental Hospital, Amritsar; Mental Hospital, Agra; Mental Hospital, Bareilly; Mental Hospital, Banaras; Mental Hospital, Mankunda, Calcutta; Lambini Park Mental Hospital, P.O. Tiljala, 24 Parganas; Bangi-unmad Ashram, 29-A, Vivekananda Road, Dum Dum; Mental Observation Ward, Bhawanipur, Calcutta; Mental Hospital, Jaina; Mental Hospital, Srinagar; Mental Hospital, Lashkar; Mental Hospital, Bongaiga, Indore; Mental Hospital, Bangalore; Mental Hospital, Jaipur; Mental Hospital, Jodhpur; Mental Hospital, Udaipur; Mental Hospital, Bhavnagar; Mental Hospital, Trivandrum; Mental Hospital, Trichur.

The Hospital for Mental Diseases, Ranchi which was under the administrative control of a Board of Trustees was taken over by the Government of India, with effect from the 1st June, 1954 with a view to reorganising it and making it a model centre for treatment.

The Health Survey & Development Committee in 1946 considering the magnitude of the problem of mental ill-health in India and the extent to which remedial and preventive measures should be developed, found that the provision for mental health facilities were wholly inadequate, that the mental hospitals were under staffed and no medical staff specially trained in psychiatry were available to staff the mental hospitals. Training facilities in this special field for doctors and non-medical workers were inadequate. Hence the Committee emphasised that the paramount need of India in the field of mental health is the production of an adequate number of medical and auxiliary personnel trained in the various aspects of mental health.

In view of the Committee's findings and based on the short term proposals made by Prof. Mayer-Gross, W.H.O. Consultant in Psychiatry and Dr. M. V. Govindaswamy, the Government of India in collaboration with the Government of Mysore established the All-India Institute of Mental Health at Bangalore to work in close association with the Mental Hospital, Bangalore.

The Mental Hospital, Bangalore had built up certain traditions in the matter of undergraduate and post-graduate teaching and research and hence upgraded it for the purpose.

The Institute came into being on 15th September 1954 with the appointment of Dr. M. V. Govindaswamy as its first Director.

The chief objects of the Institute are: To plan and conduct research projects and problems relating to promotion of mental health and the cure and prevention of mental diseases; To train psychiatrists, psychiatric nurses, occupational therapists and other personnel required to staff various mental hospitals and psychiatric clinics in general hospitals; To train psychologists and psychiatric social workers; To conduct survey in selected urban and rural areas on the

incidence of mental morbidity and the biological and ecological factors that are responsible for mental morbidity.

The course for the post-graduate Diploma in Psychological Medicine (D.P.M.) and Medical (Clinical) Psychology were started on 3rd January 1955. A post-graduate course in Psychiatric Nursing was also started in 1956 January.

The development of mental health services in India is envisaged at this Institute under the Second Five Year Plan, and a sum of Rs. 26 lakhs has been made available for this purpose. The chief measures contemplated as part of the plan are: To start and render assistance in the starting of Guidance and Counselling centres in selected rural and urban areas; To open psychiatric wards in general hospitals and staff them adequately with properly trained personnel; to establish Child Guidance Centres in different parts of the city; To train teachers and educate the public in the principles and methods of mental hygiene, all of which are intended to bring the problem of mental ill-health in the country under control.

PUBLIC HEALTH MEASURES

Primary Health Units form the corner-stone of the health-care policy of the Government in the rural areas.

There were 725 health units in the community development areas at the end of the First Plan.

During the Second Plan it is proposed to establish 2,000 primary health centres in the National Extension areas in the States.

State Governments also propose to convert some of the existing dispensaries into primary health units and to set up a number of secondary health units.

The Second Plan provides about Rs. 19 crores for this programme.

There is medical coverage for industrial labour through the Employees' State Insurance Scheme (See under 'Labour' for details).

The Government of India sanctioned the establishment of 27 Dental Clinics during 1956-57, 26 Dental Clinics during 1957-58 and 25 Dental Clinics during 1958-59 (upto September, 1959). 350 Dental Clinics are proposed to be established during the whole of the Second Five Year Plan period.

A Contributory Health Service Scheme for Central Government servants in Delhi and New Delhi which was introduced on an experimental basis in 1954, has been placed on a permanent footing in response to popular demand. With a view to improving the services, a re-organization and expansion programme of the scheme has been taken in hand. At present 26 static and 3 mobile dispensaries function under the Scheme and it is proposed to open 4 more new dispensaries. The strength of the medical and other ancillary staff has also been increased.

The number of Medical Officers sanctioned under the Scheme at present is 141 including 30 specialists. The Scheme has proved to be very popular and more and more persons are taking advantage of the services provided under it.

The daily average attendance in the C.H.S. dispensaries which was 4,504 during 1954, now ranges from 10,000 to 15,000 cases daily. The total attendance in the dispensaries during 1957 was 3,250,930. The expenditure incurred on the Scheme during 1957-58 amounted to Rs. 40.74 lakhs. In view of the usefulness of the Scheme there is a demand from a number of semi-Government organizations for its extension to those organizations.

The States have provided Rs. 237.24 lakhs in the Revised Plan for the development of the Public Health Laboratory Services. Out of this amount Rs. 180.54 lakhs are provided for opening new laboratories and Rs. 56.40 lakhs for expanding the existing laboratories.

The Government of India contributes 75 per cent of the non-recurring expenditure (including building expenditure) and 50 per cent of recurring expenditure. During the year 1958-59 a

provision of Rs. 8.0 lakhs has been made in the budget as the Central Government's share of the expenditure. Under the Scheme Rs. 2,18,480 was paid during 1957-58 as grants-in-aid to the States as follows (in Rs.):

Orissa 8,000; Andhra 20,500; Rajasthan 35,000; Uttar Pradesh 20,000; Kerala 8,000; Bihar 49,000; Madras 39,500; Jammu & Kashmir 9,300; Mysore 29,250; Total: Rs. 2,18,480.

The number of laboratories established is as follows. The first number refers to Principal Laboratories and the second to Regional Laboratories (1, —), Andhra (1, 7), Rajasthan (—, 10), U.P. (—, 4), Bihar (1, 6), Madras (—, 2), M.P. (1, 1), Kashmir (—, 7), Mysore (—, 4), H.P. (1, 4), Bombay (—, 1).

The Second Plan target is 15 principal and 122 regional laboratories.

Water Supply

Protected water supply is one of the most important factors in sanitation.

At the beginning of the First Five-Year Plan 128 towns with a population each of exceeding 60,000, 60 towns with population each between 30,000 and 50,000, and 210 towns with population each below 30,000 had protected water-supply.

Under the National Water Supply and Sanitation Programme Rs. 12.9 crores for urban water supply schemes and Rs. 6.0 crores for rural schemes were provided.

Upto March 1956, 194 urban water supply schemes and 54 Drainage schemes were approved for execution in 17 States and the expenditure incurred was Rs. 8.3 crores. 134 schemes for rural areas were approved in 19 States and grant-in-aid totalling Rs. 2.8 crores were sanctioned upto March 1956.

In March 1959 there were in progress 276 urban and 206 rural schemes in progress.

This programme was assisted to the extent of 6,374,830 dollars in equipment and material under the United States Technical Co-operation Mission programme.

The following sums were paid to the various States for rural and urban schemes under the National Water Supply and Sanitation Scheme in 1957-58:—

State	Schemes	
	Urban	Rural
	In lakhs of Rupees	
Andhra Pradesh ..	56.00	22.89
Assam ..	5.00	7.71
Bihar ..	89.50	3.00
Bombay ..	50.00	13.00
Jammu & Kashmir ..	5.00	2.50
Kerala ..	70.00	6.61
Madhya Pradesh ..	5.00	23.77
Madras ..	125.00	6.12
Mysore ..	102.55	26.80
Orissa ..	8.00	12.99
Punjab ..	10.00	5.00
Rajasthan ..	45.00	27.30
Uttar Pradesh ..	131.00	7.00
West Bengal ..	12.50	9.82
Total ..	714.55	174.50

Some of the Corporations in the country have been given loans for 1957-58, totalling Rs. 52.50 lakhs.

Second Plan: Central allotment for urban schemes: Rs. 30 crores. States' allotment: Rs. 23 crores for urban and Rs. 28 crores for rural.

Allotment for 1954-59: Rs. 850 lakhs for urban, Rs. 50 lakhs for Corporations, Rs. 200 lakhs for rural water supply.

INDIGENOUS SYSTEMS

The general policy of the Government is that there should be only one system—the allopathic—and that steps should be taken to eradicate quackery from the indigenous systems and put them on a more scientific basis. It is held that in any reorganized training anatomy, physiology and surgery should be part of the curriculum.

The basic reports on the subject are the reports of the Chopra Committee set up in December 1946 (to enquire into the facilities available for training and research and need for control), and the Pandit Committee set up in 1949 to work out the details concerning research in the ayurvedic and unani systems.

A Homoeopathic Enquiry Committee was also set up in 1946 November to recommend measures for the control and development of homoeopathy.

The Committee appointed by the Government of India to report on the question of establishing uniform standards in respect of education and regulation of practice of vaidyas, hakims and homoeopaths has also published its report.

Among the recommendations are: five and a half years course of study inclusive of one year's internship with at least three months training in the rural areas; all members of the medical profession whatever the system they practice should enjoy an equal status; the existing institutions should be up-graded; new text-books should be written; post-graduate study and research facilities should be available; there should be separate Directorates for ayurvedic and unani, and for the homoeopathic systems.

A committee consisting of Dr. K. N. Udupa, Surgical Specialist, Himachal Pradesh (Chairman); Mr. Kaladi K. Parameswaran Pillai, Research Professor in Ayurveda, Government Ayurvedic College, Trivandrum (Member); and Mr. R. Narasimhan, Under-Secretary to the Government of India Ministry of Health (Member-Secretary) was appointed to assess the present status of the Ayurvedic System. It presented its report on Jan. 27, 1959.

Among the recommendations are the setting up of a Central Council of Indian Medicine and a Central Council of Ayurvedic Research for planning and co-ordination.

The committee has made suggestions regarding the improvement of Ayurvedic training, research, pharmaceutical concerns and the status of Ayurvedic practitioners. The committee went into the question of the position of Ayurveda in great detail and collected valuable statistics. It is understood that the committee has observed that for the time being training in both the integrated and *shudha* Ayurvedic systems may have to continue.

The committee observes that the establishment of a Chair of Indian Medicine in modern medical colleges will definitely tend to create an interest in the Ayurvedic System of Medicine in students of modern medicine and will incidentally clear the prejudice at present existing among modern medical men against Ayurveda.

It is understood that the committee has made suggestions regarding a new method of approach in the field of research. The present research may briefly be described as diagnosis and treatment both on Ayurvedic lines. It has been suggested that research can be four-fold *viz.*, diagnosis and treatment on Ayurvedic lines, diagnosis on Ayurvedic lines and treatment on modern lines, diagnosis on modern lines and treatment on Ayurvedic lines and lastly diagnosis and treatment on modern lines as a control measure. More model post-graduate-cum-research centres have been suggested by the committee under the control of the Central as well as State Governments.

The report, it is understood, states that more than Rs. 6 crores worth of Ayurvedic medicines are being manufactured and consumed in the country today, although no standards in the matter of raw materials or in the process of preparation have been laid down so far. Remedies for these drawbacks have been suggested by the committee.

Since independence there has been an increase in the number of Ayurvedic colleges and pharmaceutical concerns and greater control over the registration of Ayurvedic practitioners. The committee feels that it is time to consolidate the position of Ayurveda on a stronger foundation. It has suggested that Government should make a clear declaration of policy in regard to the place of Ayurveda in the country for providing medical relief.

There are about 50 colleges which afford a training in the indigenous systems of medicine and about 8 in homeopathy.

Research is conducted at the School of Tropical Medicine, Calcutta; Central Drug Research Institute, Lucknow; the Drugs Research Laboratory in Jammu, and the Central Research Institute in Indigenous Systems of Medicine, the Ayurvedic Research Institute under the Thakurdatta Sharma Dharmarth Trust. There is also a Board in Bombay to promote research.

The Union Ministry of Health has published what is the first complete national pharmacopoeia of India. It gives information about the standards to be prescribed and tests to be used to establish the identity and purity of a number of indigenous medicinal preparations.

The question of the establishment of a Central Indian Medical Plants Organisation is under Government's consideration. The main functions of this organisation would be the collection, grading and systematic cultivation of wild growing medicinal plants in India.

Under the First Plan the States had an allotment of Rs. 95.23 lakhs to provide training and Rs. 1.06 crores for hospitals and dispensaries.

Under the Second Five-Year Plan, the States have provided Rs. 554.59 lakhs in their revised Plans. Rs. 62.2 lakhs have been provided for opening of new colleges of indigenous medicine and attached hospitals.

The provision for expansion of existing colleges and attached hospitals is Rs. 181.51 lakhs and Rs. 6.93 lakhs respectively. Under 'Miscellaneous Schemes' the provision for research and training is Rs. 14.17 lakhs and Rs. 6.925 lakhs respectively.

In addition to this assistance, the Centre has provided Rs. 100 lakhs for upgrading of colleges of indigenous medicine and research.

DRUGS

A Drugs Act—passed in 1940 and applied in 1947—is now in force in the whole country except Kashmir.

The Act regulates the import into, and the manufacture and distribution of drugs.

The control over import is exercised at the ports of Bombay, Calcutta, Cochin and Madras by an organisation under the Drugs Controller.

There is a Central Drugs Laboratory in Calcutta set up in 1947 under the Drugs Control Act.

A Drugs Technical Advisory Board advises the Central and States Government on technical matters.

A Drugs Consultative Committee advises on how to bring uniformity in the administration of the Act.

The Indian Pharmacopoeia Committee helps to keep the Indian Pharmacopoeia first published in 1955 up-to-date.

A National Formulary Committee constituted to prepare a list of essential drugs and their formulation has completed its task and has submitted a report to the Ministry of Health.

The Drugs and Magic Remedies (Objectionable Advertisements) Act, 1954 is in force to protect people from self-medication from magic remedies advertised in the lay press. The Act is administered by the State Government while the Rules are framed by the Central Government.

The most important step taken in the field of production was the establishment of a Penicillin Factory in the public sector. The Hindustan Antibiotic Ltd., Pimpri, went into trial production in March, 1955. Regular production of Penicillin was commenced from August, 1955. The factory has already achieved a production capacity of 22 million mega units of Penicillin.

The leader of the Soviet Expert Team on Drugs and Pharmaceuticals, Mr. A. G. Nadradae, presented a report on the development of the basic drug industry in India to Government in October 1955.

The Expert Team arrived in India in the beginning of August at the invitation of the Government of India to advise on the development of the drugs and pharmaceutical industry. The experts had discussions with an Indian technical team headed by Dr. A. Nagaraja Rao, Joint Secretary, Ministry of Commerce and Industry, and also toured different parts of the country to study the progress achieved by the Indian pharmaceutical industry.

(See article on Chemical Industry for projects arising from this).

Hormones

Two firms have installed capacities for the manufacture of synthetic hormones starting from imported intermediates. The rate of production is expected to be about 50 to 60 kgs. per annum for each of the hormones, viz. Testosterone, Progesterone, Ethisterone, etc. Two other firms have been licensed to produce about 250 kgs. of synthetic hormones.

Vitamins

Two schemes for the manufacture of Vitamin A, with a capacity of 10 m.m.u. each, have been licensed under the Industries (Dev. & Reg.) Act, 1951, and are expected to go into production by early 1959. Two firms have been licensed to take up the production of Vitamin B₁. Another scheme for the production of certain other vitamins like B₆, C, is under consideration of the Government.

Antibiotics

Messrs. Hindustan Antibiotics, as already mentioned, went into trial production in March, 1955. Regular production of Penicillin was commenced from August, 1955. The factory has already achieved production at a rate of 22 m.m.u. per annum for all sorts of penicillin. Penicillin 'V', which is also produced there, is sufficient to meet the country's requirements. They have also been licensed to take up the production of Streptomycin at a rate of 45 tons per annum.

Besides Messrs. Hindustan Antibiotics Private Limited, Pimpri, two other firms have also been licensed to produce penicillin.

Chloramphenicol, another antibiotic, is being produced by a firm in Bombay.

Two other firms in Bombay, have also been licensed to manufacture Chloramphenicol.

Chlortetracycline is produced by a firm in Bombay which has also started the production of Tetracycline.

Sulpha Drugs

A number of other firms produce sulpha drugs in the country. All these units combined together have a production capacity of about 400,000 kgs. per annum.

The Haffkine Institute also manufactures sulpha drugs and a large number of vaccines and sera.

Anti-T.B. Drugs

Messrs. Sarabhai Chemicals, Baroda, Messrs. Dumex Private Limited, Bombay and several other firms produce I.N.H. The estimated total annual production capacity for I.N.H. is 30,000 kgs.

P.A.S. is produced by Messrs. Bio-Chemical and Synthetic, Products Hyderabad, with a capacity of 60 tons per annum. Messrs. Dumex Private Limited have also been licensed to produce P.A.S. and its salts with a capacity of 60 tons per annum. Besides, two other firms are also engaged in the manufacture of P.A.S. salts.

Anti-Malarial Drugs

Chlorquin and Amodiaquin (Camoquin) are being produced in the country on a small scale. A scheme for the manufacture of another anti-malarial drug, Pyrimethamine, has also been licensed.

Quinine salts are being manufactured by the Government factories in Madras and Bengal.

Anti-Diabetic Drugs

Synthetic oral anti-diabetic drugs, like, Tolbutamide and Carbutamide, are being manufactured in the country on a small scale at present. Schemes for additional capacities have also been approved by the Government.

D.D.T. & B.E.C.

The production of D.D.T. is being stepped up from 700 tons to 1,400 tons at Hindustan Insecticides Private Limited, Delhi. A second D.D.T. factory at Alwaye in Kerala is expected to produce another 1,400 tons per annum. The present capacity for the production of Benzene Hexachloride is 3,200 tons per annum.

Anti-Leprosy Drugs

Three firms have installed capacities for the production of anti-leprosy drugs, namely, D.D.S. and its derivatives, with a capacity of 7,500 kgs. per annum.

Surgeons' Requisites

Two firms have been licensed under the Industries (Development and Regulation) Act to produce surgical and medicated adhesive tapes, plasters, bandages, sutures etc. The interim manufacture of such items has already been undertaken.

FAMILY PLANNING

The total expenditure during the First Five-Year Plan comes to Rs. 15.82 lakhs, i.e. about 24 per cent of the total provision, Rs. 65 lakhs.

During the First Plan Period efforts were directed to the building up of an active public opinion in favour of family planning and promotion of family planning advice and service on the basis of existing knowledge. Demographic as well as medical and biological studies were also carried out.

The allotment during the Second Plan is Rs. 497 lakhs and the total budget provision during 1956-57, 1957-58 and 1958-59 is Rs. 101 lakhs.

The amount sanctioned upto Jan. 1959 by the Central Government was Rs. 41.41 lakhs.

Four thousand nine hundred and twenty-three (4,923) persons were operated on for vasectomy during 1956, 7,423 for sterilization, and 87,464 women were treated for contraception.

It is estimated that about 30 lakhs of couple were contacted, 6.5 lakh couples on their own.

All contraceptives are distributed at the clinics in rural and urban areas free to people whose monthly income is less than Rs. 100, at half price to people with monthly income between Rs. 100 and Rs. 200, and at cost price to people whose monthly income is more than Rs. 200. In addition sheaths and foam tablets are distributed free to all in the rural clinics.

Training Programme includes:—A centre for potential instructors established in Bombay in March, 1957; A rural Training, Demonstration and Experimental Centre developed in Ramnagar as from August, 1957; A pilot touring training team formed by the Family Planning Association of India, Bombay with financial assistance from Central Government and 10 additional touring teams to be formed in the near future; One training centre each for welfare workers in Andhra Pradesh, Kerala, Bombay, Uttar Pradesh and West Bengal; Development of 42 well established urban clinics into Regional Training Centres; Conducting ad-hoc training courses wherever facilities exist; Incorporation of Family Planning in normal teaching programmes in training Institutions for doctors and medical auxiliaries.

Sixty-seven persons were trained in family planning methods during the First Plan Period. During the Second Plan 1,093 persons had been trained upto September, 1958.

Education programme includes:—Scheme to collect detailed knowledge of the factors which are responsible for community attitudes, beliefs and behaviour pattern; Identification of natural

groups and natural group leaders and use of these as a channel of communication; Preparation and testing of basic materials and methods for mass communication; community education; imparting specific technical knowledge and skills, training a corps of competent workers.

Ninety thousand posters and pamphlets were printed during the First Plan period. 3,90,000 posters; 1,10,000 pamphlets; 1,60,000 folders on various aspects of family planning have been published during the Second Plan period. These are distributed free to the States, local bodies and voluntary organizations conducting family planning clinics. Exhibitions are held in a number of places. Films are distributed and radio programmes broadcast.

Research programme includes study of human fertility and its control and population problems.

Twenty-five Medical, Biological and Demographic Research Programmes were supported at a cost of Rs. 12.71 lakhs.

Medical and biological research includes development of ideal contraceptives.

Research in contraceptives is in progress at the All India Institute of Hygiene and Public Health, Calcutta, Indian Cancer Research Centre, Bombay and Pharmacology Department, Lucknow University.

Family Planning Officers are being appointed at State headquarters. Full time Family Planning Officers have been appointed in the States of Andhra, Kerala, Madras, Mysore, Punjab, Rajasthan, Uttar Pradesh, and West Bengal. The M.C.H. Officer in Assam, Bihar, Himachal Pradesh, Jammu and Kashmir are looking after the work of family planning in the respective States. The work of family planning in Delhi is being looked after by the Assistant Deputy Health Officer of the Delhi Corporation. In Bombay State the post is temporarily held by a part-time officer.

The following steps were proposed to be taken by Government to popularise Family Planning during the remaining period of the Second Five-Year Plan: (i) to integrate as early as possible Family Planning Service with medical and health services of the country; (ii) to provide training centres for family planning in medical teaching institutions and schools of social sciences; (iii) to appoint Family Planning Education Leaders; (iv) to start Family Planning Training Touring Teams and orientation camps; and (v) to make all out efforts to be self-sufficient in the matter of supply of contraceptives by producing all kinds of contraceptives in the country.

AUXILIARY WORKERS

In order to meet extreme shortage of doctors in the country as a whole and particularly in the rural areas, it was proposed to introduce a new type of Auxiliary Medical and Public Health Worker.

He would not be entrusted with diagnosis and treatment of diseases beyond what is necessary as a part of ordinary first-aid work, and the training should be such as to enable him to assist the health authorities, in as large a measure as possible, in preventive measures including sanitation, health education, etc. The syllabus of training throws more emphasis on the preventive aspects of the training, rather than the curative side.

During training it was proposed to give the trainees free lodging and a stipend of Rs. 50 p.m.

The Government of India have approved the establishment of training centres at the following institutions:— Public Health Institute, Patna (Bihar), Medical College, Vithakapattam (Andhra), S.M.S. Medical College, Jaipur (Rajasthan).

NURSING

At the end of the year 1957 there were 28,470 registered nurses and 31,412 registered midwives, 939 registered health visitors and 587 auxiliary nurse-midwives. The total number of qualified health visitors in India on 31st Dec. 1957 was over 1,700. Separate figures for urban and rural areas are not available.

The Health Survey and Development Committee recommended that there should be a ratio of one nurse to 500 of population, and one midwife for every 100 births. On this basis, the total requirements for nurses would be 7,00,000 and 1,60,000 midwives for the present number of births in the country.

The Second Plan targets were: Nurses 31,000; Midwives 32,000; Health Visitors 3,200; dais and nurse-dais 41,000.

The number of nurses and midwives available in India falls far short of actual requirements. In order to meet the increasing demand for health personnel in connection with the expansion of health programmes under Community Development Projects a scheme for the training of about 6,000 additional auxiliary nurse-midwives has been included in the Second Five-Year Plan at an estimated cost of Rs. 69 lakhs to be shared by the Central and State Governments concerned.

635 auxiliary nurse-midwives have been trained under this programme and Rs. 12.9 lakhs have been expended under this scheme upto March 1958.

Training in nursing is offered in centres attached to almost all large hospitals. The Nursing Colleges at Delhi and Vellore offer a higher basic course leading to a B.Sc. degree in nursing.

The number of training institutions for nursing personnel and of students under training at the end of 1957 were as follows (The second figure gives the number of trainees):—

Nurses: 198—8,500; Midwives: 249—3,300; Health Visitors: 18—629; Auxiliary Nurse-Midwives: 89—2,000.

The training of health visitors is being given at 21 Schools for Health Visitors. About 1,000 students are under training at present. To double the number of students under training the Lady Reading Health School, Delhi, under the Central Government and 8 other Health Schools in the States have been expanded.

Over 1,700 trained lady health visitors will be available during the Second Plan period to staff maternity and child welfare centres—one of the most vital needs for the provision of adequate health protection to rural population—under the Community Development Programme.

In addition to the above, the nurse-midwives are being given a short course in public health nursing at the Sirur Health Unit, Poona, the Health Unit, Singur, and in Bihar and Madhya Pradesh, and are employed in place of Health Visitors. Upto March, 1958, 264 nurse-midwives qualified from the Health Unit in Sirur.

FIVE-YEAR PLANS

The total provision for Health schemes in the First Five-Year Plan was Rs. 140 crores: Rs. 101 crores were provided by the States and Rs. 39 crores by the Centre. During the period 1951-54 expenditure on medical and public health amounted to Rs. 105.46 crores which is about 75 per cent of the planned outlay.

The progress under broad heads of development is given below.

Rs. 30 crores were provided by the States in their plans for water supply and sanitation of which Rs. 14 crores were meant for rural and Rs. 16 crores for urban areas.

For the urban areas 196 water supply and 58 sewage schemes were sanctioned. The total amount of money sanctioned was Rs. 12.80 crores and the money paid was Rs. 8.3 crores. The number of water supply schemes actually taken in hand was 187 and of sewage schemes 42 in March 1956.

In the rural areas 124 schemes were sanctioned. The total amount of money sanctioned was Rs. 5.8 crores, and the money paid Rs. 2.8 crores upto March 1956.

The urban programme has been more successful than rural, but even here some of the schemes were just getting started and the majority only about 40 to 50 per cent complete in March 1956.

During the First Plan the number of doctors went up by 11,000, of nurses by 5,000, of midwives by 5,000 and of health assistants by 500.

It is calculated that at the end of the Second Plan the country would still be short of 850 doctors.

It is expected that at the end of the Second Plan the number of institutions for medical treatment is likely to be about 12,600 and of beds about 1,85,000, being an increase of about 25 per cent and 24 per cent respectively. A sum of Rs. 45 crores has been provided for this purpose.

Adequate health protection to the rural population is the most outstanding feature of the Second Five Year Plan programme—the establishment of more primary health units in as many development blocks as possible. The primary health centre is the cornerstone of the health-care organization of the rural population. While 725 health units were set up in the First Plan, it is hoped that with a provision of about Rs. 23 crores, 3,000 health units will be started in the Second Plan.

The State Governments opened 184 and 326 primary health centres during 1956-57 and 1957-58 respectively with the help of ad hoc grants from the Centre.

In the Second Plan a sum of Rs. 130 crores is set apart to ensure water supply in urban areas under the National Water Supply and Sanitation Programme.

Two hundred and seventy-five schemes estimated to cost Rs. 55.8 crores are under execution. Nine water supply and drainage schemes costing about Rs. 634 lakhs are being executed by Corporations. For rural areas, the States have been allotted a sum of Rs. 23 crores and till March 1958, the Union Government incurred an expenditure of about Rs. 260 lakhs in this direction. The number of schemes in hand is 136, and their total cost is about Rs. 1,487 lakhs.

Arrangements have also been made for training public health engineers, overseers, sanitary inspectors for which a sum of Rs. 50 lakhs is earmarked in the Plan.

There are only about 700 dental surgeons in the country. The six dental colleges that exist are not properly staffed, equipped or housed. It is, therefore, intended as a first step to raise the dental colleges to the required standard and to double the number of admissions. Andhra, Bihar, Madhya Pradesh, Punjab and Kerala have plans to open new dental colleges in the Second Plan while West Bengal has provided for the expansion of existing colleges. The provision for dental education in the Plan is Rs. 2 crores.

Other schemes include dental clinics in district hospitals, development of public health, laboratory services and school health service and school feeding.

Fifty-four dental clinics in various States were sanctioned by the Government of India during 1954-55 against the Plan target of 850.

Funds have been set apart in the 1958-59 Budget for launching a pilot project under the scheme for school health services, including school nutrition service.

About the utilisation of funds, against the total Plan allocation for each State, it was officially estimated that one State would have used over 50 per cent by the end of this financial year, four over 40 per cent, five between 30 and 40 per cent and the rest less than 30 per cent.

The overall average of utilisation of provision made in the Central Plan for assistance to the States for various schemes was 49 per cent, ranging from 4.5 per cent to 74 per cent.

MEDICAL EDUCATION

There were at the end of 1947, 45 medical colleges with an admission capacity of 4,100.

The Second Plan underlines the expansion of facilities for medical education. Admissions have gone up from 2,500 in 1950-51 to 3,750 in 1957. About 15,500 doctors are expected to qualify during the Second Plan period, adding

to the present strength of 70,000 against the country's estimated requirement of 90,000. A provision of Rs. 20 crores has been made for this purpose.

There are six dental Colleges in the country and 700 dental surgeons.

Below we give a list of medical and dental colleges:

The Andhra Medical College, Vishakhapatnam.
The Assam Medical College, Dibrugarh.
The B. J. Medical College, Ahmedabad.
The B. J. Medical College, Poona.
The Baroda Medical College, Baroda.
The Christian Medical College, Ludhiana.
The Christian Medical College, Vellore.
The Darbhanga Medical College, Laharsai (Bihar).
The Gajra Raja Medical College, Gwalior.
The Grant Medical College, Bombay.
The Gunter Medical College, Gunter.
Karnatak Medical College, Hubli.
The Kasturba Medical College, Manipal (South Kanara Dt., Mysore State).
The Lady Hardinge Medical College for Women, New Delhi.
The Madras Medical College, Madras.
The Mahatma Gandhi Memorial Medical College, Indore.
The Medical College, Kanpur.
The Medical College, Ranchi.
The Amritsar Medical College, Amritsar.
The Calcutta Medical College, Calcutta.
The Medical College, Mysore.
The Nagpur Medical College, Nagpur.
The Government Medical College, Patiala.
The Trivandrum Medical College, Trivandrum.
The National Medical Institute, Calcutta.
The Niranjan Sarkar Medical College, Calcutta.
The Osmania Medical College, Hyderabad.
The Prince of Wales Medical College, Patna.
The R. G. Kar Medical College, Calcutta.
The Medical College, Agra.
The Sawai Man Singh Medical College, Jaipur.
The Seth G. S. Medical College, Bombay.
The Srim Chandra Bhang Medical College, Cuttack.
The Stanley Medical College, Madras.
The Topiwala National Medical College, Bombay.
The Medical College, Bangalore.
The Gandhi Medical College, Bhopal.
The Jabalpur Medical College, Jabalpur.
The Jammagar Medical College, Jammagar.
The King George's Medical College, Lucknow.
The Madurai Medical College, Madurai.
All-India Institute of Medical Sciences, Saffdarjung, New Delhi.
Aurangabad Medical College, Aurangabad (Bombay).
Medical College, Kurnool (Andhra).
Medical College, Pondicherry.
The Gandhi Medical College, Hyderabad.
The Medical College, Kozhikode.
The Bankura Samadilal Medical College, Bankura (W. Bengal).
The Maulana And Memorial Medical College, New Delhi.
Kakinada Medical College, Kakinada.

Medical Schools
The Arya Medical School, Ludhiana.
The University Medical School, Bangalore.

Dental Colleges
The Calcutta Dental College, Calcutta.

The Dental College, Amritsar.
The King George's Medical College (Dental Wing), Lucknow.
The Madras Medical College (Dental Wing), Madras.
The Nair Hospital Dental College, Bombay.
The Sir Currimbhoy Ibrahim Memorial Hospital and Dental College, Bombay.
Government Medical College (Dental Wing), Patiala.

Others
The All-India Institute of Hygiene and Public Health, Calcutta.
The College of Nursing, Delhi.
The Malaria Institute of India, Delhi.
The School of Tropical Medicine, Calcutta.
Sri Vallabhbhai Patel Chest Institute, Delhi.
All-India Institute of Mental Health, Bangalore.

AYURVEDIC AND UNANI INSTITUTIONS

Below we give a list of Ayurvedic institutions (it is not an exhaustive list):

Ayurvedic College, Gushati, Assam.
Gopabandhu Ayurvedic Institute, Puri, Orissa.
The Asada Tibbia College, Bhopal.
Shri Narain Prasad Awasthi Ayurvedic School, Raipur (M.P.).
Ayurvedic Vidyalaya, Jammagar, Saurashtra.
Ayurvedic Medical School, Bhavnagar, Saurashtra.
Govt. Ayurvedic College, Gwalior (M.P.).
Shri Raj Kumar Singh Ayurvedic College, Indore (M.P.).
Nizam's Tibbi College, Hyderabad.
Govt. Ayurvedic College, Hyderabad.
Govt. Aided S.Y.N.A. Ayurvedic College, Bhagalpur, Bihar.
Govt. Ayurvedic College, Patna.
Govt. Tibbi College, Patna.
Ayodhya Shiva Kumari Ayurvedic College, Boganur, Monghyr, Bihar.
Ayurvedic Vibhag Vidyalaya, Patiala.
Shri Dhanwantri College, Sangur, Punjab.
Shri Ayurved Vidyalaya, Barnala, Punjab.
Shri Venkateswara Ayurvedic Kalasala, Vijaywada, Krishna District, Andhra Pradesh.
Shri Ram Mohan Ayurvedic College, Gunter.
Aryavaidyapattasala, Kottakkal, Kerala.
The Venkataramana Dy & Ayurvedic College, Mysore, Madras.
College of Indigenous Medicine, Kilpank, Madras.
Madhava Memorial Ayurvedic College, Cannanore.
Keralasaya Ayurvedic Mahapatasala, Shoranur.
Akhila Travancore Siddhamruth, Kalluore & Siddha Medical Training College.
Govt. Ayurvedic College, Trivandrum.
J. S. Maha Gujarat Ayurvedic Medical College, Nadiad.
Shri Oshhavi N. Ayurvedic Mahavidyalaya, Surat.
Ayurveda Mahavidyalaya, Poona.
Aryanga Vaidyak Mahavidyalaya, Satara City.
Ayurveda Vidyalaya, Jammagar.
R. A. Fodor Medical College (Ayurvedic), Worli, Bombay.
Ayurved Mahavidyalaya, Ahmednagar.
Jamini Bhushan Ashtanga Ayurved Vidyalaya (College), Calcutta.
Vishvanath Ayurvedic Mahavidyalaya (College), Calcutta.
Shyamadar Vaidya Shastrapith (College), Calcutta.
Govt. Ayurvedic College, Jaipur.
Maharaja Ayurvedic College, Udayapur.

Rajputana Ayurvedic & Unani Tibbi College, Jaipur.
Dayanand Ayurvedic College, Amritsar.
Govt. Ayurvedic & Unani College, Mysore.
Ayurvedic College, Hindu University, Banaras.
Ayurvedic College, Lucknow University, Lucknow.
Ayurvedic College, Gurukul University, Kangri.
Ayurvedic College, Gurukul Vrinadaban, Distt. Mathura (U.P.).
Budolkhand Ayurvedic College & University, Jhansi.
Rishikul Ayurvedic College, Harwar.
Lalit Hari Ayurvedic College, Filibhit.
Kanya Kumbha Ayurvedic College, Lucknow.
Ram Sahai Ayurvedic College, Meerut.
Lekh Ram Ayurvedic College, Dorli (Distt. Meerut), (U.P.).
Ayurvedic College, Dehra Dun.
Arjuna Ayurveda Vidyalaya, Banaras.
Baldeo Ayurvedic College, Baragon, Banaras.
Ayurvedic College, Farrukhabad.
Narendra Vidya Mandir, Kirooli (Distt. Agra).
Moolchand Rastogi Ayurvedic College, Lucknow.
Uttra Khand Vidyapith Vidyalaya, Guptakashi (Distt. Garhwal).
Tibbia College, M.U., Aligarh.
Takmil-ul-Tib College, Lucknow.
Unani Medical College, Himmat Ganj, Allahabad.
Tibbia College, Saharanpur.
Darshanand Ayurvedic College, Banaras.
Shiv Ganga Ayurveda Mahavidyalaya, Madhubani, Bihar.
The Suddha Ayurved Vidyalaya, Sion, Bombay.
The Funarvasu Ayurved Vidyalaya, Bombay.
The Ashtang Ayurved Mahavidyalaya, Poona.
The Karnatak Ayurved Vidyalaya, Belgaum, Mysore.
The Suddha Ayurved Vidyalaya, Hubli.
The Suddha Ayurved Vidyalaya, Nasik.
The Suddha Ayurved Vidyalaya, Bilapur.
Vidarbha Ayurveda Mahavidyalaya, Amravati.
Government Ayurvedic College, Raipur.
Bidyabhushan Sanskrit College, Bolangir, Orissa.
Sanskrit College, Parlakimedi, Orissa.
Sada Siv Sanskrit College, Puri, Orissa.
Dayanand Ayurvedic College, Jullundur.
Ayurvedic College, Sikar.
Ayurvedic College, Bikaner.
Gurukul Vishwa Vidhyalaya, Virmadaban.
State Ayurvedic College, Lucknow.
Nabadwip Ayurvedic College, P.O. Nabadwip, District Nadia, West Bengal.
Vaidya Sastrapith Parasad College, Calcutta.
Ayurvedic Sewak Sangh Vaidyak Pathshala, P.O. Contal, Midnapore.
Banwari Lal Ayurvedic Vidyalaya, Delhi.
Jamia Tibbia College, Delhi.
Dharma Samaj Sanskrit College, Munshargarh, Bihar.
Shudha Ayurved Vidyalaya, Malbipole, Baroda.
Shri Ayurved Mahavidyalaya, Samanvaya Ragnalaya Mahal, Nagpur.
Ayurved Medical College, Nanded, Bombay.
Radhakrishan Toshniwal Ayurved Mahavidyalaya, Akola.
Government Ayurvedic College, Dabala.
Birja Sanskrit (Ayurvedic) College, Filani.
Meerut Ayurvedic College, Nanchandi, Meerut.
Ayurvedic College, Atarra, District Bandi.
Mahila Ayurvedic College, Meerut.
Divedi Ayurvedic College, Kanpur.

Ayurvedya Partisthan, 123, Hariash Mookerjee Road, Calcutta-26.

Dayanand Ayurvedic Kanaya Mahavidyalaya, Delhi.

Government College of Indian Medicine, Mysore.
Taranath Ayurveda Vidyapeetha, Bellary (Mysore).

SPECIAL TRAINING

Post-graduate medical education facilities are now available at the following institutions:

1. Osmania Medical College, Hyderabad—M.D.; M.S.; D.G.O.; D.O.; Dip. Anaesthesia.
2. Grant Medical College, Bombay—M.D. (medicine, pathology, midwifery, gynaecology, pediatrics, T.B., pharmacology); M.S. (gen. surgery, ophthalmology, E.N.T., orthopaedics); D.F.H.; D.M.B.E.; D.F.M.; D.A.; D.V.D.; M.Sc. (biochemistry); M.Sc. (microbiology); M.Sc. (medical); Ph.D. (Biochemistry, Microbiology); M.Sc. (Med.); Ph.D. (Med.).
3. College of Physicians and Surgeons, Bombay—D.O.M.S.; D.A.; D.D.V.; D.P.B.; D.G.O.; F.C.P.S.; D.P.M.; D.C.H.; D.O.B.L.; D. Ortho.
4. Topiwala National Medical College, Bombay—M.D. (Medicine, pathology, bacteriology, obstetrics, gynaecology, pediatrics); M.S. (surgery); B.Sc. (medical); D.A.; D.P.M. Also diplomas of the College of Physicians and Surgeons.
5. B. J. Medical College, Poona—M.D. (medicine); M.D. (midwifery, gynaecology); M.D. (pathology); M.D. (pharmacology); M.S. (surgery). Also diploma courses of the College of Physicians and Surgeons.
6. B. J. Medical College, Ahmedabad—M.D. (medicine); M.S.; M.C.P.S.; B.Sc.; M.Sc. (Medical); D.P.B.; D.Ana.; D.D.V.; D.O.M.S.; D.G.O.; D.C.H.; D.O.B.L.; F.C.P.S.; F.R.C.S.
7. Medical College, Nagpur—M.D. (medicine); M.S. (surgery); M.O. (obstetrics, gynaecology); M.Sc. (medical, anatomy, pharmacology, physiology, pathology, bacteriology); M.B.; M.O.; D.O.; Ph.D.
8. Stanley Medical College, Madras—M.D. (gen. medicine); M.S. (gen. surgery); M.Sc. (anatomy, physiology, pharmacology); Ph.D. (anatomy); D.G.O.
9. Christian Medical College, Vellore (Madras State)—M.D. (medicine, pathology); M.S. (gen. surgery); D.G.O.; T.D.D.; M.Sc. (Pharmacology); M.Sc. (Anatomy).
10. Seth G. S. Medical College, Bombay—M.D.; M.S.; D.A.; D.M.B.E.; D.V.D.; M.Sc.; Ph.D.; D.F.H.
11. Medical College, Amritsar—M.S.; D.T.D.; D.O.M.S.; B.Pharm; M.D.
12. S. M. S. Medical College, Jaipur—M.D. (medical, pathology, bacteriology); M.S. (surgery, ophthalmology); M.Sc. (anatomy, physiology, pharmacology); Ph.D.; D.Sc.
13. All-India Institute of Hygiene and Public Health, Calcutta—D.P.H.; L.P.H.; D.M.C.W. (Dip. in Maternity and Child Welfare); certificate in Maternal and Child Health; Dip. Diet; D.I.H.; Dip. in Nutrition; D.Sc. (Public Health);

D.N.; M.E. (P.H.); Certificate courses in Public Health, Nursing, Biometry Technique; Nutrition, Lab. technique, Industrial hygiene, etc.

14. Calcutta School of Tropical Medicine, Calcutta—D.T.M. & H.; L.T.M.; D.C.F.

15. R. G. Kar Medical College, Calcutta—D.G.O.; D.O.M.S.; D.A.

16. Medical College, Agra—M.D.; M.S., D.C.H.; D.O.M.S.

17. Medical College, Lucknow—M.D. (medical, pathology, physics, forensic medicine, social med. and pub. health, pharmacology, tuberculosis, radiology); M.S. (surgical, ophthalmology, obstetrics, gynaecology, anatomy, orthomology, surgical, E.N.T.); D.M.B.E. (medical, radiology and electricity); D.L.O. (laryngology, otology); D.T.D. (tuberculosis); D.O.M.S. (ophthalmic, medicine and surgical); D.G.O. (gynaecology, obstetrics); D.C.F. (clinical pathology); D. Orth. Sur. (orthopaedic surgery).

18. Institute of Ophthalmology, Aligarh Muslim University, Aligarh—D.O.

19. Lady Hardinge Medical College, New Delhi—M.D. (medicine, pathology, obstetrics, gynaecology); M.S.; M.Sc.

20. Vallabhbhai Patel Chest Institute, Delhi—D.T.D.

21. Medical College, Baroda—M.S.; M.D.; D.Ped.; D.O.; D.V. & D.; D.A.; D.M.B.E.; T.D.D.; D.L.O.

22. All-India Institute of Mental Health, Bangalore—D.P.M.; D.M.P.; D.P.N.

23. M.G.M. Medical College, Indore—M.D.; M.S.; D.C.H.; T.D.; D.O.M.S.

24. G.R. Medical College, Gwalior—M.D.; M.S.; D.M.B.E.

25. Madras Medical College, Madras—Dip. in Radiology, in Clinical Lab. Science; L.P.H.; Dip. in Maternity and Child Welfare; D.M.B.; T.D.D.

26. Barnard Inst. of Radiology, General Hospital, Madras—D.M.B.; Dark Room Technique (Certificate); Radiographers.

27. Medical College, Calcutta—T.D.D.; D.G.O.; D.O.M.S.

28. P.W. Medical College, Patna—M.S.; M.D.; D.T.D.; D.C.H.; D.O.; D.L.O.; D.A.; D.C.F.

29. All India Institute of Medical Sciences, New Delhi—Post-graduate training in Orthopaedic Surgery.

30. Andhra Medical College, Visakhapatnam—M.D.; M.S.; M.Sc.; D.G.O.; D.L.O.; D.O.D.V.; T.D.D.; D.C.H.; D.C.F.

31. Medical College, Mysore—M.Sc. (Biochemistry); T.D.D.

32. Medical College, Guntur—Post graduate studies in all Branches of M.D. and M.S.

Training in Nursing is offered, as already mentioned, in most of the hospitals. The College of Nursing, New Delhi, offers higher training in B.Sc. (Honours) course in Nursing and the following post certificate courses:—Ward Sisters course; Nursing Administration course; Sister Tutors course; Midwife Tutors course.

The School of Nursing, Christian Medical College, Vellore, provides training in B.Sc. (Nursing) course in Nursing and post-graduate course in Teaching and Supervision.

Health Visitors are trained in Bombay, Calcutta, Delhi, Hyderabad, Madras, Lucknow, Nagpur, Poona, Ludhiana, Amritsar, Visakhapatnam, Indore, Patna, Ranchi, Trivandrum, Allahabad, Bareilly, Srinagar, Khod and Rajkot.

Courses in malaria are conducted at the Malaria Institute of India.

Pharmacy

Facilities for training in pharmacy are being developed or improved in the following institutions:—

Department of Pharmaceutics, Andhra University; Department of Pharmacy, Saugor University; Department of Pharmacy, Banaras Hindu University; Department of Pharmacy, Punjab University; Department of Pharmacy, Medical College, Madras; Department of Pharmacy, Birla College of Science, Pilani; L. M. College of Pharmacy, Ahmedabad; Department of Chemical Technology, Bombay University.

The total cost of the scheme for the above institutions is of the order of non-recurring Rs. 13.5 lakhs and recurring Rs. 1.73 lakhs.

The Central Government or the University Grants Commission have agreed to provide about Rs. 9.81 lakhs of the non-recurring cost and Rs. 70,000 of the recurring cost.

When the scheme is fully implemented, facilities will be available for an annual admission of about 200 candidates for a three-year degree course in pharmacy.

The All-India Council for Technical Education has recommended that efforts should be made for developing at least one centre in each major State for training in pharmacy. Accordingly, those States which do not have such training facilities at present have been addressed by the Central Government regarding the setting up of necessary centres.

The All-India Council is also examining the question of developing facilities for training in pharmaceuticals technology in certain selected institutions which are conducting courses in chemical engineering and chemical technology.

A course of study in Pharmacy aimed at training pharmacists who will be eligible for registration under the Pharmacy Act is being provided by the following institutions:—

1. Medical College, Amritsar.
2. L. M. College of Pharmacy, Ahmedabad.
3. Birla College, Pilani.
4. D.A.V. College, Kanpur.
5. Madras Medical College, Madras.
6. Pharmacy Training Centre, Jalpaiguri.
7. Bombay College of Pharmacy, Bombay.

The pharmacy Council of India has approved, these courses of study under Section 12 of the Indian Pharmacy Act, 1948.

LABOUR

THE achievement of Independence and the emergence of India as a Republic wedded to the idea of a welfare State has made the welfare of the working classes a prime responsibility of the State. Several administrative and legislative measures of far-reaching significance have already been introduced in the country. Health, education, housing and social welfare for the masses find a prominent place in the First and Second Five Year Plans.

The general position in 1955-56 was as follows:—

Total Labour Force	129,800,000
(men 68,709,000; women 40,800,000).	
No. employed in factories coming under the Factories Act of 1948	2,882,909
No. of trade unions on register	7,845
No. of trade unions which submitted returns of membership	8,911
No. of members of trade unions submitting returns	2,225,810

The Central co-ordinating authority in India for questions connected with labour legislation is the Ministry of Labour and Employment of the Government of India with the Labour Minister in charge. The administration of matters, connected with the English and Indian Merchant Shipping Acts, the Mercantile Marine Department and Indian Seamen is with the Ministry of Transport and Communications. In respect of all the Railways, the Labour Minister is responsible for the administration of the Payment of Wages Act, 1936, trade disputes, hours of work for employees not covered by the Factories Act and regulation of employment of children. He is also responsible for regulation of labour and safety in respect of mines and oilfields; trade disputes in industries, businesses or undertakings carried on by the Central Government, and inter-State migration.

Among the more important Acts that govern labour conditions and relations in India are the following: 1. Indian Factories Act, 1948; 2. Indian Mines Act; 3. Payment of Wages Act; 4. Minimum Wages Act; 5. Workmen's Compensation Act; 6. Maternity Benefit Act (States); 7. Indian Trades Union Act; 8. Industrial Disputes Act; 9. Industrial Disputes (Appellate Tribunal) Act; 10. Shop Assistants' Act (States); 11. Employees' State Insurance Act; 12. Collection of Statistics Act; 13. Employees Provident Funds Act.

FACTORIES ACT, 1948

The Act covers all industrial establishments employing 10 or more workers and using power and establishments employing 20 or more workers and not using power. The State Governments have been empowered to apply the provisions of the Act to any premises, irrespective of the number of persons employed, where a manufacturing process is carried on with or without the aid of power, except where the work is done by the worker solely with the aid of his family.

The Act prescribes that every factory should be kept clean and free from effluvia arising from drains, privies, etc., and lays down stipulations regarding sweeping, cleaning, disinfecting, white-washing, ventilation, temperature, drinking water, latrines, etc.

In existing factories 350 cubic feet of space should be provided for every workman. In new factories to be built the space for each workman should be 500 cubic feet.

Elaborate provision regarding safety such as fencing of machinery, etc., has been laid down. Women and children are prohibited from employment on certain types of machinery.

Washing facilities for the workers, appliances for first-aid, rest shelters, canteens, etc., are prescribed under the Act. In every factory where 500 or more workers are employed the employer shall employ Welfare Officers.

Weekly hours of work have been fixed at 48 and daily hours at 9. The maximum spread-over allowed is 10½ hours. No worker shall

work for more than 5 hours before he has had an interval for rest of at least half an hour.

Payment for overtime has been prescribed at double ordinary rate of wages.

No woman shall be employed in any factory except between the hours of 6 a.m. and 7 p.m.

A weekly day of rest has also been prescribed.

No child who has not completed his fourteenth year shall be required or allowed to work in any factory. A child who has completed his fourteenth year or an adolescent (a person who has not completed his eighteenth year) shall not be allowed to work in a factory unless a certificate of fitness by a certifying surgeon is in the custody of the manager of the factory and he carries while at work a token giving reference to such certificate. No 'child' shall be employed or permitted to work in any factory for more than 4½ hours in a day or between the hours of 7 p.m. and 6 a.m.

Every adult worker who has completed a period of 12 months' continuous service in a factory (later amended, see below) shall be allowed during the subsequent period of 12 months leave with wages including dearness allowance for a period calculated at the rate of one day for every 30 days of work performed by him during the previous 12 months, subject to a minimum of 10 days. In the case of children the leave should be at the rate of one day for every 15 days of work subject to a minimum of 14 days.

It may be added here that the recent tendency for many units particularly in south India has been to allow holidays with pay in excess of the minimum stipulated.

In many awards given by Adjudicators leave with pay up to 14 days has been granted.

Where any worker in a factory contracts any disease specified in the schedule appended to the Act, the manager of the factory shall send notice thereof to such authorities, and in such form and within such time, as may be prescribed.

The administration of the Act is left to the State Governments. The Central Government have set up an advisory organisation, namely the Office of the Chief Adviser, Factories.

The Act was amended in 1954. Under this amendment eligibility for leave with pay would be 240 days' service during a calendar year. Proportionate leave will be granted to those whose service starts after the beginning of the calendar year.

The annual leave with wages will be exclusive of holidays during or immediately before or after the period of leave.

The leave can be carried forward from one calendar year to another provided the maximum does not exceed 30 days in the case of an adult and 40 days in the case of a child.

No prior notice will be necessary when a worker requires leave to cover a period of illness.

The Act permits six hours' work at a stretch without any interval when the total number of hours to be worked on any day in a shift does not exceed six.

It also permits newspaper printing presses to work their entire night shift of six hours at a stretch.

It allows a worker a maximum of 50 overtime hours in a quarter year which is deemed to have begun on the first day of January, April, July or October.

It enables continuous employment of workers in case some of the subsequent shift workers do not turn up in time.

For the purpose of computing the rate of wages of a person who takes advantage of the concessional sale of foodgrains and other articles the basis will be the maximum ration admissible to a standard family of a specific number of consumption units.

Women and children are prohibited from working in factories at night.

Women and children are also prohibited from cleaning, lubricating or adjusting any prime mover of transmission machinery while it is in motion if such work exposes them to risk of injury.

FACTORY STATISTICS

Under the provisions of the Factories Act, 1948, registered factories submit annual and half yearly returns on employment to the Chief Inspectors of Factories in the various States. All-India figures are compiled by the Labour Bureau and are published in the Indian Labour Gazette.

The number of factories on registers in the areas covered by the States during 1955 and 1956 were 30,148 and 34,274 respectively.

The following table sets out the statistics of the average daily numbers of persons employed in factories during the year 1956.

WORKERS EMPLOYED 1956.

Industry	Average Number of Workers Employed Daily
Processes allied to agriculture (Gins and Presses)	110,000
Food except beverages	252,987
Beverages	5,692
Tobacco	147,616
Textiles	1,134,360
Footwear, other wearing apparel and made up textile goods	13,105
Wood and Cork except furniture	21,310
Furniture and fixture	886
Paper and paper products	23,258
Printing, publishing and allied industries	77,496
Leather and leather products (except footwear)	19,988
Rubber and rubber products	26,309
Chemicals and Chemical products	87,033
Products of petroleum and coal	15,010
Non-metallic mineral products (except products of petroleum and coal)	106,302
Basic metal industries	102,297
Metal products (except machinery and transport equipment)	69,636
Machinery (except electrical machinery)	114,224
Electrical machinery, apparatus, appliances and supplies	24,252
Transport equipment	229,436
Miscellaneous industries	131,841
Electricity, gas and steam	27,308
Water and sanitary services	5,251
Recreation services (Cinema Studios)	3,688
Personal services (Laundries, dyeing, cleaning)	11,368
Total	2,882,909

MINES ACT

With a view to amending and consolidating the law relating to the regulation of labour and safety in mines, the Mines Act, 1952 was passed and brought into force from July 1953. The Act extends to the whole of India except Jammu and Kashmir. The Act restricts the hours of work for adults to 9 per day and 48 per week above ground and 8 per day and 48 per week below ground. Overtime work below ground should be paid for at twice the ordinary rate and above ground at 1½ times the ordinary rate. The Act prohibits the employment of children

below 15 years of age. It also prohibits the employment of women in any part of a mine which is below the ground level. Women can be employed above ground only between the hours of 6 a.m. and 7 p.m. Adolescents who have not completed 18 years of age are not allowed to work underground unless they are certified fit to work as adults. Adolescents not certified fit to work as adults should not be allowed to work for more than 4½ hours a day. Annual leave with wages for a period of 14 days in a year in the case of monthly-paid employees and 7 days in the case of weekly-paid employees and piece workers is granted to the workers. Provisions relating to health and safety are laid

down in the Act, besides which the Central Government may direct that the Health and Safety provisions under the Factories Act, 1948 shall apply to all mines and the precincts thereof.

MINING STATISTICS

Figures are published in a Monthly Bulletin which is issued by the Chief Inspector of Mines. The average daily number of workers employed in mines in 1939, 1951, 1952, 1953 and 1954 was 298,680; 546,048; 559,196; 563,968 and 568,254 respectively. The available figures are given in the following table :—

EMPLOYMENT IN MINES IN 1954

(Figures for the Indian Union)

For later figures for all-India see under 'Mines and Minerals'.

State*	Under-ground Men	Open workings		Surface		Total
		Men	Women	Men	Women	
Andhra	3,360	7,306	3,902	1,714	1,435	17,640
Assam	2,357	705	125	1,437	453	5,577
Bihar	96,253	35,110	16,541	57,395	24,415	229,633
Bombay	699	6,437	2,639	1,694	298	11,793
Madhya Pradesh	20,246	24,999	22,074	13,112	5,639	85,930
Madras	76	4,963	2,806	682	94	8,531
Orissa	4,215	14,313	10,615	6,543	4,423	43,118
Punjab (East)	5	511	10	..	..	526
Uttar Pradesh	23	25	..	23	6	76
West Bengal	57,710	3,354	925	24,016	9,819	95,824
Hyderabad	10,332	158	..	6,030	1,310	17,850
Madhya Bharat	4	855	225	100	50	1,277
Mysore	10,744	4,305	2,280	6,233	1,974	24,699
Rajasthan	2,580	3,338	698	2,094	401	9,991
Saurashtra .. .. .	..	161	18	7	1	187
Travancore-Cochin	45	1,956	23	653	..	2,679
Pepos .. .. .	..	279	129	234	10	702
Almer	199	473	119	308	2	999
Delhi	92	44	..	18	..	154
Himachal Pradesh	45	..	..	52	19	136
Vindhya Pradesh	5,115	1,778	761	2,932	1,078	11,644
TOTAL ..	214,620	110,948	69,770	128,254	50,682	568,254

* Old States existing before the reorganisation on November 1, 1956.

PAYMENT OF WAGES ACT

The Act applies only to wages and salaries which average below Rs. 400 per month.

For the purpose of the Act "wages" means all remuneration capable of being expressed in terms of money and includes any sum payable under an award or settlement, any remuneration for overtime work or holidays and bonus but does not include the value of housing, employer's contributions to pension or provident funds or travelling allowance.

No wage period is to exceed one month and wages are to be paid within a prescribed time not exceeding 10 days from the end of the wage period. All wages are to be paid in coin and, or currency notes. Fines are not to exceed half anna in the rupee. Permissible deductions from wages have also been specified.

The administration of the Act, as far as factories are concerned, has been entrusted to the Inspectors of Factories in the States. In regard to persons employed in mines and in railways the responsibility of administering the Act rests upon the Chief Labour Commissioner (Central).

MINIMUM WAGES ACT, 1948

The Act covers the following industries or types of establishments. Woolen carpet making or shawl weaving; rice, flour or dal mills; tobacco manufactories (including bidi making); plantations; oil mills; employment under any local authority; road construction or building operations; stone breaking or stone crushing; lace manufactories; mica works; public motor transport; tanneries and leather manufactories; and agriculture. The appropriate Governments can extend the application of the Act to any

industry wherein, in their opinion, minimum wages should statutorily be fixed.

The Act requires the Central or State Governments, as the case may be, to fix minimum rates of wages payable to persons employed in the industries mentioned above.

The Act provides for the fixation of minimum time rates, minimum piece rates, guaranteed time rates and overtime rates appropriate to different occupations, or localities and for adults, adolescents, children and apprentices. The minimum rate may consist of a basic rate and a cost of living allowance and/or cash value of concessions or it may be an all-inclusive rate.

The Act authorises the appropriate Governments to appoint Committees and Sub-Committees to hold inquiries and advise them to fix minimum rates of wages in respect of any scheduled employment or for the revision of these rates. They may also appoint an Advisory Board for co-ordinating the work of various Committees and also to advise Government generally in the matter of fixing or revising minimum rates of wages.

The Central Government have set up a Central Advisory Board for advising the Central and State Governments and for co-ordinating the work of State Advisory Boards. The Committees and Sub-Committees as well as the Central and State Advisory Boards are to consist of equal number of representatives of employers and employees, and of independent persons not exceeding a third of the total number of members.

The Central or the State Governments, as the case may be, can fix the number of hours of work per day, provide for a weekly holiday, etc., in regard to any employment in which minimum wages have been fixed under the Act.

WORKMEN'S COMPENSATION ACT

Under the Act payment of compensation has been made obligatory on all employers whose employees come within its scope, and injured workmen or the dependents of those killed can obtain compensation in all cases where personal injury has been caused by accident arising out of and in the course of employment and where, except in the case of injury resulting in death, the accident is not directly attributable to the workman having been at the time of the accident under the influence of drink or drugs or to wilful disobedience of rules or orders or wilful disregard of safety devices.

Besides bodily injuries the contracting of certain occupational diseases such as anthrax and mercury, lead and phosphorus poisoning were deemed and treated for the purposes of compensation, as injuries caused by accident, provided however, that the worker concerned was in the service of the same employer for more than six months.

The main provisions of the Workmen's Compensation Act as it stands today are as follows:

In all cases persons employed in an administrative or clerical capacity and those whose monthly earnings exceed Rs. 400 (except Railway Servants) are excluded.

As far as seamen are concerned, those employed on ships registered in India are covered. But if accidents take place within the three mile limit of the territorial waters the Act applies even to those employed on ships not registered in India.

Not only workmen employed within the precincts of a factory or a mine but also men engaged in any kind of work incidental to or connected with a factory or any mining operation are entitled to the benefits of the Act.

Any person who is covered by the Employees' State Insurance Act, 1948, and who is entitled to receive disablement or dependent's benefit from the Employees' State Insurance Corporation is not entitled to claim any compensation from the employer under this Act.

The amount of compensation payable depends, in the case of death, on the average monthly wages of the deceased workman and in the case of an injured workman both on the average monthly wages and the extent of disablement. The term 'wages' includes overtime pay and the value of any concessions or benefits in the form of food, clothing, free quarters, etc.

The amounts of compensation payable in the case of an injured workman whose monthly wages are not more than Rs. 10 are Rs. 500 for death, Rs. 700 for permanent total, and half the monthly wages for temporary disablement. For a workman whose monthly wages are between Rs. 10 and Rs. 50, the corresponding figures are Rs. 1,000, Rs. 2,500 and Rs. 15 respectively. The maxima for persons earning over Rs. 500 per month are Rs. 4,500, Rs. 6,500 and Rs. 30 per month respectively. In the case of miners the amounts of compensation for death and for permanent total disablement are at the uniform rate of Rs. 200 and Rs. 1,300 respectively, and half the monthly wage for temporary disablement.

The interests of dependents in cases of fatal accidents have been safeguarded by ensuring that (1) all cases of fatal accidents should be brought to the notice of the Commissioner; (2) in all cases where an employer admits liability the amount of compensation payable is to be promptly deposited with the Commissioner; and (3) in cases where the employer disclaims liability and there are good grounds for believing compensation to be payable, the dependents get the information necessary to enable them to judge if they should make a claim or not.

An employer is permitted to make to any dependent advances on account of compensation not exceeding an aggregate of one hundred rupees.

The Act is administered by Commissioners appointed by State Governments. In areas in which the Employees' State Insurance Scheme has been implemented, the payment of workmen's compensation is the responsibility of the E.S.I. Corporation.

The Workmen's Compensation Act was first enacted as already mentioned in 1923 and has since undergone a number of important amendments. The basic structure of the Act, however, has remained more or less the same and a comprehensive amendment of the Act has been for long under consideration.

The basic points relating to such an amendment were: a revision of the current rates of compensation; and extension of its coverage by raising the present wage limit from Rs. 400 to Rs. 500.

These two important matters were before an Actuarial Committee, which went into the question of the financial burden any such proposal would impose on the industry. It is proposed to take up these amendments when the Committee's findings have been fully considered.

An Amendment Bill—Workmen's Compensation Amendment Bill 1956—was passed by Parliament in Feb. 1959.

The Amendment aims broadly speaking at the following:

The removal of distinction between adult and minor in the matter of compensation; the waiting period during which the worker is not entitled to compensation would be reduced from seven to five; if the disablement lasts 28 days or more there would be no waiting period; if payment of compensation is delayed more than one month from the due date an interest of 6 per cent would be levied on the employer; there would be a penal compensation of 50 per cent if the delay in payment was not justified; the time limit for filing claims would be raised from one year to two years, delays in this might also be condoned; in case of transfer of assets of factory compensation would be the first charge; failure to carry out provisions of the Act would entail a penalty of Rs. 500 as against Rs. 100; factory inspectors and mine inspectors could be authorized to file claims; the number of injuries mentioned in the schedule would be raised from 14 to 24; the definition of workman would be enlarged; the definition of establishments to which the Act refers would also be enlarged; the schedule relating to occupational diseases would also be amended.

STATISTICS

An annual note on the working of the Act is published regularly in the *Indian Labour Gazette*.

The latest available statistics on the subject will be found in the following table:—

Year	Total number of cases	Total compensation paid
		Rs.
1947	56,574	23,26,495
1948	66,776	42,30,068
1949	60,511	32,17,168
1950	61,955	37,57,375
1951	65,123	39,06,252
1952	56,734	36,57,355
1953	61,742	41,38,330
1954	66,118	44,25,068
1955	75,793	50,57,194
1956	61,610	31,53,557

Facilities for accident insurance are now being provided by a number of leading insurance companies in the country and the most important of these are the Claims Bureau in Calcutta and Madras.

The table below shows the accident rate per thousand workers and the average compensation paid in the main industry groups during 1956.

INDUSTRY	1956	
	Accident Rate per thousand.	Average compensation paid per case.
		Rs.
Factories	20.52	85
Plantations	1.87	70
Mines	46.76	84
Railways	15.50	88
Docks and Ports	73.19	101
Tramways	14.04	378
Posts & Telegraphs	10.96	200
C.P.W.D.	0.59	788
Buildings & Construction	4.85	451
Municipalities	0.22	1,195
Miscellaneous	24.18	108
Average	18.08	84

MATERNITY BENEFIT ACT

The first Maternity Benefit Act in India was passed by the Government of the former Bombay State in 1929. After that, Maternity Benefit Acts were passed by the Governments of all the pre-reorganization Part "A" States; Hyderabad, Madhya Bharat, Mysore, Rajasthan, Saurashtra and Travancore-Cochin among Part "B" States; Ajmer, Bhopal, Delhi and Tripura among the pre-reorganization Part "C" States had similar Acts.

The West Bengal Legislature passed a separate Act in 1948 for women employed in tea-plantations under the title of the West Bengal Maternity Benefit (Tea Estates) Act, 1948.

The Government of India passed the Mines Maternity Benefit Act in 1941.

The scope, qualifying conditions and rate of benefit are not uniform under the various State Acts.

The qualifying period of service is generally 9 months.

The rate of benefit is annas eight per day in Madras and Andhra under the Acts. In the Hyderabad Act and the Mines Benefit Act the rate is Ann. 12 or average daily earnings whichever is more. In Orissa, it is the actual daily wage or salary subject to a maximum of Ann. 12 per day. The Travancore-Cochin and West Bengal (Tea Estates) Acts provide for Rs. 5-4-0 per week. Women workers on plantations in Assam receive under the Act Ann. 11 Pies 6 per day in addition to the usual food concessions and women in other industries in the State get their average weekly earnings subject to a minimum of Rs. 2. Although maternity benefit legislation does not apply to plantations in other parts of South India, the employers' associations have recommended payment of benefit on a voluntary basis at the rate of Ann. 12 per day for a period of 8 weeks.

The Mines Maternity Benefit Act and the Assam, Bihar and U.P. Acts provide for some additional benefits which take the form of free medical treatment, maternity bonus, provision of creches, additional rest intervals for nursing mothers, etc. In the Central Act for women employed in mines and in the U.P. and Bihar Acts, an additional bonus of Rs. 3 and in Rajasthan Rs. 5 is paid if the woman avail themselves of the services of a qualified mid-wife. But if such assistance is provided by or in an institution of an employer, the bonus is not paid.

The U.P. and Bihar Acts lay down that factories employing 50 or more women or where women employed form 25 per cent. or more of the workers, should maintain creches, and appoint female attendants to look after the children.

The administration of the Acts in the States is the responsibility of the Factory Inspectors. The enforcement of the Mines Maternity Benefit Act in the coal mines is the responsibility of the Coal Mines Welfare Commissioner. In other mines, it is administered by the Chief Inspector of Mines.

MATERNITY BENEFIT IN THE VARIOUS STATES AND MINES DURING 1956

States.	Average No. of women employed.	No. of women who claimed maternity benefit	No. of women who were paid maternity benefit in full or in part.	No. of cases in which a bonus was given or maternity benefit was paid for miscarriage or death.	Total amount paid.
					Rs.
Andhra	64,416	690	628	8	13,047
Assam	105,643	23,342	23,254	20	2,019,075
Bihar	9,552	850	775	10	81,331
Bombay	51,942	2,450	2,304	—	62,007
Kerala	51,801	12,907	12,425	8	715,407
Madhya Pradesh	7,775	83	70	—	2,732
Madras	45,552	2,400	1,559	146	94,457
Mysore	3,681	443	443	—	39,515
Nagpur	2,304	58	48	—	3,006
Orissa	1,096	150	92	39	10,740
Rajasthan	2,777	2	2	—	173
Punjab	2,293	40	38	16	2,663
U.P.	35,241	2,394	2,293	44	301,654
West Bengal	—	—	—	—	—
Total 1956	396,083	45,679	44,044	296	2,900,517
Total 1955	493,641	76,377	72,392	272	5,243,464
Mines—					
Coal	84,225	2,758	2,902	531	122,220
Others	67,751	5,854	5,766	563	236,574
Total Mines 1956	151,976	8,612	8,758	1,094	358,794
Total Mines 1955	119,372	6,488	6,720	1,322	341,396

The above statistics do not present a complete picture as women in different states are covered by the Employees' State Insurance Scheme.

AMOUNT OF MATERNITY BENEFIT PAID UNDER THE EMPLOYERS' STATE INSURANCE ACT, 1948 DURING 1955-56

State	1955		1956	
	No. of women who received maternity benefit.	Amount of benefit paid.	No. of women who received maternity benefit	Amount of benefit paid.
		Rs.		Rs.
Andhra	868	111,609	900	22,944
Bombay	38	3,489	1,471	230,895
Delhi	15	258	53	3,699
Madhya Pradesh	207	8,706	363	26,481
Madras	26	2,158	867	89,398
Punjab	17	1,695	7	1,760
U.P. .. .. .	..	..	17	1,020
West Bengal .. .. .	..	..	202	18,494
Total	1,180	127,825	3,290	391,196

The average amount of benefit paid in the years 1955 and 1956 was Rs. 73 and Rs. 77 for all the States and Rs. 30 and Rs. 42 for mines.

STATISTICS OF TRADE UNIONS

All-India Figures.—The following tabular statements show the latest available position in regard to Registered Trade Unions :—

REGISTERED TRADE UNIONS AND MEMBERSHIP

(The States mentioned below are those existing before the reorganization in November 1956.)

	No. of Unions on registers		No. of Unions submitting returns		Membership of Unions submitting returns	
	1954-55	1955-56	1954-55	1955-56	1954-55	1955-56
Central Unions	144	171	105	106	178,508	212,848
Part A States—						
Andhra	184	205	130	124	35,970	36,945
Assam	124	141	74	84	178,107	203,349
Bihar	493	521	248	308	282,100	291,945
Bombay	869	1,117	493	584	367,427	365,375
Madhya Pradesh	156	—	101	—	66,001	—
Madras	613	711	401	514	154,228	215,171
Orissa	95	89	65	67	25,919	23,945
Punjab	216	280	91	181	15,496	25,822
Uttar Pradesh	651	752	552	610	161,450	170,602
West Bengal	1,281	1,695	587	433	361,178	287,412
Total (Part A States) ..	4,782	5,551	2,722	2,934	1,640,075	1,660,284
Part B States—						
Hyderabad	313	358	63	70	23,473	27,005
Jammu and Kashmir	—	—	—	—	—	—
Madhya Bharat	69	95	45	40	18,185	15,203
Mysore	55	104	55	78	48,405	44,762
PRPSU	14	25	10	11	3,082	3,370
Rajasthan	116	176	54	78	12,540	14,969
Saurashtra	122	168	68	116	18,228	21,768
Travancore-Cochin	769	793	191	251	161,450	180,789
Total (Part B States) ..	1,458	1,809	511	638	385,363	428,554
Part C States—						
Ajmer	19	22	18	14	7,367	5,284
Bhopal	19	25	19	18	6,870	5,265
Coorg	—	—	—	—	—	—
Delhi	191	251	168	185	67,199	76,577
Himachal Pradesh	6	—	2	—	341	—
Kutch	1	—	1	—	514	—
Tripura	22	17	12	17	6,097	6,306
Vindhya Pradesh	6	—	5	—	1,151	—
Total (Part C States) ..	264	315	225	234	89,103	92,693
Grand Total	6,504	7,675	3,458	3,811	2,115,460	2,322,310

The industry-wise membership of the four Central Trade Union Organizations recognized by the Central Government, viz. the Indian National Trade Union Congress, the All-India Trade Union Congress, the Hind Mazdoor Sabha and the United Trade Union Congress, was as follows :

Name of Industry	I.N.T.U.C.	A.I.T.U.C.	H.M.S.	U.T.U.C.
Textiles	3,10,899	3,40,511	70,154	89,399
Transport	1,92,513	1,00,917	1,64,944	14,843
Plantations	8,22,683	1,54,815	20,442	27,247
Mining	1,29,090	2,12,366	78,988	12,346
Sugar	52,636	25,911	20,911	10,623
Others	4,30,414	6,85,478	1,84,765	1,20,970
TOTAL	14,37,205	1,499,900	5,55,204	2,25,980

The INTUC figures are as on Feb. 1956, the AITUC for March 1956, the HMS for March 1955 and UTUC for March 1958. The figures were supplied by the parties: they are not official figures.

TRADE UNIONS ACT, 1926

This Act was brought into operation with effect from 1st June 1927 and was slightly amended in 1928.

Apart from the necessary provisions for administration and penalties, the Indian Trade Unions Act, 1926, makes provision for three matters: (1) conditions governing the registration of trade unions; (2) the obligations to which a trade union is subject after registration; and (3) the rights and privileges accorded to registered unions. 'Trade Union' has been defined in such a way as to cover both combinations of workers and of employers but not of workers and employers. Persons under the age of 15 are debarred from membership of any registered union.

The administration of the Act is entirely on a State basis and each State Government is required to appoint a Registrar of Trade Unions. Any seven or more members of a union can apply for registration but no union can be registered unless at least fifty per cent of the executive consist of members actually engaged in the unit or group of units which the union proposes to cover.

The general funds of registered trade unions cannot be spent on objects other than those specified in Section 15 of the Act nor on political objects; but the Act makes provision for the creation of a separate political fund, subscription to which may be collected from such members as voluntarily desire to contribute to it. All registered unions are required to submit annually to the Registrar duly audited statements of accounts in prescribed forms together with changes in officers and the executive and a copy of the rules corrected up to date.

A registered trade union is immune from prosecution for criminal conspiracy in respect of an agreement, unless it is one to commit an offence, made between its members for the furtherance of a trade dispute or for restraint of trade and from any legal difficulties arising therefrom.

INDUSTRIAL DISPUTES ACT

The Act provides for the setting up of two types of organizations, namely, (1) Works Committees and (2) Industrial Tribunals for the prevention or settlement of disputes. It makes conciliation compulsory in all disputes in public utility services and optional in other cases.

Section 22 of the Act declares any strike or lock-out in a public utility service to be illegal if it is commenced or declared (i) without giving to the employer or employees, as the case may be, a notice of strike or lock-out in a prescribed manner, within six weeks before striking or declaring a lock-out, or (ii) within 14 days of giving such notice, or (iii) before the expiry of the date of strike specified in any such notice; or (iv) during the pendency of any conciliation proceedings before a conciliation officer and 7 days after the conclusion of such proceedings, etc. The Act also prohibits certain other strikes and lock-outs and declares them illegal if commenced or declared during the pendency of (i) conciliation proceedings before a Board and 7 days after the conclusion of such proceedings; (ii) proceedings before a Tribunal and 3 months after the conclusion of such proceedings; or (iii) during any period in which a settlement or award is in operation, in respect of any of the matters covered by the settlement or award.

The Act was amended once in 1946 and twice in 1950. It now provides that no workman, who has been in continuous employment for more than a year, shall be retrenched unless he has been given a month's notice or wages in lieu thereof and also compensation calculated at the rate of 15 days' average pay for every completed year of service. If a workman who has put in more than a year's continuous service is laid off, he is required to be paid compensation which should be equal to 50 per cent. of the total of basic wages and dearness allowances for a maximum of 45 days in a year unless periods of lay-off after the first 45 days are of the duration of one week or more on each occasion.

According to a decision of the Supreme Court in November 1946 on retrenchment compensation, workers cannot, under the Act, claim compensation for retrenchment in case of bona fide closure of business or termination of their services by the employer on the business being sold to another employer.

The definition of the term "workman" has been extended to cover technical personnel and supervisory staff drawing upto Rs. 500 per month.

The machinery for adjudication of disputes has been reconstituted and a three-tier machinery consisting of National Tribunals, Industrial Tribunals and Labour Courts is brought into being. Functions of these tribunals are demarcated and the importance of the dispute will determine which tribunal should adjudicate upon it. The tribunals are authorised to appoint experts having special knowledge as assessors to advise them. Schedules covering subjects which should go before each tribunal are attached to the Act.

Every employer who proposes to effect any change in the conditions of service of his workmen in respect of wages, hours of work, rationalisation, shift-working, increase or reduction in complement, etc. is required to give 3 weeks' prior notice to the workmen concerned.

The Act also provides for voluntary reference of disputes to arbitration by agreement between the employer and the workmen. Such a reference may be made to the Tribunals constituted under the Act.

All State Acts relating to the settlement or adjudication of disputes are expressly saved and the Industrial Disputes Act will not override them.

STATISTICS

A decrease of 26.7 per cent in time-loss due to industrial disputes in the country was recorded during 1957.

Also during the year, a maximum number of disputes terminated as a result of Government's intervention i.e., by conciliation or mediation.

The average duration of a dispute also declined to 7.8 days from 9.8 in 1956.

Sixty-one per cent of the total time-loss occurred in the manufacturing sector as compared to 70 per cent in the previous year. In this sector, time-loss recorded by cotton mills was nearly 57.9 per cent of the total as against 41 per cent in 1956. Next in order came Jute mills (10.6 per cent), Engineering (9.7 per cent) and Iron and Steel (8.7 per cent). Mining and quarrying also recorded a considerable time-loss during the year, accounting for nearly 18.9 per cent of the total time-loss in all industries.

About two-thirds of the disputes did not last more than 5 days. Among these, there were a large number of strikes lasting 'a day or less'. Only 7.1 per cent of the disputes lasted more than 30 days.

Nearly 25 per cent of the disputes during 1957 were unsuccessful from the point of view of employees, 30 per cent were decided in their favour and another 15 per cent resulted in their favour partially. In a little over 20 per cent cases, workers resumed without any final decision having been reached.

The Union Ministry of Labour and Employment set up in June 1956 a tripartite committee at the Centre to evaluate the implementation of awards, agreements and settlements. This followed the recommendation made by the Standing Labour Committee that machinery for this purpose should be at different levels and should be tripartite in character.

Following the example of the Centre, several State Governments also set up machinery for evaluating implementation of labour awards, agreements and settlements.

About 400 cases of non-implementation of awards, agreements and settlements were reported to the Evaluation and Implementation Division of the Labour Ministry till Aug. 1956. Of these, 144 or, about 36 per cent, were pending in courts. Of the rest, 25 cases were settled either through the intervention of State Governments of the H. and I. Division. The remaining cases were at different stages of examination and implementation.

As regards non-implementation of labour enactments, 512 cases were reported. These were brought to the notice of the authorities concerned and action was being taken to investigate them and to secure implementation.

The following table sets out the number of disputes in some of the years since 1948, the number of persons affected by these disputes and the total time lost in man-days:

Year	Number of disputes	Number of workpeople involved	Number of man-days lost
1948 ..	1,259	1,059,120	7,337,173
1949 ..	920	685,457	6,000,595
1950 ..	814	719,853	12,806,704
1951 ..	1,071	691,321	3,515,923
1952 ..	963	809,245	3,234,961
1953 ..	772	466,607	3,283,008
1954 ..	840	477,123	3,572,630
1955 ..	1,166	527,767	5,697,845
1956 ..	1,203	715,120	6,992,040
1957 ..	1,522	666,253	5,905,083

An analysis of the disputes for the year 1957 by States is given in the following table:—

State	No. of disputes	No. of workers involved	No. of man-days lost
Andhra ..	81	21,564	2,32,360
Assam ..	25	17,402	1,15,652
Bihar ..	116	80,811	9,62,277
Bombay ..	319	1,91,767	8,79,771
Kerala ..	250	1,85,935	10,04,386
Madhya Pradesh ..	63	25,576	1,62,624
Madras ..	247	1,16,857	7,19,633
Mysore ..	93	48,954	2,65,309
Orissa ..	7	6,950	2,73,936
Punjab ..	13	4,364	6,114
Rajasthan ..	27	7,629	31,505
Uttar Pradesh ..	66	34,664	2,38,570
West Bengal ..	231	1,16,045	12,41,264
Andaman & Nicobar Islands ..	3	2,560	43,050
Delhi ..	65	14,118	47,919
Tripura ..	9	1,992	2,540
Ajmer ..	..	..	..
Total ..	1,630	5,89,371	64,29,319

Classification of the disputes by causes shows that wages, allowances and bonus involved 50.3 per cent of the workers and 44.8 per cent of the man-days lost; personnel, 21.9 per cent of the workers and 19.0 per cent of man-days; leave and hours of work, 8.6 per cent workers and 1.8 per cent man-days; retrenchment, 2.7 per cent workers and 7.5 per cent man-days; others 18.9 per cent workers and 23.1 per cent man-days; not known 2.7 per cent workers and 3.0 per cent man-days.

Statistics presented in this section relate to industrial disputes which have resulted in work-stoppages involving 10 or more workers.

APPELLATE TRIBUNAL ACT, 1950

The Industrial Disputes (Appellate Tribunal) Act, 1950 was repealed by the Industrial Disputes (Amendment and Miscellaneous Provisions) Act, 1956 with effect from 1st September 1956. After that date no appeals were to be

entertained. Pending appeals were however, to be disposed of by the Appellate Tribunal as if the Act had not been repealed.

On 20th June 1956 the number of appeals pending with the Labour Appellate Tribunal was 593 of which no less than 145 were more than one year old.

By March 1959 all but one had been disposed of and it was expected that the Tribunal would cease to exist at any time.

COLLECTIVE AGREEMENTS

Some recent examples of collective agreements are given below.

The Ahmedabad Millowners' Association and the Textile Labour Association signed two collective agreements on 27th June 1955. The first Agreement provides that disputes between a member-mill of the Association and the Trade Union shall be settled by mutual negotiations and if negotiations fail by arbitration.

The second Agreement lays down the formula for grant of bonus.

The Bombay Millowners' Association and the Rashtriya Mill Mandor Sangh, Bombay also reached a similar agreement. The Bonus Agreement which was signed on 1st March 1956, was to cover the period 1952 to 1957. The pact provides for the appointment of a Commission to investigate into the requirements of industry for rehabilitation and modernisation. Finally and though this does not form a part of the Agreement, the Association has agreed to pay a sum of Rs. 50 lakhs towards industrial housing which will enable 4,000 tenements to be built.

The machinery for settlement of disputes, an agreement regarding which was signed between the parties on 18th September 1956 consists of a Committee of Assessors and a Board of Arbitrators.

There is a tendency for these agreements to be copied with appropriate changes in other centres in India.

The agreement between the Tata Iron and Steel Co. Ltd. and the Tata Workers Union reached on 8th January 1956, was to remain in force for 3 years. The most distinctive feature of the agreement is that it provides, *inter alia*, for union security, workers' participation in management and recognition of the union as the sole bargaining agent.

The Company accepts the principle of union membership security system and the collection of union dues through the pay-roll. The Union recognises the right of the Company to take disciplinary action and lay down personnel policies.

With a view to the improvement of productivity, the parties agree on the need for establishment of a standard force in each department, on the assurance that no employee will be retrenched and that if they are transferred to other jobs after training their earnings will not be adversely affected.

The agreement stipulates that a programme of job evaluation should jointly be undertaken in order to eliminate inequities in the structure of wages and other emoluments.

In a supplementary agreement reached on 6th August 1956 machinery has been devised to associate works employees with Management in the working of the industry.

A five-year Agreement between the Indian Aluminium Company Limited, Calcutta and the workers represented by the Indian Aluminium Bazar Works Employees Union was reached on the 31st August 1956.

The representatives of the planters and workmen employed in the plantations in Madras State reached an agreement on 7th January 1958 resolving all disputes relating to bonus upto the year 1954.

An agreement was reached between the Mysore Government Road Transport Department and its employees which came into force from 1st April 1957. As a result of the agreement pay scales, rates of dearness allowance and

contribution to the provident fund and the period of annual leave were revised. A Joint Committee consisting of management and the Federation of Road Transport Employees was constituted for proper implementation of the agreement.

A similar agreement was reached between the Associated Cement Companies, Bombay and the employees in six of their factories situated at Ramnagar (M.P.), Keymore (M.P.), Surajpur (Punjab), Jhinkpani (Bihar), Sindri (Bihar) and Shahabad (Mysore).

WORKING JOURNALISTS' ACT (See under article on the Press)

THE EMPLOYEES' PROVIDENT FUNDS ACT, 1952

The existing Acts under which workers get provident fund benefits are: Employees' Provident Fund Act, Coal Mines Provident Fund and Bonus Schemes Act and the Assam Tea Plantations Provident Fund Scheme Act.

The Employees' Provident Fund Act, 1952 was enacted to provide for the institution of provident funds for employees in factories and other establishments. It applies to factories employing fifty or more persons in the cement, cigarettes, electrical, mechanical or general engineering products, iron and steel, textiles (made wholly or in part of cotton, wool, jute or silk whether natural or artificial) industries.

The Scheme framed under the Act requires the employer and the employee to contribute at the rate of 6½ per cent of the basic wages and the dearness allowance. The Scheme which was enforced on 1st November 1952 applies to employees whose basic pay does not exceed Rs. 300 per month.

The Act does not apply to any factory established before or after 1st November 1952 unless three years have elapsed since its establishment. The Central Government is also empowered to exempt any class of factories having regard to the financial position or other circumstances of the case by a notification in the Official Gazette.

The Scheme provides for prompt settlement of claims in case of retirement, migration, death or other circumstances. Withdrawals from the Fund are permitted subject to fulfilment of certain conditions, for payment towards a policy of life insurance.

The Scheme is administered by a Central Board of Trustees which is tripartite in character. The Central Provident Fund Commissioner is the Chief Executive Officer and is assisted by Regional Commissioners for different regions. The Act aims at the decentralisation of the administration of the Scheme by setting up State Boards with the State Commissioners as Chief Executive Officers.

Section 17 of the Act empowers the appropriate Government to exempt from the operation of all or any of the provisions of the scheme factories which provide provident fund benefits which are equal to the benefits provided under the Act, or factories where the employees are in enjoyment of benefits in the nature of provident fund, pension or gratuity which the appropriate Government considers are, on the whole, not less favourable to such employees than the benefits provided under the Act.

Since July 1957 however, the limit of eligibility to the membership of the Fund has been raised to Rs. 500 per month inclusive of dearness allowance and cost value of food concessions.

On May 18, 1954 the Act became applicable to establishments owned by Government or a local authority as a consequence of an amendment to the original Act.

On April 30, 1959 it became applicable to motor transport workers. It is estimated that 14,000 would benefit.

The total number of establishments brought under the Act by the end of March, 1958* was about 6,524 having about 29.56 lakh subscribers, of whom 24.12 lakh were receiving benefit. Monthly contributions were Rs. 2.47 crores.

The subscribers in the tea-estates of Assam were an additional 4.8 lakh.

At the end of 1957 the total collection of subscription was Rs. 102 crores. The contribution for 1957 was Rs. 29.60 crores.

In January 1959 the total collection was Rs. 131.4 crores.

To supervise the administration of the scheme, the Central Government constituted Regional Commissioners in the States of Bombay, Bihar, Madras, Madhya Pradesh, Uttar Pradesh and West Bengal.

In February 1959 the Government of India announced an amendment to the Employees Provident Fund scheme.

Workers will be allowed to contribute upto 8½ per cent of their basic wage and dearness allowance to the Provident Fund if they so desire.

The amendment will be effective retrospectively from November 1, 1956. This has been done in view of the fact that workers in plantations in the south were allowed, as a special case, to contribute at the enhanced rate of 8½ per cent pending amendment of the scheme.

Employers, however, will continue to contribute at the existing rate of 6½ per cent.

Meanwhile, the Government of India will carry out a survey, industry-wise, to ascertain if the industries covered by the Act can bear the additional financial burden as a result of enhancement of the rate of contribution to 8½ per cent.

Provident fund for workers in the coal industry was introduced by an Ordinance, namely, the Coal Mines Provident Fund and Bonus Schemes Ordinance, promulgated in December 1948. The Ordinance was later repealed by an Act which authorised the Central Government to frame a scheme for bonus and another for provident fund in coal mines.

The scheme applies to the coal mines, in Bihar, West Bengal, Orissa, Madhya Pradesh, Assam, Rajasthan and Andhra.

The rate of contribution is one anna per rupee of the total of basic wages, dearness allowance and value of food concessions in cash or in kind. An equal contribution is paid by the employer. About 3.42 lakhs of workers are members of the Fund. In the middle of 1956, the provisions relating to forfeiture of employer's contribution to the provident fund were liberalised. The employer's contribution will now not be forfeited in the case of members who retire after reaching the age of 50 years though they have not completed 5 years service as members. The proportion of forfeiture of employer's contribution for varying periods of service has also been reduced. There will be no forfeiture at all in the case of employees who have been members of the fund for 15 years or more.

The Coal Mines Provident Fund Scheme had at the end of 1957 54 membership of about 3.42 lakhs and the accumulation was Rs. 11 crores.

TEA DISTRICTS EMIGRANT LABOUR ACT

The Tea Districts Emigrant Labour Act, 1932, was brought into effect from the 1st of October 1933.

State Governments are empowered, subject to the control of the Government of India to impose control over the forwarding of assisted emigrants (chapter III) or over both their recruitment and their forwarding as occasion may dictate (chapters III and IV).

The forwarding of recruits to Assam must be made through the prescribed routes where arrangements for feeding, rest and medical treatment have been made and by authorised forwarding agents. It is made unlawful to assist persons under 16 to migrate unless they are accompanied by their parents or guardians. A married woman who is living with her husband may only be assisted to emigrate with the consent of the husband.

Repatriation.—It is provided that where an employer fails to make all the necessary arrangements for the repatriation of a worker within fifteen days from the date on which a right of repatriation arises to an emigrant labourer, the Controller may direct the employer to despatch such labourer and his family or to pay him such compensation as may be prescribed within such period as the Controller may fix (sections 13 and 15).

Section 2 of the Act makes provision for the appointment of a Controller of Emigrant Labour with some staff and possibly one or more Deputy Controllers for supervising the general administration of the system which the Act seeks to establish. The charges for this establishment are to be met from an annual cess called the Emigrants Labour Cess which is to be levied at such rate not exceeding Rs. 9 per emigrant as the Central Government may determine for each year of levy.

The cess is collected by the Controller by the sale of certificates of emigration. Every assisted emigrant has to be provided by the employing interest on whose behalf he was recruited with such a certificate. All particulars about the emigrant together with a running record of the details of his employment in Assam are given on it. Failure to provide a certificate is punishable with a fine which may extend to Rs. 500. The rate of the cess is fixed at Rs. 6.

According to the statistics collected under the Act the labour force in Assam in 1954 consisted of 349,982 adults and 336,689 children.

The number of new emigrants dropped from 34,593 in 1952 to 3,881 in 1953 and to 534 in 1954. The acute fall since 1953 is due to the request made to employers by the Government of Assam not to recruit labour from outside the State but to meet their requirements by transfer of labour from gardens having surplus workers.

The number of emigrants repatriated and of those who postponed their right to repatriation during the year 1954 was 17,641 and 19,960 respectively.

PLANTATION LABOUR ACT, 1951

The Plantation Labour Act was passed by the Government of India in 1951 with a view to ameliorating the working and living conditions of about 12 lakhs of workers employed in plantations. The Act applies to tea, coffee, rubber and cinchona plantations and the State Governments have been empowered to extend it to any other class of plantations. Some of the provisions of the Act were for the first time enforced in April 1954 and by the end of 1957, most of the provisions of the Act had been implemented in all the States except Punjab.

The Act fixes the maximum weekly hours of work for adults at 54 and for adolescents and children at 44, and also prescribes the daily hours of work, spread over and rest interval. Grant of leave with wages at the rate of one day for every 20 days of work for adults and for every 15 days of work for young persons has been provided.

The more important provisions of the Act in respect of health and welfare relate to supply of drinking water, provision of housing and medical facilities, establishment of canteens, maintenance of creches and appointment of Welfare Officers.

In the Second Plan Rs. 2 crores are allotted for welfare schemes.

Names of States showing within brackets the dates from which the plantation labour rules were effected in the respective States, the number of estates covered and the number of workers employed in the estates:

Assam (Jan. 19, 1956; 608 estates; 4,85,917 workers).

Bihar (Dec. 26, 1955; 12 estates; 800 workers).

Kerala (Aug. 23, 1956; —; —).

Madras (Dec. 28, 1956; —; —).

* In Feb. 1959, 24.6 lakh workers in 6,815 establishments over 38 industries. † — = not available.

Mysore (Oct. 1956; 700 estates; 78,000 workers).

Uttar Pradesh (March 30, 1957; 16 estates; 2,000 workers).

West Bengal (Nov. 22, 1956; 283 estates; 1,37,281 workers).

Tripura (Sept. 12, 1955; 55 estates; 11,000 workers).

SHOPS AND COMMERCIAL ESTABLISHMENTS ACTS

Subject to certain exceptions the Acts apply to shops, commercial establishments, restaurants and places of amusement in certain selected urban centres. Some employees such as those employed in a confidential capacity and those whose work is of an intermittent character are excluded from the scope of the Acts.

The Bombay, Madhya Pradesh and Assam Acts have fixed daily hours of work at nine. In the U.P. and Madras Acts the daily hours are eight while in the West Bengal and the Punjab Acts a ten-hour day has been prescribed. Rest intervals, of half an hour are prescribed in the West Bengal, U.P. and the Punjab Acts while an hour's interval has been granted in the Assam, Bombay, U.P. and Madras Acts. Opening and closing hours have also been fixed by the Acts. The Assam and West Bengal Acts, however, prescribe only closing hours. Most of the Acts also fix the maximum overtime work that can be taken from the employees. In some cases slightly different hours of work have been fixed for employees of commercial establishments, restaurants and places of amusement.

Provision has been made in all the Acts for weekly closure of shops and establishments although in some Acts, for example the Bombay and Assam Acts, theatres, hotels, etc. are exempted from this provision. In addition to the weekly holiday, provision for privilege leave of 12 to 15 days in a year has been made in all the Acts. The Assam, West Bengal, Madras and U.P. Acts make further provision for casual leave and sick leave of 10 to 12 days and 12 to 30 days respectively.

All the Acts, except the Bengal Act, have made provision for the regulation of employment of children and young persons. The minimum age for the employment of children in the Assam, and Madhya Pradesh Acts is 12 while in the Madras and U.P. Acts it is 14. The hours of work for children and young persons are 7 per day in the Punjab, Madras and Madhya Pradesh Acts and 6 in the Bombay and U.P. Acts. Children cannot work after 7 p.m. according to the Bombay, Madras and the Punjab Acts and after 9 p.m. according to the Madhya Pradesh Act.

By the Madras and U.P. Acts the wage period should not exceed one month and by the Punjab Act it should not exceed a fortnight. The Assam Act fixes the wage period at one month. After they become due wages should be paid within

10 days in Assam and West Bengal, 7 days in U.P. and 5 days in Madras. In the area covered by the former Punjab wages should be paid on demand at the expiry of the wage period. Overtime wages are payable at twice the ordinary rates in Madras, U.P. and the Punjab, at one and a half times in Bombay and the area covered by the former Madhya Pradesh and at one and a quarter times the ordinary rate in West Bengal. Hotels, restaurants and other eating places in Bombay are, however, required to pay overtime wages at twice the ordinary rate. Fines and deductions are regulated under the Madras and U.P. Acts.

One month's previous notice or one month's wages in lieu of notice before discharge is stipulated in the Acts of U.P., Punjab, Madras and Madhya Pradesh. The Bombay Act provides for only 14 days' notice or pay in lieu thereof. The Madras and Bombay Acts make provisions relating to cleanliness, ventilation lighting and precautions against fire in establishments covered by the Acts.

The total number of establishments covered by the various State Acts and the persons employed therein were 917,392 and 1,149,423 respectively during the year 1955.

The Weekly Holidays Act, 1942 provides for a weekly closure of shops and for the grant of a weekly holiday to employees. The Act has been in force in the areas of the former Bihar, Ajmer, Coorg, Orissa, Raja-Than, Vindhya Pradesh and Hyderabad States.

INDUSTRIAL EMPLOYMENT (STANDING ORDERS) ACT, 1946

The Industrial Employment (Standing Orders) Act, 1946 which applies to industrial establishments employing 100 or more workers provides for the framing of Standing Orders laying down the conditions of employment of workers employed in the establishments.

The Act extends to the whole of India except the State of Jammu and Kashmir, and is administered both by the Central and State Governments.

So far as the Central Government is concerned it is responsible for administering the Act on railways, major ports, mines, oil-fields and other establishments under its control. Both the Central and the State Governments have been empowered to extend the scope of the Act to establishments in any industry employing less than 100 workers or to any other class or classes of establishments or to exempt any establishment from any of the provisions of the Act.

The total number of establishments coming within the purview of the Act at the end of 1956 was 9,356 of which 7,909 establishments with 29.14 lakh workers belonged to the State sphere and 1,547 with 5.78 lakh workers, to the Central sphere. The employment strength of all these establishments was over 35 lakhs.

The number of establishments which had certified Standing Orders in both the spheres at the end of 1956 was 8,149 which formed 66 per cent of the total covered. Of these 5,131 were in the State sphere and 1,018 in the Central sphere.

The percentage of workers having certified Standing Orders to the total number of employees came to 92.

COLLECTION OF STATISTICS ACT, 1953

This Act which replaces and embodies the main provisions of the Industrial Statistics Act is designed to facilitate the collection of statistics of certain kinds relating to industries, trade and commerce. It empowers the Central and the State Governments to direct that statistics shall be collected about—

- any matter relating to any industry or class of industries,
- any matter relating to any commercial or industrial concern or class of commercial or industrial concerns and in particular any matter relating to factories, and
- any of the following matters, so far as they relate to the welfare of labour and the conditions of labour, namely, (1) price of commodities, (2) attendance, (3) living conditions including housing, water supply and sanitation, (4) indebtedness, (5) rents of dwelling houses, (6) wages and other earnings, (7) provident fund and other funds, (8) benefits and amenities provided for labour, (9) hours of work, (10) employment and unemployment, (11) industrial and labour disputes, (12) labour turnover, and (13) trade unions.

The Central or State Government can appoint an officer to be the Statistics Authority for the purpose of collecting any statistics and such authority has the power to call upon the owner of an industrial or commercial concern to furnish the necessary information. He has also the right of access to any relevant records or documents in the possession of any person required to furnish the information and can enter any premises where he believes such records or documents are kept for the purpose of inspecting them or taking copies. The Act prescribes penalties for improper disclosure of information or returns or for wilfully furnishing false information.

WAGES

No serial statistics of wages and earnings are available in India except for those compiled under the Payment of Wages Act. The returns under the Act, however, relate only to persons in receipt of wages and salaries of Rs. 200 per month.

† That is, before the reorganization in Nov. 1956.

AVERAGE ANNUAL EARNINGS OF FACTORY EMPLOYEES DRAWING LESS THAN Rs. 200 PER MONTH.

(Excludes the groups of food, beverages, tobacco, gins and presses.)

State (before reorganization)	1939	1954	1955	1956
	Rs.	Rs.	Rs.	Rs.
Andhra	—	684.0	610.4	798.4
Assam	263.7	1,231.4	1,325.4	1,525.9
Bihar	415.5	1,450.0	1,387.9	1,235.6
Bombay	370.4	1,273.1	1,325.6	1,414.8
Madhya Pradesh	—	966.5	968.3	983.4
Madras	175.9	822.0	1,044.7	950.1
Orissa	161.8	894.9	899.2	948.5
Punjab	296.0	1,047.6	975.7	991.0
Uttar Pradesh	235.6	997.0	999.5	1,014.1
West Bengal	245.7	1,067.4	1,110.6	1,141.6
Ajmer	168.7	643.6	643.6	—
Coorg	—	559.4	637.0	—
Delhi	809.4	1,319.5	1,345.8	1,466.9

MINIMUM WAGES AND DEARNESS ALLOWANCE IN THE COTTON MILL INDUSTRY FOR A STANDARD MONTH OF 26 WORKING DAYS

Period	Bombay	Ahmedabad	Sholapur	Baroda	Indore	Nagpur	Madras	Kanpur	West Bengal
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Min. Basic wages ..	30 00	28 00	26 00	26 00	30 00	26 00	26 00	30 00	20 15
D.A.									
Average 1954 ..	71 69	68 91	52 41	62 02	51 52	41 24	45 45	50 64	30 00
" 1955 ..	64 75	54 71	40 98	49 36	42 84	40 18	41 45	43 34	30 00
" 1956 ..	68 75	63 94	57 68	57 37	48 00	48 86	47 75	51 78	30 00
" 1957 ..	74 00	71 31	63 22	64 17	55 31	51 35	51 13	55 80	30 00
1958 January ..	78 70	73 84	58 76	66 46	56 06	53 56	54 37	55 16	30 00
February ..	78 40	70 77	53 30	63 69	56 06	53 82	53 81	53 75	30 00
March ..	77 85	69 61	39 00	62 65	56 06	54 08	53 81	52 66	30 00
April ..	78 10	67 30	39 00	60 57	52 31	54 34	53 44	52 66	30 00
May ..	80 40	69 22	39 00	62 30	52 31	54 34	53 25	54 06	30 00
June ..	79 80	72 30	39 00	65 07	52 31	54 34	53 81	55 16	30 00
July ..	81 10	..	39 00	..	53 81	54 60	54 37	59 06	30 00

By an award of the All-India Industrial Tribunal (Colliery Disputes) which was published on the 26th May 1956 and which came into force from that date, the minimum daily wages of the lowest category of male and female workers were fixed as under :

	Male Workers	Female Workers
	Rs. a. p.	Rs. a. p.
Basic wages ..	0 15 0	0 11 3
Dearness Allowance (150 per cent) ..	1 6 6	1 0 11
	2 5 6	1 12 2

Inclusive of the statutory bonus, the minimum wage will be Rs. 2-10-6 for male and Rs. 1-15-11 for female workers. Those working underground will get an allowance of 12½ per cent of basic wages.

The Chief Inspector of Mines in his Monthly Coal Bulletin publishes figures of average weekly earnings of certain categories of workers in different coalfields. The position in Dec. 1955 (the latest available information) is given in the table below :

AVERAGE WEEKLY EARNINGS IN COAL MINES.* (December, 1955).

Category	Assam	Raniganj	Jharia	Madhya Pradesh	Rewa	Orissa	Hyderabad	Rajasthan	Indian Union
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Underground—									
Miners and Loaders	18 6 1	13 1 3	14 8 0	12 9 7	12 14 3	11 11 6	14 14 4	11 9 4	13 12 7
Open Workings—									
Miners and Loaders	11 3 6	14 0 2	12 5 1	10 8 3	6 15 7	..	..	..	12 6 9
Surface—									
Men ..	14 7 6	12 13 8	12 11 8	11 9 0	10 6 9	13 11 6	15 4 2	9 12 1	12 12 5
Women ..	8 10 9	7 15 6	8 5 5	6 0 1	5 15 6	7 0 6	8 9 4	5 6 7	7 15 7
OVERALL ..	16 5 0	12 6 8	12 11 11	10 14 7	10 7 9	12 12 1	14 2 7	9 9 3	12 7 8

The average weekly earning of miners and loaders in December 1957 were Rs. 19 53 for Jharia and Rs. 19 88 for Raniganj with an average for 1957 of Rs. 20 46 for Jharia and Rs. 19 53 for Raniganj.

Employees of about 228 plantation estates in the districts of the Nilgiris, Malabar, Coimbatore, Salem, Madurai and Tirunelveli : the rate for first and second grade workers are Rs. 2-4-0 and Rs. 1-12-0 respectively while a child worker gets Re. 1 per day.

DEARNESS ALLOWANCE

The scale of the allowance varies not only from centre to centre and industry to industry, but also, except where these matters are adjudicated upon, from unit to unit in the same industry at the same centre.

Several Adjudicators have granted dearness allowance either at the Bombay Millowners' Association scale which was Rs. 84 90 in November 1953, or at a percentage, varying from 66½ per cent to 85 per cent, of that scale. The rate of dearness allowance payable to Bombay City cotton mill workers itself was increased by a decision of the Labour Appellate Tribunal by 5 per cent when the Bombay Cost of Living Index Number is between 326 and 335; by 7½ per cent when it is between 336 and 350; and by 10 per cent when it is above 350. The enhanced rate was given retrospective effect from May 1953; the average dearness allowance for a month of 26 working days now comes to Rs. 63 75 for 1956 and Rs. 74 00 for 1957.

BONUS

As in the case of dearness allowances the practice in regard to the quantum of profit bonus varies from centre to centre and industry to industry.

A five-year agreement to settle the problem of bonus for about 250,000 textile workers in Bombay City was entered into on 1st March, 1956 between the Bombay Millowners' Association and the Rashtriya Mill Mandoc

Sangh. The agreement will assure the workers of both profit and non-profit making mills a bonus ranging from 15 days to 3 months' basic wages for every year of service for 5 years from 1953 to 1957 both years inclusive. The quantum of bonus will be decided by the profit made by each unit. Mills whose bonus disputes for 1952 were pending before the courts were also covered by the agreement for that year. There were 20 of these employing about a third of the textile labour.

The amount of bonus paid for the year 1956 was Rs. 3 crores. 28 Mills paid bonus equivalent to 3 months' basic wages.

The Textile Labour Association and the Ahmedabad Millowners' Association have also entered into an agreement laying down a procedure for the grant of bonus. This agreement applies to all member mills of the Association in Ahmedabad, in respect of bonus claims for the years 1953 to 1957.

No bonus has so far been paid in the jute mill industry in West Bengal.

The dockyards in West Bengal generally pay an annual bonus amounting to a month's wages.

The Tata Iron and Steel Co. at Jamshedpur pay a good attendance bonus amounting to 10 to 12 per cent of basic wages and a performance bonus of 10 to 50 per cent of basic wages is also given to workers. To the latter, however, only skilled and semi-skilled workers are entitled. Under the Company's revised Profit Sharing

Scheme, the employees are entitled to a share of 27½ per cent of the annual net profit of the company and such share is credited to and/or distributed among the employees of the company in proportion to the basic salaries and wages earned or deemed to be earned by such employees respectively during the year in which such net profits were earned by the Company. The Indian Iron and Steel Company pays bonus at the rate of 2 days' wages for every one per cent dividend declared by the Company.

The Board of Conciliation appointed for the coal-mining industry recommended the grant of an annual bonus equal to four months' basic wages, split into two parts. An attendance bonus of two months' basic wages to those fulfilling specified minimum attendance requirements, and a production bonus related to output and basic earnings and subject to their qualifying for it on the basis of a minimum attendance of 66 days per quarter in the case of surface workers and 64 days per quarter in the case of underground workers in the case of collieries in Bihar and West Bengal. Bonus on the above basis is also to be paid, according to the Fact-Finding Committee's recommendations subject to a minimum attendance of 60 and 66 days in a quarter in the case of underground and surface workers respectively in Madhya Pradesh, Andhra and Orissa collieries. In Assam, the existing rate of bonus has been raised by fifty per cent so as to raise the amount of bonus earned to a sum equal to four months' wages per year.

The demand for bonus made by the Sindh Fertiliser Factory was not conceded, but the Government decided to give on an *ad hoc* basis a sum of Rs. 16 lakhs, partly in cash and partly in the form of special amenities.

Agreements dated 18th May 1955 were reached between the managements of Burmah-Shell Oil Storage and Distributing Co., Standard-Vacuum Oil Co., Caltex (India) and the Indo-Burma Petroleum Co. on the one hand and the clerical staff, labour, service, watch and ward and transport employees in the Companies' establishments in Greater Bombay regarding payment of bonus equivalent to 7/24 of basic salary earned during the year 1954 to clerical staff and 9/24 to the other employees.

MODES OF PAYMENT

As for wages, allowing for minor differences and considering the major industries and the important centres it can be stated that in the jute industry in West Bengal and in the plantations the wages are generally paid weekly. The system of wage payment in the cotton textile industry in Bombay City and Sholapur is monthly. A peculiarity of Ahmedabad is that the wages are paid per *Aspa* which varies from 14 to 16 days. The month is the accepted wage period for the railways. In some concerns wages

are paid daily to certain types of workers, weekly to others, fortnightly to yet others and monthly generally to the clerical and supervisory staff.

Mining labour is mostly paid on a weekly basis.

A study was made by the Labour Bureau of the Government of India of wage periods in factories covering about 7½ lakhs workers in the former Part 'A' States of Andhra, Bihar, Bombay, Madhya Pradesh, Madras and the Punjab where the total employment is over 16 lakhs; about ½ lakh of workers in Part 'B' States of Hyderabad, Saurashtra and PEPSU out of a total of 1½ lakhs; and almost the entire employment of about ½ lakh workers in Delhi, Ajmer, Bhopal and Coorg. The study showed that 81.2 per cent of the workers were paid monthly, 3.7 per cent fortnightly and 15.1 per cent weekly. In the textiles the percentage of monthly paid workers was as high as 95.7 per cent. The industries in which the proportion of weekly paid workers is higher than that of monthly paid workers were food (except beverages), tobacco, wood, cork and non-metallic mineral products.

An interesting departure from normal practice was recently suggested by the Ministry of Labour.

The Union Ministry of Labour and Employment has recommended that all State-owned

industrial undertakings should try to increase productivity by introducing the system of payment by results as recommended by the Planning Commission.

The Labour Ministry circulated a memorandum in November 1957 directing those Ministries of the Government of India employing industrial labour to investigate the possibilities of bipartite agreements at the unit level in all industrial undertakings under their control to give effect to this system of payment of wages.

The Planning Commission had recommended that in addition to a basic minimum wage, all extra earnings of the workers should be based on a piece-rate system to step up productivity.

The Commission added, however, that adequate measures should be taken to avoid fatigue and undue speed-up of production.

A piece-rate scheme has been functioning for some years with success in Bombay port and has been extended to Madras. The private sector has made a beginning, notably at the Tata Steel Works, Jamshedpur.

At Jamshedpur, where the piece-rate scheme was introduced after the 1958 strike, it was made clear that wages could be stepped up only in line with increasing production.

INDEX OF EARNINGS (1939 - 1954)

Year	All India Consumer Price Index	Factory workers		Miners	
		Index of earnings	Index of real earnings	Index of earnings	Index of real earnings
1946	285	206.6	73.2	250.7	88.0
1947	323	253.2	78.4	342.8	106.1
1948	360	304.0	84.4	361.8	100.5
1949	371	340.3	91.7	378.2	101.4
1950	371	334.2	90.1	391.9	105.6
1951	387	356.8	92.2	413.0	106.7
1952	379	385.5	101.8	436.9	115.3
1953	395	384.6	99.9	437.4	113.6
1954	371	381.2	102.7	441.9	119.1

CENTRAL PAY COMMISSION

On 21st August 1957, the Government of India appointed a 6-member Commission of Enquiry under the Chairmanship of Mr. Justice B. Jagannath Das, Judge of the Supreme Court to examine the structure of emoluments and conditions of service of Central Government employees and recommend changes therein.

The Commission is required to recommend, in particular, the extent to which benefits could be given in the shape of amenities and facilities.

In making their recommendations, the Commission will take into account the historical background, the economic conditions and the implications and requirements of developmental planning, and the disparities in the standards of remuneration and conditions of service between the Central Government employees and employees of State Governments and local bodies.

A Central Wage Board for the cotton textile industry has been appointed by the Government of India to evolve a wage structure based on the principles of fair wages as enunciated in the Fair Wages Committee Report.

The Board consists of two independent members, two representatives each of employers and workers with an independent Chairman.

In evolving the wage structure the Board will take into consideration the needs of the industry in a developing economy, the requirements of social justice and the need for adjusting wage differentials in such a manner as to provide incentives to workers for advancing their skill.

The Board will also bear in mind the desirability of extending the system of payment by results keeping in view the safeguards against overwork and undue speed.

There is also a similar Wage Board for the sugar industry and the cement industry.

The Wage Board for the sugar industry recommended interim relief in Feb. 1959.

HOURS OF WORK

The most important happening in regard to hours of work in factories was the reduction of the weekly hours of work for adults to 48.

Actually, in many industries in this country the hours of work were not in excess of 8 per day. In the coal-mines in Bihar and West Bengal the workers seldom work for more than five to six hours in the day or for more than four to five days in the week. According to an investigation the average weekly attendance of a coal-miner was 4.56 days. The cotton textile industry in almost all centres normally works a uniform 8-hour day.

In all cases where continuous production is necessary such as in electricity generating plants and certain water pumping stations, cement factories, etc., work is arranged on a system of three shifts—the different shifts changing over every week or fortnight. The change-over is so arranged that every workman gets a rest period of at least twenty-four continuous hours once in one week.

As far as railways are concerned, hours of work in railway workshops are regulated by the Indian Factories Act. Most of the larger running sheds have also recently been classified as factories and work in these large sheds is arranged on the basis of three shifts of 8 hours each. In the smaller sheds where work is of a fairly intermittent character, systems of two shifts of 12 hours each obtain but the work of the individual is so arranged as not to work each operative for more than 8 hours.

The question of hours of work of railway servants was one of the points submitted for adjudication to the late Justice Rajadhyaksha of the Bombay High Court who made the following recommendations:

The employment of railway servants under the Hours of Employment Regulations should be classified under any one of the following heads:

- (i) Intensive.
- (ii) Continuous.
- (iii) Essentially Intermittent.
- (iv) Excluded.

(i) The statutory limit of weekly hours for persons whose employment is classified as intensive should be fixed at 75 hours a week on the average in a month;

(ii) The statutory maximum limit for the employment of continuous workers should be fixed at 84 hours a week on the average in a month;

(iii) The statutory maximum for staff classified as essentially intermittent should be 7½ hours a week; and

(iv) For excluded workers no statutory minimum limit can be prescribed but this should not absolve the Administrations of their responsibility on humanitarian grounds, of seeing that unreasonable conditions are not imposed. The Government of India accepted these recommendations and by an Order dated 15th June 1948 declared them binding for a period of three years. These regulations are still in force.

The Plantations Labour Act, 1951 has restricted hours of work to 54 per week for adults and 40 per week for children and adolescents.

COST OF LIVING

The Government of India has sponsored family budget inquiries—the enquiry started in Sept. 1958—covering factory workers, miners and plantation labour with a view to compiling a new series of consumer price index numbers on a uniform basis.

It is stated that the existing series of consumer price index numbers are based on old and out-of-date inquiries and, therefore, do not reflect correctly the present cost of living of industrial workers.

The enquiry is undertaken by the Labour Bureau of the Central Government with the help of the National Sample Survey Organisation which will do the field work.

The survey will take about a year to complete.

The selected centres are:

Factory Centres: Digboi, Jamshedpur, Monghyr, Jamalpur, Bombay, Ahmedabad, Nagpur, Bhavnagar, Sholapur, Bhopal, Indore, Gwalior, Madras, Madurai, Coimbatore, Guntur, Hyderabad, Sambalpur, Kanpur, Varanasi, Saharanpur, Calcutta, Howrah, Asansol, Bangalore, Alwaye, Alleppey, Amritsar, Jamunaganar, Jaipur, Ajmer, Delhi and Srinagar.

Mining Centres: Jharia, Kodarma, Naomundi, Balghat, Godur, Barbil, Raniganj and Kolar Gold Fields.

Plantation: Lahar, Rangapara, Mariani, Doondooma, Coonoor, Darjeeling, Jaipalguri, Chikmagalur, Amnathi and Mundakkayam.

INDEX FIGURES

Owing to the variations in the method of compilation of these indices, they are not strictly comparable, but the table below shows the movement of the working class consumer price index numbers in selected centres for the twelve months of the year 1957:—

(Base shifted to August 1949 = 100).

STATE	BOMBAY					MADRAS	MYSORE			ANDHRA	KERALA		UTTAR PRADESH
Centre	Bombay	Ahmedabad	Sholapur	Jalgaon	Nagpur	Madras City	Bangalore	Mysore	Kolar Gold Fields	Hyderabad City	Ernakulam	Trichur	Kanpur
1957													
January	116	102	117	104	109	115	122	117	126	124	104	107	91
February	116	102	114	104	109	114	122	117	127	125	110	104	92
March	116	102	110	102	110	114	122	116	127	121	111	104	91
April	116	103	111	103	110	114	123	117	124	120	109	111	89
May	115	104	113	105	111	114	126	119	127	121	112	113	92
June	121	104	113	107	112	115	127	122	124	125	113	114	93
July	122	106	115	108	112	116	129	122	124	124	112	115	96
August	123	107	116	107	113	115	124	122	124	124	112	113	98
September	122	106	113	104	113	115	129	123	124	123	110	113	97
October	122	105	113	105	114	116	129	123	124	125	111	111	96
November	125	107	115	106	114	121	129	124	129	128	110	112	96
December	125	104	110	101	115	121	129	124	129	125	112	114	93

The consumers price index figures for some other centres from 1950 to 1957 are given below: with 1949 = 100 as base.

Year	Delhi	Ajmer	Jamshedpur	Jharia	Dehri-on-Sone	Monghyr	Cuttack	Berhampur	Gauhati	Shillong	Tinsukia	Ludhiana	Akola	Jabalpur	Kharagpur	Mercara	Madras Plantation Centres	Bhopal	Brewar	Satna
1950	100	104	106	114	109	113	111	106	98	106	104	101	96	101	100	..	112	..	..	..
1951	106	111	116	116	116	110	123	123	110	115	113	102	98	111	99	..	120	..	..	..
1952	106	108	112	110	111	101	109	101	111	102	116	92	93	99	97	..	110	101	99	..
1953	106	104	112	104	102	91	107	101	102	95	108	90	96	100	101	..	120	97	90	..
1954	106	91	102	82	85	78	100	101	95	93	103	90	89	98	93	100	104	91	83	86
1955	99	83	99	77	82	89	99	97	87	86	99	84	79	88	92	94	92	87	78	77
1956	109	95	106	87	95	88	106	108	96	99	110	92	94	100	102	104	102	94	91	91
1957	114	99	115	99	106	99	110	108	103	105	118	96	96	107	109	114	106	101	95	99

* Provisional.

The original base for all these series is calendar year 1944 except as follows:

(i) Madras Plantation Centres—January to June 1949. (ii) Bhopal—Calendar year 1951. (iii) Brewar—August 1951 to July 1952. (iv) Satna and Mercara—Calendar year 1953. The group House Rent is not included in the indices for Jharia, Mercara and Madras Plantation Centres. In all other centres, it is kept constant at 100.

The group fuel and lighting is not included in the index for Madras Plantation Centres as the priced items of this group have been included in the miscellaneous group.

The Bombay Labour Office carried out two family budget enquiries for working classes in Bombay City, one in 1921-22 and the other in 1932-33 and the results were published in the years 1923 and 1935 respectively. Similar enquiries were also conducted in Ahmedabad and Sholapur cities and

the results of both these enquiries were published in the year 1923. In Madras, the Director of Industries published in 1936 the results of an inquiry into the family budgets of industrial workers in organized and unorganized industries in Madras City conducted under the direction of the Commissioner of Labour. A number of

family budgets were also collected at Kanpur, Nagpur and Jabalpur with the object of compiling cost of living indices.

A table showing the main results of these enquiries was given in previous editions of the book.

COMPOSITION OF THE FAMILY, AVERAGE WEEKLY INCOME AND EXPENDITURE OF THE FAMILY AND THE ACTUAL AND PERCENTAGE DISTRIBUTION OF EXPENDITURE ON DIFFERENT GROUPS

Plantations	No. of budgets	Average number of persons in the family	Average number of wage earners in the family	Average weekly income per family	Average weekly family expenditure on										Total weekly family expenditure
					Food		Lighting		Clothing and footwear		Bedding and household requisites		Miscellaneous		
					Actual	Per-cent-age	Actual	Per-cent-age	Actual	Per-cent-age	Actual	Per-cent-age	Actual	Per-cent-age	
				Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
North India															
1. Surma Valley ..	200	4.57	2.29	11 3 7	8 8	877.07	0 2 9	1.55	0 12 3	6.90	0 2 0	1.13	1 7 8	13.35	11 1 4
2. Assam Valley ..	560	4.15	2.44	10 13 1	7 11	871.55	0 3 5	1.98	1 0 4	9.45	0 3 1	1.78	1 10 4	15.24	10 12 10
3. Bengal ..	297	4.16	2.52	13 5 2	9 8	477.42	0 4 1	2.08	0 14 11	7.58	0 2 6	1.27	1 6 11	11.65	12 4 9
South India															
1. Madras—Tea ..	274	3.80	2.41	11 13 1	8 10	573.79	0 2 7	1.38	0 15 0	7.99	0 4 1	2.18	1 11 6	14.66	11 11 7
2. Madras & Coorg —Coffee ..	122	3.40	2.38	8 12 1	6 2	371.24	0 2 0	1.45	0 13 0	9.43	0 4 2	3.02	1 4 6	14.86	8 9 11
3. Madras & Coorg, --Rubber ..	15	2.86	1.40	8 15 4	7 8	578.11	0 2 11	1.88	0 11 4	7.34	0 1 10	1.17	1 1 9	11.50	9 10 8

EMPLOYMENT

Many of the larger and more progressive concerns have Labour Officers who are directly responsible for all new recruitment.

The Millowners' Association, Bombay conducts special classes for the training of Mill Labour Officers and actively supervises and controls the work done by all such Officers where they have been appointed through the Association. Following the example of the Millowners' Association, Bombay, the University of Calcutta, in co-operation with the Indian Jute Mills Association, has a special course of social work for giving suitable training to Labour Welfare Officers engaged in jute mills. Among other institutions imparting training for Labour Officers mention may be made of the Tata Institute of

Social Sciences, Bombay; Institute for Training of Welfare Workers, Bombay; Delhi School of Social Work, Delhi; Institute of Social Sciences, Banaras; Xavier Labour Relations Institute, Jamshedpur; Department of Labour and Social Welfare, Patna University; J. K. Institute of Sociology and Human Relations, Lucknow University, and the training course conducted by the Madhya Bharat Millowners' Association, Indore.

Employment Exchange

The Directorate-General of Resettlement and Employment set up by the Government of India organises technical training.

There were on an average 433 training centres in 1957 and the number of persons undergoing training in these centres was as follows:—

Technical training ..	11,181
Vocational training ..	1,686 (532 women)
Apprenticeship training ..	881

TOTAL .. 13,748

The number of registered unemployed was 11,95,926 in Jan 1959. This was 12,627 more than in the previous month. 19,255 persons were helped to secure jobs. 28,713 vacancies were notified. Of the placements 4,838 were under the Central Government, 9,506 under the State Governments and 3,361 under quasi-Government establishments.

WORKING OF THE EMPLOYMENT EXCHANGES IN INDIA

1957	No. of exchanges at the end of the period	No. of registrations during the period	No. of applicants placed in employment during the period	No. of applicants on the live registers at the end of the period	Monthly No. of employers using the exchanges	No. of vacancies notified during the period	No. of vacancies being dealt with at the end of the period
January ..	143	135,225	14,573	777,154	5,295	23,939	43,259
February ..	150	111,499	12,827	774,811	4,854	20,157	43,575
March ..	152	111,216	13,071	747,341	5,126	22,646	45,419
April ..	152	145,438	15,814	753,537	5,827	27,489	47,273
May ..	153	148,035	17,271	782,933	6,068	30,538	52,026
June ..	156	141,499	17,369	779,478	5,638	25,122	49,587
July ..	158	180,135	19,394	815,716	5,927	25,261	45,152
August ..	160	159,826	18,052	828,653	5,430	23,798	41,900
September ..	160	160,681	16,805	861,571	5,611	24,275	41,184
October ..	170	138,758	14,389	865,788	5,220	22,908	43,412
November ..	172	173,529	17,641	886,283	6,096	26,675	44,190
December ..	181	168,797	16,625	922,099	5,866	24,400	45,156

The number of exchanges is to be increased from 135 at the commencement of the Second Five-Year Plan to 230 by its end—to provide in course of time an exchange in each district as recommended by the Shiva Rao Committee.

The number of exchanges in March 1959 was 207.

Government has also devised a scheme for collection of employment market information so as to be in a better position to advise on further manpower requirements.

Also a scheme for development of vocational guidance has been undertaken and 8 Units out of 63 have been opened. 50 career pamphlets were published and distributed to all secondary schools.

There is now a 30-member Central Committee on Employment to advise the Ministry of Labour

and Employment on matters relating to employment, the creation of employment opportunities and the working of the National Employment Service.

Mr. Gulzar Lal Nanda is the Chairman of the Committee, which consists of representatives of all State Governments and of central trade unions and employers' organisations. The Director-General of Resettlement and Employment is the Secretary.

The Committee will study employment information and assess employment and unemployment trends both in urban and rural areas and suggest measures for expanding employment opportunities. It will advise the Ministry on the development of the National Employment Service, deployment of personnel retrenched on the completion of development

projects and development of Youth Employment Service and employment counselling at Exchanges.

It will also consider special programmes relating to educated unemployed.

Besides, the Committee will assess the requirements of trained craftsmen and advise the National Council for Training in Vocational Trades on this matter.

A SURVEY

A study of trends by the National Employment Service of the Ministry of Labour in the number and types of employment-seekers during the period 1952-57 has shown that employment opportunities generated by the Five-Year Plans have helped reduce the volume of unemployment. Although the number of applicants on the Live

Registers of Employment Exchanges had been increasing steadily throughout this period, the rate of increase went down from 8,344 per month in 1955 to 6,012 in 1957.

The findings of the study, however, support the general belief that the number of job opportunities that are occurring is failing to keep pace with the growing labour force of the country.

Though the number of vacancies increased, the number of applicants available per 100 vacancies was throughout the period at a level higher than 2,000.

For the purpose of the study, applicants on the Live Register were classified broadly into 7 occupational groups: Industrial/supervisory, skilled and semi-skilled, educational, clerical, domestic service, unskilled and others.

As regards the industrial supervisory group, the study showed that applicants belonging to this group were absorbed in employment fairly readily, thus preventing the Live Register from swelling up. It also brought out the fact that the supply of applicants in this group was limited. During 1957, the percentage of vacancies cancelled due to non-availability of suitable applicants in this category was as high as 40 per cent as against 12 per cent in the case of all other categories of personnel.

The Live Register in respect of skilled and semi-skilled personnel increased, but the rate of increase slowed down after 1955 until 1957. This indicated a comparatively high rate of absorption of technical personnel entering the labour market. There was quite a pronounced shortage in respect of this category of applicants, the percentage of vacancies cancelled due to shortage being 19 per cent during 1957. The bulk of the registrants in this group were semi-skilled and often did not answer to the specifications laid down by employers.

The number of persons desirous of taking up the teaching and other allied occupations showed a rapid rise during the period under study. The increase was particularly marked during 1957. The rate of increase in respect of trained teachers was much greater than in the case of untrained personnel.

A more fundamental reason for the rapid increase in the number of persons wanting to take up teaching seemed to be that the profession was becoming more popular among applicants of the 'white-collar' group. The swelling Live Register in respect of educational personnel should not, therefore, lead one to the conclusion that unemployment among these applicants was necessarily on the increase.

Next to the unskilled group, the clerical group formed the largest component of the Live Register. The size of the clerical group increased steadily except for a short period in the middle of 1956. The study showed that this rate of growth would not change so long as young persons preferred 'white-collar' jobs or until alternative occupations were open to them.

As regards the domestic service group, the Live Register showed a steady upward trend during the period. The applicants registered for domestic service, however, had in mind work in establishments under public ownership and not under private individuals.

The unskilled category constituted the largest single group on the Live Register and as such the trend of the total Live Register was largely governed by variations in the size of this group. The unskilled group constituted about 50 per cent of the total Live Register.

An interesting finding was that the Live Register exhibited seasonal fluctuations, January and August being the peak months and April and November the troughs.

During the period under study, the rate of increase in placements was greatest in regard to the educational group, followed by the clerical group. There was practically no increase in the level of placements of skilled and semi-skilled personnel through the employment service. In

regard to unskilled persons, there was a slight fall in the number of persons placed every month.

A pilot scheme to help the educated unemployed enter into avenues of employment other than 'white collar' jobs was sanctioned by the Government of India in February 1957.

Under the scheme, four work and orientation centres were to be set up in the country, one each in the States of Kerala, Delhi, West Bengal and Uttar Pradesh.

At each of the proposed work and orientation centres 250 educated unemployed of the matriculation to university standard and registered with the exchanges will be given an orientation course for about six months. They will also be paid a stipend.

The centres will give vocational counselling, manual work and some theoretical and practical instruction in occupations selected with reference to the aptitudes of the participants. The plans of Government to develop small scale industries, the loans available and the facilities accessible to co-operative societies will also be explained at the centres.

The scheme will not guarantee subsequent placement in life, though some may get placed in positions in which shortages are felt. The instruction and orientation given, however, will be directed to giving them the necessary 'know how' to set up business either by themselves as entrepreneurs or in co-operatives.

The centres will be guided by Local Advisory Committees, consisting of officials and non-officials and will maintain close liaison with important local employers. The centres will be organised and administered by the State Governments.

WOMEN LABOUR FORCE

During the 50 year period 1901-51, there was greater loss of work opportunities for women in the non-agricultural sectors of the economy than in agriculture.

This is revealed by a study jointly undertaken by the Labour Bureau, Government of India, and the Labour and Employment Division, Planning Commission, of trends in employment of women since 1901. In carrying out the study, some reliance had to be placed on census data, which has its limitations. However, an attempt has been made to overcome these limitations and to secure a certain degree of comparability.

The study showed that the number of working females declined from 43.0 millions in 1911 to 40.7 million in 1951 while the female population during the same period increased from 149.9 million to 173.4 million. In other words, there was a decrease of about 2.3 million working women as against the actual increase of 23.5 million female population.

During 1901-51, participation of women, in absolute numbers, in the cultivation of owned and unowned lands substantially increased with the exception of the year 1931.

In relative terms, i.e., in terms of their engagement in 10,000 of the total population (male and female combined), the study showed that women's participation in cultivation of land and their employment as agricultural labour had not undergone significant changes, although there were variations from one decade to the other.

The place of women as rentiers, however, suffered during the period.

The study further revealed that a general decrease had taken place, in absolute numbers as well as relatively, in women engaged in production other than cultivation, commerce and other services and miscellaneous sources.

Transport, however, recorded a rise in women's employment.

During the 50 year period, increases had taken place in women's employment in coal mining, tobacco, iron and steel and non-ferrous

metal industries, transport equipment, bricks tiles and other structural clay products, furniture and fixtures, paper and paper products, printing and allied industries, educational services and research, municipalities and local boards, hotels, restaurants and tea houses and legal business services.

Their employment, however, recorded a decrease in miscellaneous food industries, grains and pulses, non-metallic mineral products, retail trade in fuel, sanitary works and services and laundry and laundry services.

The latest information available regarding organised employment i.e., for 1956 has also been incorporated in the study.

During the 6 year period 1950-56, trends in women employment in different industrial groups were not uniform. While the employment in tobacco industries and chemicals and chemical products had been on the increase, employment in wood and furniture industries, paper and paper products, textiles and basic metal industries had been going down. In other industrial groups, namely, processes allied to agriculture, food except beverages and non-metallic mineral products, women's employment had been, more or less, stationary.

In the textile groups, the decrease in jute industry was marked in so far as women's employment decreased from 37,000 in 1950 to 21,000 in 1956. The employment position in 'bidi' and match industries was good.

There had been a significant fall in women's employment in cashewnut industry and in tea factories.

In the mining sector, women's employment had considerably increased in manganese and iron ore mining and witnessed a fall in their employment in coal and mica mining.

In plantations, there was a decrease in women's employment from 2.48 lakhs in 1950-51 to 1.66 lakhs in 1956-57, but this decline was almost proportionate to the fall in the total number of adult workers, both males and females.

EMPLOYMENT IN FOREIGN COMPANIES

The position in regard to employment of Indians and non-Indians on salaries of Rs. 1,000 and above in foreign concerns on the 1st January each year was as follows:—

Year	Indians	Foreigners	Total
1947	504	5,844	6,348
1948	742	6,380	7,122
1949	1,045	6,709	7,754
1950	1,406	6,871	8,277
1951	1,784	6,953	8,737
1952	2,290	7,104	9,394
1953	3,346	7,008	10,354
1954	3,996	6,810	10,806
1955	4,645	6,566	11,211
1956	5,614	6,025	11,639
1957	6,704	5,652	12,356

The percentage of Indians which was 7.9 in 1947 and 20.4 in 1951 increased to 41.6 in 1956, 48.2 in 1957 and to 54.3 in 1958.

In the salary group of Rs. 1,000 to Rs. 1,500 Indians occupied 54.2 per cent of the posts in 1956 as against 77.7 per cent in 1957.

In the next salary group of Rs. 1,501 to Rs. 2,000, 62.2 per cent of the posts were manned by Indians as against 54.2 in 1957. In the salary group of Rs. 2,001 to Rs. 3,000, 36.8 per cent of the posts were filled by Indians as compared to 29.4 per cent in 1957. In the next higher salary group of Rs. 3,001 to Rs. 5,000, Indians occupied 16.4 per cent of the total number of posts as against 13.7 per cent in the preceding year.

In the highest salary group of Rs. 5,001 and above Indians held 6.0 per cent of the posts as against 5.1 per cent in the year before.

The total monthly "wage-bill" for the 12,856 persons employed in the foreign owned/controlled firms in posts carrying salaries of Rs. 1,000 and above per annum, works out to about Rs. 2.85 crores. Out of this about Rs. 1.08 crores are being paid to Indians, who account for 54.3 per cent of the total employment as against Rs. 1.77 crores to non-Indians forming 45.7 per cent. The percentages of this total "wage-bill" paid to Indians and non-Indians in each of the five salary groups are given in the table below :

Salary Groups	Indians	Non-Indians	Total
Rs. 1,000 to Rs. 1,500	16.1	3.1	19.2
Rs. 1,501 to Rs. 2,000	8.5	5.3	13.8
Rs. 2,001 to Rs. 3,000	8.2	14.5	22.7
Rs. 3,001 to Rs. 5,000	4.3	22.2	26.5
Rs. 5,001 and above	0.9	16.9	17.8
Total (All Salary Groups)	38.0	62.0	100.0
	(Rs. 108.44 lakhs)	(Rs. 176.97 lakhs)	(Rs. 285.41 lakhs)

The proportion of non-Indians in the salary groups of Rs. 1,000 and above has declined in all the groups of companies during the current year. In 1958, none of the groups of firms had three-fourths or more of the staff earning Rs. 1,000 and above, as foreigners. In 1957, there were two such groups of firms.

Foreigners held more than half but less than three-fourths of the posts in the following six groups of foreign companies as on January 1, 1958: (i) Plantation and Allied Companies (74.4 per cent), (ii) Jute Mills and Presses (72.9 per cent), (iii) Banking (68.3 per cent), (iv) Transit and Transport (65.2 per cent), (v) Other Minerals, Bulkling Materials, etc. (53.0 per cent), and (vi) Managing Agency companies (51.0 per cent). On January 1, 1957

there were seven groups of firms in this category.

The proportion of foreigners is less than half in the remaining 14 groups of companies, viz. (i) Other Agents, Merchants, Shippers, Import/Export firms (49.2 per cent), (ii) Automobiles Dealers and Manufacturers (49.1 per cent), (iii) Insurance companies (48.1), (iv) Sugar and Breweries (44.0 per cent), (v) Machinery, Equipment, Tools, Engineering, etc. (40.9 per cent), (vi) Cotton Mills and Presses (38.0 per cent), (vii) Printing, Publishing, Stationery and Allied Trades (37.1 per cent), (viii) Metals including Iron and Steel (31.7 per cent), (ix) Coal companies (30.7 per cent), (x) Chemicals and Allied Trades (30.1 per cent), (xi) Oil Companies (27.7 per cent), (xii) Leather, Rubber (Trading and Manufacture) (22.0 per cent), (xiii) Public

Utility Companies (21.9 per cent), (xiv) all other Miscellaneous Companies (41.3 per cent).

Of the total of 5,652 foreigners employed in foreign controlled concerns in 1958, 4,927 (87.2 per cent) are British. Americans constitute 3.5 per cent, their number being 200 in 1958. Italians, Germans, Australians, Chinese, Norwegians and Ceylonese have recorded small increases in their number as against a diminution in the number of Britisbers, Americans, Swiss, Greeks, Danish, French, New Zealanders, Dutch, Swedish, Austrians, Czechs, Japanese and Pakistanis.

ABSENTEEISM

One of the commoner complaints of Indian industrialists has been the high percentage of absenteeism and the large labour turnover in Indian factories, mines, etc. The percentage of absenteeism amounts to about 8 to 15 per cent in factories, about 10 to 15 per cent in mines and about 20 per cent in plantations. It is noteworthy that in factories in which the conditions of work and wages are satisfactory and also where there is a system of granting leave with pay apart from the statutory holidays with pay, the incidence of absenteeism is not so high as is otherwise the case.

A study is being conducted by the Steering Group on Wages to find whether the payment of attendance bonus to workers in collieries every week or month instead of every quarter as at present would encourage better attendance.

The available statistical data on absenteeism in certain types of concerns for the years 1951, 1952, 1953, 1954, 1955, 1956 and the twelve months of 1957 are given in the tabular statement below :—

ABSENTEEISM IN MANUFACTURING INDUSTRIES IN INDIA

(Percentage of man-shifts lost to man-shifts scheduled to work)

Period	Cotton Mill Industry							Woolen Industry	
	Bombay	Ahmedabad	Sholapur	Madras	Madura	Coimbatore	Kanpur	Kanpur	Dharawal
1951	12.7	8.3	8.7	8.9	11.3	10.0	12.0	13.2	10.6
1952	12.7	8.8	20.2	9.7	10.5	10.3	11.7	9.4	6.3
1953	12.6	9.4	20.5	9.3	10.9	8.2	12.3	11.0	5.0
1954	10.8	8.7	17.4	9.1	11.0	8.8	12.4	10.7	5.2
1955	8.2	6.8	18.0	6.6	12.2	9.9	12.8	10.6	5.0
1956	8.3	6.5	18.4	6.2	13.0	11.4	11.1	7.3	5.2
1957	7.1	6.8	16.0	7.0	13.2	11.3	13.0	8.5	4.8
January 1957 ..	6.3	5.8	13.1	5.7	12.2	8.6	9.0	7.1	5.7
February	6.4	7.2	16.5	7.0	14.4	9.8	10.4	8.5	5.7
March	6.8	7.0	17.4	5.9	14.3	11.8	13.5	9.1	5.2
April	6.9	7.1	17.5	6.6	14.4	11.6	13.0	8.0	5.9
May	9.1	8.0	18.8	8.4	14.3	12.6	15.1	12.2	4.0
June	11.6	7.8	25.2	15.4	20.2	18.1	19.2	14.8	5.7
July	6.7	7.3	16.7	6.1	9.5	11.3	18.3	12.7	5.9
August	6.3	5.9	12.7	6.0	10.4	9.8	12.6	7.2	4.3
September	6.7	6.0	12.4	6.4	11.7	10.6	10.4	4.8	3.1
October	6.2	6.0	13.9	5.7	11.9	10.4	12.3	5.7	3.8
November	6.5	6.8	15.0	5.8	12.2	10.9	11.0	5.9	3.9
December	6.1	6.6	12.6	5.4	13.3	10.4	10.4	5.5	4.5

ABSENTEEISM IN MANUFACTURING INDUSTRIES IN INDIA—Contd.
(Percentage of man-shifts lost to man-shifts scheduled to work)

Period	Engineering Industry		Telegraph Work-shops	Tramway Work-shops	Iron and Steel Industry	Ordnance Factories	Cement Factories	Match Factories	Leather Industry
	Bombay	West Bengal	All India	All India	All India	All India	All India	All India	Kanpur
1951	13.9	10.1	8.5	13.0	11.0	8.6	11.8	10.5	7.8
1952	13.4	10.3	9.0	10.6	10.9	9.4	11.5	10.6	9.2
1953	13.7	10.8	10.1	7.0	10.9	9.9	11.9	10.1	9.2
1954	14.9	1.7	12.0	7.1	12.0	11.8	12.1	10.4	9.8
1955	15.6	12.4	12.1	7.2	11.4	12.4	11.7	10.6	10.1
1956	14.6	12.5	12.9	8.1	11.6	12.4	12.2	10.1	11.2
1957	14.6	12.5	12.9	7.8	12.7	12.1	12.5	11.8	10.0
January 1957 ..	12.0	10.1	10.2	6.6	10.9	10.6	10.8	10.3	8.3
February	14.4	11.3	11.2	8.2	11.4	12.6	14.8	14.0	8.0
March	13.2	11.9	14.2	8.0	11.9	12.5	12.7	13.3	8.8
April	14.8	12.1	15.7	8.2	12.1	12.6	13.0	12.7	8.6
May	19.5	18.0	17.6	11.3	13.7	15.0	14.6	15.3	11.9
June	20.1	21.2	21.2	11.7	16.6	15.4	18.2	17.6	16.8
July	13.0	14.2	13.4	7.1	15.0	13.9	13.6	11.9	14.9
August	11.5	10.4	10.7	6.2	12.8	9.3	12.0	9.2	5.9
September	12.2	7.8	9.6	6.8	11.4	8.3	10.2	7.3	7.9
October	15.0	12.3	11.5	7.4	13.0	9.2	10.2	8.7	8.1
November	13.7	10.8	10.1	5.5	12.9	10.5	9.2	11.1	8.2
December	14.4	12.0	9.7	7.5	11.0	12.2	11.0	10.0	9.3

EMPLOYEES' STATE INSURANCE CORPORATION

Head Office : 24-3, Asaf Ali Road, New Delhi
 Delhi Regional Office : B-9, Pusa Road.
 Kanpur Regional Office : 7-202, Swarup Nagar
 Bombay Regional Office : Scheme C, Plot No 3, Colaba Road, Bombay 5
 Madras Regional Office : 2, Sir Desikachari Road, Mylapore, Madras 4
 Calcutta Regional Office : 64, Ganesh Chandra Avenue, Calcutta 13
 Indore Regional Office : 65 Race Course Road, Indore
 Jaipur Regional Office : A. K. Mukerjee Building, Railway Station Road
 Hyderabad Regional Office : Mohamadi Block 462 (a), 14, Kavadiguda Road, Secunderabad
 Trichur Regional Office : XXIV 273, Machin-gal Lane, Trichur
 Amritsar Regional Office : 160 13, Hide Market
 Bangalore Regional Office : 13, Kumara Park Extension, Bangalore 1

It may be mentioned at the outset that the Central Government is working out a comprehensive social security insurance scheme for the five million industrial workers of the country. The scheme will amalgamate health, life insurance, provident fund, gratuity and old age pension. This work is in progress (See below for report of Study Group)

The Employees' State Insurance Act, 1948 applies to all factories including factories belonging to Government other than seasonal factories and covers employees in receipt of wages or salaries up to Rs. 400 per month. The administration of the Act is entrusted to an autonomous body called the Employees' State Insurance Corporation. A Standing Committee is to act as the executive of the Corporation. There is also a Medical Benefit Council to advise the Corporation on matters relating to administration of medical benefit, certification, etc. All these bodies are tripartite in character. The scheme is contributory but the Central Government is to make an annual grant to the Corporation during the first five years of a sum equivalent to 5 per cent of the administrative expenses of the Corporation.

As on September 1958 the scheme covered 13.38 lakh employees in 65 industrial centres.* (See below for details.)

During the Second Plan it is proposed to implement the scheme in every industrial centre which has a concentration of 1,500 factory workers, thus carrying the benefits of the scheme to about 2,200,000 employees.

During 1957-58 about 34,000 new employees and of 1957-58 were Rs. 13.90 crores.

The amount collected for health insurance during the year was Rs. 6.8 crores, and the amount spent was Rs. 4.4 crores.

The surplus funds with the Corporation at the end of 1957-58 were Rs. 13.90 crores.

The rates of contribution payable in respect of an employee have been fixed as follows :—

Group of employees	Employees' contribution (recoverable from employees)			Employers' contribution			Total contribution (employees' and employers' contribution)		
	Rs.	As.	Ps.	Rs.	As.	Ps.	Rs.	As.	Ps.
1. Employees whose average daily wages are below Rs. 1	N'd			0	7	0	0	7	0
2. Employees whose average daily wages are Rs. 1 and above but below Rs. 1-8-0	0	2	0	0	7	0	0	9	0
3. Employees whose average daily wages are Rs. 1-8-0 and above but below Rs. 2-0-0	0	4	0	0	8	0	0	12	0
4. Employees whose average daily wages are Rs. 2-0-0 and above but below Rs. 3-0-0	0	6	0	0	12	0	1	2	0
5. Employees whose average daily wages are Rs. 3-0-0 and above but below Rs. 4-0-0	0	8	0	1	0	0	1	8	0
6. Employees whose average daily wages are Rs. 4-0-0 and above but below Rs. 6-0-0	0	11	0	1	6	0	2	1	0
7. Employees whose average daily wages are Rs. 6-0-0 and above but below Rs. 8-0-0	0	15	0	1	14	0	2	13	0
8. Employees whose average daily wages are Rs. 8-0-0 and above	1	4	0	2	8	0	3	12	0

The insured persons are entitled to the following benefits :

(i) sickness benefit, (ii) maternity benefit, (iii) disablement benefit, (iv) dependents benefit and (v) medical benefit.

Amounts (Rs.) distributed in form of cash benefits in 1957-58 are as follows :—

State	Rs. '000				
	Sickness Benefit	Maternity Benefit	Temporary Disablement Benefit	Permanent Disablement Benefit	Dependent Benefit
1	2	3	4	5	6
Andhra	385	29	23	3	3
Bihar	—	—	2	—	—
Bombay	8,045	241	696	155	70
Delhi	794	4	78	52	9
Kerala	225	35	19	1	2
Madhya Pradesh	1,186	38	78	12	4
Madras	1,443	130	110	10	7
Punjab	134	2	26	16	8
Rajasthan	40	4	8	—	—
Uttar Pradesh	1,466	2	121	32	11
West Bengal	2,874	38	317	28	19
Total	16,812	515	1,478	309	133

* In Feb. 1959 it was in force in 73 centres.

The scheme was inaugurated in Kanpur and Delhi on 24th February 1958.

The scheme covered upto September 1958, 13-38 lakh employees.

The number of employees covered in different areas are :

Delhi (47,000); Kanpur (90,000); seven cities of the Punjab State (38,000) :—namely, Amritsar (including Chhehrata), Ambala, Batala, Bhiwani, Jagadhri-Abdullapur, Jullundur and Ludhiana; Nagpur (24,000); Greater Bombay (490,000); Coimbatore (45,000); Indore, Gwalior, Ujjain and Ratlam (59,000); Hyderabad and Secunderabad (14,000); Calcutta City and Howrah District (250,000); seven industrial centres of Andhra State (13,000)—namely, Vishakhapatnam, Chittivalasa, Nellimarla, Guntur, Mangalagiri, Eluru and Vijayawada; and Madras City and suburbs (51,000); Agra, Saharanpur and Lucknow (22,000); Akola and Hinganghat (10,500); Quilon, Alleppey, Ernakulam, Alwaye and Trichur (30,500); Madurai, Ambasamudram and Tuticorin (38,000). Six cities of Rajasthan: Jaipur, Jodhpur, Pali, Bikaner, Bhilwara, Lakheri (11,500); Bawar (8,000); Burhanpur (4,000); Allahabad, Varanasi, Rampur and Kalyanpur (11,500); Patna, Kati-

har, Monghyr and Samastipur areas of Bihar (15,500); Sawai-Madhopur (Rajasthan) (2,500); Hathras, Aligarh, Bareilly and Shikohabad (11,000); Trivandrum (Kerala) (4,000); Bangalore (Mysore) (50,000).

A scheme to liberalise benefits to insured workers suffering from T.B. was put into force from 1st June 1958. After exhausting his sickness benefit of 56 days, an insured person suffering from T.B. who has put in two years continuous service in a factory will get additional sickness benefit at half the sickness benefit rate subject to a minimum of Annas 12 and a maximum of sickness benefit rates for 18 weeks more. Insured persons with three years continuous service will receive free medical treatment for an extra period of about one year.

The insured persons who had to undergo amputations due to employment injuries or otherwise, are provided with artificial limbs at the cost of the scheme. Upto 31st March 1958, 38 insured persons were fitted with artificial limbs.

The Government of India later decided to extend medical care under the scheme to families of the insured persons without raising the employers' contributions.

The scheme was extended to families in Bangalore with effect from 27th July 1958—the first place in which the scheme was so extended—and the families of insured persons in the already implemented areas of Bihar were provided with medical care with effect from 2nd October 1958.

The families become entitled to medical care 13 weeks after the insured person entitled to benefits under the scheme.

The position in April 1958 was that only Uttar Pradesh and West Bengal of the States in the country were opposed to the extension of the scheme to the families of insured persons.

Hospitals exclusively for the use of insured persons are now available in Madras and Bangalore.

In Bombay, Calcutta, Kanpur, Bangalore and Madras, plans for the construction of new hospitals are in various stages of development.

A sum of Rs. 5.75 crores is being spent on the construction of new hospitals.

In addition, a sum of Rs. 5.25 crores is likely to be spent on construction of a number of dispensaries at various industrial centres falling under the scheme.

Sickness and Maternity Benefits became payable from the date of commencement of the first benefit period and the remaining three benefits from the date of implementation in each area which are indicated below :—

State	Area	Date of Implementation	Date of commencement of first benefit period
1	2	3	4
Union Territory of Delhi	Union Territory of Delhi	24- 2-1952	23-11-1952
Punjab	Ambala, Amritsar (Chhehrata), Batala, Bhiwani, Jamnagar, Jullundur and Ludhiana	17- 5-1953	14- 2-1954
Rajasthan	Jaipur, Jodhpur, Bikaner, Pali (Marwar), Lakheri and Bhilwara	2-12-1956	1- 9-1957
	Bawar	27-10-1957	27- 7-1958
	Sawai-Madhopur	2- 3-1958	29-11-1958
Uttar Pradesh	Kanpur	24- 2-1952	23-11-1952
	Lucknow, Agra and Saharanpur	15- 1-1956	14-10-1956
	Allahabad, Varanasi, Rampur and Kalyanpur	31- 3-1957	29-12-1957
	Aligarh, Hathras, Bareilly and Shikohabad	30- 3-1958	27-12-1958
Madhya Pradesh	Gwalior, Indore, Ujjain and Ratlam	23- 1-1955	23-10-1955
	Burhanpur	2- 9-1956	2- 6-1957
	Jabalpur	29- 9-1957	29- 6-1958
Bombay	Greater Bombay	3-10-1954	3- 7-1955
	Nagpur	11- 7-1954	10- 4-1955
	Akola and Hinganghat	27- 5-1956	24- 2-1957
West Bengal	Calcutta City and Howrah District	14- 8-1955	13- 5-1956
Andhra	Hyderabad, Secunderabad	1- 5-1955	29- 1-1956
	Vishakhapatnam, Vijayawada, Eluru, Mangalagiri, Guntur, Chittivalasa and Nellimarla	9-10-1955	8- 7-1956
Madras	Coimbatore	23- 1-1955	23-10-1955
	Madras	20-11-1955	19- 8-1956
	Madurai, Ambasamudram and Tuticorin	28-10-1956	28- 7-1957
Kerala	Alleppey, Quilon, Trichur, Ernakulam and Alwaye	16- 9-1956	16- 6-1957
	Trivandrum	31- 8-1958	30- 5-1959
Bihar	Patna, Katihar, Monghyr and Samastipur	15-12-1957	14- 9-1958
Mysore	Bangalore	27- 7-1958	25- 4-1959

SOCIAL SECURITY REPORT

The Study Group on Social Security set up by the Government of India in August 1957 to which mention is made at the beginning of this section made a report in December, 1958.

The Study Group was set up in pursuance of one of the recommendations on labour policy in the Second Five-Year Plan.

The Chairman was Mr. V. K. R. Menon, Director, International Labour Office (India Branch).

The most important recommendation is an old age, invalidity and survivorship pension-gratuity scheme in the place of the present provident fund schemes for workers.

This will involve the payment of a small gratuity sufficient to meet the needs of workers, and using the rest of the resources towards giving the maximum pensionary benefits.

The Group has recommended that in order to provide pensions of reasonable amounts, the

resources should be augmented by increasing the present rate of contributions of workers and employees to the provident fund from 6½ per cent to 8½ per cent. While the statutory amendments and administrative arrangements required for introducing a pension scheme will take time, the increase of provident fund contributions to 8½ per cent should come into effect immediately. Delay in effecting the increase, the Group points out, will adversely affect the insured workers, as a year of contribution at the existing rate of 6½ per cent will be taken as only nine months for reckoning length of service.

As regards the Employees' State Insurance Scheme, the Group has recommended that the quantum of cash benefits at present granted under the Act should be augmented as follows :

- sickness benefit should be payable upto a maximum period of 13 weeks in any three benefit periods of 26 or 27 weeks each ;
- extended sickness benefit, at full normal benefit rate, may be granted in case of

tuberculosis or other prescribed long term diseases for a further period of 39 weeks but only to such persons as have completed at least two years of qualifying service; and

- maternity benefit rate should be raised so as to be equal to the full average wage of the insured woman and subject to a minimum of one rupee per day.

The Group has stated that there is considerable scope for improving the standard of medical care and treatment for workers covered by the Employees' State Insurance Act.

The provision of medical care and treatment for families of workers is urgently needed as it is this omission that has brought in quite legitimate criticism from organisations of workers and individual workers themselves.

All these improvements could be provided only if substantial additional funds are available. For this purpose, the Group has suggested that

the levy on employers should be increased to the maximum that the law already provides for. While the statutory maximum works out at 4½ per cent of the total wage bill, at present only 1½ per cent are paid by employers in areas where the scheme has been implemented. The Group has stated that the justification which existed for levying contributions at lesser rates has, with the considerable extension of the scheme, lost much of its force.

The Group has recommended the setting up of a single agency which should, as a first step, assume administrative responsibility for the Employees' State Insurance Act and the Provident Fund Acts. In the case of workers covered by both the Employees' State Insurance Act and one of the Provident Fund Acts, employers will pay to this agency, in one single payment, contributions, due under both.

The Group has further stated that it should be the aim to make the coverage under the two enactments identical as far as practicable and in stages by a prescribed target date.

As a step towards facilitating this, the Group has recommended the deletion of the provision in the Employees' Provident Funds Act under which newly established factories are exempted from its provisions for the first three years.

Thus, in the case of factories where workers are covered for the full range of benefits under the Employees' State Insurance Act and the proposed scheme of old age, invalidity and survivorship pension-cum-gratuity, the rates of contributions will work out to about 13 per cent (4½ per cent plus 8½ per cent) by employers and 10½ per cent (2½ per cent plus 8½ per cent) by employees.

In its report, the Group has stated that under existing conditions any large extension of social security measures will not be possible either in terms of coverage or actual benefits.

The aim should be to improve upon existing measures and to simplify administrative procedure, restricting additional financial levy for the time being to what is required for this limited purpose.

The Group has stated that while the provisions in the Industrial Disputes Act relating to compensation on retrenchment and lay-off have afforded some relief and acted as a deterrent to hasty retrenchment, certain unsatisfactory features have nevertheless been revealed.

The permanent remedy may be in the form of a scheme of unemployment benefit but a scheme of this type will not be practicable for some time to come. Till then, improvements should rather be in the direction of avoiding closures and consequent retrenchment, as far as possible for example, by creating a fund through which industrial units in temporary difficulties can be assisted and kept running where such a course is in the interests of the workers and the public at large.

ACCIDENTS

The Mill-owners' Association, Bombay, has done a considerable amount of good work of a pioneering character in connection with Safety-First measures. Working in conjunction with the Safety-First Association of India, the Association drew up a Safety Code for the Cotton Textile Industry and this Code was published and put into operation from August 1940.

The Indian Factories Act requires the manager to report all accidents which cause death or bodily injury whereby the person injured is prevented from returning to his work in the factory during the 48 hours next after the occurrence of the accident.

It is the duty of the Inspector of Factories to make an investigation as soon as possible into the causes of and the responsibility for a fatal or serious accident, and to take steps for the prosecution of the person concerned if it is found that the death or serious injury resulted from any infringement of the provisions of the Act or of the rules framed under the Act.

The Department of Mines has been strengthened to facilitate more frequent inspection of mines. As an emergency measure, the Coal Mines (Temporary) Regulations, 1955 have been promulgated for the prevention of apprehended danger and for the speedy remedy of the con-

ditions likely to cause danger. The entire codes of coal and non-coal mines regulations are being revised to provide for more comprehensive measures for safety in mines.

Figures for the year 1939 and 1941 to 1954 are given in the table below.

Year	FACTORIES				MINES			
	Fatal	Serious	Minor	Total	Fatal	Serious	Minor	Total
1939	221	5,837	29,948	36,006	284	1,410	10,584	12,280
1941	271	8,374	40,091	48,736	303	1,489	10,969	12,761
1942	323	9,111	44,740	54,174	342	1,484	10,871	12,697
1943	361	10,016	48,799	59,176	328	1,509	9,000	10,837
1944	348	10,638	56,336	67,322	365	1,568	8,946	10,879
1945	342	11,006	58,775	70,123	307	1,441	8,724	10,472
1946*	252	8,423	48,480	57,155	328	1,375	9,812	10,915
1947†	214	8,675	49,892	58,781	283	1,460	8,187	9,850
1948	259	9,132	58,673	68,064	272	1,295	8,518	10,085
1949	194	6,513	46,902	53,609	271	1,558	16,529	18,358
1950‡	248	72,164	—	72,412	273	2,033	15,516	17,822
1951	234	75,713	—	75,947	425	2,658	N.A.	3,998‡
1952	257	91,033	—	91,290	453	3,897	N.A.	4,340
1953	256	93,481	—	93,687	388	4,286	N.A.	4,674
1954	297	92,709	—	92,976	407	4,491	N.A.	4,898

During 1957 out of 6.3 lakh workers employed in all mines, 254 persons were killed due to accidents as against 333 in 1956. The annual average of deaths caused by accidents for the previous five years was 392.

The fatality rate per thousand workers in 1957 worked out to 0.40, which was 25 per cent less than the 1956 figure of 0.53. The average figure for the previous five years was 0.67.

In coal mines, which employ about 3.5 lakh persons, the reduction in the fatality rate was even greater.

The number of persons killed as a result of accidents during 1957 was 179 as compared with 259 in 1956 and an annual average of 316 for the previous five years.

The fatality rate per thousand persons employed in coal mines was 0.51 for 1957, which was 30 per cent lower than the 1956 figure of 0.73. The 1957 rate compared even more favourably with the average figure of 0.91 for the five years prior to 1956.

During 1957, the number of persons injured in mine accidents was 3,515 as against 4,281 in 1956 and an average of 4,266 during the previous five years.

The fatality plus injury rate declined from 7.33 in 1956 to 5.90 in 1957, recording a fall of 20 per cent. The average rate for the previous five years was 7.89.

In the case of coal mines, there was a reduction of 12 per cent from 8.83 in 1956 to 7.81 in 1957. The figure for the previous five years was 9.01.

* Excluding the Punjab and the N.W.F.P. in the case of factories.

† From 1950 onwards figures for Serious and Minor accidents have been combined into Non-fatal accidents.

‡ The figures relate to 12 States of the Indian Union, known as Provinces before the 1950 constitution whereas the previous figures relate to the pre-partition British India.

§ Excluding Punjab and West Bengal in the case of factories.

|| Since Statistics for minor injuries are incomplete, total figures for 1951 onwards in respect of mines are not strictly comparable with those for the previous years.

N.A. Not available.

WELFARE ACTIVITIES

The Reports of the Labour Investigation Committee on labour conditions in 36 industries as also their Main Report as well as the issues of the Indian Labour Year Book published by the Labour Bureau of the Government of India contain detailed and comprehensive information regarding labour welfare undertaken in various States and industries.

Until recently the Government of India had not undertaken any activities to promote the welfare of industrial labour employed in Central concerns. Recently, however, they have done a great deal in this respect. Welfare Funds have been instituted in coal and mica mines. The Central Government have issued directives to all employing departments to constitute Labour Welfare Funds in all Government undertakings. The Fund is to be utilised for providing indoor and outdoor recreation, reading rooms, etc., to workmen employed in the undertakings. The Fund will be financed partly by Government grants.

Welfare work had been done directly by a number of State Governments.

HOUSING

In the past the policy of Government as well as of industrial employers was to leave the matter of housing more or less in the hands of private enterprise. The rapid growth in industrial employment made the housing problem serious and the influx of large numbers of workers to urban centres during the war further aggravated the situation.

In April 1948 the Government of India announced as part of their industrial policy a scheme for the construction of a million workers' houses to be completed within a period of ten years but on account of financial stringency much headway could not be made in the furtherance of the scheme.

The Government of India introduced a Subsidised Industrial Housing Scheme in 1952. Under the Scheme, houses are to be constructed for industrial workers through the agency of State Governments, Statutory Housing Boards, employers and registered co-operative housing societies of industrial workers. The Central Government would assist financially these agencies both in the form of subsidies and loans. For housing schemes undertaken by State Governments or Housing Boards the subsidy will be to the extent of 50 per cent of the cost of construction and the loan also to the extent of 50 per cent. In the case of other housing schemes the subsidy and loan will be to the extent of 25 per cent and 75 per cent respectively. The Government of India also allotted during 1952-53 a sum of Rs. 716-685 lakhs for the industrial housing scheme. As a result of the review of the working of the scheme during 1952-53 certain important modifications were later made in the scheme.

The scale of financial assistance to the employers and workers' co-operatives under the Government of India Subsidised Housing Scheme was liberalised for the period 1953-1954. The percentage of loan payable to co-operatives under the original scheme was 87½. This was raised to 50 to offer better incentive to workers.

co-operatives. The employers and workers' co-operatives may get as much as 25 per cent of the approved cost of a project as subsidy; in addition 7½ per cent of the cost is advanced as loan to employers and 50 per cent as loan to co-operatives. The loan to employers is repayable in 15 years and bears an interest of 4½ per cent. In the case of workers' co-operatives, the period is 25 years and the rate of interest 4½ per cent.

The draft outline of the Second Five-Year Plan gives rough figures of the total number of houses constructed during the First Plan period in the public and private sectors, as follows:—

Public construction	No. of houses/tenements
Industrial Housing	77,000
Low Income Group Housing	40,000
Refugee Housing	323,000
Housing by Central and State Governments	800,000
Total	740,000
Estimated Private Construction	750,000
Grand Total	1,490,000

The total provision under the Second Plan is Rs. 45 crores. About 1,25,000 tenements are expected to be built.

Up to the end of January 1958, it is estimated some 66,700 houses were built under this scheme out of 91,250 authorized.

Up to January 1958 the total financial aid sanctioned was Rs. 25.79 crores and the amount dispersed Rs. 17.32 crores. Up to the end of April the amount sanctioned was Rs. 28.63 crores.

The amount of loan allocated by the Central Government for 1958-59 was Rs. 2.5 crores and the subsidy Rs. 2 crores, making a total of Rs. 4.5 crores.

AMENITIES

Section 47 of the Factories Act, 1948 makes it obligatory for all factories employing more than 150 workers to provide adequate shelters and a suitable lunch room for the use of workers during periods of rest. Almost all large industrial establishments had provided tiffin rooms and rest shelters for their workmen. Most concerns had also permitted the establishment of tea stalls on the premises but apart from this, little effort had been made to run co-operative canteens on the lines of those which are associated with most of the large factories in the West.

The Act of 1948 provides for the setting up of canteens in factories that employ more than 50 women.

Except for the Ahmedabad Textile Labour Association, the Railwaymen's Unions, and the Mandor Sabha of Indore, labour unions have not done much by way of labour welfare. This has been due largely to lack of funds. Some of the Railwaymen's Unions have organized co-operative societies, and various kinds of funds for the provision of specific benefits, such as, legal defence, death and retirement benefits, unemployment and sickness benefits and life insurance, etc.

In 1939, the Bombay Government first organised model welfare centres. In July 1953, the Government of Bombay transferred all welfare activities to the Bombay Labour Welfare Board constituted under the Labour Welfare Fund Act, 1953.

Welfare centres were also opened in the areas covered by the pre-reorganization States of Assam, Bihar, Madhya Pradesh, Punjab, U.P., West Bengal, Hyderabad, Madhya Bharat, Mysore, Rajasthan, Saurashtra, Travancore-Cochin, Delhi and Tripura.

Although the Factories Act requires that provision should be made for washing especially in factories where workers come into contact with injurious or obnoxious substances, very little effective provision exists in this regard because most factories only provide water for washing but not soap, soda, towels, etc. As for bathing facilities, extremely few employers provide this amenity. Section 42 of the Factories Act, 1948 provides for the maintenance of such facilities in every factory.

Other types of welfare work done by factories relate to the provision of recreational facilities, amenities for the education of workers and their children, the provision of cost price grain shops, the establishment of co-operative societies, etc.

On railways there are educational facilities for the children of the employees mostly free of charge. Staff Benefit Funds have also been created which give monetary help to the children and widows of the deceased employees.

Medical facilities provided by employers range from first-aid posts and dispensaries to first-class hospitals.

The total amount of money spent by the Central Government on labour welfare except for railways during the year 1956-57 : Rs. 157.10 lakhs.

The amount spent by Railways on staff benefit (fund) during 1957-58 : Rs. 25.60 lakhs.

COAL MINES WELFARE FUND

This Fund was constituted under the Coal Mines Labour Welfare Fund Act of 1947. The principal objects for which this fund is to be utilised are defined in the Act. These are: (1) the improvement of standards of living including housing and nutrition, the amelioration of social conditions and the provision of recreational facilities for the benefit of the labour employed in the coal mining industry; (2) the provision of transport to and from work; (3) the improvement of educational facilities; (4) the provision of improvement of supplies of water; and (5) the improvement of public health and sanitation, the prevention of disease, the provision of medical facilities and the improvement of existing medical facilities. The Act makes provision for the appointment of an Advisory Committee consisting of Government Officers and an equal number of members representing colliery owners and workers employed in the coal mining industry of whom one has to be a woman.

Both the cost of administration of the fund and the salaries and allowances of the officers appointed in connection therewith are to be defrayed from the fund itself.

At present a cess of six annas per ton of coal or coke has been levied for being credited to the welfare fund. The principal activities of the fund which are financed out of this cess are:—

- (i) Housing
- (ii) Hospitals
- (iii) Prevention of disease
- (iv) Water supply
- (v) Pit-head baths and canteens and others.

The cess is now being apportioned between the Housing Account and the General Welfare Account of the fund in the ratio 2:7. A Coal Mines Labour Housing Board consisting of eight members has been set up.

The fund gives certain grants and subsidies to various other funds such as the Lepor Fund.

Regional hospitals and maternity child welfare centres at Katras and Thara in the Jharli coalfield and Chora and Searosole in the Raniganj coalfield have been opened. A central hospital for Jharli coalfield has been opened and the construction of a central hospital for the Raniganj coalfield has started.

The total number of patients treated in the 4 Regional Hospitals during the year 1956-57 was 107,000. The Fund runs 50 Adult Education Centres attended by more than 4,000 workers. 47 welfare centres for women and children were functioning in different coal-fields.

For the prevention of disease, grants are being made to the Mines Boards of Health and a scheme for the treatment of tuberculosis has been drawn up. Anti-malaria work is also in full progress.

The construction of pit-head baths and of canteens has now been made compulsory.

A scheme of domiciliary treatment to coal mines workers in Bihar and West Bengal suffering from T.B., was introduced in June 1958. In addition to free treatment, the Fund will give grant-in-aid for special diet at rates upto a maximum of Rs. 50 per month per worker for a maximum period of 6 months. If the patient happens to be the only earning member of the family he will receive upto Rs. 50 per month as subsistence allowance.

Since 1955 twenty Miners Institutes have been opened in coal mine areas for providing recreational and educational facilities to workers.

So far the Fund has constructed over 2,100 houses for coal-miners. 300 collieries had canteens benefiting about 16,215 children and pithead baths had been built in 183 collieries providing arrangement for about 2 lakh labourers.

During the year 1956-57 a sum of Rs. 59.35 lakhs was spent on various activities.

Mica Mines Labour Welfare Fund.—The Mica Mines Labour Welfare Fund Act, 1946, which was designed to constitute a similar fund for the benefit of mica workers, provides for the levy of an ad valorem duty not exceeding 6½ per cent on all mica exported from India. Under the Act Advisory Committees for Bihar, Madras, and Rajasthan were constituted. In Madras three dispensaries have been started for use by mica miners and five radio sets have been installed in selected mica mining centres.

In June 1956, the Fund was running 13 primary schools, one middle school and 10 adult education schools at its own expense and was giving financial and other aids in the shape of buildings, furniture, books, etc. to 10 schools.

During the year 1957 the Fund conducted 5 dispensaries each in Bihar and Rajasthan and 3 in Andhra. Besides, there were 4 mobile medical units in Rajasthan, and one each in Bihar, Andhra and Ajmer.

There were 2 maternity centres in Ajmer, 4 in Andhra, 2 in Bihar and 5 in Rajasthan.

During 1957, the Fund also maintained six elementary schools in Andhra and one middle school at Kalkchedu. The number of children attending these schools was 566. Scholarships were granted to 65 students for studying in secondary schools and colleges.

In Bihar, 4 multi-purpose institutes were being maintained by the Fund during 1957. In Rajasthan 3 primary schools continued to function.

Recreational facilities for mica miners are also being provided in all the 4 States.

WORKERS' EDUCATION

The Government of India in co-operation with the Ford Foundation appointed an International Team to suggest steps to be taken for (a) education of trade union representatives in the techniques of trade union organisation, management and financing, (b) education of union members for intelligent participation in union affairs and (c) education of union representatives in responsible and effective participation in management.

The Team submitted its report in June 1957.

The main recommendations of the Team are:

1. A central board with semi-autonomous authority and having a sufficiently representative character should be established for the purpose of formulating the policy and administering the educational programmes.
2. A similar board should be established in States or Regions and in important industrial centres.
3. The objective of workers' education programme should be to provide to any worker who wishes the opportunity to understand what a trade union is and how it operates and to develop the necessary skill, confidence and knowledge to participate in any level of trade union activity.

4. The nature of instruction should aim at inculcating knowledge of the structure, functions and traditions of trade unions; first hand experience regarding conducting of meetings, negotiations with employers and participation in welfare development programmes; and acquaintance with labour laws and regulations as well as workers' participation in management.

5. To make workers' education really effective and continuous, it should be conceived of as a life saving process and large variety of courses and conferences differing in duration and in their venue should be adopted.

6. Programme of training of teachers and teacher-administrators should be inaugurated forthwith.

A Central Board for Workers' Education was constituted by the Central Government in November 1958.

A batch of about 50 teacher-administrators has also been trained under the scheme. These teacher-administrators will now train worker-teachers who in turn will conduct classes for workers.

The second phase of this programme—the training of worker-teachers—was expected to start in April 1959. The teacher-administrators trained in the first phase are to train the worker-teachers.

A sum of Rs. 60 lakhs has been provided in the Second Plan for the education scheme.

Evening Classes Training

The Government of India have also decided to start evening classes at important centres like Bombay, Bangalore, Calcutta and Kanpur to help industrial workers to better their prospects.

About 10,000 workers are expected to benefit under the scheme during the second Five Year Plan period.

The subjects of instruction will be shop arithmetic, blue-print reading and trade theory.

The evening classes will be held for 2 hours thrice a week and the course will be of two years' duration. Any literate worker sponsored by the employer will be eligible for training.

The Labour Welfare Institute in Bombay started a pilot project on workers' education in Nov. 1954.

Similarly, in pursuance of the recommendation of the Shiv Rao Committee, the Ministry of Labour, Government of India, have formulated the Pre-employment In-Plant Training (Apprenticeship) Scheme.

The scheme was expected to be implemented first in cities like Bombay, Calcutta and Gwalior in 1957 with 675 seats.

By the end of the second Five Year Plan the number of seats will be increased to 5,000 in all States. The Planning Commission has included a sum of Rs. 49.6 lakhs in the Plan for organising apprenticeship programmes. The expenditure will be shared between the Government of India and the participating States in the ratio of 6 : 4.

PENSIONS, GRATUITIES

All monthly and time-rated workmen in the industrial establishments of Government are entitled to pensions on retirement provided that a minimum of ten years' service has been put in. On the railways an employee can opt for a pension if he so desired. Outside Government concerns, pensions on retirement are almost non-existent.

A study set up by the Government of India suggested in December 1958 the conversion of existing provident fund schemes for workers into a statutory pensions scheme, as part of an old-age invalidity and survivorship pension-gratuity.

All employees of local and public bodies and a few of the larger public companies receive gratuities on retirement. Gratuities are also paid to non-pensionable workers who have put in not less than thirty years' service in Government concerns.

† Pre-reorganization.

In all cases specified periods of qualifying service have to be put in before gratuities can be earned. The rules of individual administrations vary widely but the most generally accepted principle is half a month's pay for each year of service limited to fifteen months' pay in all. Permanent Government servants who have put in less than ten years' active service are entitled to gratuity if they are compelled to retire on medical certificate.

The workers in Jute Mills in West Bengal have been awarded gratuity by the Industrial Tribunal on the following lines: On retirement, resignation or retrenchment after 15 years' service: $\frac{1}{2}$ month's basic wages per year of service subject to a maximum of 15 months' basic wages. On reaching the age of superannuation or termination or retirement on medical grounds and on death: $\frac{1}{2}$ a month per year of service with a maximum of 15 months' basic wages.

The Industrial Court, Bombay, has awarded gratuity to the workers in cotton textile mills in Bombay and Ahmedabad. The terms of the awards are the same as in the Jute Industry with this difference that the rate of gratuity is one month's basic wages per year of service prior to the introduction of the Employees Provident Funds Scheme on 1st November 1952 and half-a-month's wages thereafter.

A similar award was given for textile workers in Ahmedabad. The scheme came into operation on 15th September 1957.

For the period for which provident fund has been in operation no gratuity will be payable.

Schemes of gratuity have been introduced in several engineering concerns by awards of Tribunals, the pattern followed being similar to that in the case of the Jute mills.

A few large industrial establishments in India have started their own Retirement Benefit schemes where an account is opened for every individual worker to which a fortnight's or 13 days' pay is credited every year. Interest is allowed and the amount standing to a worker's credit is paid to him on retirement.

Compulsory contributory schemes are provided in many establishments.

AGRICULTURAL LABOUR

A second all-India agricultural labour enquiry ended in Feb. 1959. The Labour Ministry is now drawing up the report. The first enquiry was conducted in 1950-51. The findings are outlined below.

Out of 54 million rural families in India nearly 17.6 million are those of agricultural labourers having an average annual income of Rs. 447 per family as against an expenditure of Rs. 468, according to an inquiry into the working and living conditions of agricultural labour conducted by the Union Labour Ministry in 800 villages representative of the Indian Union.

The object of the agricultural Labour Enquiry was to collect data on employment, earnings, cost of living, living standards and indebtedness of agricultural labourers in the Indian Union with a view to considering what protective and ameliorative measures, including the fixation of minimum wages, should be undertaken to improve conditions.

The enquiry was conducted in three stages viz. General Village, General Family and Intensive Family Surveys in about 600 villages selected on the principles of stratified random sampling. The General Family Survey covered 104,000 families and the Intensive Survey about 11,000 agricultural labour families. The data collected during the Intensive Family Survey related to the year March 1950 to February 1951. For administrative convenience the inquiry was divided into six zones namely, North, East, South, West, Central and North-West, which corresponded with the Census Zones of 1951.

FINDINGS

The more important findings of the Enquiry are summarised below—

Earning Strength.—On an average the total earning strength (which included helpers) per family was about 2.6. Work was done by almost all the men and a little over half the women and the children above 10 years of age. The proportion of women was more in south, west and central India.

Employment.—The Zonal differences in the average number of days employed on wages were considerable. Male agricultural labourers were employed for 289 days in North, 245 in Central, 224 in East, 202 in North West, 196 in West and 181 in South India.

Most women undertook casual employment mainly to supplement the family income. The average employment of women workers was 120 days in agricultural and 14 in non-agricultural labour. Of the total number of man days worked by casual labourers, men contributed 62 per cent, women 35 per cent and children the remaining 3 per cent.

Unemployment.—In the Indian Union as a whole as many as 97 per cent of the attached workers reported wage-paid employment every month; and on the average they were unemployed for only 19 days during the year. The problem of unemployment concerned essentially the casual workers, of whom 82 per cent at a monthly average reported unemployment during an average of 8 days per month. On the average in the whole of India, an agricultural worker had paid employment for 218 days in the year, cultivated his own land for 49 days and was unemployed for 98 days.

Wages.—The actual payment of wages was made in a variety of ways, wages in cash and in kind, wages partly in cash and partly in kind, payment on time basis and on a piece basis, with or without perquisites in the form of mid-day meal, tea or tobacco.

Of the total man days worked by adult casual workers in the Indian Union, payment on a piece basis accounted for only 5.5 per cent. Time wages amounted to 94.5 per cent.

In the total wage employment in agriculture 57.7 per cent of the man days were paid in cash, 32.2 per cent in kind and the balance 10.1 per cent partly in cash and partly in kind. The practice of supplying perquisites prevailed to the extent of 33 per cent of the total man days worked by adult workers.

The average daily wage rate of the casual worker was found to be 17.5 annas for the whole of India. It was 23 annas in the North-West, 20 in the East, 19 in the North, 18 in the West, 16 in the South and 13 in Central India.

The average daily wage of women workers amounted to 62 per cent of the men's average daily wages. The wage rates of women workers in South, West and Central India were proportionately much lower than in other zones.

Of the male workers about 58 per cent could secure additional non-agricultural employment during an average of 56 days per annum. Among women about 34 per cent were employed on non-agricultural labour for an average of about 41 days a year.

Unlike casual workers attached workers, who were mostly men, received fixed wages that were generally for a period of one year irrespective of the seasonal nature of the work.

Minimum wage rates have so far been fixed for agricultural workers under the Minimum Wages Act, 1948 by the States of Punjab, Delhi, Himachal Pradesh, Uttar Pradesh, Bihar, Assam and Rajasthan, in Kutch, in Bombay, in Coorg, in Mysore, and in the former Vindhya Pradesh area in Madhya Pradesh.

In the Indian Union as a whole children formed 4.6 per cent of the total agricultural labour force. On the average they were employed for 150 days in agricultural and 18 days in non-agricultural work during the year. The daily wage was 11.1 annas in agricultural and 9.9 in non-agricultural employment.

Income.—The family had as an economic unit various sources of income, including agricultural and non-agricultural labour, the cultivation of its own land, and occupations other than farming. The average annual income per family worked out to Rs. 447 of which Rs. 287 accrued from agricultural labour. About 57 per cent of the total income from agricultural wages accrued from cash payments and the remaining 43 per cent from payment in kind, including perquisites.

The average income of an attached worker's family was Rs. 489 and that of a casual worker's family Rs. 442.

Cost of Living.—The income of the agricultural labour families being low, it was the necessity to subsist that guided their expenditure and there was hardly any problem of preference as regards goods and services on which money should be expended.

With an all India average income of Rs. 447 the expenditure per agricultural labour family was Rs. 464 including Rs. 7 on ceremonies. There was thus a deficit of Rs. 14 on consumption alone. Of the 461 rupees spent on recurring items of expenditure, Rs. 303 (65.3 per cent) was spent on food, Rs. 29 (6.3 per cent) on clothing, totalling 91.6 per cent on food and clothing alone. Considered by zones, the annual income per family was Rs. 551 for North, Rs. 508 for East, Rs. 382 for South, Rs. 391 for West, Rs. 417 for Central, and Rs. 651 for North-West.

Taking the Indian Union as a whole the calorie intake of an agricultural worker was 2,230 and thus short of the normal requirement (3,000 calories) by about 25 per cent.

Indebtedness.—About 45 per cent of the agricultural labour families were indebted, the average debt per family being Rs. 47. Taking into account only the indebted families, the average debt was Rs. 105. The percentage of indebted families was the highest in North-West (75.8) and lowest in North. The percentage of casual workers families in debt was 44 and of attached workers families 51. The amount of debt per indebted family was Rs. 100 for casual workers and Rs. 143 for attached workers. The higher indebtedness of the latter was accounted for by the fact that it was easier for them to secure loans from their employers, generally as advances from wages. Debts were incurred mainly for production, consumption and social purposes, the debt on consumption alone being Rs. 74 out of an average debt of Rs. 105 per indebted family.

The biggest single source of borrowing was moneylenders, next in importance came employers. The amounts borrowed were Rs. 38 from the former and Rs. 22 from the latter. Shopkeepers lent Rs. 6 and Co-operative Societies only Rs. 1.

CENTRAL LABOUR INSTITUTE

As a step towards meeting the need for an agency designed to afford facilities for the scientific study of the various aspects of industrial development as relating to the human factor, the Planning Commission, as part of the First Five Year Plan, recommended the establishment of a National Museum of Industrial Safety, Health and Welfare. The Museum is to serve as a nucleus of an Institute for conducting specialised courses of training and education in labour problems.

The Institute will be a composite one, comprising (1) a Museum of Industrial Safety, Health and Welfare, (2) an Industrial Hygiene Laboratory, (3) a Training Centre, (4) a Library-Information Centre, (5) a Productivity Centre, and (6) a Training-within-Industry Centre.

A course in Training-within-Industry has started functioning with a well-equipped staff. It provides facilities for the training of nominees of industrial concerns as T.W.I. instructors. The Centre which is designed to cater to the needs of the industry in the country is at present located in the Industrial Assurance Building,

Churchgate, Bombay 1, and is under the direction of Mr. P. K. Sathe, Deputy Adviser (Factories), Ministry of Labour, Government of India.

The Government of Bombay have made available free of cost a 13 acre plot of land on the Kuria Hills just behind the Santa Cruz Aerodrome at Bombay. A capital grant of Rs. 10 lakhs has been sanctioned by the Central Government for the construction of the main Institute building. An Operational Agreement has been signed between the U.S. Government and the Government of India under which a sum of \$100,000 has been made available for the purchase of plant, equipment and technical publications of the Institute. The Institute started functioning in the middle of 1957.

TRIPARTITE LABOUR MACHINERY

The Tripartite Labour Machinery at the centre consists of (a) Indian Labour Conference, (b) Standing Labour Committees and (c) Industrial Committees. Besides, there are such bodies as the Joint Consultative Board, the Central Advisory Council, the Labour Ministers' Conference etc.

INDIAN LABOUR CONFERENCE

The Indian Labour Conference is composed of 24 members representing the Central and State Governments and 9 members each representing the employers and workers, nominated by the Government of India in consultation with the all-India organisations of employers and workers.

The function of the Conference as laid down at the fourth Indian Labour Conference is to "advise the Government of India on any matters referred to for advice taking into account suggestions made by the Provincial Governments, States and Chamber of Princes and the representative organisations of employers and workers recognised for the purpose of the Conference".

The Indian Labour Conference had held 16 sessions upto May 1958. No meetings were held in 1946, 1949 and 1953.

The 16th session of the Indian Labour Conference was held at Nainital on 19th and 20th May 1958 with Mr. Gulzarilal Nanda, Minister for Labour & Employment in the chair. The conference approved the guiding principles regarding grievance procedure evolved by a Sub-Committee at the earlier conference and requested the Sub-Committee to draft a simple and flexible grievance procedure in accordance with these principles.

The consensus of opinion at the conference was that the time was not appropriate for suspension of adjudication as a method of resolving disputes.

Criteria for voluntary recognition of trade unions by employers were laid down.

The conference also discussed the closure of units and unemployment in various industries such as cotton textiles, jute, plantations and engineering and recommended the steps that should be taken to avoid hardships. In particular, the conference recommended that two months' notice should be given to the workers regarding closure of a shift and three months' notice regarding total closure.

Government should, as far as possible, work closed units as a measure of unemployment relief pending the completion of liquidation proceedings or transfer of ownership.

The Session adopted, with certain amendments, the Code of Discipline in Industry evolved by the Standing Labour Committee in October 1957. The Code lays down certain do's and don'ts both for managements and unions with a view to ensuring better discipline in industry and includes (1) no strike or lock-out without notice and no go-slow tactics, (2) no acts of violence, intimidation or coercion, (3) utilisation of exist-

ing machinery for settlement of disputes and (4) speedy implementation of awards and agreements.

A model procedure for the redress of grievances was evolved and accepted by both parties.

The Code also provides for sanctions against breaches of the Code. The sanctions will be enforced by the Central Organizations of employers and workers against the constituent units.

The sanctions are : ask the unit to explain the infringement of the code ; give notice to the unit to set right the infringement within a specified period ; warn and in cases of a more serious infringement, censure the unit concerned ; impose on the unit any other penalty open to the organisation ; disaffiliate the unit from its membership in case of persistent violation of the code.

The Central Ministry of Labour has established a separate Evaluation and Implementation Division to enquire into breaches of the Code and to expedite implementation of Labour Awards.

The Ministry has also set up a Central Committee consisting of 4 representatives each of employers and employees and an equal number of officials. Similar Committees at the State level have been formed in U.P., West Bengal, Punjab and Rajasthan.

Some of the more recent major strikes were taken up for investigation in the context of the Code of Discipline. Inquiry was completed in regard to the Premier Automobile dispute (Jan. to July 1958) in Bombay, and its sequel, the one-day general strike in Bombay on July 25, 1958. Preliminary steps were also taken to conduct an inquiry into the Calcutta Tram Strike during August-September 1958.

In February 1959 the Labour Ministry also ordered an enquiry into the strike in the plantations at Munnar in Kerala in October, 1958. This was to be conducted by Mr. R. L. Mehta, I.C.S., Joint Secretary in the Ministry.

Code of Efficiency

As a sequel to the code of discipline in industry, the Union Labour Ministry has now (March, 1959) drawn up a draft code of efficiency and welfare which has been circulated to central organisations of employers and workers.

While the objective of the former is to bring about greater industrial harmony, the code of efficiency will aim at improving productivity and production.

This move reflects the increasing concern felt on account of substantial production losses as a result of strikes and lockouts.

The question of reducing industrial costs through increased efficiency has assumed importance in the context of the export drive, the surpluses required by industry, further development and consumer prices.

In a letter to the presidents of the employers' and workers' organisations regarding the new code, the Labour Minister, Mr. Nanda, urged that payments should more and more be linked with production and suitable incentive schemes should be devised in consultation with workers themselves.

He also emphasised that an assurance should be given, "that the workers will have a fair and adequate share in the benefit of increased production and productivity."

The draft code lays down that managements and trade unions should agree to withdraw cases of labour disputes pending before courts with a view to reaching mutual settlements, work out incentive payment schemes, suggestion schemes and set up joint production committees.

The incentive payment schemes, while protecting the health and interest of the workers, should be designed to maximise production. Under the suggestion schemes, proposals made by workers to save wastage and improve output

could be carefully considered and suitably rewarded. As regards joint production committees, the code provides that, wherever possible, they should be set up either independently or as sub-committees of joint councils of management.

The code urges managements to agree to the following further points:

1. Employees should be offered reasonable wages and provisions for economic security after retirement.
2. Staff policies should be rationalised to afford reasonable prospects of promotion to workers.
3. Efforts should be made to provide safe and healthy working conditions, reasonable amenities in the place of work and suitable housing or transport facilities wherever possible.
4. They should maintain machinery and equipment in sound working condition.
5. There should be adequate provision for training of workers, supervisors, and middle-management personnel.
6. The management should be rationalised to avoid waste and inefficiency.

The code also calls upon trade unions to agree to the following points:

- (a) They should not resort to methods of protest that might affect production.
- (b) Inter-union rivalry should not be allowed to interfere with efficiency and production.
- (c) Every effort should be made to reduce absenteeism and labour turnover.
- (d) They should initiate suitable steps for educating the workers in their rights and responsibilities and on their relation to production.
- (e) They will only make reasonable demands on industry, keeping in view the need to maintain competitive costs of production and in the larger interests of the economy.
- (f) They will actively support schemes of rationalisation subject to the conditions agreed to at the 15th session of the Indian Labour Conference.

STANDING LABOUR COMMITTEE

The Standing Labour Committee was constituted by a resolution of the Indian Labour Conference adopted in August 1952. At present the Committee consists of 5 representatives each of the employers and workers and 12 representatives of the Governments. The representatives are nominated by the Government of India in consultation with the all-India organisations of employers and workers.

The function of the Committee is to consider and examine such questions as may be referred to it by the Plenary Conference or the Central Government.

The Committee has met 17 times so far, the last session being the one held in Bombay in November 1958.

Both the Conference and the Committee have so far considered no less than 80 items each and besides promoting such legislation as Industrial Employment (Standing Orders) Act, 1946, Minimum Wages Act, 1948, and the Employees' Provident Funds Act, 1952, they were responsible for the appointment of the Labour Investigation Committee, introduction of health insurance schemes for industrial workers etc.

At the October-November session in Bombay the Committee recommended that workers' and employers' organisations should evolve, as early as possible, machinery for screening cases wherein recourse to law courts was contemplated.

Workers' and employers' organisations should advise their constituents to report only specific and genuine cases of non-implementation of awards, agreements etc to the Evaluation and Implementation Division of the Ministry of Labour and Employment.

State Governments which had not yet set up Implementation Committees at State and local levels were requested to do so as early as possible.

It was also decided that an analysis of the cases of appeals to High Courts and the Supreme Court against industrial awards should be undertaken by the Centre as well as the State Governments in their respective spheres.

The Committee approved of a proposal to depute an observer or a team of observers to study major strikes from the point of the Code of Discipline which had been unanimously accepted by the employers' and workers' organisations. The question whether the team should be official, non-official or mixed would be determined by Government on the merits of each case. It was also felt that similar studies might be undertaken, wherever necessary, in other cases involving infringement of the Code of Discipline.

The Committee reviewed the working of the Employees' State Insurance Scheme and expressed the view that the extension of the Scheme to the present coverable population should be completed by the end of the Second Five Year Plan.

Four industries—sugar, jute, cement and heavy chemicals specially fertilisers—have been selected by the Steering Group on Wages (of the Workers' Participation in Management Sub-Committee) for conducting a study of replacement costs.

The Group met in New Delhi on September 19, 1958.

The study is to be entrusted to the National Council of Applied Economic Research.

The object is to formulate a uniform and acceptable method of calculating replacement and modernisation needs of industry to help remove an important source of friction in industrial relations.

As regards the wage map of India, the Steering Group agreed that to begin with wage maps for selected industrial centres should be drawn up.

The Steering Group also approved the Labour Ministry's proposal to carry out a statistical survey of the pattern of absenteeism among colliery workers.

The purpose of the survey is to find out whether payment of attendance bonus to workers every week or month instead of every quarter, as at present, would be better from the point of view of encouraging better attendance and better performance on the part of workers.

The Steering Group also considered the question of wage costs and appointed a sub-committee to examine the matter thoroughly.

A Committee set up by the Standing Labour Committee considered at a meeting in January 1959, 201 proposals received from State Governments and the all-India organisations of employers and workers about amendments to the Industrial Disputes Act, 1947. There was agreement on several suggestions intended to improve the working of the Act. One of the important agreements arrived at by the Committee is intended to make the principal employer responsible even for the workmen engaged by contractors. Provisions relating to retrenchment and lay-off were examined at length and the Committee was of the opinion that these provisions should not be changed unless there was bipartite agreement for doing so.

INDUSTRIAL COMMITTEES

The Eighth Session of the Indian Labour Conference decided to establish Industrial Committees to discuss various specific problems special to industries covered by them and submit their reports to the Conference. The first Industrial Committee to be set up in pursuance of the decision was that on Plantations in January 1947. In 1948 Industrial Committees were set up for four important industries viz. Cotton Textiles, Coal Mining, Cement and Leather goods, and in 1949 for Building and Construction industry. There is no uniformity in the representation accorded to Government, employers and workers in these Committees but the representation given to employers and workers is equal in all cases.

Barring the Plantation Committee which has met seven times so far, the other Committees have not been very active. The Plantation Labour Act, 1961, the extension of the Industrial Disputes (Amendment) Act, 1958 relating to lay-off and retrenchment compensation to

plantation labour, grant of sickness benefit of two weeks in a year are some of the achievements of this Committee.

JOINT CONSULTATIVE BOARD

The Joint Consultative Board for Industry and Labour was constituted to promote agreements between employers and workers and to ensure their proper implementation following a recommendation in that regard made by the Development Committee on Industries in 1951. The Board as originally constituted consisted of three representatives each of employers and workers with the Union Minister for Planning as Chairman. Since February 1954 the Board has been reconstituted as a purely bi-partite body and it now consists of 8 members, 4 representing employers and 4 workers. It considers such questions as rationalisation, productivity studies, payment by results, association of workers with management, etc. At its last meeting held in September 1958 the Board decided to set up a subsidiary Joint Consultative Board for the Cotton Textile Industry.

TRIPARTITE MACHINERY IN THE STATES

Bombay was the first State to set up a tripartite Labour Advisory Board in March 1947. This example was followed by Uttar Pradesh, Bihar, West Bengal, Madras, etc.

The function of these boards is to help maintain harmonious industrial relations and advise Government on matters affecting labour.

WORKERS' PARTICIPATION IN MANAGEMENT

A study group set up to report on the question of workers' participation in management published its report at the end of May 1957.

The study group was led by the Secretary to Government, Ministry of Labour (at the time Mr. Vishnu Sahay).

The main recommendation of the group is that the Government of India should put through enabling Legislation to direct selected industries to operate given schemes relating to workers' participation in management.

The report emphasises that management councils should not rival trade unions. A demarcation of functions is necessary and collective bargaining matters touching wages, bonus and workers' grievances should be left to the latter.

The objective of the joint councils should be to collaborate in raising productivity, provide a means of communication, improve working and living conditions, encourage suggestions and assist in the administration of laws and agreements.

The councils may be consulted on matters such as alterations in standing orders, retrenchment, rationalisation, closure, or reduction of operations, introduction of new methods, procedures for engagement of labour and punishment.

They can also receive information and make suggestions about the general economic position of the concern, market trends, production and sales programmes, organisation, methods of manufacture and the balance sheet.

To counteract the danger of apathy, it is suggested that the councils of management may also be given some administrative responsibility. These may cover the administration of welfare schemes, the supervision of safety measures, the operation of training and apprenticeship schemes, the preparation of working-day and holiday schedules and payment of rewards for valuable suggestions.

On balance, legislation may help to create the climate and the necessary sense of obligation.

Government should have the power to decide where the law should be applied. The consideration that will apply may be a minimum size of industry in terms of employment, the absence of rival unions, and the stability of the industry.

It should not apply to industries that are complex or in which the workers have to be protected under the Minimum Wages Act.

For undertakings spread over several places, there may be separate councils at the local, regional and national levels.

The report suggests the inclusion of technicians in the joint councils and stresses the importance of workers' education in schemes of labour participation in management. The workers must have knowledge of their industry and some general economic background apart from mere industrial skill to participate usefully and effectively.

The study group has, therefore, recommended that the Government should undertake the responsibility for organising a sustained educational campaign in collaboration with the unions and employers' organizations.

As already mentioned the Indian Labour Conference which met in July 1957 appointed a tripartite Committee to compile a list of major industries in the public and private sectors in which workers' participation in management could be introduced.

This Committee compiled a list early in August.

The industries selected from the private sector are: cotton textiles, jute, engineering, chemicals, tobacco, paper, sugar, cement, mines and plantations.

Those from the public sector include: railway workshops and yards, posts and telegraphs, ports, shipyards, transport workshops, mines, printing presses and electricity undertakings.

The committee decided that the State Governments should also be requested to name suitable industrial undertakings under their control for inclusion in this experiment of workers' participation in industrial management.

The criteria for selecting undertakings where the scheme can be introduced include: (a) The undertaking should have a well-established, strong trade union functioning; (b) The size of the undertaking in terms of employment should be at least 500 workers; (c) The employer should be a member of one of the leading employers' organizations so far as the private sector is concerned; likewise, the trade union should be related to one of the central federations; and (d) The undertaking should have had a fair record of industrial relations.

A seminar on labour-management co-operation was held in New Delhi on 31st Jan. 1957. Workers' and employers' representatives from more than 30 units attended the seminar.

It was agreed that the councils will administer welfare activities and supervise safety measures and schedules of work and holidays. They will discuss and make suggestions with regard to the economic situation of the concern, production and sales programmes and the general running of the undertaking. They will be consulted by the management in the administration of standing orders and about closures or reduction in operations.

The total membership shall range between 6 and 12 and decisions have to be unanimous to be valid. The trade union shall elect half the members, the other half being nominated by the management. One non-employee member can be elected except where the management is agreeable to this limit being raised to two, which is the maximum.

The council shall hold office for two years. The posts of chairman and vice-chairman shall rotate between the workers' and management's representatives.

Position in 1958

The position in September 1958 was as follows: The total number of factories which had set up joint councils of management was 14.

Twenty-four other factories had announced their decision to set up joint councils.

Among the factories in the private sector which implemented the decision on workers' participation in management were:

1. The Simpson Group in Madras
2. Tata Iron and Steel Co., Jamshedpur
3. Modi Spinning and Weaving Mills, Modinagar, U.P.
4. The Bombay Silk Mills, Bombay
5. The Malabar Iron and Steel Castings, Bombay
6. The Devdoyal Cable Industries, Bombay.
7. The Rajhumar Textile Mills, Indore.

Twelve undertakings in the public sector have been selected for labour participation in management.

The undertakings under the Central Government are:—

Argada Colliery, P.O. Argada, District Hazaribagh, Bihar;
Hindustan Machine Tools Factory, Bangalore;
Eastern Railway Printing Press, Calcutta.

The undertakings under the State Governments are:—

State Transport, Madras;
State Transport, Trivandrum;
P.W.D. Workshop, Trivandrum;
Government—Ceramic Concerns, Kundra;
State Transport Corporation, Bombay;
Government Central Press, Bombay;
Printing and Stationery, Chandigarh;
Roadways, Madhya Bharat; Leather Factory, Gwalior; and
Electricity Corporation, West Bengal.

A meeting of the Workers' Participation Subcommittee in Delhi in Sept. 1958 reviewed the progress made generally in this direction and came to the conclusion that this left much to be desired. Every effort, it said, should be made to bring in more units into the scheme.

Further, it decided that the Government should be relieved of the responsibility of pushing the scheme. This should henceforth be taken up by workers' and employers' organizations, which should also periodically report to the Government on the subject.

LABOUR ADMINISTRATION

Apart from the main Secretariat of the Ministry of Labour it has several attached and subordinate offices. The activities of some of these have been described in the relevant sections, such as Miners' Welfare Fund, and notes on some others are briefly given below.

Labour Bureau.—To meet the ever growing needs of Government, industry and labour for accurate and reliable information relating to labour conditions, labour legislation, etc., the Central Government established on 1st October 1946, a Labour Bureau.

Among other things the Bureau edits the *Indian Labour Gazette* and the *Year Book*.

Chief Labour Commissioner.—The Central Government, in the Ministry of Labour, have also appointed a Chief Labour Commissioner. This officer is in charge of industrial relations and consultation, labour welfare, operation of labour laws, and maintenance of information regarding wage rates and conditions of work in Central undertakings. There are a number of deputies working under him known as Regional Commissioners.

Chief Adviser of Factories.—In order to ensure uniformity in the administration of the Indian Factories Act and to improve conditions generally in Indian factories, the Government of India have appointed an officer designated the Chief Adviser of Factories. The Chief Adviser has a number of deputies, including deputies who attend to matters relating to the health of the workers and the sanitation and cleanliness of factories.

INDIA AND THE I.L.O.

India joined this organization at the very start and since 1923 has been one of the eight countries of chief industrial importance and as such has been allotted a permanent seat on the Governing Body of the Organization. India also contributes liberally towards the finances of the Organization. For 1959 India's contribution amounts to U.S. \$223,191 which is 8.22 per cent. of the total contribution of all member States. India's share in the appointments of the office is, however, somewhat inadequate.

At the headquarters in Geneva the number of Indian nationals employed in 1959 as Assistant Members of Division and above is 13. Among these the highest post is held by Mr. B. Raghunath Rao who is the senior-most Assistant Director General. The Indian Branches at New

Delhi employs 19 persons including the Director. The Asian Field Office of the I.L.O. at Bangalore which has been supervising the technical assistance programme in countries of South and East Asia employs 15 Indians.

India was the venue of the Fourth Asian regional Conference of the I.L.O. in November 1957. The Conference which was presided over by Mr. G. L. Nanda, Union Minister for Labour and Employment, was attended by 187 Government, Employers' and Workers' delegates and their advisers and 21 countries sent their observers.

This Conference besides the Report of the Director-General, discussed labour and social problems of small-scale and handicraft industries; conditions of life and work of share-croppers, tenants, farmers and similar categories of semi-independent workers in Agriculture; and labour-management relations.

Among others, the conference adopted a resolution which expressed the hope that Asian Governments will invite the trade unions and employers' organizations to assist in the elaboration of economic development programmes, in their implementation and in the preparation of labour legislation.

India has so far ratified 25 out of the 107 Conventions adopted by the International Labour Organisation. She has in addition incorporated into her national legislation the essential features of many other Conventions.

The following is a list of Conventions ratified by India together with the dates of ratification within brackets:—

1. No. 1 Hours of Work (Industry), 1919 (14-7-1921).
2. No. 2 Unemployment, 1919 (14-7-1921).
3. No. 4 Night Work (Women), 1919 (14-7-1921).
4. No. 5 Minimum Age (Industry), 1919 (9-9-1935).
5. No. 6 Night Work of Young Persons (Industry), 1919 (14-7-1921).
6. No. 11 Right of Association (Agriculture), 1921 (11-5-1923).
7. No. 14 Weekly Rest (Industry), 1921 (11-5-1923).
8. No. 15 Minimum Age (Trimmers & Stokers), 1929 (10-12-1922).
9. No. 16 Medical Examination of Young Persons (Sea), 1921 (20-11-1922).
10. No. 18 Workmen's Compensation (Occupational Diseases), 1925 (30-9-1927).
11. No. 19 Equality of Treatment (Accident Compensation), 1925 (30-9-1927).
12. No. 21 Inspection of Emigrants, 1926 (14-1-1928).
13. No. 22 Seamen's Articles of Agreement, 1926 (31-10-1932).
14. No. 26 Minimum Wage-Fixing Machinery, 1928 (10-1-1935).
15. No. 27 Marking of Weight (Packages Transported by Vessels), 1929 (7-9-1931).
16. No. 29 Forced Labour, 1930 (30-11-1934).
17. No. 32 Protection Against Accidents (Dockers) (Revised), 1932 (10-2-1947).
18. No. 41 Night Work (Women) (Revised), 1934 (21-11-1935).
19. No. 45 Underground Work (Women) 1935 (25-3-1938).
20. No. 80 Final Articles Revision, 1946 (17-11-1947).
21. No. 81 Labour Inspection, 1947 (2-4-1949).
22. No. 89 Night Work (Women) (Revised), 1948 (27-2-1950).
23. No. 90 Night Work of Young Persons (Industry) (Revised), 1948 (27-2-1950).
24. No. 100 Equal Remuneration for Men and Women Workers (25-6-56).
25. No. 107 Indigenous and Tribal Population, protection and integration (29-9-1954).

† Conventions containing special provisions applicable to India.

● Ratification denounced.

FORESTS

TOTAL Forests: 280,896 sq. miles.
Percentage of Forests to Land: 22.3.

Average annual revenue: Rs 24.3 crores (average of 1952-53, 1953-54 and 1954-55).

Allotment under First Five-Year Plan: Rs. 9.89 crores.

Under Second Plan: Rs 21.67 crores.

Forest area in India is relatively small, the forests are unevenly distributed and the production is also proportionately low, being only 2.5 c.ft. per acre per year as compared to 56.8 c.ft. in France, 37.0 c.ft. in Japan and 18.0 c.ft. in U.S.A.

Systematic management and administration of forests in India dates back to over a century. The first enunciation of policy was in 1894, when forests were classified into four classes: (a) protection forests; (b) timber forests; (c) minor forests; and (d) pasture lands.

The limited outlook of this policy was enlarged upon by the Government of India, and the new forest policy laid down in 1952 provides for the following:

(1) An objective of one-third of all land in the country under forests, with a larger proportion in the hills (2) per cent in plains, 60 per cent in hills); (2) the reconditioning of our mountainous regions, river valleys and coastal lands by preserving and establishing protection forests; (3) the immobilisation of deserts and shifting sands; (4) sustained yield management of national forests, aiming at national self-sufficiency; (5) regulated development and utilisation of village forests; (6) development of tree lands more systematically; (7) State control over and guidance of working of private forests; (8) preservation of wild life; and (9) for State policies to be in conformity with the general principles laid down in the National Forest Policy.

Most of the country's forests are worked according to Forest Working Plans prepared by special staff. On the basis of present conditions and past working, these plans lay down, for a 10-15-year period at a time, silvicultural systems, schedules for thinning and other cultural work, methods of management, staff requirements and exploitation programmes, besides development schemes for roads, buildings.

The formation of forest plantations involving a long-term policy for increased production, is now-a-days an important feature of Indian Forestry, e.g. the very valuable and extensive plantations of Teak, Bluegum, Wattle, Casuarina, Sal, Deodar, as also evergreen species and softwoods for matches.

'Forests' are a State subject.

The Government of India, however, are responsible for forest research and forest education. The Ministry of Agriculture in the Government of India co-ordinates forest activities in the country, but no forests are directly worked by it except the Andaman forests. The Inspector-General of Forests is their technical adviser in forest matters.

All States have separate Forest Departments. Usually a Chief Conservator of Forests (C.C.F.) heads the Department.

For purposes of administration the States are divided into one or more Forest Circles, each in charge of a Conservator of Forests.

Each Circle is in turn divided into four to eight Divisions, each under a Divisional Forest Officer. The unit of administration and execution of forest works is the Forest Range, managed by a Range Forest Officer. Four to eight of these

are included in each Division. A Division may be co-extensive with Civil districts or larger or smaller than them depending on the importance of the locality and extent of forests in them.

EDUCATION AND RESEARCH

Forest research and education are centralised in one large institution known as the Forest Research Institute and Colleges located at Dehra Dun.

The Forest Research Institute as such came into being in 1906 as an adjunct to the Imperial Forest College, as it was then called. Through progressive stages of development the Institute has now attained a position which has earned for it international prestige as evidenced by its recognition by the Food and Agricultural Organisation of the United Nations as a Centre for training in Forestry for South-East Asia.

The Forest Research Institute and Colleges are under the administrative control of the Ministry of Food and Agriculture of the Government of India. Its administrative Head is designated the President.

The education wing of the Institute comprising three Colleges is in the charge of the Director of Forest Education.

The Indian Forest College trains recruits of the State Governments to their gazetted forest services. The course stretches over a period of three years.

The Northern Forest Rangers' College (Dehra Dun) and the Southern Forest Rangers' College (located in Coimbatore) offer training for two years to rangers selected by State Governments in the northern and southern regions of the country respectively.

The research wing of the Institute is organised under two main heads—biological and utilisation. Research on the biological side pertains to the rearing and protection of forests and is conducted in the Silviculture, Botany, Mycology and Entomology branches while that on the utilisation of forest products is undertaken in the Wood Anatomy, Wood Seasoning, Wood Preservation, Composite Wood, Timber Mechanics, Timber Engineering, Minor Forest Products, Chemistry of Forest Products and Cellulose and Paper and Logging Branches.

Under the reorganisation at the instance of the Government of India, which came into effect from 1st November 1957, the branches of the Institute were grouped into eight divisions.

Silviculture is under the direction of a Silviculturist. Much of the actual research is, however, decentralised and done by local State silviculturists in the States, but the Central Silviculturist co-ordinates their work, does all the statistical computing and acts as an information bureau on silvicultural matters for the whole of India.

The Institute also runs a Service Branch, a Statistical Branch and a Publicity and Liaison Branch.

An advanced Diploma course in Pulp and Paper technology, the duration of which is one academic year was started in August, 1957 in the Cellulose and Paper Branch of the Institute. The minimum qualification for admission to the course is a degree in Chemical Engineering.

In pursuance of the decision of the Government of India to establish a regional Centre for forest research in the south, the administrative control of the Forest Products Laboratory, Bangalore, was transferred to the Forest Research Institute and Colleges from April 1957, and it now functions as a nucleus for this centre.

In 1958 an Editorial Board was established at the Institute for the purpose of revision of certain books on forestry.

A large number of bulletins and other publications are issued by the Forest Research Institute. Of these a list can be obtained from the Publicity and Liaison Officer, Forest Research Institute, New Forest, Dehra Dun.

FOREST PRODUCE

Forest produce is divided into two main heads—(1) Major produce, i.e., timber and firewood, and (2) Minor produce, comprising all other products, such as bamboo, cane, leaves, fruits, fibres, grasses, gums, resins, essential oils, medicinal and poisonous plants, fatty oils and fats, dyes, tans and animal and mineral products.

The annual outturn of timber and fuel from all sources averages about 2,696 million cubic feet.

The bulk of the timber supply is used for railway sleepers, constructional requirements, furniture, plywood (especially for tea chests), matches, etc.; but the country imports timber for specialised uses such as jute and textile mill accessories.

Exports from India are limited to selected rosewood logs for high grade furniture to Europe, teak poles for the Middle East and a few other items. Up-to-date, Indian rural economy (and perhaps only to a slightly less extent even its urban population) depends on wood fuel, much of which is derived from the forests. The large-scale use of bamboos and some forest grasses in the expanding paper industry, the exports of sandalwood and its oil and the development of medicinal plants deserve mention in connection with the utilisation of other forest produce.

In the Andamans, the North Andaman forests are leased out to a private agency for working the virgin forests of these islands. The Middle and South Andamans continue to be worked departmentally, mainly to meet the needs of the mainland especially for matchwood and plywood logs. The Andamans also contribute in an increasing measure (by restricting on exports abroad) towards the needs of railways, etc. on the mainland for Palauk, Gurjan and other hardwoods.

Nearly two million people are estimated to be employed on forest work; but the figures are probably below the actuals, as much forest labour is not full-time labour, devoting seven or eight months in the year to agriculture and the rest to forest work.

The general practice of the Forest Departments in the various States is to dispose of standing timber and forest produce by open auctions. Departmental conversion and sales of the produce itself are resorted to only where special considerations necessitate them, e.g. working of sandalwood because of its great value.

Timber production in India is not sufficient to meet internal needs. While foreign markets could be readily developed for Indian timber, exports are limited to small quantities of ornamental timbers for European countries, teak poles for the Middle East from the west coast and traditional drapachoes to markets in Pakistan.

Exports are regulated by quotas which are periodically re-examined.

Imports are regulated by protective or revenue duties and are restricted to such specialised items as are not readily obtainable from local production.

Revenue, Expenditure and Surplus of Forests in India (1954-55) (Rupees in thousands)

State (existing before the reorganization).	Revenue	Expenditure	Surplus
Andhra	89.13	31.00	8.13
Assam	67.07	52.91	14.16
Bihar	76.33	65.14	11.19
Bombay	4,82.03	1,51.44	2,30.59
Madhya Pradesh	4,09.60	1,44.28	2,65.32
Madras	1,31.88	63.71	68.17
Orissa	1,42.84	43.37	99.51
Punjab	47.57	45.33	2.24
Uttar Pradesh	4,14.04	1,66.92	2,47.12
West Bengal	73.45	68.65	4.80
TOTAL	18,03.98	8,32.75	9,71.23
Hyderabad	93.25	33.21	60.04
Jammu and Kashmir	60.21	30.39	49.82
Madhya Bharat	74.61	20.73	53.88
Mysore	1,29.61	41.52	88.09
PEPSU	6.86	16.25	(-) 9.39
Rajasthan	41.16	27.21	13.95
Saurashtra	2.00	10.01	(-) 7.11
Travancore-Cochin	1,03.67	62.49	1,31.18
TOTAL	6,22.27	2,41.81	3,80.46
Ajmer	2.04	2.04	
Bhopal	20.83	5.82	15.01
Coorg	33.82	12.65	21.17
Himachal Pradesh	80.20	29.98	50.22
Kutch	39	1.16	() 77
Manipur	1.59	1.80	(-) 21
Tripura	7.94	6.86	1.08
Vindhya Pradesh	67.43	24.86	43.47
TOTAL	2,14.24	84.17	1,30.07
Andaman and Nicobar Islands	60.39	75.12	(-) 14.73
Forest Research Institute and Colleges	5.21	25.13	(-) 19.92
GRAND TOTAL	27,12.09	12,58.98	14,53.11

Note: The following States were unaffected by the reorganization: Assam, Orissa, U.P., Kashmir, Delhi, Himachal Pradesh, Manipur, Tripura, Andaman.

Figures for the present Punjab can be got by adding figures for the old Punjab and PEPSU.

Approximate figures for Rajasthan can be got by adding figures for Rajasthan and Ajmer.

For the rest of the States figures are given where available under individual States.

The area and classes of forest State-wise (States before the reorganization) in 1954-55 are shown in the table below:

Forest Area in Sq. Miles.

State (pre reorganization)	Reserved	Protected	Unclassed	Total
Andhra	9,700	2,057	1,916	13,673
Assam	6,374	110	12,981	19,444
Bihar	1,492	11,497	984	13,887
Bombay	14,044	1,290	5,529	20,863
Madhya Pradesh	26,184	10,453	25,967	62,604
Madras	8,633	1,301		9,934
Orissa	12,222	12,023		24,245
Punjab	181	4,582	254	5,621
Uttar Pradesh	9,940	1,245	3,745	14,930
West Bengal	2,679	14	2,484	5,167
TOTAL	91,438	44,572	53,758	189,768
Hyderabad	4,893	2,195	1,318	12,204
Jammu and Kashmir	10,171	754	13	11,058
Madhya Bharat	7,107	5,882	3,212	16,201
Mysore	4,384	619	195	5,202
PEPSU	87	87	124	298
Rajasthan	1,409	1,211	13,365	16,045
Saurashtra	565		432	997
Travancore-Cochin	2,976	76		3,052
TOTAL	35,456	10,924	18,777	65,057
Ajmer	172			172
Bhopal	1,317	731	298	2,346
Coorg	517		610	1,127
Himachal Pradesh	637	2,526	865	4,028
Kutch			197	197
Manipur	388	857	1,080	2,325
Tripura	1,020	2,438		3,458
Vindhya Pradesh	5,613	101	4,204	9,918
TOTAL	9,664	6,633	7,254	23,551
The Andaman and Nicobar Islands	1,498	555	447	2,500
GRAND TOTAL	138,056	62,604	80,236	280,896

Note:—The following States were unaffected by the reorganization: Assam, Orissa, U.P., Kashmir, Delhi, Himachal Pradesh, Manipur, Tripura, Andaman.

Figures for the present Punjab can be got by adding figures for the old Punjab and PEPSU.

Approximate figures for Rajasthan can be got by adding figures for Rajasthan and Ajmer.

For the rest of the States figures are given where available under individual States.

SECOND FIVE-YEAR PLAN

In the Second Five-Year Plan, forest development will be co-ordinated and assisted by the Centre on a large scale, in the period 1956-61. States have adopted many schemes for raising commercial, industrial and fuel plantations, for increased output of timber and other produce, for afforestation of degraded forests and waste lands, for making forests more accessible for extensive working, for conservation of wild life and for amenities for forest labour and staff.

On all this an expenditure of about Rs. 20-02 crores is proposed and the Centre will help the States with loans and grants. The Government of India has also plans for an expenditure of over Rs. 2 crores for expanding their research and training organizations.

The general aim is to rehabilitate about 2.9 lakh acres of degraded forests, and to bring 80,000 acres under commercial species like teak etc., 13,000 acres under wattle and blue gum, 2,000 acres under medicinal plants, 190,000 acres under industrial timbers and 90,000 acres under matchwood plantations.

A Forestry Commission might be set up for management and development.

Achievement under the first Plan includes: bringing under State control about 20 million acres of forest land which, before abolition of zamindari in 1952, was under private management, construction and improvement of about 3,000 miles of forest roads, plantation and rehabilitation of 75,000 acres, out of which matchwood plantations increased at the rate of 3,000 acres a year.

AGRICULTURE

INDIA is predominantly an agricultural country. About half of the country's national income is derived from agriculture and allied activities which absorb nearly 3 of its working force (of about 152 million in 1956 inclusive of dependents).

Some major facts about Indian agriculture (1955-56): Area of India, 806 mil. acres; area available for land utilisation, 719 mil. acres (rest is mostly unsuitable for cultivation); uncultivated area 403 mil. acres (forest 125 mil. acres, area not available for cultivation 118 mil. acres, other uncultivated area 100 mil. acres and fallow 60 mil. acres); area actually sown 318 mil. acres; total cropped area taking into account area sown more than once 362 mil. acres; area sown with foodgrains 271 mil. acres*; area sown with non-food crops 91 mil. acres; total area irrigated 56 mil. acres.

India virtually holds the monopoly in lac, leads the world in groundnut and tea production, and is the second largest producer of rice, jute, raw-sugar, rape, sesamum and castor seeds.

* Includes sugarcane.

The gross value of the agricultural commodities produced in the country (1950-51) was Rs. 48,000 million (and net value Rs. 41,120 million).

The values of the principal crops were:—
Rice: Rs. 11,990 million; Wheat: Rs. 3,340 million; Barley: Rs. 800 million; Jowar: Rs. 1,940 million; Bajra: Rs. 810 million; Gram: Rs. 1,470 million; Arhar: Rs. 830 million; Coconut: Rs. 700 million; Groundnut: Rs. 2,160 million; Rape and Mustard: Rs. 660 million; Chillies: Rs. 680 million; Tobacco: Rs. 710 million; Sugarcane: Rs. 3,050 million; and Cotton: Rs. 1,130 million.

Average rainfall 48"; deficiency of 25 per cent is classed dry; deficiency of 60 per cent severe drought; usually one year in five is a dry year, one in ten, a year of severe drought, one in 20 to 25 years widespread severe drought.

Out of the total cultivated area in the Indian Union of 362 million acres about 56.2 million acres are irrigated annually. Of this area 23.2 million acres are irrigated by canals, 10.9 million acres by tanks, 16.6 million acres by

wells, and 5.4 million acres from other sources. The percentage of irrigated area to total cultivated area is, however, small, being only a little over 17 per cent. Protective irrigation works have made agriculture stable instead of precarious in many districts.

About one-fourth of the total irrigation of the country is got from lifting water from wells ranging in depth from a few feet to over fifty feet.

Tank irrigation is common in central, eastern and southern India.

Construction of temporary Bandharas across streams and small rivers after heavy monsoon period is over, is also common in parts of Bombay and Madras States for irrigation during the drier Rabi period.

The great bulk of agricultural land in India is deficient in organic matter. In India, cattle dung is largely utilised as village fuel and only about 40 per cent of it is used for manurial purposes.

The following table will show the area under principal crops and the yield:

AREA AND PRODUCTION

Crops	Area in '000 acres		Production in '000 tons*		Average yield per acre in lbs.	
	1956-57	1957-58	1956-57	1957-58	1956-57	1957-58
Rice	79,320	79,027	28,282	24,821	799	704
Wheat	33,580	29,657	9,314	7,684	621	578
Barley	8,728	7,531	2,827	2,175	726	647
Maize	9,197	9,762	3,006	3,064	733	703
Jowar	40,367	41,411	7,249	8,058	403	436
Bajra	27,644	27,453	2,885	2,848	232	291
Ragi	5,831	5,997	1,715	1,716	659	652
Small Millets ..	12,230	11,979	1,944	1,759	390	329
Total Cereals ..	2,17,135	2,12,717	87,245	82,810	591	556
Gram	24,265	22,406	6,364	4,754	574	475
Redgram	5,646	5,596	1,984	1,386	770	550
Black gram	4,362	3,297	993	323	302	223
Green gram	3,243	3,359	319	279	220	166
Horse gram	4,926	3,687	350	327	195	190
Lentil	1,267	1,235	188	171	320	310
Khesari	2,287	1,906	272	219	266	179
Peas	2,403	2,741	571	574	532	469
Moth	4,675	4,142	369	296	177	155
Other pulses	5,991	6,186	823	682	304	319
Total pulses	54,215	54,655	11,503	9,216	443	378
Total foodgrain ..	2,73,350	2,67,372	64,744	62,026	559	520
Sesamum	5,446	5,264	442	283	182	154
Groundnut	13,450	14,457	4,200	4,271	699	662
Rape & Mustard ..	6,311	6,050	1,026	906	364	335
Linseed	4,154	3,318	344	271	207	183
Castor seed	1,415	1,325	124	97	199	165
Total oilseeds ..	30,774	30,419	6,176	5,907	449	435
Coconut	1,592	—	42,16,802	—	2,686	—
Sugarcane	5,057	5,021	6,751	6,457	2,990	2,581
Tobacco	1,029	926	294	252	639	610
Cotton	19,493	20,154	4,735	4,753	93	92
Jute	1,904	1,754	4,244	4,084	899	932
Mesta	733	724	1,474	1,211	807	667
Sann-hemp	609	—	125	—	454	—
Pepper	2,209	2,290	273	264	277	258
Ginger	393	344	150	140	555	806
Chillies	1,476	1,534	342	355	519	518
Turmeric	1,550	—	1,527	—	2,306	—
Tea	782	—	6,67,727	—	880	—
Coffee	290	—	64,143	—	336	—
Rubber	184	—	44,795	—	453	—
Banana	3,63,767	—	1,601	—	10,414	—
Papaya	11	—	142	—	27,774	—
Potato	702	785	1,674	1,991	4,342	N.A.
Sweet Potato	374	—	1,124	—	6,748	—
Tapioca	609	—	1,759	—	6,467	—
Indigo	9	—	0,100	—	25	—
Opium	59,313	—	13,496 *	—	19	—
Lac	—	10,023,000	18,18,000	—	—	—

* See Note below.

Notes.—Data for 1956-57 and 1957-58, relate to Partially Revised and Final Estimates respectively and are subject to revision:—(a) Production of rice is in terms of cleaned rice; groundnut as unshelled nuts; sugarcane as raw sugar or gur; cotton as lint in thousand bales (of 500 lbs.) and jute and mesta as dry fibre in thousand bales (400 lbs.); coconut as thousand nuts (the average yield being in the number of nuts). (b) Area and production of pepper, ginger, and turmeric are in terms of 100 acres and 100 tons respectively. (c) Area and production of tea, coffee, and rubber are in terms of 1,000 acres and 1,000 lbs. and those of tea and rubber relate to calendar years. (d) Acreage under opium is in terms of acres and production in maunds (of 82 2/7 lbs.). This also applies to lac.

INDEX OF PRODUCTION—ALL COMMODITIES

Year	INDEX NUMBERS OF PRODUCTION		
	Foodgrains.	Non-foodgrains.	All commodities.
1949-50	100.0	100.0	100.0
1950-51	90.8	105.9	95.6
1951-52	91.1	110.5	97.8
1952-53	101.1	103.8	102.0
1953-54	119.1	104.7	114.3
1954-55	115.0	120.9	117.0
1955-56	115.3	120.0	116.9
1956-57	120.5	120.4	123.8
1957-58	107.8	125.7	113.4

Notes.—Figures for 1949-54 are finally revised; for 1956-57 partially revised; and for 1957-58 are Final Estimates subject to revision.

INDEX OF PRODUCTION—INDIVIDUAL CROPS

The index numbers of production of individual crops is given below.

(Base 1949-50 = 100)

Commodity/Group	1950-51	1951-52	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58
I. FOODGRAINS								
(a) Cereals—								
Rice	87.9	90.1	95.8	118.6	105.8	114.2	119.1	104.5
Jowar	89.8	96.4	108.6	117.0	132.3	96.7	105.9	117.7
Bajra	83.8	75.8	94.8	135.0	107.8	108.3	92.0	113.6
Maise	84.4	101.3	123.3	130.2	127.5	112.3	132.0	134.4
Ragi	87.6	80.4	82.0	115.0	108.6	119.7	112.9	113.0
Small Millets	88.9	97.4	97.9	125.9	126.3	105.1	101.3	90.7
Wheat	101.1	93.9	112.7	120.0	135.4	131.3	141.6	116.4
Barley	105.6	100.0	122.4	123.2	124.4	118.5	120.9	93.0
Cereals	99.3	91.3	101.4	120.1	114.5	114.9	119.9	108.3
(b) Pulses—								
Gram	96.0	88.2	109.2	125.4	143.9	136.9	163.2	123.9
Tur	91.8	97.7	90.9	99.5	91.8	99.4	106.0	75.7
Other Pulses	85.6	90.2	90.9	102.6	99.6	103.9	92.1	85.9
Pulses	91.7	90.3	98.8	112.6	118.5	118.4	124.5	109.9
TOTAL FOODGRAINS	99.5	91.1	101.1	119.1	115.9	115.3	120.5	107.3
II. NON-FOODGRAINS								
(a) Oilseeds—								
Groundnut	101.4	93.0	85.3	100.3	123.5	112.4	124.2	126.3
Sesamum	101.6	103.2	106.9	127.6	135.1	104.8	100.7	82.7
Rape & Mustard	94.6	116.0	105.5	107.3	127.7	105.8	123.3	113.2
Linseed	87.8	77.1	86.0	89.1	90.3	97.1	90.3	63.7
Castorseed	80.5	82.8	79.7	80.5	95.4	96.1	96.9	75.8
All Oilseeds	98.5	97.4	91.9	103.7	123.6	108.6	118.9	112.3
(b) Fibres—								
Cotton	110.7	119.2	121.0	151.8	163.6	153.9	182.2	162.9
Jute	106.3	151.4	145.6	100.0	94.8	135.8	135.7	132.3
Mesta	100.0	104.8	103.3	98.5	136.5	174.7	223.9	163.5
All Fibres	105.6	128.3	123.4	132.1	140.4	149.7	171.4	167.2
(c) Plantation Crops—								
Tea	103.8	109.6	115.4	100.6	110.4	108.8	114.1	115.0*
Coffee	112.3	112.7	125.9	146.5	161.8	176.3	216.3*	221.1*
Rubber	93.8	94.4	106.1	131.8	127.6	146.1	143.9	145.9*
All Plantation Crops	104.0	109.4	115.7	104.9	113.3	113.6	129.6	121.8
(d) Other crops—								
Sugarcane	113.7	122.8	101.6	89.5	115.9	119.8	135.3	127.6
Tobacco	97.3	78.0	91.3	101.5	95.1	112.9	115.9	108.7*
Potato	107.4	110.8	125.9	126.5	114.1	120.3	110.0	116.0*
Pepper	97.3	107.5	102.8	113.3	127.3	132.6	131.6	127.3
Chillies	119.4	118.4	98.0	104.9	131.9	122.9	118.4	123.9
Ginger	94.4	96.0	89.6	90.9	94.3	105.7	101.0	94.3
NON-FOODGRAINS	105.9	119.5	103.3	104.7	120.9	120.9	130.4	123.7
ALL COMMODITIES	95.6	97.5	102.0	114.3	117.0	116.9	123.3	113.4

* Based on provisional estimates.

Notes.—The indices for 1956-57 are based on partially Revised Estimates and those for 1957-58 on Final Estimates. They are, therefore, subject to revision.

The agricultural season is divided into two main sub-divisions the Kharif season of the monsoon and the Rabi season of the cold weather. This is not well-marked in the extreme east or extreme south.

The ground is generally prepared for cultivation in April and May for kharif crops, and by the end of October or early November for rabi crops, i.e., after the kharif crops have been harvested. Kharif crops are sown in the monsoon, generally after the first shower. The usual time for sowing of rabi crops is the middle of November. The crops are harvested from the middle of March to the end of April.

The chief Kharif crops are: rice, jowar, bajra, maize, cotton, sugarcane, sesamum and groundnut. The chief Rabi crops are: wheat, barley, tea, gram, linseed, rape and mustard; and in south India rice, jowar and cotton.

The harvest comes on the market as follows: Kharif crop (Nov. 1), Rabi crop (May 1), Rice (Nov. 1), Wheat (May 1), Sugarcane (Nov. 1), Cotton (Sept. 1), Jute (July 1), Kharif oil-seeds (Nov. 1), Rabi oil-seeds (April 1), Tea (Jan. 1), Coffee (July 1), Sugar (Jan. 1).

RICE

Rice crop occupies the largest area in the Indian Union, over 79 million acres giving 25 million tons of rice.

Madras, Bihar, Bengal, Orissa, Madhya Pradesh, Uttar Pradesh, Assam, Andhra and Bombay are the main rice growing States and

The statistics about Japanese method of production are given below:

	1954-55	1955-56	1956-57	1957-58
Area under Japanese Method (in Million acres)	1 320	2 096	2 374	3 997
Additional production (of rice in million tons) due to Japanese Method	0.496	0.89	0.400	1 2
Yield in Maunds per acre (of rice) by				
(a) Japanese Method	23.46	24.89	19.90	19.25
(b) Local Method	12.93	13.33	13.33	10.99

It must be explained that the yield of paddy under the Japanese method of cultivation varies from State to State. Even within the same State it is difficult to calculate the average increase in yield because all the steps suggested in the Japanese method of cultivation are not invariably followed by the cultivators.

In the Second Plan it is proposed to cover 8 million acres with Japanese methods—1.6 mln. acres every year.

The Chinese method is also to be tried at 30 centres in India. A committee is at present (Feb. 1959) selecting the centres. A delegation is expected to go to China in March or April 1959 to study Chinese techniques.

WHEAT

The area under wheat is about 30 million acres and production about 8 million tons. Wheat is grown widely throughout the north as a winter crop. U.P., M.P. and Punjab supplying over 72 per cent of the total output in the country. This crop occupies, on an average, about 10 per cent. of the total cultivated area.

More than one-third of the crop is irrigated.

The crop is generally grown after a summer fallow and except in irrigated tracts, depends largely on the conservation of the soil moisture from the previous monsoon. The crop is generally harvested in February to April and the threshing and winnowing go on up till the end of May.

Unfortunately, wheat is subject to a virulent fungus disease called rust, which is the potent factor limiting its larger production in all wheat growing regions of the world, including India. The magnitude of the loss to wheat crop due to this fell disease during periods when it occurs in an epidemic form is very great indeed. In normal years, the loss is about 5 per cent involving about sixty million rupees. In other wheat growing countries, generally, one kind of rust only is a serious menace. Though in peninsular India only black rust is serious, northern India with the largest wheat area has to face the onslaughts of three different

they together claim about 95 per cent of the total rice area in India. About a third of the crop is irrigated, the bulk of the rice is winter crop, i.e., sown in June-July and harvested in November-December, but there are rice grown in different seasons the harvest coming in summer, autumn or winter.

Rice yield in India is, however, one of the lowest in the world. The average yield is a fourth of that of Spain and Italy, a third of Japan, and half of what the Chinese and the American rice farmers obtain. At present 76 research stations spread almost all over the States of the country are working on similar problems of rice. Though about 4,000 distinct types of rice differing in essential characteristics occur in this country, 455 superior strains giving an average of 10 to 20 per cent better yield than the farmers varieties have been evolved. But they cover only a very insignificant percentage of the total rice area: Andhra 70 per cent; Assam 8 per cent; Bengal 10 per cent; M.P. 16 per cent; Orissa 10 per cent; Jammu and Kashmir 10 per cent and U.P. about 12 per cent.

Rice farming practices vary considerably from region to region and even from place to place depending upon such factors as climate, soil type, and rainfall.

Japanese Method

In the last few years the Japanese method has been tried with good results specially in areas of assured water supply. But many individual steps in this were evolved through research in India.

rusts, i.e., black, red and yellow, each with a number of races.

Systematically planned work on the development of rust resistant wheats is being done under the aegis of the Indian Council of Agricultural Research and a large number of rust resistant varieties have been produced.

Besides these, varieties which have greater adaptability and yielding power are also bred.

But the coverage of the total wheat area by the improved varieties is yet to be pushed up. At present improved varieties form only 16 per cent in M.P., 33 per cent in U.P. and about 70 per cent in the Punjab, of the wheat area of the respective States.

MILLETS

Mostly of short duration (2½ to 6 months from seed to seed) millets are grown in localities and in conditions where most of the other cereal crops are not grown, such as poor and infertile soils and low rainfall (of 20-50"). They are associated with the staple diet of lower rather than upper strata of society, and provide the chief cereal supplement for all regions outside the main rice and wheat tracts. Millet stalk form the chief food of the cattle population for about half the year in the millet regions of the country either in green or dry form. Some of them like jowar are grown in substantial areas solely for fodder purposes and special varieties are developed for forage purposes.

Jowar—Among the millets jowar occupies a premier position because of the size of the crop and the economic importance of the grain. Annually about 42 million acres are grown under

this to yield about 8 million tons of grain. Bombay, Madhya Pradesh, Andhra and Rajasthan contribute to about 89 per cent of the national acreage.

Bajra—Bombay, U.P., Rajasthan, and Punjab are the chief growing tracts. The duration of the crop varies from about 2½ to 6 months.

Ragi—Ragi ranks the third in importance among the Millets and occupies over 6 million acres to produce about 1.8 million tons of grain. Its average yield is rather high, 9 mds. per acre. More than half the area is in Mysore, Madras and Andhra. Sixteen improved strains of ragi evolved in Madras and two in Mysore are being grown in these States.

Other Millets—The others grouped under lesser or minor millets form about 1.6 of the total area under millets and are grown in about 12 million acres and yield about 1.8 million tons of grain. Some of them are of regional or local importance only and also of limited consumer demands. The most important among them are Kora or Kangni, Kodon, Cheena or Varagu, Oodalu, and Sawan.

FRUIT AND VEGETABLES

A wide variety of fruit and vegetables is cultivated in the country.

The total area under all fruit at present is about three million acres.

Mango: 1,400,000 acres (primarily in U.P., Andhra, Bombay, M.P., Bengal, Bihar, Madras, Mysore and Kerala).

Citrus (Mosambi, Malta, Santra, Kagzhi Lime and others): total 223 000 acres

Mosambi and Malta: Bombay, M.P., Orissa, Punjab, U.P. and Andhra.

Santra: Andhra, Assam, Mysore, Bombay, M.P., Madras, Bengal, Punjab and Kerala.

Kagzhi Lime: Bihar, Bombay, U.P. and Punjab; (Others: Assam, Bihar and U.P.).

Jack-fruit: 164,000 acres (Bihar, U.P., Kerala and Madras).

Guava: 69,000 acres (U.P., Bihar, M.P. and Bombay).

Grapes: 1,600 acres (Bombay, Andhra, Madras and Himachal Pradesh).

Custard Apple: 110,000 acres (Andhra, Bihar and M.P.).

Pomegranate: 2,000 acres (Bombay and U.P.).

Litchi: 21,000 acres (in the temperate plains of Bihar and U.P.).

Pineapple: 21,000 acres (in the coastal laterite soils of Assam, Bihar, Bengal, U.P. and Kerala).

Temperate Fruits:

Apple: 3,300 acres in the hills of U.P., H.P., Punjab, Madras and in Kashmir.

Pears: 1,200 acres in the hills of U.P., Bihar and in Delhi.

Peaches: 1,200 acres (in the hills of U.P., H.P. and in Kashmir).

Plums: 1,100 acres (in the hills of U.P., Punjab and in Kashmir).

Sapota: 756 acres (Bombay and Andhra).

Fig: 746 acres (Bombay and U.P.).

Phalsa: 250 (Uttar Pradesh).

Date: 889 acres (U.P., Bombay and M.P.).

Apricots: 630 acres (U.P. and H.P.).

Walnuts: 474 acres (U.P., H.P., Punjab and Kashmir).

Other fruit grown in India include Strawberries and Cherries in U.P. and Pashan fruit, Pashan and Mango stem grown elsewhere in the country.

A considerable amount of fruit products of various kinds (jules, squash, jams, etc.) are produced in the country both for home consumption and for export.

The Fruit Products Order promulgated by the Government of India under the Essential Commodities Act of 1955 ensures the manufacture of fruit products of standard quality. As a result, the wastage of fruit has been minimised and the quality of the products improved to a considerable extent.

Fruit products amounting to over 23,000 tons are now manufactured in the country by 810 licensed factories in Amritsar, Bombay, Calcutta, Delhi, Lucknow, Madras, Mathura and other centres.

Five million rupees have been allotted in the Second Five Year Plan for the development of the fruit preservation industry in the country. This includes provision (1) to advance loans through State Governments for setting up five large-scale and 200 small-scale units of fruit and vegetable preservation, (2) to grant subsidies on tin plates used in the canning industry, and (3) to set up regional research stations to investigate problems connected with fruit and vegetable preservation. It is expected that by 1960-61 the average annual production of the industry will increase from 23,000 to 50,000 tons with a corresponding rise in their export from 2,000 to 11,000 tons.

Vegetables

Below are given the area in acres and the States where vegetables are grown.

The total area under vegetables is about 1,459,000 acres

Suran: 1,300 (Bombay); Aroids: 52,000 (Assam, U.P., M.P. and H.P.); Yam: 400 (Bombay); Gourds: 2,800 (Assam, M.P. and Andhra); Cucumber: 12,000 (Assam and U.P.); Water-melon: 2,300 (U.P., Andhra and Assam); Musk-melon: 37,000 (U.P., Punjab, Andhra and Bombay); Squash: 1,600 (Assam and U.P.); Lady's finger: 50,000 (Assam, Bombay, M.P. and Bihar); Brinjal: 91,000 (Assam, Bombay, and M.P.); Other summer vegetables: 175,000 (Madras, Punjab and Andhra); Beans: 22,000 (Assam and M.P.); Carrot: 62,000 (U.P., Bombay and Assam); Beetroot: 4,000 (U.P. and Assam); Radish: 44,000 (Assam, U.P. and Madras); Turnip: 16,300 (Assam and U.P.); Cabbage: 37,500 (Assam, U.P., Punjab, Delhi and Bombay); Cauliflower: 45,000 (Assam, U.P., Punjab, Delhi and Bombay); Brussels sprouts: 700 (Assam and U.P.); Lettuce: 1,000 (Assam and U.P.); Celery: 100 (Assam and U.P.); Spinach: 2,500 (Assam and U.P.); Parsley: 600 (M.P., U.P. and Assam); Mint: 56,000 (Kerala, U.P. and Assam); Methi: 2,100 (U.P., Bombay and Assam); Onion: 54,000 (Bombay, Andhra, Assam and Bihar).

MARKETING

Efficient marketing with the object of providing adequate return to the primary producer is an essential prerequisite of organised agricultural development.

Development of agricultural marketing in India, in the modern sense, dates from 1935 when a Directorate of Marketing and Inspection was established under an Agricultural Marketing Adviser to the Government of India with deputies, senior and junior marketing officers and inspectors to assist him.

It has its counterpart in the States, as in Andhra, West Bengal, Bihar, Bombay, Madras, Mysore and the Punjab.

The basic objective of the organisation is to regulate the markets and educate the farmers in methods of pooling, processing and grading their produce so that they may get an adequate share of the price that the consumer pays.

The main functions of the organisation, therefore, are: (1) Surveys of markets to collect information for development work, (2) Promotion of grading by fixing grade standards and effecting quality control, and the administration of the Fruit Products Order, (3) Organisation of regulated markets, (4) Training in agricultural marketing as well as co-ordination of the working of the

Marketing Acts in the States and other agricultural marketing problems of the country, and also giving advice to the State and the Central Governments.

SURVEYS

Since no programme of marketing development could function till comprehensive information about marketing practices in different parts of the country are available, surveys of market conditions were started soon after the Directorate was set up. As a result, five reports dealing with the production, qualitative and quantitative, internal and external demands, prices and price spreads, standardisation, markets and their operation, distribution channels, and the improvements imperative for the better marketing of 41 agricultural commodities (including cereals and pulses), 12 dealing with live-stock and live-stock products, 24 dealing with special crops have been published.

Ten major commodities among these, have been re-surveyed and reported again.

In addition to these, 13 special bulletins and brochures have been issued on important aspects of production and marketing of specific commodities.

These studies provided the basis for the regulation of markets, the legislative control of forward trading and for the enforcement of weights and measures. They form, also, the basis for all agricultural marketing and development work, in the country.

GRADING AND STANDARDISATION

The Government of India passed the Agricultural Produce (Grading and Marketing) Act of 1937 to promote orderly marketing on the basis of statutory grades.

The Act authorised the Agricultural Marketing Adviser, to fix grade standards for different types and varieties of agricultural produce, prescribe grade designation marks to indicate each quality, and issue certificate of authorisation to persons or co-operative societies to grade and mark with "Agmark" their commodities on the basis of the standards laid down.

The organisation has developed standards for 115 agricultural products so far.

The following important commodities are graded under "Agmark" for consumption within the country: Rice, atta, gur, jaggery, fruit (mangoes, oranges, grapes, apples and sapota), potatoes, cotton, creamery butter, ghee, vegetable oils and eggs.

The following commodities are graded primarily for export purposes: cigarette tobacco, leaf, sunn-hemp fibre, essential oils (sandalwood and lemon-grass oils), wool and bristles.

Extension of compulsory grading for export to the following commodities is envisaged in the Second Five Year Plan: cardamom, pepper, ginger, vegetable oils, oilseeds, hand-picked groundnuts, cashewnuts, goat skins, tanned leather, kapok, lac and myrobalsans.

Grading is voluntary in the case of commodities consumed in the country. But, in the case of exported commodities by a notification issued (under Section 19 of the Sea Customs Act), it is ensured that only after grading would specified commodities be permitted for export.

Grading has given good results. The quantity of graded cotton, for instance, increased from 5,000 bales (valued at about Rs. 20 million) in 1953-54 to 253,000 bales (valued at about Rs. 120 million) in 1955-56. The quantity of graded ghee, similarly, rose from 92,000 maunds in 1952 to 150,000 maunds in 1956.

"Agmark" is now recognised as a symbol of purity and quality.

The expansion of grading with an effective system of quality control has necessitated the establishment of a Central Control Laboratory at Nagpur with eight regional laboratories at Amritsar, Bombay, Calcutta, Cochin, Guntur, Kanpur, Madras and Rajkot.

REGULATED MARKETS

The State Agricultural Produce Market Acts are in force in nine States, namely, Andhra, Bombay, Delhi, Kerala, M.P., Madras, Mysore, Orissa and the Punjab. They ensure the existence of regulated markets where transactions between seller and buyer are fair, and where unauthorised deductions, high rates of commission, etc., are absent.

Of the 1,800 principal markets in the country 523 (Andhra: 78, Bombay: 185, Kerala: 2, Madhya Pradesh: 74, Madras: 18, Mysore: 50, Orissa: 1 and Punjab: 115) are in the category of regulated markets.

By the end of the Second Five Year Plan, it is expected that the rest of the markets in the various States will also be regulated.

The regulated markets are managed by Market Committees consisting of the representatives of the growers, the traders, local bodies and the State Government nominees. Producers are generally in a majority, and in several cases are elected chairmen.

These committees arrange for the enforcement of fair trade practices, viz. fixed market charges, correct weighments, no unauthorised deductions on account of samples, charity, etc.

The open auction system of sales, settlement of disputes, and dissemination of market information are some other important features.

The Committees also provide market yards' facilities for parking carts, rest house for farmers' canteens and godowns and sheds for auctioning the produce. The producer selling in the market is given a slip (showing details of sale proceeds and deduction) and payment is made on the same day.

To extend the scope of the regulated market an advisory service has been set up in the Directorate, to give advice to State Governments and market committees.

One visible benefit of the regulated market has been the reduction in market charges varying from 28 per cent to 69 per cent.

Besides, the producer gets a higher price in an open auction, and by selling his produce in these markets he obtains an additional income of Rs. 2 to 5 per Rs. 100 worth of goods.

One of the main handicaps in the proper development of regulated markets is the inability of many marketing committees to provide central market yards for assembling all the produce and transacting business under proper supervision.

The Government of India has now provided funds in the Second Five Year Plan for rendering financial assistance in the shape of loans to marketing committees.

MARKETING SOCIETIES

An integrated programme of marketing development embracing rural credit, marketing, processing, and warehousing is now proposed in the country, as a result of the recommendations contained in the Rural Credit Survey Report.

The main features of the programme are:— (1) Linking credit with marketing in the form of marketing societies; (2) Developing processing and distribution of farming requisite on co-operative lines, and (3) Promotion of storage and warehousing.

Marketing is closely linked to credit, as it aids in the recovery of the latter. Agricultural credit societies sanction loans on condition that the produce is sold through marketing societies. The latter would deduct the dues, when the produce is sold (or when loans are granted on the pledge of the produce), and pay the balance.

The Second Plan provides for the organisation and development of 1,900 primary and district marketing societies and one apex marketing society for each State and Union Territory.

During 1956-57, 251 marketing societies were either organised or reorganised. For 1957-58, 484 were proposed.

In 1957-58 the Central Government assisted the States in organising and reorganising 399 primary and district marketing societies and 9 apex marketing societies.

In 1956-57 the NCDW Board provided a loan of Rs. 48.27 lakhs to the States to assist them in contributing towards the share capital of co-operative marketing societies.

In 1957-58 the Central Government provided Rs. 70.52 lakhs for this purpose.

In Uttar Pradesh 40 societies marketed during 1956-57, 4 lakh maunds of foodgrains and oilseeds valued at Rs. 70 lakhs. The same year in Madras, 105 marketing societies with a membership of over 1.3 lakhs were responsible for the sale of agricultural produce worth Rs. 171.64 lakhs.

Besides arranging the sale of agricultural produce the primary marketing societies also undertake the supply of agricultural requisites and other essential commodities to members.

In Uttar Pradesh, for example, 1,500 seed stores distributed 15 lakh maunds of improved seeds which was 30 per cent of the total seed requirements. In Orissa 500 grain "goans" undertook seed distribution, and in Punjab marketing societies sold 95 lakh tons of seed.

Nearly 60 per cent of the total quantity of nitrogenous fertilizers is at present being distributed by co-operative societies.

The marketing societies are also being encouraged to take up inter-State export of surplus agricultural commodities.

Processing

Mere sale of agricultural produce through marketing societies as commission agents helps the farmer, only partially, as it does not release the primary producer from the stranglehold of vested interests in processing the produce, prior to selling it.

It has been decided, therefore, that processing should receive adequate attention, along with marketing.

Provision has been made in the Second Five Year Plan for State contribution to share capital and loans for processing units, e.g. sugar factories, cotton gins, jute, barley, rice milling.

Most of these will be established ordinarily by marketing societies in the course of their routine duties, while sugar factories and spinning units will be established independently.

It is expected that there would be 50 co-operative sugar factories, which will account for 20 to 25 per cent of the total production. The total investment on this will be about Rs. 500 million. 15 of these have now gone into production and the rest are expected to function soon (Jan. 1959).

In all licences have been issued for 39 units (Jan. 1959) and the Industrial Development Corporation has provided Rs. 13 crores as loan to meet the capital outlay. Further, the Central Government and the NCDW Board have provided Rs. 3 crores as loans to State Governments for purchase of shares in co-operative sugar factories.

About 45 cotton gins and other processing plants will also be organised on a co-operative basis.

The Second Five Year Plan envisages the establishment of 4,000 godowns by large-sized societies (1,000 godowns (mostly at Mandi centres or centres of trade importance) by marketing societies which are expected to handle about 10 per cent of the marketable surplus of the country, and a number of warehouses by the Warehousing Corporations. This will facilitate the disposal of the produce and prevent distress selling, for the benefit of members.

The primary societies will have godowns of 20,000 to 30,000 tons capacity and the apex

societies 25,000 to 100,000 tons. Besides the marketing of agricultural commodities, the marketing societies arrange for co-operative crop processing plants and also distribute essential farming requisites (viz., seed, implements, fertilisers, etc.).

WAREHOUSES

Facilities for the storage of agricultural produce in the terminal and other markets are unsatisfactory. Private enterprise is shy of investing large sums in building warehouses and godowns.

With a view to the proper organisation of processing and marketing on a co-operative basis a Central Warehousing Corporation with a share capital of Rs. 200 million with its counterparts in the State was established in 1957.

The National Co-operative Development Board set up, as a result of the Agricultural Produce (Development of Warehousing) Corporation Act of 1956 is the advisory body.

The Corporation is empowered to give loans and subsidies for various co-operative development plans (viz., construction of godowns by marketing and credit societies, contribution to the share capital of marketing and processing societies and for the necessary staff requirements).

One of the main functions of the Warehousing Corporation at the Centre and in the States is to acquire and build godowns and warehouses at suitable centres of all-India or State importance, and to run the warehouses for the storage of agricultural produce.

One hundred such warehouses are to be established by the Centre and 250 (with a capacity of 1,000 to 2,000 tons) by the States.

As a result of this, additional storage facilities of 3 to 3½ million tons will be available.

The Central Warehousing Corporation has started 9 warehouses (at Amravati, Gondia, Sangli, Gadag, Devanagere, Bargarh, Warangal, Moga and Chandaul) in hired accommodation.

State Warehousing Corporations have been set up in 14 States (exceptions are Assam and Kerala).

The Second Five Year Plan provides for contribution from State Governments to the share capital of the State Warehousing Corporations.

The assistance is sanctioned by the Warehousing Board. The sanctioned assistance is as follows:—

(Rs. million)

1956-57 for 594 godowns	4.776
1957-58 for 1,451 godowns	14.304

In 1957-58 the Central Government advanced Rs. 1.34 lakhs to the States for the construction of 964 godowns by large sized societies and 435 by marketing societies.

Fourteen godowns with a total capacity for 312,000 tons have been completed in various States. Priority for the construction of another 25 (with a total capacity of 498,000 tons) has been accorded.

As already mentioned, the Second Plan envisages the establishment of 4,000 godowns by large-sized co-operative societies, 1,800 by marketing societies, and a number of warehouses by the Warehousing Corporation.

The present capacity of cold storage in the country is about 2.5 million maunds provided by 200 cold storages most of which are run by private traders. This capacity may go up to 5.0 million maunds by the end of the Second Five Year Plan. The plan has, therefore, provided Rs. 4 million for setting up 8 cold storages.

AGRICULTURAL ECONOMICS

The Directorate of Economics & Statistics is one of the main organisations under the Central Government which deals with all agro-economic problems in the sphere of food and agriculture.

Steps initiated during the First Five-Year Plan continued during the Second Five-Year Plan as well as a provision of Rs. 5 million is provided in the State plans for schemes of improvement of land records and statistics. State plans will be aided on a half and half basis and Rs. 0.8 million is provided in the 1957-58 budget for these purposes.

An amount of Rs. 5,40,000 has been sanctioned to 11 States as the Central share of the expenditure.

A research division has been set up in the Directorate to co-ordinate Farm Management investigations and also to conduct research in production economics.

The statistical wing of the Indian Council of Agricultural Research is a sister organisation, which does fundamental investigation in statistics and also trains statisticians for field work.

The organisation of soil conservation work in the States and Territories is the responsibility of the respective Governments. The co-ordination of work between these is achieved through the agency of the Central Soil Conservation Board which was set up in the Ministry of Food and Agriculture in 1953. Similar boards are also set up in most of the States and Territories.

Altogether seven research-cum-training centres have been established at the following places:—

1. Ootacamund (Madras) for erosion control in the Nilgiri and other hills;
2. Bellary (Mysore) for soil conservation studies in black soils;
3. Kotah (Rajasthan) with sub-centre at Agra for erosion control in the Chambal and Jumaun ravines;
4. Jodhpur (Rajasthan) for afforestation in the Rajasthan desert;
5. Dehra Dun (U.P.) for studying problems of afforestation in the Siwalik hills with the sub-station at Chandigarh (Punjab) for training also (hill torrents);
6. Vasad (in the Gujarat tract of Bombay) for erosion control in the ravines along rivers in Gujarat.
7. Research-cum-training centre at Hazaribagh (in Bihar) under the Damodar Valley Corporation.

The Board sanctioned 114 schemes costing about Rs. 18.0 million in 1956-57, and 156 schemes costing Rs. 21.205 million in 1957-58.

About 4.94 lakh acres were given protection through soil conservation measures.

It is estimated that in the country as a whole about 200 million acres are exposed to erosion. Out of this about 100 million come under land under cultivation.

Rs. 25 crores were allotted in the Second Plan (original) for conservation. The target is three million acres. The staff requirements are estimated at two hundred officers and five thousand assistants.

RESEARCH

The Indian Council of Agricultural Research was created in 1929. The Council is divided into a Governing Body composed of State Ministers of Agriculture, representatives of Parliament and an Advisory Board consisting of experts. The Governing Body is in charge of general affairs and of the funds, while the Advisory Board examines scientific projects submitted to the Governing Body.

To afford relief to the Governing Body in the discharge of its executive functions there is a Standing Committee. The Governing Body is also assisted by a Board of Research and a Board of Extension. The latter is concerned with pilot schemes.

The Minister for Food and Agriculture of the Government of India is the president of the Council.

In general the Council co-ordinates research work, suggests programmes of research, gives financial assistance for approved schemes, and also undertakes schemes of its own.

The annual grants made to I.C.A.R. fall under two main heads:—(a) An annual Government grant for running the administration. This varies from year to year according to requirements, and averages about Rs. 1.35 million a year. (b) Payment of the net proceeds of the cess on agriculture produce. The income from this source is estimated at about Rs. 4.4 million annually.

Besides these, specific grants are made to I.C.A.R. for undertaking certain schemes from time to time. The total estimated expenditure (including the special grant) will be Rs. 5 to 5.5 million annually.

During 1957-58, 720 schemes (agricultural 306, animal husbandry 247, combined 77) were financed by the Council. The expenditure on these amounted to Rs. 9.18, 5.96 and 1.36 million respectively. Rs. 5.6, 4.5 and 7.8 million are provided for these during 1958-59.

In the field of agricultural research, extensive and intensive research was conducted in green manuring of rice, wheat and other crops.

Results proved that in paddy green manure gives the highest yield (31.77 maunds per acre) as against fertilisers which give only 27.21 maunds per acre.

Research in the control of weeds made it possible to prepare a co-ordinated scheme on a model pattern which has been put in operation in Assam, Madhya Pradesh, Bombay, Punjab and Himachal Pradesh.

Several schemes designed to improve the nutrient status of soil were also undertaken. These include soil tests with a view to reclamation of waste land, research on humification of organic matter in relation to physico-chemical properties of soils and a scheme for the standardisation of methods of soil analysis.

For all-round improvement in vegetables, extensive research was conducted in various directions such as hybridisation, agronomic practices and resistance to disease and pests in Punjab, Himachal Pradesh, Uttar Pradesh, Andhra Pradesh, Bombay, West Bengal, Jammu and Kashmir and Delhi.

The vegetables covered were brinjal, tomato, cabbage, cauliflower, bhendi, peas, beans, turnip, gourds and leafy vegetables. Varietal trials were conducted on tuber crops.

Central Committees

A number of Central Committees have been set up to promote the production and marketing of agricultural commodities:

Indian Central Cotton Committee, Bombay.
Indian Central Jute Committee, Calcutta.
Indian Central Tobacco Committee, Madras.
Indian Central Oil-seeds Committee, New Delhi.
Indian Central Coconut Committee, Ernakulam (S. India).

Indian Central Sugarcane Committee, New Delhi.

Indian Central Arecanut Committee, Kozhikode (S. India).

Indian Central Lac Cane Committee, Ranchi (Bihar).

All India Cattle Show Committee, Karnal (Punjab).

A number of research institutes, stations and farms are also maintained by the Central Committees:

The Indian Central Cotton Committee has:

1. Technological Laboratory, Motunga.
2. Institute of Plant Industry, Indore.

The Jute Committee has:

1. Jute Agricultural Research Institute, Barrackpore (West Bengal).
2. Technological Research Laboratories, Tollygunge, Calcutta.

3. Economic Research Station, Indian Central Jute Committee, Calcutta.

The Tobacco Committee has:

1. Central Tobacco Research Institute, Rayachoti.

2. Clear and Cured Tobacco Research Station, Vellore.

3. Kharab and Chewing Tobacco Research Station, Pusa, Bihar.

4. Chewing Tobacco Research Sub-station, Calcutta.

5. Wrapper Tobacco Research Station, Dinahat (West Bengal).

The Coconut Committee has:

1. Central Coconut Research Station, Kavaratti.

2. Central Coconut Research Station, Kanyakulam.

Three regional stations at Thodupuzha, Kumbakonam and Neyyattinkara all in Kerala State. And two more at Rajole in Andhra and Ratnagiri in Bombay.

The Sugar Committee has:

Sugarcane Sub-Station, Karnal (Punjab).

The Indian Central Oil Seeds Committee has two regional centres for research, one at Tindivanam in Madras for the southern region, and the other at Kanpur for the upper India oil seeds.

These Committees are financed by the proceeds of a cess levied on the particular commodity. For instance, for the Cotton Committee there is a cess of Rs. 4 per bale of 400 lb. of cotton; for the Coconut Committee there is a cess of Rs. 6 per cwt. on copra consumed in Indian mills; for the Lac Committee the cess is Rs. 14 per md. of export of lac and Rs. 10 for refuse lac exported; for the Oil-seeds Committee the cess is 1 anna per md. of oil extracted in mills, and annas 2 per md. of oil-seeds.

Research Laboratories

The Ministry of Food and Agriculture maintains directly a number of research laboratories:

1. Indian Agricultural Research Institute, Pusa, New Delhi.

Sub-stations at Karnal (Punjab) and Pusa (Bihar).

2. Central Potato Research Institute, Patna. Laboratory, at Potato Multiplication Sub-division, Bhowali (U.P.).

Laboratory, at Potato Breeding Sub-Station, Shimla.

3. Central Rice Research Institute, Cuttack.

4. Sugar Cane Breeding Institute, Coimbatore. Sub-station at Karnal (Punjab).

5. Central Vegetable Breeding Station, Kulu. P.O. Naggar, District Kangra (Punjab).

Five regional stations for conducting research on fruit and vegetable preservation have been opened in different States of India, one each in Punjab, U.P., Madhya Pradesh, Bombay and West Bengal. This arises out of a recommendation made by the I.C.A.R. Fruit and Vegetable Development Committee. It was recommended that two of these regional stations should be opened in 1957-58 and the other three in 1958-59.

Agricultural Colleges

There are 29 agricultural colleges in India: at (1) Bapatia and (2) Hyderabad (in Andhra); (3) Jorhat (in Assam); (4) Tollyganj (in Bengal); (5) Babour and (6) Ranchi (in Bihar); (7) Anand; (8) Pusa; (9) Nagpur and (10) Akola (in Bombay); (11) Vellayani (in Kerala); (12) Coimbatore (in Madras); (13) Gwalior; (14) Jabalpur and (15) Raipur (in Madhya Pradesh)*; (16) Dharwar and (17) Hebhal (in Mysore); (18) Cuttack (in Orissa); (19) Ludhiana and (20) Amritsar (in Punjab); (21) Jobner and (22) Udaipur (in Rajasthan); (23) Sehore (in M.P.); (24) Allahabad; (25) Banast; (26) Banars; (27) Lakhnau and (28) Kanpur (in Uttar Pradesh); and (29) Delhi. (The Central College of Agriculture) in Delhi Territory.

LAND POLICY

The land policy of the Government of India has been formulated for the promotion of agricultural production and for the provision of social justice in the rural economy. The agrarian reform undertaken by the various State Governments during the past few years fall generally into four broad classes:—

(1) The abolition of intermediaries.

(2) Tenancy reform designed to, (a) Scale down rents to 1/4-1/5 of the produce, (b) to give permanent rights to the tenants (subject to the landlord's right to resume a minimum holding for his personal cultivation within a

limited time) and (c) to enable tenants to acquire ownership of their lands (subject to the landlord's right of resumption for personal cultivation) on payment of moderate compensation to the landlord spread over a period of years.

(3) Fixation of ceiling on holdings.

(4) Reorganisation of agriculture including (a) Consolidation of holdings, (b) Prevention of fragmentation and (c) Development of co-operative village management and co-operative farming.

With the exception of Andhra (Hyderabad) and Punjab no State has so far made provision for regulating the standards of cultivation and management of land and resumption of land in case of failure to maintain these standards. Some of the agricultural legislation in Orissa and Himachal, however, have some provision for this, more or less of an obligatory nature.

ABOLITION OF INTERMEDIARIES

Intermediaries have been abolished practically throughout the country with the exception of a few small pockets. There is no legislation yet for temporarily settled estates in Assam and for certain /nams estates in Madras.

In Orissa legislation for the abolition of intermediaries has not been fully implemented.

The share of the intermediaries who formerly cultivated about 48 per cent of the cultivated area of the country has now been reduced to about 8.5 per cent.

The position with regard to the abolition of intermediaries in the country as a whole is as follows:

	In million acres	Percentage of total area.
Area in which intermediary tenures existed ..	243.8	43
Area in which legislation for the abolition of intermediaries has been passed ..	222.3	40
Area in which the abolition of intermediaries has been effected ..	306.0	38
Area in which intermediaries remain ..	37.8	5

Andhra Pradesh: Intermediaries have been abolished in the former State of Andhra, and *Jafers* have been abolished in the Telangana area. Legislation for the abolition of *inams* (other than religious, charitable and village service *inams*) has been passed.

Assam: Zamindari rights have been abolished over an area of 1.27 million acres, out of 1.7 million acres of permanently settled estates. Subordinate tenures remain as also temporarily settled estates.

Bengal (West): Intermediaries have been abolished.

Bihar: Intermediaries have been abolished.

Bombay: Intermediaries have been abolished in the area covered by the former Bombay State with the exception of religious and charitable *inams*. Intermediaries have been abolished in the Vidarbha and Saurashtra area also. A draft Bill for the abolition of the *jayidari* system in the Kutch area is now under consideration (January 1959).

Jammu and Kashmir: Legislation for the abolition of intermediary interests in land held by occupancy tenants and inferior owners is under consideration.

Kerala: *Mafuzat* estates are abolished. Bills are under consideration for the abolition of intermediary interests in Pandalam (Temple) lands and to acquire the interests of *Jomies*.

Madhya Pradesh: Intermediaries have been abolished in the State except where land is held under *Muzis* and *inams*.

* Also at Sehore in M.P. as shown below.

Madras: Intermediaries have been abolished except in post-1936 *Inams* and minor *Inams*

Mysore: Religious and charitable *Inams* have been abolished in the area of the former Mysore State. Legislation for the abolition of personal and miscellaneous *Inams* has been passed. Proposals for the abolition of *Jagirs* in the Coorg area are under consideration.

Orissa: All *Zamindaris* except a few in the Sundergarh District have been abolished. Some *Inams* and subordinate tenures of intermediary nature however remain.

Rajasthan: Legislation for the resumption of *Jagirs* is under implementation in the former Rajasthan area. Legislation for the abolition of *Zamindaris* and *Bhetti* tenure was passed in December 1954. Legislation for the abolition of intermediaries is in force in the Ajmer area.

Uttar Pradesh: Intermediaries have been abolished (except in the Kumaon Hills where a Bill for this purpose is on hand).

Compensation

Apart from the annual payment to be made to religious and charitable institutions whose Estates were brought under the State, the compensation payable for the acquisition of intermediary rights was estimated at Rs 625 crores (including Rs 9, 86 and 151 crores of rupees for compensation, rehabilitation grants, and for interest payments respectively).

The total amount of compensation paid upto August 1958 is estimated at Rs 89 crores.

The entire position in regard to compensation as in May 1957 is shown by the table below.

States (Pre-organization)	Compensation	Rehabilitation grant	Interest	Total	Amount paid
Andhra Pradesh	90 0	—	—	90 0	33 4
Hyderabad	152 4	—	—	152 4	50 7
Assam	50 0	—	0 3	50 3	0 1
Bengal	140 0	—	140 0	590 0	3 3
Bihar	1 600 0	—	800 0	2 400 0	7 5
Bombay	1 28 9	—	50 0	318 9	1 0
Gauhati	102 0	—	—	102 0	13 0
Madhya Pradesh	48 0	0 4	3 7	52 1	36 4
Madhya Bharat	30 3	36 0	11 9	139 2	27 6
Vindhya Pradesh	10 3	—	4 1	24 0	4 6
Ajmer	14 8	—	1 3	16 7	0 6
Bihar	1 7	—	0 1	0 8	6 0
Mysore	18 0	—	—	53 0	27 6
Orissa	22 0	—	—	14 0	—
Rajasthan	140 0	1 20 0	24 0	105 0	1 4
Uttar Pradesh	600 0	700 0	50 0	1 800 0	20 0
			400 0	1 700 0	445 1
Total	3 701 4	806 4	1 500 0	6 147 8	671 0

The assessment of compensation payment was a complex and difficult task (particularly in States like Assam, Bengal, Bihar and Orissa) due to permanent settlement, non availability of relevant records and also due to the absence of the requisite revenue machinery.

The principles determining the rates of compensation were (i) the total compensation should be financed out of the increase in revenues accruing to State Governments on the abolition of intermediaries and (ii) intermediaries in the lower income groups (who constitute the vast majority) should get a just compensation.

Compensation has been fixed generally as a multiple of the net income accruing to an intermediary at the time of acquisition of his interest which was higher in the case of intermediaries in the lower income groups.

In some States where compensation was fixed as a uniform multiple of net income, a provision was made for payment of rehabilitation grants to intermediaries with small income. Thus in Uttar Pradesh the compensation amount (including the rehabilitation grant) varied between 3 and 24 times the net income and in Bihar between 3 and 20 times the net income.

A considerable part of the compensation amount is payable to small proprietors. Nearly two-fifths of the compensation amount would be payable to intermediaries entitled to Rs 5,000 or less of compensation.

Compensation is payable in cash in Andhra, Bombay, Madhya Pradesh, Madras and Orissa in instalments.

But in Bengal, Bihar, Rajasthan and Uttar Pradesh where the liability was large, compensation took the form of bonds transferable and negotiable in Bihar, Rajasthan and Uttar Pradesh and redeemed in equated instalments (of 15 years in Rajasthan and 40 in Bihar and

The Plan recommendation is that it should not exceed one-fourth or one-fifth of the gross produce.

But the rent fixed however varies with the State.

In the following States the maximum rent is fixed at one-fourth of the gross produce: Assam, parts of Mysore, Orissa, former Hyderabad, the territories of Delhi and Himachal Pradesh.

In the following the maximum is one-sixth: pre-organization Bombay and Rajasthan.

In the following the maximum is fixed at half: former Andhra, West Bengal and Jammu and Kashmir.

In Kerala the agrarian relations Bill before a Select Committee provides for a maximum rent of between one-fourth and one-sixth for paddy lands, and between one-third and one-twentieth for other lands.

In other States the rent is fixed at one third.

The enforcement of laws for the reduction of rent has been difficult as rent regulation cannot be effective unless it is accompanied by security of tenure.

Further regulation of crop share rent is difficult to enforce. Therefore in some States like Andhra and Bombay the maximum rent is fixed as a multiple of land revenue as suggested in the Second Plan.

Security of Tenure: The Second Five Year Plan has recommended that ejectment of tenants and sub-tenants should be avoided except in the case of non payment of rent and misuse of land. A large number of States have already taken steps to protect the tenants by the provision of (i) temporary protection to tenants from eviction till comprehensive Tenancy Act is passed, (ii) fixity of tenure on qualifying basis and also by (iii) allowing resumption by the landlord on a prescribed basis and (iv) giving permanent protection or ownership.

Temporary Protection: Pending enactment of a adequate legislation, ejectment of tenants and sub-tenants have been stayed for varying periods prescribed by law in Andhra, Kerala, Madras, Madhya Pradesh, Manipur, Mysore, Orissa and Punjab.

Fixity of Tenure: A number of States legislated to provide for fixity of tenure and restricted grounds on which landlord could eject them either on a qualifying basis (i.e. tenants holding land for a specified period and or by prescribing conditions for the resumption of limited land by the landlord). Security of tenure on the qualifying basis of occupancy or other conditions have been granted in some States 6-10 years in Andhra, 12 years in Mysore and Bihar, 17 years in Madhya Pradesh and 6-12 years in the Punjab.

Uttar Pradesh. On the other hand in Bengal the bonds were not negotiable and have to be redeemed in 20 years.

TENANCY REFORM

With the abolition of intermediaries the tenures come under two broad categories, i.e. (i) owners who hold land directly from the State, (ii) and the tenants who hold land from owners. Their rights and obligations are regulated under tenancy laws enacted in the States. Thus the multiplicity of tenancy has been considerably reduced, and in the most parts tenants who hold land under intermediaries have now become owners of land.

Scaling down rents: Land revenue assessments: Legislation has been adopted in all States for the regulation of rent.

The following table shows the position about security of tenure.

Position	Area in million acres	Percentage of total
I Complete Security Areas in which landlord is not allowed resumption by ejecting tenants	73 0	9
II Partial Security (a) Area in which landlords' resumption is permitted after leasing a minimum holding to the tenant (b) Area in which a ceiling limit is put on resumable area, but no provision against tenants becoming landless (c) Area in which tenants have temporary protection	278 4	34
III No Security Areas in which no security of tenure exists	103 8	26
	156 0	19
	99 7	12
TOTAL	800 9	100

Resumption: Security of tenure was conferred on tenants subject to landlords' right to resume land for personal cultivation in Bombay, Himachal Pradesh, and Rajasthan. Tenants can retain a minimum holding or a portion thereof, such as half the area in Bombay, $\frac{1}{2}$ in Himachal Pradesh, 5 standard acres in Punjab or a minimum holding with a net income of Rs. 1,200 (exclusive of the cost of the labour and the labour of the family) in Rajasthan. Subject to the above conditions the landlord's right to resume land for personal cultivation is limited to 3 economic holdings (i.e. 12-48 acres) in Bombay, 5 acres in Himachal Pradesh, 20 standard acres in Punjab and the area in excess of the minimum holding to be left with the tenants in Rajasthan.

In other States also a limit has been fixed on the area which a land owner may resume for personal cultivation.

Legislation has been put through in most of the States prescribing a basis for the resumption of the land by the landlords, as shown below: **Assam:** Landlords can resume $\frac{1}{2}$ of the area owned subject to a minimum of $\frac{1}{2}$ acres and a maximum of 33 $\frac{1}{2}$ acres; **Bengal:** Limit on resumption has been placed at $\frac{1}{2}$ of the area owned; **Jammu and Kashmir:** 2-6 acres; **Madras:** Owners with 12 $\frac{1}{2}$ acres of wet land or less can resume for personal cultivation half the area leased, subject to a maximum of 5 acres; and in **Orissa:** Owner has a right to resume an area upto 7 standard acres of wet land or 14 acres of dry land for personal cultivation. But in Bengal with regard to *Bargadars* (crop sharers) the landlord may resume only $\frac{1}{2}$ of the area if it is more than 7 $\frac{1}{2}$ acres, but all, if it is less.

Himachal: $\frac{1}{2}$ upto a maximum of 3 acres; **Andhra:** 3 family holdings; **Mysore:** 50 to 75 per cent; **former Bombay:** $\frac{1}{2}$ upto a maximum of 3 economic holdings; **Hyderabad:** 3 family holdings.

A basis for resumption had to be found to prevent large-scale ejections. In the Second Plan a distinction was made between owners who own a family holding or less and others who own land exceeding a family holding. It was suggested that owners in the former class may be permitted to resume one-half of the area leased, and if thereby a tenant's holding is reduced to less than a basic holding the Government should find extra land for the tenant. About land-owners in the second category resumption is subject to the tenant's right to retain minimum land between a basic and a family holding.

The definition of personal 'cultivation' also presented difficulty. In most State legislation the definition is made specific and comprehensive.

Ownership Right for Tenants: In most States legislation provides for the conferment of ownership right on tenants and in some cases with the option left to the tenants. The right of purchase relates only to areas which a land-owner cannot resume even on grounds of personal cultivation.

In Uttar Pradesh, West Bengal and Delhi all tenants and sub-tenants were brought in direct relation with the State. No compensation was payable by tenants as the State undertook the responsibility for paying compensation to landlords out of the rents recovered from the beneficiary tenants. But in Delhi compensation was recovered from tenants who would be required to pay land revenue to the State.

Restrictions and Conditions: In some States tenants' right to purchase was restricted as follows: **Andhra** (Hyderabad), **Bombay** (Marathwada, Kutch): Only protected tenants were conferred the rights; **Madhya Pradesh** and **Himachal:** Only for occupancy tenants; **Punjab:** Only such tenants of non-resumable areas (in continuous possession for six years) were permitted to buy; **Mysore:** For continuous possession for twelve years; **Bombay:** Only protected tenants. The time limit for purchase was fixed as follows: Where the right to purchase ownership is optional, the tenant can exercise it in time at his discretion. But in

Bombay and Madhya Pradesh (former Madhya Bharat area) the right must be exercised within a prescribed period.

Compensation to Landlords: Compensation payable by tenants for the acquisition of ownership varied from State to State except in the Punjab (where it is fixed at $\frac{1}{2}$ of the average market value), compensation is generally a multiple of rent or land revenue. In **Andhra** (Hyderabad 6-15); **Madhya Pradesh** (Madhya Bharat: 2-3 of the net income of landlord); **Ajmer:** 12; **former Vindhya Pradesh:** 16; **former Madhya Pradesh** (7-10); **Rajasthan** (for unirrigated lands): 10 and **Uttar Pradesh** 10.

In the Travancore part of Kerala it is fixed at eight and a half times the net annual income.

The compensation is fixed as a multiple of the assessment in four States:—**Bombay:** 20-200 times of the assessment; **Delhi:** 20-40; **Himachal Pradesh:** 48 and **Punjab** (PEPSU): 90 times of the assessment. This compensation is generally payable in instalments (except in former Madhya Pradesh) spread over a period of 5-15 years.

The optional right to purchase is seldom exercised. Tenants required persuasion and help. In **Bombay** (Saurashtra) and **Uttar Pradesh** the State Governments had to organise administrative drives to persuade tenants to become owners of land. The State Government (in former Saurashtra) provided even credit facilities amounting to about Rs. 20 million through the Land Mortgage Banks to enable the tenants to acquire ownership rights.

Judged by the amount of land purchased by the tenants and by the number of tenants who acquired ownership, the measures adopted have not produced any significant result. It is evident, tenants do not wish to pay to become landlords unless there are substantial advantages to gain or disadvantages to avoid.

The Second Five Year Plan has recommended that tenants of non-resumable areas should be brought into direct relationship with the State, but the total burden, including land revenue and instalment payments towards purchase price, should not exceed the level of rent recommended in the Plan.

FIXATION OF CEILING

Ceiling on Holding: There is a general movement towards fixing a maximum and minimum on land holdings, as an aspect of land reform. This relates to (1) the absolute amount of land which any individual may hold and (2) the future acquisition of land.

Existing Holding: Legislation was enacted in the following States for the fixation of ceiling on existing holdings:—**Andhra** (Hyderabad): 4 $\frac{1}{2}$ family holdings (18-270 acres); **Bengal:** 25 acres; **Himachal Pradesh:** 30 acres in Chamba (in other areas land assessment at Rs. 125); and **Jammu and Kashmir:** 22 $\frac{1}{2}$ acres.

Punjab: 30 standard acres and for D.P.'s 40 standard acres; **Assam:** 50 acres. But mechanized farms not exceeding 166 $\frac{1}{2}$ acres are exempted.

The legislation is enforced only in **Andhra** (Hyderabad), **Bengal** and **Kashmir**. The Punjab Government has begun implementation of the law to assume management of lands held by owners under personal cultivation in excess of 30 standard acres (50 standard acres for displaced persons). This does not apply to the efficiently managed estates whose break up may lead to a fall in production.

Ceiling has also been applied to lands held by intermediaries in **Madhya Pradesh**, and **Rajasthan** (Ajmer). In **Madhya Pradesh** and **Rajasthan** (Ajmer) it is 50 standard acres.

Future Holdings.—In various States ceiling has been placed on future acquisitions:—**Andhra** (Hyderabad): 3 family holdings (18-180 acres); **Assam:** 50 acres; **Bengal:** 25 acres; **Bombay:** 3 economic holdings (12-48 acres); **Delhi:** 50 standard acres; **Jammu and Kashmir:**

22 $\frac{1}{2}$ acres; **Madhya Pradesh** (Madhya Bharat): 50 acres (and for displaced persons) 40 standard acres; and **Uttar Pradesh:** 30 acres.

Punjab: 30 standard acres and for D.P.'s 40 standard acres.

The idea of ceilings is accepted. Census to collect data have also been held in most States. The ceiling recommended in the Second Plan is three family holdings. To define precisely what a family holding is Government appointed a small group of experts. The group has not yet made its report (Jan. 1959).

As is clear from the foregoing paragraphs legislation exists, the question is really one of implementation.

In view of the discussions that have taken place at the annual session of the party in power, it is likely that the policy will be actively pursued in 1959.

CONSOLIDATION

(a) **Size of Holding:** One of the problems of Indian agriculture is the small size of the average holding and of fragmentation. The average size of a holding for the whole of India is 7.5 acres, but this varies from State to State: **Assam** 5.3 acres, **Bihar** 4.1 acres, **Bombay** 4.8 acres, **M.P.** 13.9 acres, **Madras** 9.7 acres, **Orissa** 5.6 acres, **Punjab** 11.8 acres, **U.P.** 5.3 acres, **W. Bengal** 4.7 acres.

Kashmir 3.8 acres, **Kerala** 2.4 acres, **Mysore** 7.2 acres, **Rajasthan** 16.9 acres.

The majority of the holdings will be less than 5 acres, a great majority indeed less than 2.

The proportion of households that held either no land or less than five acres was about three-fourths, and the total share was about one-sixth of the whole area of cultivated land.

(b) **Consolidation of Holdings:** Consolidation of holding is viewed as a rural development programme, particularly as the prerequisite for optimum land use and food production, for the last two decades. But progress up to so far has been meagre in several parts of the country. The movement towards consolidation of holdings is partly voluntary and partly compulsory. Legislation towards this end has been enacted in the States of **Bombay**, **Madhya Pradesh**, **Punjab**, **Delhi**, **U.P.**, **Jammu and Kashmir**, **Assam** and **Himachal**. Special provision for consolidation of holding has also been incorporated in the Tenancy Acts of **Bengal**, **Bihar**, **Orissa**, **former Hyderabad** and **Ajmer**. Consolidation work has so far been undertaken in **Andhra** (Hyderabad), **Bombay**, **Delhi**, **Himachal Pradesh**, **Jammu and Kashmir**, **Madhya Pradesh**, **Orissa**, **Punjab**, **Rajasthan** and **Uttar Pradesh**. The total area consolidated upto 1956 is about 17.7 million acres as under.

The Second Plan target is 38 million acres. The State plans have a provision of Rs. 3.82 crores for the purpose. The Centre will contribute 50 per cent of the net expenses incurred by each State.

Area consolidated

(In million acres)

States	Upto		Total
	1955-56	1955-56	
Bombay (Pre-reorganisation)	2.12	0.68	2.80
Delhi	0.20	—	0.20
Madhya Pradesh (Pre-reorganisation)	2.89	0.11	3.00
Punjab	6.14	1.18	7.32
Uttar Pradesh	4.30	—	4.30
Total	15.74	1.97	17.71

(b) **Prevention of Fragmentation:** Measures to check sub-division and fragmentation of holdings, relate to putting restriction on partition and transfer below specified limits. Legislation disallowing such partitions has either been enacted or in the process of enactment in the following states. **U.P.** below 6 $\frac{1}{2}$ acres; **former**

Hyderabad below a basic holding ranging from 2-24 acres; Rajasthan below a size to be determined by the State Government; Delhi below 8 standard acres; former Madhya Pradesh below 15 acres; former Bhopal below 15 acres; former Vindhya Pradesh below 5 acres of irrigated or 10 acres of dry land.

Co-operative Farming: The policy is to give encouragement and assistance to farmers to group themselves into voluntary co-operative farming societies.

The ultimate solution of the land problem is co-operative village management.

The Central Government has offered to provide financial assistance towards administrative and advisory staff, and the State Governments have also offered some financial assistance for the purpose.

But, co-operative farming has not made much headway. Before 1955-56 there were 1,135 co-operative farming societies and in 1955-56 1,397. West Bengal: 78; Bombay: 386; Punjab: 347; Rajasthan: 76 and Uttar Pradesh: 108; Bihar: 10; Andhra Pradesh: 45; Assam: 60; Kashmir: 2; Kerala: 18; M.P.: 45; Madras: 26; Mysore: 1; Orissa: 5; Delhi: 17; H.P.: 5; Manipal: 10; Tripura: 10.

The area of land under co-operative cultivation on December 31, 1956 was 1,80,671 acres.

At the end of 1957-58 there were 2,020 co-operative farming societies including joint farming, collective farming, tenant farming and better farming societies.

The number of joint farming societies alone was 1,357 (986 joint, 391 collective).

Following is the State-wise break-up of the co-operative farming societies:—Andhra Pradesh 31; Assam 170; Bihar 27; Bombay 402; Jammu and Kashmir 7; Kerala 55; Madhya Pradesh 140; Madras 37; Mysore 100; Orissa 28; Punjab 478; Rajasthan 105; Uttar Pradesh 255; West Bengal 144; Delhi 22; Manipal 3; and Tripura 12.

During the four years 1954-55 to 1958-59 the Central Government, made grants to the extent of Rs. 3.32 lakhs to State Governments for this work. The State Governments provided assistance for development of co-operative farming societies in various forms, such as loans and subsidies, grant of Government waste lands, concession in land revenue, technical guidance, etc.

The Second Five Year Plan has provided financial assistance amounting to Rs. 138.57 lakhs for the development of co-operative farming.

It is expected that over a period of 10 years, a substantial portion of the agricultural land will be cultivated by co-operative farming.

The National Development Council has recommended that 3,000 co-operative farms should be started during the Second Five Year Plan. There are plans for starting 600 in 1958-59.

The idea is to start with service co-operatives first. It is planned to set up 550,000 service co-operatives in three years, when co-operative farming will begin to spread.

Three regional centres will be set up for training personnel (North and Central, Western, Eastern) in co-operative farming.

Besides co-operative farming, collective farming is undertaken in some States, (i.e. Andhra (Hyderabad), Bombay (Saurashtra), Madhya Pradesh (Bhopal), Mysore (Coorg) and Tripura.

(d) **Agricultural Labour:** About 30-4 per cent of the rural families were agricultural labourers, half of them possessing no land whatsoever, and the other half owning some land. There is tenancy legislation in many States while minimum wages for agricultural workers are fixed in former Ajmer, Delhi, Himachal Pradesh, former Kutch, Patna District of Bihar, Punjab, Coorg and Tripura.

Minimum wages have to be fixed in all States before the end of the Second Plan.

Landless agricultural workers are settled on the Central Mechanized Farm, Bhopal, under a scheme for the settlement of 6,000 families over an area of about 6,800 acres.

Settlement on the Bhopal farm is complete. Here there are 469 families in all, 299 from Bhopal and 200 from Kerala.

At Suratgarh in Rajasthan there is a Russian-sponsored collective farm.

Financial help has been offered to States like U.P. for initial spadework in land utilization such as land reclamation and layout, building tenements, health and social amenities and also administrative staff for the initial stages of 2-3 years. Though the State schemes are not linked up with those on co-operative farming, the purchase, and services in connection with the colonies will be on co-operative basis leaving other aspects to the decision of the colonists. The Second Five Year Plan provided Rs. 150 lakhs for the purpose. But the amount spent was less than Rs. 100 lakhs spent mainly in Uttar Pradesh (in Lakhimpur Kheri and Pilibhit Districts) and in Madhya Pradesh (Bhopal). Small schemes in Andhra, Madras and Mysore also got the support of the Government.

During 1957-58 a loan of Rs. 1,655,000 and a grant of Rs. 487,000 were sanctioned for the States of Assam, Bihar, Kerala, Madhya Pradesh and Orissa for the settlement of 1,185 landless workers on an area of 10,000 acres.

Bhoomis

(See under 'Late Particulars').

The outlay during the Second Plan item-wise is as follows:—

(In million Rs.)

	Centre	States	Total
Agricultural Production	97.0	719.009	816.009
Minor Irrigation	28.0	631.824	659.824
Land Development	50.0	170.205	220.205
Soil Conservation	40.0	155.538	195.538
Warehousing and Marketing	39.0	154.671	193.671
Co-operation .. .. .	...	275.664	275.664
Miscellaneous	6.0	87.598	93.598
Village Panchayats .. .. .	...	150.502	150.502
Local Development Works	150.0	...	150.000
Total Agriculture	530.00	4,197.441	4,727.441
Animal Husbandry	40.00	342.837	382.837
Dairying and Milk Supply	18.00	156.919	177.919
Total Animal Husbandry	58.00	502.256	560.256
Forests	24.00	247.255	271.255
Fisheries	28.00	79.755	117.755
Total (Grand)	650.00	5,026.710	5,676.710

The targets to be attained are an additional production of 18.4 million tons of foodgrains, 2 million tons of sugar, 2.1 million tons of oilseeds, 2.3 million bales of cotton, and 1.5 million bales of jute, over the estimated production for 1954-55 in the First Five Year Plan.

If the Second Five Year Plan targets are realized agricultural production as a whole would increase by about 25 per cent, the increase in the production of foodgrains being nearly 25 per cent, and that of commercial crops about 34 per cent.

AGRICULTURAL PRODUCTION TARGETS OF THE SECOND FIVE-YEAR PLAN

(In million tons)

Commodity	Estimated Production of 1954-55	Targets for the Second F.Y.P. 1955-61	Additional production over 1954-55	Per cent increase in index of production
Foodgrains	65.0	80.4	15.4	24.0
Sugar (gur)	5.8	7.8	2.0	35.0
Oilseeds	5.5	7.6	2.1	37.0
Cotton*	4.2	6.5	2.3	55.0
Jute*	4.0	5.5	1.5	38.0
Other crops* .. .. .	...	...	...	...
All commodities .. .. .	...	...	...	37.8

* In million bales.

FIRST FIVE-YEAR PLAN

The Plan sought to increase the production of food and raw material and transform the village environment and outlook of the rural population.

The outlay was as follows (Rs. in crores):

Agriculture	199.18
Veterinary, dairying	20.68
Forests	11.17
Co-operation	6.38
Fisheries	4.88
Rural development	11.50
Community Projects	90.00
Local Works	18.00
Programme for scarcity affected areas	15.00
Total	373.74

The targets to be attained were additional production of 7.6 million tons of foodgrains, 1.25 million bales of cotton, 2.09 million bales of jute, 0.7 million tons of sugar, 0.4 million tons of oilseeds.

The major and minor irrigation works were to irrigate 19.7 million acres.

SECOND FIVE-YEAR PLAN

In the Second Plan agricultural programmes are intended to provide adequate food to support the increased population and the raw materials needed for a growing industrial economy and also to make available larger exportable surpluses of agricultural commodities.

This is to be effected through various measures including the following :—

(a) **Land Reclamation & Improvements** :—As against 7.4 million acres to be brought under the plough by the Central and State Governments (1.6 million acres by C.T.O., 1.2 million acres by State Tractor Organisation, and 4.6 million acres by the farmers themselves with State assistance) proposed in the First Five Year Plan, during the Second Five Year Plan, 1.5 million acres are to be reclaimed and land improvement measures are to be undertaken on 2 million acres through Central and State Tractor Organisation, farmers and other agencies.

(b) **Soil Conservation** :—The Second Five-Year Plan has provided Rs. 200 million for soil conservation alone as against a total of Rs. 120 million for forest and soil conservation combined provided in the First Five Year Plan. During the Second Plan soil conservation work is to be undertaken in a concentrated manner over 2 million acres of land in areas seriously affected by soil erosion. The programmes include soil conservation measures for two million acres of agricultural land. Measures for the control of shifting sand-dunes are to be undertaken over an area of 0.35 million acres. Measures such as afforestation, fire control in forests, waste lands, contour bundings, etc. are to be undertaken in important river valleys over an area of about 0.35 million acres, in hilly regions over an area of about 0.17 million acres, in ravine lands over an area of 0.15 acres, and in waste lands over 0.1 million acres.

(c) **Seeds** :—Each State will have seed farms for raising nuclear seeds and multiplying them through registered growers, keeping in view the requirements of the entire area to be served by State farms; 12,000 seed farms with a total area of about 95,000 acres are proposed. Co-operative seed stores will be set up at the headquarters of every national extension block

and similar stores for each group of 20 villages. Fertilisers and other agricultural accessories will also be made available in these stores.

(d) **Irrigation** :—As against 19.7 million acres to be irrigated (by major and minor irrigation projects) in the First Five Year Plan, an additional area of 21 million acres (12 million acres from large and medium projects, and 9 million from minor irrigation projects) is proposed for the Second Five Year Plan.

(e) **Fertilisers and Manures** :—The consumption of nitrogenous fertilisers will be increased from 0.61 million tons (in 1955) to over 1.5 million tons during the Second Plan; phosphate fertilisers consumption will also be stepped up. Utilisation of oilcake (non-edible to livestock) will also be increased. Green manuring practice will receive increased attention in the material practices. Larger utilisation of town compost and sewage too will be adopted.

Horticulture

(f) **Fruits and Vegetables** :—About half a million acres of orchards will be rejuvenated in the different States and about 0.2 million acres of new orchards will be laid during the Second Five Year Plan. Vegetable production will be encouraged, particularly in the neighbourhood of towns by organising nurseries and providing seeds and plants to vegetable growers on credit, and by co-operative marketing organisation of food and vegetable growers. Nuclear potato seed production will be taken up in the different potato growing States. Fruit and vegetable preservation will be encouraged by assistance to the canning industry and by setting up cold storage plants, etc. Export of such products will also be encouraged.

(g) **Marketing** :—Compared with only Rs. 7.5 million in the First Five Year Plan, Rs. 60 million have been earmarked by the Centre for marketing, including warehousing. In addition, separate funds are also provided for

a National Co-operative Development Board and an All-India Warehousing Corporation in State plans. The marketing programmes formulated on the basis of recommendations of the Rural Credit Survey Committee include 1,800 marketing co-operative societies, 280 warehouses and over 1,000 regulated markets.

(h) **Plant Protection** :—Plant protection work will be intensified; existing centres will be strengthened and five new centres will be established.

(i) **Research** :—For increasing the tempo of agricultural research in the States and in the Central Institutes and Commodities Research Stations, Rs. 140 million are provided. Agro-economic research will also be intensified, and two more agro-economic centres will be added to the present four.

(j) **Agricultural Education** :—For the training of village-level-workers, in addition to the existing 54 basic agricultural schools and 44 extension centres, it is proposed to establish 25 new basic agricultural schools, 21 extension centres and 16 basic agricultural wings attached to extension training centres. Additional agricultural colleges will be set up where they are needed, as 5,500 agricultural graduates are needed during the Second Plan. Financial assistance will be provided to State Governments for the establishment of four new agricultural colleges and expansion of training facilities in an equal number of existing agricultural colleges in the country. The financial details are, about 1/4th of the non-recurring expenditure will be provided by the Centre as grant, and the balance as loan, subject to a maximum of Rs. 24 million for a new college and Rs. 0.75 million for the expansion of an existing college. The entire recurring expenditure would be the responsibility of the State Governments concerned. They are, however, obliged to reserve a suitable number of seats in their colleges for students from States without agricultural colleges.

CLASSIFICATION OF AREA

(Thousand acres)

States and Territories	Forests		Area not available for cultivation		Uncultivated land excluding fallows		Fallow land		Total cropped area	
	1954-55	1955-56	1954-55	1955-56	1954-55	1955-56	1954-55	1955-56	1954-55	1955-56
STATES										
Andhra Pradesh	12,614	12,992	11,429	10,584	7,788	7,643	7,112	6,563	29,739	30,899
Assam (A)	12,042	12,042	14,077	14,077	3,635	3,635	899	899	6,008	6,008
Bengal (West)	2,087	1,916	2,880	2,831	1,904	1,817	1,596	1,129	14,750	15,317
Bihar	9,126	9,676	5,234	5,084	2,916	3,000	6,196	6,471	23,750	24,498
Bombay	15,214	15,946	19,234	19,329	11,233	10,978	7,640	7,567	69,247	69,910
Jammu & Kashmir	1,400	1,598	1,739	1,672	706	655	403	665	1,849	1,840
Kerala	2,615	2,483	1,033	968	1,017	1,080	443	504	5,233	5,466
Madhya Pradesh	23,675	23,489	11,345	11,461	18,002	18,111	6,082	5,876	42,403	43,322
Madras	4,491	4,488	5,534	5,547	3,863	3,910	3,835	4,205	17,116	18,967
Mysore	6,851	6,288	4,531	4,145	6,657	6,896	3,847	3,879	25,589	25,306
Orissa	8,799	8,799	6,274	6,274	6,486	6,486	3,008	3,008	14,958	14,958
Punjab	836	843	7,753	7,731	2,509	2,381	1,770	1,490	22,157	22,500
Rajasthan	2,433	2,473	16,535	16,233	21,974	21,609	15,182	14,734	29,505	31,006
Uttar Pradesh	5,643	5,713	11,008	10,935	7,613	7,586	3,613	3,638	51,395	51,925
TOTAL STATES ..	121,726	122,501	119,760	118,032	96,348	95,355	61,496	60,318	353,723	360,399
TERRITORIES										
Andaman & Nicobar Islands	37	39	16	16	15	16	2	2	12	15
Delhi	(a)	4	79	85	45	48	11	12	293	322
Himachal Pradesh	400	400	187	189	1,020	1,022	57	45	1,041	1,047
Laccadive, Minicoy and Amindivi Islands	•	•	•	(a)	•	(a)	•	•	•	7
Manipur	37	37	(b)	(b)	91	91	(a)	(a)	218	218
Tripura	1,674	1,673	96	96	469	447	46	37	557	544
TOTAL TERRITORIES	2,046	2,063	218	236	1,641	1,624	116	96	2,199	2,176
TOTAL INDIA ..	123,774	123,564	120,078	118,268	97,989	96,979	61,612	60,414	355,924	362,565

* Not available. (a) Less than 500 acres. (b) Included under forests. (A) Including North-East Frontier Agency.

AREA UNDER DIFFERENT FOOD CROPS

(Thousand acres)

States and Territories	Rice		Wheat		Barley		Maize		Jowar		Bajra		Ragi	
	1954-55	1955-56	1954-55	1955-56	1954-55	1955-56	1954-55	1955-56	1954-55	1955-56	1954-55	1955-56	1954-55	1955-56
STATES														
Andhra Pradesh ..	6,371	6,376	60	77	9	8	475	476	6,145	6,294	1,640	1,579	808	785
Assam ..	4,195	4,217	7	7	—	—	38	38	6,145	—	—	—	—	—
Bengal (West) ..	9,833	10,158	141	155	107	109	117	126	4	4	(a)	(a)	24	24
Bihar ..	12,084	12,209	1,507	1,444	899	778	1,612	1,847	7	8	9	10	374	348
Bombay ..	4,082	4,005	2,850	3,217	36	36	504	548	17,736	17,258	9,578	8,807	638	669
Jammu & Kashmir ..	452	469	275	275	50	50	283	293	3	1	31	31	—	—
Kerala ..	1,941	1,944	(a)	—	—	—	1	1	12	12	1	1	11	10
Madhya Pradesh ..	9,363	9,417	5,716	5,976	410	415	1,013	1,034	5,350	5,183	517	529	36	35
Madras ..	5,266	5,251	4	4	1	1	16	16	1,771	1,777	1,338	1,399	948	948
Mysore ..	2,293	2,298	666	870	11	9	27	32	6,399	6,501	1,389	1,315	2,021	1,976
Orissa ..	9,518	9,403	13	13	1	1	62	61	17	17	11	11	305	304
Punjab ..	654	674	4,434	4,609	617	497	948	985	722	700	2,446	2,681	20	20
Rajasthan ..	157	169	2,069	2,310	1,274	1,339	1,341	1,292	2,748	2,690	8,042	7,940	(a)	(a)
Uttar Pradesh ..	9,090	8,928	9,295	9,875	4,308	4,813	2,594	2,379	2,506	2,224	2,864	2,768	483	468
TOTAL STATES ..	75,209	75,508	27,127	24,832	8,223	8,056	9,031	8,628	43,420	42,066	27,936	26,971	5,648	5,585
TERRITORIES														
Andaman & Nicobar Islands ..	7	9	—	—	—	—	—	—	—	—	—	—	—	—
Delhi ..	2	1	67	70	13	12	4	3	26	55	47	54	—	—
Himachal Pradesh ..	110	111	322	322	73	77	276	278	—	—	(a)	(a)	43	42
Laccadive, Minicoy & Amindivi Islands ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manipur ..	217	217	1	1	—	—	(a)	(a)	—	—	—	—	—	—
Tripura ..	404	407	—	—	—	—	(a)	(a)	—	—	—	—	—	—
TOTAL TERRITORIES ..	740	745	390	393	86	89	280	281	26	55	47	54	43	42
TOTAL INDIA ..	75,949	76,253	27,517	29,225	8,309	8,145	9,311	8,909	43,446	42,721	27,983	27,025	5,711	5,627

AREA UNDER DIFFERENT FOOD CROPS—(Contd.)

(Thousand acres)

States and Territories	Small Millets		Total Cereals		Gram		Red Gram		Other Pulses		Total Pulses		Total Foodgrains	
	1954-55	1955-56	1954-55	1955-56	1954-55	1955-56	1954-55	1955-56	1954-55	1955-56	1954-55	1955-56	1954-55	1955-56
STATES														
Andhra Pradesh ..	2,931	2,721	14,449	14,316	299	311	422	441	2,955	2,786	3,676	3,538	22,126	21,854
Assam ..	5	7	4,245	4,269	7	7	6	7	173	174	186	188	4,481	4,457
Bengal (West) ..	6	10	10,232	10,346	438	465	57	57	1,536	1,424	2,031	1,949	12,263	12,536
Bihar ..	773	762	17,295	16,203	1,384	1,359	489	382	4,156	3,762	6,009	5,503	23,304	22,406
Bombay ..	1,123	1,100	36,527	35,640	1,361	1,620	1,523	1,517	3,960	3,531	6,744	6,668	43,271	40,308
Jammu & Kashmir ..	17	17	1,111	1,126	9	9	—	—	—	—	9	9	1,120	1,186
Kerala ..	35	34	2,000	2,002	(a)	(a)	9	9	65	55	65	64	2,066	2,066
Madhya Pradesh ..	3,628	3,654	26,043	24,243	3,386	3,500	1,013	997	4,021	4,093	8,422	8,590	34,455	34,838
Madras ..	1,632	1,612	11,028	11,006	4	4	143	149	920	917	1,067	1,070	12,093	12,076
Mysore ..	1,454	1,277	14,260	14,274	377	385	629	662	2,065	2,022	3,101	3,069	17,361	17,347
Orissa ..	117	111	10,044	9,921	59	59	33	35	1,049	1,188	1,140	1,291	11,194	11,201
Punjab ..	24	42	9,865	10,109	5,486	5,678	—	—	604	633	6,490	6,311	16,355	16,419
Rajasthan ..	221	209	15,852	15,949	2,164	2,809	34	30	2,994	2,977	5,196	5,816	21,048	21,765
Uttar Pradesh ..	1,748	1,474	33,404	32,929	6,567	6,573	1,605	1,471	2,825	2,811	10,997	10,876	44,405	43,804
TOTAL STATES ..	13,734	13,030	2,10,348	2,09,276	21,946	22,801	5,944	5,757	27,248	26,378	55,133	54,981	2,65,481	2,64,207
TERRITORIES														
Andaman & Nicobar Islands ..	—	—	7	9	—	—	—	—	—	—	—	—	7	9
Delhi ..	—	—	159	195	81	83	—	—	8	8	89	91	248	286
Himachal Pradesh ..	65	65	889	895	20	18	—	—	56	56	76	76	965	971
Laccadive, Minicoy and Amindivi Islands ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manipur ..	—	—	218	218	—	—	—	—	—	—	—	—	218	218
Tripura ..	—	—	404	407	—	—	—	—	2	2	2	2	406	409
TOTAL TERRITORIES ..	65	65	1,677	1,724	101	101	—	—	66	66	167	169	1,844	1,898
TOTAL INDIA ..	13,799	13,095	2,12,025	2,11,000	22,047	22,902	5,944	5,757	27,309	26,441	55,300	55,100	2,67,325	2,66,100

AREA UNDER OILSEEDS

(Thousand Acres)

States & Union Territories	Groundnut		Sesamum		Rape & Mustard		Linseed		Castor Seed		Total Oilseeds	
	1954-55	1955-56	1954-55	1955-56	1954-55	1955-56	1954-55	1955-56	1954-55	1955-56	1954-55	1955-56
STATES												
Andhra Pradesh	3,067	3,041	708	674	2	2	74	89	902	886	4,753	4,692
Assam	—	—	14	14	290	290	3	3	4	4	311	301
Bengal (West) .. .	—	—	11	11	205	224	80	90	—	—	296	325
Bihar	—	—	63	44	234	190	246	232	30	29	573	495
Bombay	5,139	4,447	892	739	73	71	525	549	220	314	6,849	6,120
Jammu & Kashmir ..	—	—	—	—	50	60	14	14	—	—	64	74
Kerala	36	37	50	47	(a)	(a)	—	—	(a)	(a)	86	84
Madhya Pradesh ..	810	654	1,223	1,106	322	384	1,232	1,293	21	20	3,608	3,407
Madras	1,772	1,772	890	874	2	2	—	—	35	34	2,189	2,162
Mysore	2,108	2,050	213	220	13	12	118	116	119	114	2,571	2,512
Orissa	61	61	257	253	126	126	26	26	53	53	523	519
Punjab	136	134	64	65	631	669	28	28	—	—	859	896
Rajasthan	126	105	1,324	982	532	622	167	167	3	3	2,152	1,879
Uttar Pradesh ..	291	283	1,292	1,197	3,520	3,649	839	815	7	5	5,949	5,949
TOTAL STATES ..	13,547	12,584	6,490	5,726	6,000	6,241	3,352	3,422	1,394	1,462	30,783	29,435
TERRITORIES												
Andaman & Nicobar Islands ..	—	—	—	—	—	—	—	—	—	—	—	—
Delhi	—	—	—	—	5	2	—	—	—	—	5	2
Himachal Pradesh ..	1	—	2	2	9	9	2	2	—	—	14	14
Laccadive, Minicoy & Amindivi Islands ..	—	—	—	—	—	—	—	—	—	—	—	—
Manipur	—	—	—	—	—	—	—	—	—	—	—	—
Tripura	—	—	9	10	11	10	—	—	—	—	20	20
TOTAL TERRITORIES ..	1	—	11	12	25	21	2	2	—	—	39	36
TOTAL INDIA	13,548	12,584	6,501	5,738	6,025	6,262	3,354	3,424	1,394	1,462	30,822	29,471

AREA UNDER CASH CROPS

(Thousand acres)

States & Union Territories	Sugarcane		Tobacco		Cotton		Jute		Mesta	
	1954-55	1955-56	1954-55	1955-56	1954-55	1955-56	1954-55	1955-56	1954-55	1955-56
STATES										
Andhra Pradesh	176	174	308	318	1,218	1,195	—	—	179	189
Assam	60	64	24	23	35	35	232	780	3	5
Bengal (West) .. .	57	61	41	40	(a)	(a)	551	780	141	199
Bihar	327	379	28	36	12	11	270	270	31	45
Bombay	213	220	211	254	9,908	10,869	—	—	90	96
Jammu & Kashmir ..	3	3	—	—	—	—	—	—	—	—
Kerala	17	17	(a)	(a)	19	22	—	—	—	—
Madhya Pradesh ..	71	76	14	16	2,356	2,324	—	—	22	21
Madras	126	122	38	39	823	921	—	—	1	1
Mysore	112	155	103	106	2,449	2,798	—	—	39	38
Orissa	59	59	11	11	25	25	87	111	21	23
Punjab	414	452	7	7	1,189	1,282	—	—	1	1
Rajasthan	53	64	13	16	509	590	—	—	—	—
Uttar Pradesh ..	2,292	2,620	44	49	120	136	34	33	—	—
TOTAL STATES ..	3,980	4,430	842	917	18,663	20,208	1,224	1,561	528	618
TERRITORIES										
Andaman and Nicobar Islands ..	—	—	—	—	—	—	—	—	—	—
Delhi	5	7	1	1	1	1	—	—	—	—
Himachal Pradesh ..	3	3	2	2	(a)	(a)	—	—	—	—
Laccadive, Minicoy & Amindivi Islands ..	—	—	—	—	—	—	—	—	—	—
Manipur	—	—	—	—	—	—	—	—	—	—
Tripura	6	6	1	1	20	21	19	20	—	—
TOTAL TERRITORIES	14	16	4	4	21	22	19	20	N.A.	—
TOTAL INDIA	3,994	4,446	846	921	18,684	20,230	1,243	1,581	528	618

(a) Less than 500 acres.

AREA UNDER SPICES, CONDIMENTS AND PLANTATION CROPS

(Thousand acres)*

States & Union Territories	Pepper		Ginger		Chillies		Tea		Coffee		Rubber	
	1954-55	1955-56	1954-55	1955-56	1954-55	1955-56	1954-55	1955-56	1954-55	1955-56	1954-55	1955-56
STATES												
Andhra Pradesh	—	—	12	18	441	436	—	—	(a)	(a)	—	—
Assam	—	—	—	—	8	8	235	236	—	—	—	—
Bengal (West)	—	—	12	12	16	17	195	195	—	—	—	—
Bihar	—	—	—	—	50	41	1	1	—	—	—	—
Bombay	—	—	10	13	332	339	—	—	—	—	—	—
Jammu & Kashmir	—	—	—	—	—	—	—	—	—	—	—	—
Kerala	2,080	2,140	250	256	11	10	96	97	26	27	166	168
Madhya Pradesh	—	—	11	22	100	88	—	—	—	—	—	—
Madras	4	4	10	8	156	143	69	69	43	46	2	2
Mysore	59	52	18	19	222	204	5	4	160	167	4	4
Orissa	—	—	15	14	24	24	—	—	(a)	(a)	—	—
Punjab	—	—	3	6	34	69	9	9	—	—	—	—
Rajasthan	—	—	1	2	66	41	—	—	—	—	—	—
Uttar Pradesh	—	—	—	—	8	7	6	6	—	—	—	—
TOTAL STATES	2,123	2,196	343	373	1,578	1,489	766	767	229	240	172	174
TERRITORIES												
Andaman & Nicobar Islands ..	—	—	—	—	—	—	—	—	—	—	—	—
Delhi	—	—	—	—	1	1	—	—	—	—	—	—
Himachal Pradesh	—	—	25	27	1	1	2	2	—	—	—	—
Laccadive, Minicoy & Amindivi Islands	—	—	—	—	—	—	—	—	—	—	—	—
Manipur	—	—	—	—	—	—	—	—	—	—	—	—
Tripura	—	—	—	3	2	2	11	12	—	—	—	—
TOTAL TERRITORIES	—	—	25	30	4	4	13	14	—	—	—	—
TOTAL INDIA	2,123	2,196	368	403	1,582	1,493	779	781	229	240	172	174

* Area of Pepper & Ginger are in terms of 100 acres.

(a) Less than 100 acres.

AREA SOWN UNDER ALL CROPS

(Thousand acres)

States & Union Territories	Net area sown		Area sown more than once		Total area sown	
	1954-55	1955-56	1954-55	1955-56	1954-55	1955-56
STATES						
Andhra Pradesh	27,312	27,899	2,427	2,500	29,739	30,399
Assam	5,118	5,118	865	885	6,003	6,003
Bengal (West)	12,727	12,122	2,023	2,195	14,750	15,317
Bihar	18,979	18,610	4,705	5,898	23,684	24,508
Bombay	66,462	67,092	2,895	2,818	69,347	69,910
Jammu & Kashmir	1,674	1,533	175	307	1,849	1,840
Kerala	4,363	4,477	870	989	5,233	5,466
Madhya Pradesh	38,191	38,564	4,212	4,808	42,403	43,372
Madras	14,354	14,171	2,762	2,796	17,116	16,967
Mysore	24,757	24,379	802	832	25,559	25,211
Orissa	13,854	13,854	1,104	1,104	14,958	14,958
Punjab	17,421	17,794	4,736	5,706	22,157	23,500
Rajasthan	27,325	28,303	2,180	2,703	29,505	31,006
Uttar Pradesh	41,572	41,671	9,823	10,254	51,395	51,925
TOTAL STATES	314,139	316,604	39,589	43,785	353,728	360,389
TERRITORIES						
Andaman & Nicobar Islands ..	12	14	(a)	1	12	15
Delhi	230	217	65	106	295	323
Himachal Pradesh	679	679	362	368	1,041	1,047
Laccadive, Minicoy & Amindivi Islands	—	7	—	—	—	7
Manipur	218	218	—	—	218	218
Tripura	479	481	78	83	557	564
TOTAL TERRITORIES	1,618	1,616	508	558	2,126	2,174
TOTAL INDIA	315,757	318,220	40,097	44,343	355,854	362,563

† Including North-East Frontier Agency.

(a) Less than 500 acres.

* Not known.

LIVESTOCK

It is estimated that there were about 307 million total livestock in 1953. Of these the cattle formed about 130 million, buffaloes about 45 million, sheep 33.6 million, goats about 54.6 million, horses, ponies about 1.5 million, other livestock (mules, donkeys, camels and pigs) about 0.7 million and poultry about 97.4 million. India has thus about 19 per cent of the world's cattle, about half the world's buffaloes and about 18 per cent of the goats.

In spite of the large number of livestock, the net value of the livestock products in 1950-51 amounted only to about 16 per cent of the income from agriculture.

Live animals worth Rs.1.642 million and Rs. 0.845 million were exported for food during 1957 and the first eight months of 1958 respectively. The imports during the same period were valued at Rs.1.557 million and Rs.0.384 million respectively. Other live animals (excluding monkeys) worth Rs.14.7 million and Rs.5.8 million were exported for non-food purpose during 1957 and 1958 respectively.

Monkeys have been exported recently on a large scale, namely, 100,330 in 1954-55 valued at Rs. 18 lakhs, 106,236 in 1955-56 valued at Rs.29 lakhs, 1,144,090 in 1956-57 valued at Rs.30 lakhs, 190,844 valued at Rs.127.6 lakhs in 1957 and 62,994 valued at Rs.42.5 lakhs in 1958.

CATTLE

For draught purposes cattle are mainly used everywhere though male buffaloes are important as draught animals in the rice tracts and humid parts of the country. For dairy purposes, the buffalo is important, the milk yield being high and the percentage of butter fat considerably above that in cow's milk.

As for the fodder that is required, only two-thirds in the roughage variety and one-third in the concentrate are available.

Among the well-defined breeds of cattle (26 in all), three broad divisions are: dairy and draught cattle and those that serve a dual purpose.

Milk:—The Sahiwal, the best milk breed, are responsive to environment, have an yield of 4,000 lbs. a year. The Sindhi are also responsive to environment, the Gir in Saurashtra and Rajasthan have an yield of 3,700 lbs. a year.

Dual:—The Gale in Madhya Pradesh are draught animals but also good milkers, 3,000 lbs. The Kangayam in the south and south-east of the country are powerful draught animals of average milk yield. The Kanakre, are essentially draught but have milk potentialities (3,000 lbs.): they belong to Gujarat. The best known in this group are the Haryana (Punjab, 3,000 lbs.), Tharparker (Gujarat and Rajasthan, 3,000 lbs.), and Ongole (Andhra).

Draught:—The Amritmahal (Mysore) are poor milkers; then there are the Hallikar (Mysore).

In the order of the productivity of milk we might arrange the cattle as follows: the Sahiwal, the Kanakre, the Ongole.

The best known breeds of buffaloes (26 in all) are the Murrah, Mili and Ravi buffaloes of the Punjab, the Jafferbadi buffaloes of Kathiawad, Mohana of Gujarat, Nagpuri of Vidarbha and the Surti and Pandharpuri, a type of Nagpuri buffaloes of Bombay State. All except the Nagpuri are noted dairy breeds. Murrah, is adapted to all climates. They also yield on an average about 3,000 lbs. of milk for over 300 days in a year.

Generally speaking, buffaloes provide the Indian farmer with milk and ghee while the cow

is only the mother of the working bullock. The buffalo is therefore better fed and looked after. The average annual milk yield of a buffalo is 1,100 lbs. against 413 lbs. of the Indian cow. Further buffalo milk being one and a half times as rich in fat content as cow milk, is more valued for butter and ghee production. Buffaloes are also better utilizers of coarse fodder and are less expensive to keep.

Experience of Government farms is that by better feeding and management the production of village cows can be increased by 50 per cent, whereas that of the buffaloes can be increased only by 15 per cent. In view of the early maturity of the cow and the greater utility of its males for work, cows have more overall utility, but buffaloes are comparatively economical where there is cheap fodder or free grazing in plenty.

LIVESTOCK DEVELOPMENT

Livestock Development is stepped up through special schemes such as Key Villages, Gosadan, and Poultry Development Schemes.

Under the Key Village Scheme by the end of 1955-56, 146 artificial insemination centres and 555 key village units had been established.

In 1956-57 and 1957-58, 26 and 44 artificial insemination centres and 156 and 264 key village units respectively were established.

In 1957-58 a total of 2,39,210 inseminations and 77,802 natural services were performed. This covered 36 per cent of the adult buffalo and cow population.

Legislation for livestock improvement and control of contagious diseases exists in all States (except in Jammu & Kashmir, Tripura, Rajasthan and U.P.) A total of about 848 bulls and 304 buffalo bulls of recognised breeds were located at the artificial insemination centres established during the first plan. In 1956-57 about 1,024 bulls and 332 buffalo bulls were located.

In 1955-56, 37,502 male cattle and in 1956-57, 50,114 male cattle were castrated. During 1954-55 a scheme for subsidizing and rearing selected calves produced in key village areas were also initiated. During 1955-56, 1,673 calves were subsidised in the States of Andhra, Bihar, Bombay, Madras, Kerala, Madhya Pradesh (Ajmer, Bhopal) and Delhi.

In 1956-57, 1,806 calves were subsidised in all States except Assam, Jammu & Kashmir, Mysore, Orissa, Rajasthan and Himachal Pradesh.

Gosadans.—During the First Five Year Plan, 25 gosadans were established, one in Tripura, two each in Mysore and Rajasthan, three each in Bihar and Punjab, four each in Madhya Pradesh and Uttar Pradesh and six in Bombay State.

During 1956-57, eleven gosadans were established, two each in Bihar, Bombay and Madhya Pradesh and five in Uttar Pradesh.

Fourteen gosadans were established in 1957-58, one each in Andhra, Jammu & Kashmir, Orissa and Rajasthan, three each in Madhya Pradesh and Uttar Pradesh, and four in Bombay.

Six gosadans, one each in Madhya Pradesh, Mysore and Orissa and three in Uttar Pradesh had been proposed for 1958-59.

Old infirm and useless cattle are segregated and sent to gosadans located in remote forests and other waste lands where grazing facilities are not fully utilized. All male stock were castrated before admission into the gosadans. The remains of dead animals such as skins,

hides and hoofs, etc. were to be utilized by setting up a small 'charmalaya' at each centre.

SHEEP

It has been estimated that the number of sheep in the country is about 40 million and that the total quantity of wool produced is 54 million lb. annually valued at Rs. 10.5 million. The yield of wool per sheep varies greatly in different parts of the country. In Punjab, Uttar Pradesh and Rajasthan, the annual production per sheep is estimated at between 3.1 lb. and 4 lb., while in the rest of the States it does not exceed 1 lb. The average for the whole of the country is in the neighbourhood of 2 lb. per sheep per year.

Sheep also supply meat worth about Rs. 120 million every year in addition to pelts and manure. Sheep manure is very much valued among other manures as it contains twice as much nitrogen and potassium as are present in cattle manure. An individual sheep contributes 0.5 to 0.7 tons of manure annually.

India still requires large quantities of wool. About 16 million pounds of wool, tops and yarns costing about Rs. 120 million are imported. At the same time, we export about 38 million pounds valued at Rs. 81 million annually.

A sheep and wool development scheme has now been launched on the lines of the key village scheme for cattle improvement, in 250 centres in different states.

Research in sheep breeding is promoted in three major sheep rearing tracts, viz. Temperate Himalayan, North Indian Plains and in the Deccan Plateaux, to evolve strains of sheep which will yield wool for apparel and also for superior types of carpets.

The major wool clip of the country hitherto, was classed as carpet grade, due to its two primary defects viz. extreme hairiness and the presence of 'kemp'. Investigations have shown that both of these could be eliminated by selective breeding, completely in the case of kemp.

In the Himalayan regions and in the western portions of the Deccan plateau, breeding the imported Merino with the local sheep, has shown great promise. Concerted efforts are being made in the plan period at about 200 centres in the rural areas. Each centre will comprise an ewe population of 2,000 to 3,000 which would be systematically developed as nucleus ram producing flocks. A minimum of a thousand rams are to be produced annually after ten years from each centre. The flock owners will be adequately assisted with selected rams, first aid, wool and sheep marketing arrangements and such like.

GOATS

Goats form an integral part of Indian agricultural economy. The goat is the principal source of meat supply; it also provides manure, skin, hair (Mohair) and milk. There are about 57 million goats in India, which is a fourth of the world's goat population. About a fifth of this is used for milk production. Annually about 17 million goats are in demand for human consumption. About 21.9 million pieces of goat skins and hides valued at Rs. 75 million are produced in India, of which skins worth about 37.2 million rupees are exported. Goats are of active habit and multiply rapidly. Goats, unlike sheep, eat up even vegetation containing high tannic acid content which other animals shun. Rajasthan has the largest goat population followed by Bombay, Bihar and U.P.

The important breeds of Indian goats fall under four broad groups:—Himalayan Goats are found in the hills of Kashmir, Punjab and Uttar Pradesh. These are mostly reared for mohair production and also for meat. There

is also the Pashmari goat of Kashmir which produces an undercoat of very fine variety of hair which goes into the manufacture of shawls. The plain goats comprise some of the best mutton and milch animals. Some of the better known breeds are Marwari, Konor and Jamnapari. The last yield 600 lbs. in a lactation of 250 days. Deccan plateau goats yield small quantities of milk and are mostly reared for mutton.

Results from the Punjab and U.P. have shown that selected goat yield (6 to 8 lbs. milk per day going upto even 12 lbs. in U.P.) on an average about 400 lbs. of milk per lactation of 150 days while a few went upto 700 lbs. and even higher.

POULTRY

Poultry-keeping is an important subsidiary industry of the poorer classes. Indigenous poultry of low grade produce on an average 50 small-sized eggs per year.

Even at a low rate of production, the annual contribution of Indian poultry to the country's economy is not less than Rs. 100 million.

At present, the *per capita* consumption of eggs in India is only four per annum as compared with 400 in U.K., U.S.A. or Denmark.

An improved strain of poultry has been evolved at Isatnagar by selective breeding for ten generations which give an average annual egg yield of 150 and sometimes of 234 of the larger egg type.

Poultry Development.—To stimulate poultry development as a subsidiary industry in the rural areas, a pilot project was approved early in 1955.

33 centres have now been established, and are in different stages of development.

50 and 64 new centres were sanctioned for 1956-57 and 1957-58 respectively. During the Second Five Year Plan five regional poultry farms are being opened in Bangalore, Bombay, Bhubaneswar, Delhi and Himachal Pradesh and 300 demonstration extension centres at a total cost of Rs. 25.81 million.

DAIRYING

Like agriculture dairying is one of the major industries in India as milk and milk products contribute not less than Rs. 6,200 million to the national income.

Despite the large vegetarian population and large number of cattle, the dairy industry is still unorganised. Of 200 million cattle and buffaloes, 72 million or 36 per cent are milch animals (females over 3 years). Milk yield is, however, low: Cow 413 lb. per year, buffalo 1,100 lb. Though buffaloes form only 30 per cent. of milch animals, due to their comparatively high yield, they account for 55.9 per cent of the total milk produced. Buffalo milk has butter fat content 6.5 to 7 per cent. as against 4 to 5 per cent of cow.

Gross production of milk is 20.65 million tons, of which 13.2 million tons are marketed, the rest being used for home consumption or fed to calves. *Per capita* daily consumption of milk and milk products varies from 18-89 oz. in the Punjab to 28.4 oz. in Orissa; average 5.5 oz.

Intensive steps are being taken by most States to improve the cattle, both from the view-point of draught and milk production, and many important schemes have been put in operation. Cattle fairs, milk recording projects, cattle breeding farms, cross breeding with imported bulls did not yield good results in the long run. Only Indian bulls are now used for this purpose.

Financial assistance amounting to Rs. 5 225 million had been sanctioned by the Government of India for the various State dairy schemes for 1957-58.

This includes: (a) extension of milk supply to cities viz Chandigarh, Bissar, Agra, Gorakhpur, Gaya, Agartala Karjat, Sholapur, Bangalore and Trivandrum, (b) setting up dry cattle farms in Kerala (Punalur) and Madras (Abbhika-pathi), and buffalo dairy farm at Mysore (Kuri-kuppi), (c) expansion of existing dairy institutions in several States, (d) training of technical personnel in Bihar.

Dairy Development Projects working in the various States are—**Andhra:** Milk supply schemes are introduced at Kurnool and Guntur, **Bengal:** In the Calcutta Milk project about 2,000 milch animals were moved from the city to the Hamingghata Milk Colony. The quantity of milk handled increased from 600 mds daily in 1956 to 750 mds in 1957. Besides toned milk, flavoured vitaminised milk with one per cent fat is being supplied. **Bombay:** A very large colony has been established at Aarey near Bombay City where about 17,500 animals are housed under the most modern conditions and supply milk to Bombay City. A large dairy of similar nature has been established at Anand with the assistance of UNICEF. Another milk preservation plant (in addition to the one at Anand) is being set up at Rajkot with the same assistance to manufacture milk powder. Milk supply schemes are also working at Poona.

Poona milk supply scheme has been expanded and a new dairy was set up to increase the quantity of milk handled to 500 mds daily. **Bihar:** Co-operative milk unions have been set up in 3 towns.

Patna milk scheme is expanded with New Zealand's assistance under Colombo Plan to handle 250 mds milk daily.

The Delhi Milk Scheme is now under the Union Ministry. A 7,000 md milk treatment plant and four rural milk chilling stations have been included in the expansion programme.

The New Zealand Government offered assistance amounting Rs 10.6 million under the Colombo Plan and also the services of a Dairy Consultant for the purpose. **Madhya Pradesh:** The number of dairy units has increased from 7 to 11.

Madras: A number of co-operative milk supply schemes are in operation. These had reached a daily output of over 29,000 maunds in 1955-56. Further, the State Government advances loans to co-operative societies for the purchase of milch cattle. About 2,740 cattle were purchased in this way in 1955-56.

The milk project scheme at Madras is progressing and steps are being taken to set up a cattle colony. (December 1958)

Mysore: Milk supply schemes are taken up at Dharwar and Hubli; **Orissa:** Eight subsidised dairies have been established so far. **Uttar Pradesh:** There are co-operative milk units in 9 towns with well-equipped dairies where milk collected from rural areas is pasteurised prior to distribution.

In addition to assistance for milk projects in Bengal, Bombay, Delhi and Madras, T.C.M. of U.S.A. offered assistance worth 0.57 million dollars in the form of equipment for two milk plants in Bombay and Trivandrum, three rural creameries in Bihar, Bombay and Madhya Pradesh and one milk product factory in the Punjab, and the services of a dairy consultant and technologist.

Research in dairying is done at the National Dairy Research Institute at Karnal and its southern regional station at Bangalore. This Institute also runs courses in Animal Husbandry and Dairying.

Practical training for the technical personnel required for the various dairy projects are provided at Aarey Colony, Khairi Milk Union and at Hamingghata, Bengal.

ANIMAL DISEASES

The chief diseases that the Animal Husbandry and Veterinary Departments have to deal with are glanders and surra in equines, foot and mouth disease, haemorrhagic septicaemia, black quarter and anthrax in ruminants while tuberculosis, John's disease and contagious abortion are assuming greater importance than in the past. Glanders and surra are both scheduled diseases under the Glanders and Farcy Act. Glanders is incurable but surra can now be successfully treated with Naganol or Antypol. This disease (surra) also affects camels, cattle and dogs and in recent years its importance as a bovine disease has been more widely recognised.

A major scourge affecting Indian cattle is Rinderpest which causes a mortality of about 60 per cent resulting in an annual loss of 0.4 million heads of cattle, valued at about 300 million rupees. The first plan had provided Rs. 1.67 million for Rinderpest eradication. The Second Plan has provided Rs. 13.3 million. Because of the eradication campaign of the past, Kerala and Madras are now free from the disease. But, further north, in Andhra Pradesh, Mysore, and Bombay States the disease is prevalent and a pilot scheme to vaccinate and brand about 12 million cattle and buffaloes has been in operation since October, 1954.

The quantity of vaccine produced during the first plan period (October 1954 to March 1956) and the number of animals vaccinated were 7.6 million doses and 5.7 million animals respectively. During 1956-57, 10.573 million doses of vaccine were produced and 5.46 million animals were vaccinated. In 1957-58, 20.11 million doses of vaccine were produced and 14.438 million animals were vaccinated.

Of the diseases of ruminants mentioned, all, with the exception of foot and mouth disease, can now be controlled either by means of sera or by vaccines.

Indian poultry are also subject to several contagious diseases.

According to the FFYP, 650 veterinary dispensaries were established. During 1955-56, 192 dispensaries (including 13 mobile units) were set up.

Research and Educational Institutions

The Chief Research Centres under the Central Government are:—Indian Veterinary Research Institute is situated at two places in Uttar Pradesh, Isatnagar, and at Mukteswar near Bareilly. They undertake both research and training.

The Institute supplies the veterinary demands of the whole of India for sera and vaccines and except for two minor institutions (one in Madras and the other in Mysore), it is the only source in India for these products. The present output of these products meet only 1/3rd of the demands. Recently on the advice of a foreign expert in the manufacture of Biological Products through modern methods, steps are being taken to modernise the equipment and processes.

Similarly, Research in Dairying is done at the Indian Dairy Research Institute, Karnal (Punjab) and at its southern regional station at Bangalore (Mysore). The Indian Dairy Research Institute is the principal educational and research centre in the country in Dairy Science. The Institute gives courses in Animal Husbandry and Dairying.

There are fourteen Veterinary Colleges in India, one each at Gwalior, Patna, Calcutta, Bombay, Mathura, Hyderabad, Madras, Bikaner, Bapatla, Mhow, Cuttack, Trichur and Jabalpur.

LIVESTOCK STATISTICS

The following table shows the estimates of livestock population for 1956 :

(In thousands).

Area	Cattle	Buffaloes	Sheep	Goats	Horses & Ponies	Other Livestock	Total Livestock	Poultry
STATES								
1. Andhra Pradesh	10,958	5,743	7,428	3,601	96	708	28,534	14,058
2. Assam	5,247	478	82	1,108	16	306	7,182	8,712
3. Bengal (West)	11,587	772	667	5,298	30	345	18,699	13,189
4. Bihar	14,331	3,387	990	6,422	119	709	25,958	8,600
5. Bombay	20,231	5,427	4,000	7,155	245	407	37,465	10,548
6. Jammu & Kashmir	1,757	374	1,465	814	94	2	4,508	2,168
7. Kerala	2,586	515	100	918	2	125	4,196	6,768
8. Madhya Pradesh	22,560	4,995	898	5,220	253	425	34,351	5,383
9. Madras	9,859	2,066	7,173	3,965	19	569	23,651	10,153
10. Mysore	8,997	2,642	4,151	2,806	42	254	18,692	7,899
11. Orissa	8,036	884	679	1,924	6	114	11,643	5,225
12. Punjab	5,943	3,852	1,184	1,871	100	445	13,375	1,411
13. Rajasthan	12,127	3,452	7,373	8,734	113	700	32,499	461
14. Uttar Pradesh	22,938	9,781	1,903	6,258	352	1,416	42,648	2,178
TERRITORIES								
1. Andaman & Nicobar Islands	5	6	•	4	•	14	29	57
2. Delhi	120	115	7	22	7	35	306	71
3. Himachal Pradesh	1,171	219	633	596	5	6	2,632	53
4. Laccadive, Minicoy & Amindivi Islands	•	•	•	•	•	•	•	•
5. Manipur	143	17	†	6	1	36	203	•
6. Tripura	317	41	3	109	1	41	512	355
TOTAL INDIA ..	158,863	44,766	38,666	56,623	1,503	6,657	307,083**	97,372

* Not known. † Less than 500.

** Includes poultry.

FOOD

THE areas covered by the Punjab and the former Vindhya Pradesh (now part of Madhya Pradesh) are generally surplus in wheat.

The areas covered by the following States are generally surplus in rice: Orissa, Madhya Pradesh, Andhra, Punjab

From the point of view of food generally the position is roughly as follows:

Surplus areas: Madhya Pradesh, Punjab, Orissa, Andhra.

Self-sufficient areas: U P, Rajasthan, Madras, Mysore

Deficit areas: Bombay, Himachal Pradesh, Bihar, West Bengal, Kerala.

PRODUCTION

Total foodgrains production in the country was as follows: (figures in million tons) 1950-51: 50; 1951-52: 51.17; 1952-53: 58.27; 1953-54: 68.72; 1954-55: 66.60; 1955-56: 65.3; 1956-57: 68.7; 1957-58: 62.0.

The following are the comparative production figures of rice, wheat and barley during 1955-56 to 1957-58:

(000 tons)

Year	Rice	Wheat	Barley*
1957-58 ..	24,821	7,654	2,175
1956-57 ..	23,282	9,314	2,827
1955-56 ..	24,821	8,622	2,175

The production of gram in 1957-58 was 4.8 million tons, and of maize 3 million tons.

For 1958-59 the production of rice is expected to be about 29 million tons.

State-wise details of production in 1957-58 (in 000 tons) are as under:—

Andhra Pradesh 6,142; Assam 1,626; Bengal (West) 4,543; Bihar 3,683; Bombay 7,671; Jammu and Kashmir 376; Kerala 902; Madhya Pradesh 6,047; Madras 4,760; Mysore 3,378; Orissa 2,114; Punjab 5,244; Rajasthan 3,908; Uttar Pradesh 11,136; Andaman and Nicobar Islands 3; Delhi 36; Himachal Pradesh 230; Laccadive, Minicoy and Amindivi Islands (Not known); Manipur 107; Tripura 120.

The index of production of foodgrains for three years is as follows (1949-50 = 100):—

1950-51: 90.5; 1955-56: 115.3; 1956-57: 120.3, 1957-58: 107.3 (final estimates).

The index for rice, wheat, jowar, bajra, maize, ragi, small millets (1949-50 = 100):

	1955-56	1956-57	1957-58
Rice	114.2	119.1	104.5
Wheat	131.3	141.6	116.4
Jowar	96.7	105.9	117.7
Bajra	108.3	92.0	113.6
Ragi	119.7	112.9	113.0
Maize	112.3	132.0	134.4
Small Millets	105.1	101.3	90.7
Barley	118.6	120.9	93.0
Cereals	114.9	119.9	108.3
Gram	138.9	163.2	123.9
Tur	99.4	106.0	75.7
Other pulses	103.9	92.1	85.9
Pulses	118.4	124.5	100.9

The demand and supply of cereals from 1955 to 1957 :

(000 tons).

										1955	1956 (e)	1957
Production (a)										55,734	54,923	57,245
Procurement Net Imports (b)										15	36	230
(c)										232	551	..
(d)										..	2	..
Opening Stocks in Godowns	States	..	..	..	..	..	..	..	..	754	155	83
	Centre	..	..	..	..	..	..	..	..	556	733	208
	Total	..	..	..	..	..	..	..	..	1,310	908	290
Offtake from Godowns	States	..	..	..	..	..	..	..	..	449	663	1,003
	Centre	..	..	..	..	..	..	..	..	1,161	1,381	1,946
	Total	..	..	..	..	..	..	..	..	1,610	2,049	2,949

(a) Production figures refer to the agricultural year (i.e. July-June) and production under 1956 relates to the agricultural year (1955-56).

(b) Excludes quantities taken over from the State Governments to the Central Reserve.

(c) Shows total supplies out of both the imported cereals and internal surpluses.

(d) Shows separately the supplies out of internal surpluses already included under 'c'.

(e) Figures for 1956 are provisional and subject to revision.

The balance sheet of foodgrains distributed by Governments during 1956 and 1957 was as follows :

(in thousand tons)

	1956	1957
Opening Stock with States	158	82
Procurement	36	230
Net Supplies to States	541	—
Total Availability	735	312
Offtake in States	663	1,003
Transfer of Stocks to Centre	35	—
Stocks with States at the end of the year	79	32
Central Sales during the year	1,367	1,946
Central Reserves at the end of the year	735	208

Issue from Central stocks in 1956 : 7.11 lakh tons rice, 0.81 lakh tons coarse grains

The total subsidy or trading loss on foodgrains issued from central stocks between April 1, 1956 and Dec. 31, 1956 was Rs. 43 crores

IMPORTS (1955-56)

In 1956 upto the end of August, 335,566 tons of rice and 1,536,314 tons of wheat were imported.

The imports of foodgrains over the years were as follows :

(figures in million tons)

1950-2.1; 1951-4.7; 1952-3.9; 1953-2.0; 1954-0.806; 1955-0.7; 1956-1.42; 1957-3.58 1958 programme - 2.78 made up of 1.684 million tons of wheat from the United States, 6.31 lakh tons of wheat from Canada, 5,600 tons of wheat from Australia, 3,372 lakh tons rice from Burma, 6,500 tons of rice from Viet Nam, one lakh tons of sorghum from the U.S. and 25,000 tons of corn from the U.S.

The imports of individual grains were as follows :

(in million tons)

	1955	1956	1957
Rice	0.285	0.325	0.736
Wheat (including barley)	0.435	1.095	2.846
Others	—	—	—
TOTAL	0.700	1.420	3.582

Actually imported in 1956 : 31.73 lakh tons valued at Rs. 120.5 crores (rice 3.90 lakh tons).

The cost of import of foodgrains was as follows :

(figures in crores of rupees)

1950-80.6; 1951-216.8; 1952-209.1; 1953-85.96; 1954-47.02; 1955-33.11; 1956-56.84; 1957-16.218.

Countries from which imports were obtained from 1955 to 1957 with quantity (in million tons) and C & F value (in lakhs of rupees) were as follows : The figures are provisional :

Country	1955		1956		1957	
	Quantity	Value	Quantity	Value	Quantity	Value
U.S.A.	0.129	—	0.423	—	2.866	—
Australia	0.306	—	0.617	—	0.161	—
Argentina	—	—	—	—	—	—
Canada	—	—	—	—	0.011	—
U.S.S.R.	—	—	0.40	—	—	—
Pakistan	—	—	0.020	—	0.012	—
Burma	0.285	—	0.274	—	0.509	—
Viet Nam	—	—	—	—	0.007	—
China	—	—	0.046	—	0.014	—
TOTAL	0.700	33.11	1.420	56.34	3.582	16.218

Countries from which imports of individual grains were made in 1957 were as follows :
(in thousand tons)

	Wheat	Rice	Millet
China	—	14	—
U.S.A.	2,674	194	—
Australia	161	—	—
Burma	—	509	—
Viet Nam	—	7	—
Pakistan	—	12	—
Canada	11	—	—
TOTAL	2,846	736	—

The foreign exchange expenditure on import of foodgrains and the total cost of the imports available for the financial years are as follows :

(Rs. million)

Year	Total landed value of imports	Foreign Exchange expenditure
1956-57	1,110	480
1957-58	1,970	280
1958-59	1,110	280
(Budget estimates)		

The Plan provided for an import of 6 million tons of foodgrains costing about Rs. 480 million a year.

The value of foodgrains imported from abroad from April 1, 1956 to Sept. 30, 1956 was Rs. 296.64 crores. The expenditure incurred in foreign currency was Rs. 98.74 crores.

PRICE LEVEL

The movement in the price of some items is shown by the following table of index numbers of wholesale prices:

	1956		1957		1958
	January	December	January	December	January
All commodities	95.8	107.9	107.2	107.0	106.0
Food Articles	89.4	104.8	108.2	104.0	123.5
Cereals	80.0	97.0	98.0	98.0	97.0
Pulses	76.0	87.0	86.0	80.0	80.0
Rice	77.0	83.0	81.0	102.0	101.0
Wheat	85.0	94.0	94.0	86.0	86.0
Jowar	88.0	127.0	119.0	109.0	108.0
Bajra	98.0	123.0	132.0	117.0	114.0
Ragi	80.0	97.0	97.0	100.0	103.0
Gram	87.0	77.0	78.0	73.0	64.0
Arhar	85.0	82.0	83.0	86.0	74.0

The price position was difficult June to Sept. 1958.

STATE TRADING

A notable decision made by the National Development Council at its meeting in 1956 January is that the State should take over the wholesale trade in foodgrains.

Detailed plans were still being worked out when the article was prepared (February 1959).

1958—A REVIEW

Production figures from 1949 to 1958 show that while there were bad years (i.e., 1950-52), the broad trend of production has been in the upward direction. The index number of production rose from 100 in 1949-50 to 120.6 in 1956-57, an increase of 20.6 per cent.

Production was seriously affected, however, during 1957-58, by drought in the central and north-eastern parts of the country particularly in Assam, Bengal, Bihar, Orissa, eastern U.P., Madhya Pradesh, and Rajasthan.

The production of rice during the 1957-58 season, therefore, decreased by about 3.46 million tons (the actual production during the year and the previous year being 24.82, and 28.28 million tons respectively). Though this short-fall in the rice production was made up partially by the increase in the production of other cereals especially Jowar and Bajra, (the production of which had gone up by 1.6 million tons over the previous year), there still was a gap of 4.4 million tons in the production of cereals as compared to the year before.

The shortfall in the production of all foodgrains (including pulses) was of the order of 6.7 million tons or 8.8 per cent.

The quantities of wheat supplied to various States from Apr. 1, 1955 to Jan. 31, 1959 (in '000 tons) are: Andhra Pradesh 25; Andamans and Nicobar 1; Assam 61; Bihar 637; Bombay 388; Delhi 89; Himachal Pradesh 2; Jammu and Kashmir 45; Kerala 4; Madhya Pradesh 107; Madras 71; Mysore 34; Orissa 14; Punjab 44; Rajasthan 66; Tripura 3; Uttar Pradesh 467; and West Bengal 583.

The figures below show the performance in the principal food crops as compared with the targets for 1955-56 (figures are in million tons):

	Target, 1955-56	Achievement	
	1956-57	1957-58	1958-59
Rice	27.2	26.8	24.8
Wheat	8.8	8.8	7.6
Other Cereals	17.0	19.6	20.4
Pulses	9.1	11.6	9.2
	61.6	66.7	62.0

The food position in the different States was briefly as follows:—

South India (Andhra, Madras and Kerala): The export of rice from the zone was banned after the creation of the Southern Rice Zone in July, 1957. The prices of rice were also stabilised at about Rs. 17-18 per maund in most of the centres. Though, there was some rise in the prices, the prices were lower than the prices generally obtaining in States like West Bengal, Bihar, Bombay, and Uttar Pradesh.

Assam: Assam was cordoned off for rice and no export of rice from the State was allowed. The prices of rice in Assam were fairly steady, though at a high level. The Government distributed both wheat and rice from the Government stocks and the food supply position in the State was on the whole, satisfactory.

West Bengal: West Bengal was cordoned off for rice and the export of rice from the State was banned. The prices of rice were steady though at a high level.

The Government of India agreed to supply 175,000 tons of rice for distribution during 1958. The State Government was also assured that its reasonable requirements of wheat would be met by the Centre. The State itself procured locally about 68,000 tons of rice which also was available for distribution. Over 7,000 modified ration shops functioned in the State through which wheat and rice were distributed. Wheat was released from Central stocks in West Bengal at the rate of 50,000 to 60,000 tons per month and arrangement was made by the State Government to distribute rice at the rate of about 40,000 to 45,000 tons per month. This large-scale distribution of wheat and rice was expected to have a salutary effect on the prices of foodgrains in West Bengal.

Bihar: Bihar was cordoned off for all foodgrains and the Central Government supplied large quantities of wheat and rice for distribution in the State. Over 15,000 fair price shops functioned. The off-take of wheat from these fair price shops went up to almost one lakh tons of wheat per month. In addition, substantial

quantities of rice were distributed. The prices of wheat and rice in Bihar were steady though at a high level.

Bombay: The prices of rice in Bombay were steady though at a somewhat high level. Government distributed substantial quantities of rice in Bombay City and in the districts. The Government also distributed about 30,000 tons of wheat per month in Bombay. The supply position of wheat was quite satisfactory. Roller flour mills in Bombay districts were prohibited from purchasing indigenous wheat and were allotted suitable monthly quotas of wheat from the Central stocks so that the markets were not disturbed.

Madhya Pradesh: After the cordoning off of Madhya Pradesh in December, 1957 into a separate zone for rice, the prices of rice stabilised at a reasonable level. There was no dearth of rice in Madhya Pradesh and the prices of common rice ranged between Rs. 16.75 and 18.50 per maund. The prices of wheat, however, rose considerably and 'pinni' wheat prices ruled from Rs. 17.00 to 19.25 per maund on 5th August, 1958, in different centres. The Government set up fair price shops in Bhopal, Indore, Ujjain and Gwalior, and wheat was issued to retailers direct from the Central Reserve Depots.

Orissa: The supply position was satisfactory and adequate stocks of rice were available. The wholesale prices of common rice ranged between Rs. 14.00 and 18.50, though towards the end the prices began to rise.

Punjab: Punjab was cordoned off both for wheat and rice. The food supply was adequate though trouble existed in the matter of distribution, which almost produced a food crisis, chiefly because of hoarding. About 300,000 maunds of wheat had to be hurriedly imported to fight hoarders.

Rajasthan: Wheat was distributed from Government stocks in Jaipur, Jodhpur, Ajmer, Udaipur, Kota and Bikaner, and certain other areas. Prices tended to rise.

Uttar Pradesh: The export of rice from the eastern districts of Uttar Pradesh (a chronically deficit area) was banned. Under the zonal arrangement, the export of wheat from Uttar Pradesh, as a whole, was already restricted.

The distribution of wheat from fair price shops continued in the eastern districts.

The position in the central and western districts of Uttar Pradesh was also adversely affected by the short-fall in the production of rabi crops. The prices of average quality wheat which ruled at about Rs. 15 per maund in May, touched Rs. 20 per maund towards the end of July in Hapur. The Government, therefore, took the following action: Distribution of wheat was started in the 'KAVAL' towns and other important centres in central and western Uttar Pradesh, and the pace of distribution in eastern Uttar Pradesh was stepped up. There were over 3,000 fair price shops functioning in the State, and it was expected that the off-take of wheat would go up from 50,000 to 60,000 tons per month; and two, the roller flour mills, which had been making large purchases of wheat from the open market were prohibited from making local purchases and were allotted suitable monthly quotas of wheat for supply from Central stocks.

GROW MORE FOOD

For the execution of the various Grow More Food schemes during 1957-58 Rs. 25.97 crores were allotted. Out of this loans amounted to Rs. 23.9 crores and subsidies to Rs. 2.08 crores. It was expected that production would increase by 21.60 lakh tons as a result of the G.M.F. programme.

It is now realised that an increase of agricultural production by 2 to 2.5 per cent per annum achieved so far in the Second Plan period is not sufficient to support a large plan of economic development. The revised targets of agricultural production envisaged an increase in the production of foodgrains to the extent of 15.5 million tons.

This depended for its success particularly on local effort through panchayats and co-operatives, a more intensive employment of manpower resources and the utilisation of local manures.

It was hoped that the irrigation from the new large and medium irrigation projects would be utilised without undue delay, that the minor irrigation programme would be worked as a people's programme and that, to supplement organic manures and green manures, supplies of chemical fertilisers would be available in accordance with the Plan.

These assumptions have not all come true. In terms of production potential, the achievement

in 1956-57 is assessed at 1.3 million tons and in 1957-58 at 2.3 million tons. Thus, over the three years (1956-58), the total increase in production potential may be less than half of the revised target for the Plan period. Along with the decline of 9.8 per cent in food production in 1957-58 on account of unfavourable weather conditions these estimates helped to stress the importance of implementing agricultural production programmes.

The National Development Council which met early in 1959 therefore chalked out a certain plan of action.

One of these was that the co-operative movement should be vastly expanded so that by the end of the Third Five Year Plan all rural families could be covered.

Co-operation might provide the answer to any loss of efficiency resulting from the inability of small farmers to employ certain practices more suited to a pattern of agriculture no longer favoured in India—that of large estates owned by big landlords. If groups of farmers even with small holdings can be induced to co-operate with one another in the use of more modern agricultural practices and equipment not excluding tractors and the like, results now seemingly not possible might be attained especially from the use of service co-operatives.

The party in power has the following programme to increase food production: first a ceiling on holdings; second the setting up of service co-operatives; and third the encouragement of co-operative farming.

The need to put everything conceivable into the promotion of minor irrigation works was also widely recognised. The great river valley projects with their gigantic dams that are going up in several parts of India are undoubtedly an insurance for the future, but the need of the hour is to step up traditional irrigation from wells, tanks and canals with which cultivators have been familiar through many generations.

In the First Plan 9.5 million acres were brought under irrigation through minor works and 6.5 million acres through large and medium irrigation schemes.

In the Second Plan an additional 9 million acres are proposed to be covered by minor schemes and 10.2 million acres by major works.

The quantity of nitrogenous fertilizers used increased during the First Plan period from 0.3 million tons in 1950-51 to 0.55 million tons in 1955-56. The current demand for nitrogenous fertilizers is about 1.5 million tons. This is considerably in excess of available supplies. For the year ending September 1959 there was a foreign exchange allocation of Rs. 11.66 crores for the import of fertilizers.

Special attention is also being given to the development of local manurial resources through assistance to State Governments and local authorities for the processing of town compost or refuse for manurial purposes.

A comprehensive scheme involving the production, multiplication and distribution of improved seed on a nation-wide scale is being implemented. In 1956-57 and 1957-58 more than 1,100 seed farms were set up. In 1958-59 the programme has been further accelerated by allowing larger provision for the purchase of land for seed farms. Efforts are also being made to develop hybrid seeds of certain crops including maize.

Other important developments bearing on the overall drive for more production include plant protection activities and soil conservation work.

During the Second Plan period 2.5 million acres of land are proposed to be contour-banded and a number of centres have been set up in various parts of the country to develop and propagate soil conservation practices. Additionally it is proposed to reclaim 1.5 million acres of land.

The Second Plan target for the production of foodgrains represents an increase of 15.5 million tons over the achievement at the end of the First Plan.

Farming Requisites

The following table shows the position about the supply of farming requisites in 1955-56 to 1957-58—

	1955-56	1956-57	1957-58*
I. FINANCE (in Mill. Rs.)			
Central Loan	..	221.5	229.5
Subsidies	..	34.7	30.2
Total		256.2	259.7
II. LAND MANAGEMENT (in 1,000 acres)			
Waste Land Reclamation			
(a) By States	255.0	207.0	207.0
(b) By C.T.O.	87.0	101.0	80.0
Total	342.0	308.0	287.0
Mechanical Cultivation	51.0	37.0	91.0
Other measures (Soil conservation, etc.)	586.0	428.0	1,216.0
Total	979.0	769.0	1,594.0
III. SEED SUPPLY (1,000 tons)			
Paddy	47	35.0	67.0
Wheat	93	104.0	146.0
Others	4	11.0	35.0
Total	144	150.0	248.0
IV. IRRIGATION			
Sinking new wells and repairing old (1,000 nos.)	41.0	16.1	28.1
Construction of new tanks and repairing old (1,000 nos.)	2.0	1.2	6.7
Construction of tubewells (1,000 nos.)	1.0	1.0	1.5
Other irrigation works (Dams, Channels etc. 1,000 acres)	10.0	604.0	1,460.0
Installation of water lifting appliances in wells (1,000 nos.)	6.0	7.1	9.4
Installation of pumping, etc., on rivers and channels in (1,000 nos.)	5	1.1	4.5
V. MANURE AND FERTILISER SUPPLY (1,000 tons)			
(a) Manures			
Compost and local manure	1,680	2,587	6,440
Green manure	85.0	3.0	10.0
Oil cakes	6.0	13.3	5.0
Bone-meal	0.0	10.2	13.0
Other manures	3.0	-	-
Total	1,792.0	2,613.0	6,468.0
(b) Fertilisers (1,000 tons)			
Ammonium sulphate	356.0	383.0	551.0
Superphosphate	17.0	57.0	77.0
Other fertilisers (mixture different forms of N & P etc.)	33.0	47.0	106.0
Total	406.0	487.0	734.0
VI. PLANT PROTECTION (1,000 acres)	-	3,092	4,494
VII. IMPROVED FARMING (1,000 acres)			
Japanese system of rice cultivation	-	2,374	5,976

* The targets fixed for land reclamation by the C.T.O. for the first three years of the Second Plan were Madhya Pradesh 2.05 lakh acres, Assam 0.06 lakh acres and Bihar 0.16 lakh acres. No targets have so far (Aug. 1958) been fixed in respect of the remaining two years of the Plan.

The grants given to the various States under the Grow More Food Programme for the year 1957-58 are as follows (Rs. in lakhs): Andhra Pradesh Rs. 25.03, Assam Rs. 7.49, Bihar Rs. 72.15, Bombay Rs. 28.41, Kerala Rs. 13.42, Madhya Pradesh Rs. 31.31, Madras Rs. 31.32, Mysore Rs. 20.29, Orissa Rs. 10.34, Punjab Rs. 29.80, Rajasthan Rs. 6.59, Uttar Pradesh Rs. 80.39, West Bengal Rs. 13.02, Jammu & Kashmir Rs. 15.16, Himachal Pradesh Rs. 18.64, Manipur Rs. 0.08, and Tripura Rs. 1.67.

For 1958-59 out of a budget allocation of Rs. 1.164 lakhs, Rs. 802.20 lakhs were paid to seven States and Rs. 31.44 lakhs to Union Territories till Feb. 14, 1959.

RABI CAMPAIGN

A so-called rabi campaign was also organized by State Governments in co-operation with the Central Government for the 1958 rabi season.

The campaign was launched by the President of India in a broadcast to 'kisan brethren' on September 11, 1958. The President urged farmers to use the new techniques that were now available to them.

The campaign was conducted in 8 States—Punjab, Rajasthan, Uttar Pradesh, Madhya Pradesh, Bihar, Mysore, Bombay and Andhra Pradesh—and the Union Territory of Delhi.

An even more extensive campaign, covering all the States and the Union Territories of Manipur, Tripura, Himachal Pradesh and Delhi, was planned for the kharif season 1959. The crops to which special attention would be devoted are paddy, jowar, maize, bajra and ragi.

Some of the important features of the Rabi campaign were: the supply of improved seed and its treatment with sulphur or other insecticides, preparatory tillage of land, application of organic and inorganic manures, proper methods of sowing such as line sowing, use of seed drills, and dibbling where possible, cleaning of irrigation channels, optimum use of water in irrigated areas, timely detection and control of pests and diseases, use of improved harvesting implements, and exchange of improved seed among farmers.

The States paid attention to these and other programmes of work, the State Planning Committees ensuring that these measures were

intensified and that targets were laid down with the objective of increasing production by a specified percentage.

The planning in each State, was done by Campaign Committees comprising the Development Commissioner, the Director of Agriculture, subject-matter specialists, extension officials, registrars of co-operative societies and officers in charge of the agricultural information unit. Wherever necessary, State representatives of the Farmers' Forum and outstanding farmers were added to the team. Similar Committees operated at regional, district and block levels.

In addition to the normal extension staff a large number of qualified personnel employed at present in Governmental institutions (viz., extension training centres, agricultural colleges, basic agricultural schools and rural institutes) were mobilised and organised into effective units. Each group was assigned a suitable block conveniently situated. The State Planning Committee determined the type of activities to be assigned to the groups, including guidance of farmers and sometimes actual physical help, such as, cleaning water channels for which work students were considered suitable, plant protection measures and dibbling of seed in suitable areas. The group was expected to adopt the block not only for one campaign but on a long-term basis. It would be called upon during a specified period to spend a certain number of days assisting the extension workers. The idea was that the group should take a personal interest in the block and consider increased production a matter of prestige.

As far as possible, financial accommodation was to be arranged through co-operative societies or in the shape of taccavi loans.

As already mentioned the States devoted special attention to measures for securing optimum utilisation of irrigation water. In Andhra Pradesh the supply of oil engines, electric motors and loans for sinking wells were expedited. Besides, cleaning of irrigation channels was taken up on a community basis. In P. proposed to construct guls by Naramdas in Bombay, speedy action was ordered to remove silt from channels to improve the working of wells, tanks and bunds, and to grant taccavi loans in the case of private channels which had to be repaired or cleaned. Cultivators in the Punjab were induced to divide their fields into compartments for better utilisation of irrigation water. In Madhya Pradesh demonstrations of improved irrigation practices were carried out on cultivators' fields. As a long-term measure, all the States adopted, on a campaign basis, programmes for the maintenance of old irrigation works and construction of new works.

All the States undertook to mobilise public participation in the campaign. In Andhra Pradesh about 5,000 technical personnel was formed into "teams of helpers". In U.P. camps were set up for the training of 2½ lakh (gram Sahayaks, each of whom was required to adopt improved practices and to induce 10 other cultivators to adopt similar practices. Workers from the Bharat Sewak Samaj, the Farmers' Forum and other organisations were also trained in these camps. Trained village level leaders of Rajasthan were utilised for mobilising mass participation in the campaign. In Bihar, about 60,000 project leaders played an active role in the campaign.

Reports from some individual States are given below.

In the Punjab, where wheat, gram and bajra were selected for purposes of the campaign, 23,63,510 acres out of a total of 43,05,040 acres under *rabi* foodgrains were subjected to intensive measures. About 18,697 maunds of improved seed, 13,103 maunds of treated seed and 10,121 maunds of nitrogenous and phosphatic fertilizers were supplied to cultivators, besides improved implements which included 8,688 soil turning ploughs and 1,260 seed-drills. Short and medium-term loans totalling Rs. 60.72 lakhs were disbursed to help farmers purchase seed, fertilizers, insecticides and implements and to carry out plant protection measures.

Mysore selected gram, wheat, jowar, and summer paddy for the *rabi* campaign. Of the 20.14 lakh acres in which intensive measures were adopted, 2.52 lakh acres were covered by improved seed, and 17.32 lakh acres sown with seed which had earlier been treated to ensure a healthier crop. The State Government also advanced loans totalling Rs. 155.87 lakhs to help cultivators acquire better seed, improved implements and fertilizers.

In the Union Territory of Delhi, where the entire area under *rabi* foodgrains was covered, the Administration distributed 9,200 maunds of improved wheat and gram seed, 5,755 maunds of treated seed, and 960 tons of nitrogenous and phosphatic fertilizers to cultivators. Also, Rs. 9.45 lakhs were disbursed as short and medium-term loans for the purchase of seed, fertilizers and agricultural equipment.

The Andhra Pradesh Government advanced Rs. 21.75 lakhs to cultivators to enable them to purchase agricultural equipment. About 5,568 maunds of improved seed were distributed and an area of 10.56 lakh acres was covered by seed treated prior to sowing. The State Government also distributed 26,072 maunds of fertilizers besides supplying 315 oil engines and motors for improving irrigation facilities. The crops which received special attention were paddy, jowar, wheat, maize, gram and ragi.

FERTILIZERS

The estimated requirements of chemical fertilizers for the year 1958-59 are as follows:—

Nitrogenous fertilizers 15.20 lakh tons; phosphatic fertilizers two lakh tons and potassic fertilizers 0.41 lakh tons.

The estimated requirements of these fertilizers in 1960-61, i.e., by the end of the Second Plan are:—

Nitrogenous fertilizers 25 lakh tons; phosphatic fertilizers nine lakh tons and potassic fertilizers 0.75 lakh tons.

By the end of the Third Plan, i.e., 1965-66, it has been provisionally estimated that fertilizers of the following quantities would be required:—

Nitrogenous fertilizers 50 lakh tons; phosphatic fertilizers 30 lakh tons and potassic fertilizers 2.50 lakh tons.

The quantity of fertilizers imported from April to November, 1958 was 3,24,387 tons in terms of sulphate of ammonia.

The value of the fertilizers was Rs. 13.23 crores of which Rs. 4.04 crores have so far been paid.

The progress made in the implementation of schemes to expand production of chemical fertilizers indicates that by the end of 1961 or early in 1962 the target capacity of 3.8 lakh tons of fertilizers (in terms of nitrogen) would be attained.

This would mean that the production capacity in terms of ammonium sulphate would be about two million tons, nearly five times the present output of ammonium sulphate in the country or six times the present output of the Sindri factory.

The demand, for chemical fertilizers has been rising both from large plantations like tea and coffee, producing foreign exchange earning commodities, and also for food crops, to meet the basic needs of the people.

Indeed fertilizers have still to be imported in substantial quantities to meet this growing demand. In 1957-58 foreign exchange worth Rs. 16 crores had to be spent on imports of fertilizers.

In recognition of these facts, a substantial expansion of fertilizer production capacity was provided for in the Second Plan.

This is being achieved through the expansion of the Sindri factory itself and the setting up of four new large units at Nangal in the north, Neyveli in the south, Rourkela in the east, and at Trombay near Bombay, besides a unit in the

private sector at Varanasi, the expansion of the unit at Alwaye and additional production of fertilizer nitrogen as a by-product in the new steel plants.

The Rourkela fertilizer plant would start production in 1962.

Each of the four units mentioned first will have a capacity for the manufacture of about 70,000 tons of fixed nitrogen per annum.

As a result of larger utilisation of organic wastes, the manure production is expected to increase to 6 million tons by March 31, 1959. Its quality will also improve from the existing 0.4 and 0.5 per cent to 0.8 and 1.0 per cent—these figures representing the nitrogenous element in it.

The night soil compost scheme, which has now been introduced in Madras, Rajasthan, Punjab, Orissa and Mysore, will cover 500 bigger panchayats, for which Central assistance has been given at the rate of Rs. 2,000 per panchayat.

A total number of 2,250 urban centres was also engaged in night soil compost production in the States in 1957-58.

The Central aid to State Governments for development of local manurial resources is available in the form of grants. In 1957-58, a sum of Rs. 19.06 lakhs was sanctioned by the Centre. The provision for 1958-59 amounts to Rs. 35.92 lakhs.

In addition, a loan of Rs. 15.84 lakhs was approved for aiding bigger panchayats in the production of night soil compost.

For making of town compost, Central assistance in 1958-59 amounts to Rs. 35.39 lakhs.

THE FOOD PROBLEM

The present capita net availability of cereals is about 12 to 13 ozs. per day, equivalent to about 1,200 to 1,300 calories.

The per capita consumption in India of all food items in terms of calories compares as follows:—Canada : 3,140; U.S.A. : 3,150; U.K. : 3,270; Japan : 2,110; and India : 1,880.

With the increase in purchasing power and progressive urbanisation, people are changing from coarser foodgrains (viz., jowar, bajra, barley, ragi, etc.) to superior grains (like wheat and rice).

This is evident from the fact that though the gross production of cereals was 49.2 million tons in 1953, the requirement of the country was met by importing only 2.0 million tons of foodgrains (the total gross availability for the year being 51.2 million tons). But in 1957 though the production went up to 57.25 million tons, there was heavy pressure on the supply of foodgrains which caused a steady and steep rise in their prices. About 3.58 million tons of foodgrains had, therefore, to be imported in that year.

Also, in India over 80 per cent of the cultivable land is unirrigated and depends entirely on the vagaries of the monsoon.

Methods of cultivation are primitive. In March 1958 only about 30 lakh acres were under mechanical cultivation schemes.

The political change during the last two decades have also materially affected the food economy of the country. The country used to import about two million tons of rice from Burma.

The creation of Pakistan in 1947 also resulted in the loss of large rice and wheat producing areas.

It may be added here that a study team of food production sponsored by the Ford Foundation consisting of 13 top level specialists in different subjects has arrived in India and started its work at the end of January 1959. It was expected to submit its report by the first week of April.

The Solution

The strategy of the Food Department is (a) to create more or less self-sufficient zones and to segregate heavily deficit areas or other important consuming centres where Government could release adequate stocks of foodgrains from the central reserve, and (b) to take suitable measures against the speculative hoarding of stocks by the trade.

Government created in 1957 separate rice and wheat zones.

The Southern Rice Zone consists of Kerala, Madras, Andhra, and Mysore.

There are three wheat zones, the Northern Wheat Zone, the U P Zone, and the Western Wheat Zone comprising M P, Rajasthan, and Bombay.

The creation of the Southern Rice Zone has helped to meet the problem of chronically deficit Kerala, as the surplus from Andhra Pradesh can now make up the deficit in Kerala and the Zone is, on the whole, surplus in rice. Since the creation of the Zone the prices of rice have shown a tendency to stabilise at a reasonable level.

Similarly, with regard to wheat, in the Northern Wheat Zone, the surplus of the Punjab will cover the deficit of Delhi and the prices of wheat have also stabilised at a reasonable level.

The Government of India have had to distribute annually about 0.15 to 0.2 million tons of wheat in Delhi in the past. After the creation of the Wheat Zones the markets became easier in the other two Zones, viz., the U P Zone and the Western Zone.

Other important restrictions which have been imposed on the movement of foodgrains on a Zonal basis are as follows—(i) *Bihar*, which suffered very heavily in 1958 owing to the failure of both wheat and rice crops, has been cordoned off for all foodgrains. (ii) *Eastern Uttar Pradesh*. Export of rice from the eastern districts of Uttar Pradesh was prohibited. (iii) The following areas were combined off for rice—(a) Assam, Bengal, (b) Madhya Pradesh, Punjab, Delhi, (c) Tripura, (d) Manipur, and (e) Punjab and Himachal Pradesh (movement from Punjab to Delhi is, however, free).

The Anti-hoarding measures adopted by Government in 1957 took the form of (a) Control of Bank Credit, (b) Requisition of stocks at normal prices, and (c) Licensing mills and wholesale trade.

The bank credit squeeze, which was tightened in 1957 continued and the quantity pledged with the banks in 1958 was much less than in 1957.

Power under sub-section (3A) of Section 3 of the Essential Commodities Act, which authorises government to requisition stocks at the average of the prices prevailing during the three months prior to the issue of the notification have been delegated to the State Governments who have exercised them whenever necessary.

The Wheat Roller Flour Mills Control Order ensures that all the roller flour mills in the country are licensed and their purchases regulated and recorded. The wholesalers are also required to submit periodical returns in most of the States to enable the States to keep a watch on the stocks of foodgrains available with the trade.

A fair and equitable distribution of food measured through (a) phased release from Central Stocks, (b) Separate allocation of foodgrains for mills, and (c) sale through fair price shops.

About 2 million tons of foodgrains were released from Central stocks during 1957-58.

State-wise the quantity of foodgrains distributed was as follows (in '000 tons).—Andhra Pradesh (39.4), Assam (77.7), Bihar (610.1), Bombay (561.2), Delhi (73.2), Kerala (190.6), Madhya Pradesh (29.9), Madras (122.4), Mysore (62.3), Orissa (18.0), Punjab (9.9), Rajasthan (20.4), Uttar Pradesh (244.0), West Bengal (798.7), Jammu and Kashmir (89.9), Himachal Pradesh (1.7), Tripura (25.5), Andamans (1.1), and Others (157.2).

Government met the requirements of the flour mills in Andhra, Assam, Calcutta, Bombay City, Bihar, Madras and Mysore. The flour mills in Uttar Pradesh, Madhya Pradesh, Rajasthan, and Bombay districts have been prohibited open market purchase of wheat, and allotted suitable quotas of imported wheat from Government stocks.

Over 41,000 fair price shops function in the country for the distribution of foodgrains. To ensure that the foodgrains issued from fair price shops reach the genuine consumer and to minimise malpractices in their functioning, identity cards have been introduced in Bengal, Bihar and Kerala (to be extended to other States also).

Inspection organisations have also been set up to watch the working of fair price shops.

Another important measure taken to curb speculative activities is the imposition of ban on forward trading in coarse grains and pulses which had a favourable effect on prices and supply.

The Guest Control Orders have been issued in a number of States imposing restrictions on the number of guests that can be entertained at a time. This is to avoid wastage of foodgrains.

The fact that limited stocks of rice are available was impressed on the State Governments and they were asked to conserve the available supplies wherever possible, and to issue wheat instead of rice. A substantial portion of the ration in West Bengal is being supplied, therefore, in the form of wheat.

PROCUREMENT

The Central and State Governments procured foodgrains internally to build up stocks.

In 1956-57, 1,572,700 tons of wheat and 555,100 tons of rice, and in 1957-58, 3,033,100 tons of

wheat and 606,900 tons of rice were purchased internally.

The Government of India procures rice in two important States surplus in rice, i.e., Andhra and the Punjab. The other States surplus in rice are Orissa and Madhya Pradesh.

1958 procurement: 574,000 tons (482,000 rice, 75,000 paddy, 17,000 others).

The Central Government procured 250,000 tons and 104,000 tons from Andhra and the Punjab respectively (rice).

The following State Governments procured rice in their respective areas:—

	Tons
Assam	21,000
Bengal	68,000
Kerala including the rice purchased from Andhra	28,000
Madhya Pradesh	1,600
Mysore	13,000
Orissa	54,000

Small quantities were also procured by the Manipur and Tripura Administrations. Due to a shortfall in production and the consequent rise in prices, no internal procurement was made in wheat.

Reserve stocks of foodgrains built with the Centre and the State Governments amounted to 1.4 million tons.

Rice supplied to States in 1958: 711,200 tons.

Storage godowns of 3.12 lakh tons total capacity were in use in Sept. 1958 for the storage of the national reserve of foodgrains. Construction of godowns of another 2.12 lakhs capacity were to be taken up at any time.

The godowns in use are in Andhra Pradesh, Assam, Bombay, Delhi, Kerala, Madras, Manipur, Tripura and West Bengal.

Godowns are under construction in Bihar, Kerala, Madras, Manipur and Rajasthan.

It may be added that losses occur in storage owing to factors like dryage, difference in methods of weighing, handling and transport, etc. These losses are referred to by the term "unaccounted stocks".

On this basis the losses during the year 1956 were wheat, damaged: 47.56 tons valued at Rs. 20,000, and unaccounted: 86.29 tons valued at Rs. 37,500 and rice, damaged: 108.86 tons valued at Rs. 43,000 and unaccounted: 1,564.25 tons valued at Rs. 9,11,000.

In 1957, the quantity of wheat damaged was 320.99 tons valued at Rs. 1,43,000 and the unaccounted quantity was 145.44 tons valued at Rs. 65,100. The quantity of rice damaged was 311.78 tons valued at Rs. 2,12,000.

NALAGARH COMMITTEE REPORT

At a conference of State Ministers of Agriculture held in Bhrignagar in Oct. 1957 it was observed that delay in the execution of agriculture scheme arose mainly from administrative defects. It was therefore suggested that the Central Government should set up a Committee of experts which should visit four or five States and recommend a model agricultural organization.

A committee was accordingly set up with Raja Surendra Singh of Nalagarh, Adviser on Agriculture Production, Ministry of Food and Agriculture as chairman. Other members were Dr. J. B. Patel, Agricultural Adviser, Ministry of Community Development, Mr. K. Sachidanandham, Deputy Financial Adviser, Mr. J. V. A. Nehemiah, Extension Commissioner, Ministry of

Food and Agriculture and Dr. R. N. Mathur, Deputy Agricultural Commissioner in the same Ministry, member-secretary.

The Committee held its first meeting on 8th March 1958. The States the Committee visited were Assam, Bombay, Bihar, Punjab, Andhra Pradesh, Madras and the Union Territory of Himachal Pradesh.

The terms of reference were: to suggest simplification of administrative and financial procedures to expedite the implementation of production schemes; to suggest a model agricultural organization in the States with delegation of suitable powers at various levels.

The report was made public on 3rd Nov. 1958.

The Committee found during its tour of the States that the agricultural services were suffering from low morale and a sense of frustration arising from the belief that agriculture hardly ever received the attention it deserved. The Committee also believed that agriculture has not received its due share in the national interest as conditions of service are comparatively unattractive. State Governments are found to have become increasingly dependent upon stimulus from the Centre for action even within their own sphere of responsibility.

The Committee has made a number of recommendations. These are: the creation of an All-India Agricultural Service with scales of pay and prospects on a par with the Indian Administrative Service, the restoration of the practice of

training subordinates by senior officers, well-thought-out programmes of work for officers of all grades, less work for field officers, posting of special agricultural officers, in the Irrigation Department to serve as liaison between agriculturists and the State Departments of Agriculture, and a higher status for Development Commissioners than State Departmental Secretaries, and the possible combination of the portfolios of Agriculture and Irrigation in the States in the hands of a single Minister.

Other recommendations are: the separation of the entire organisation for the supply of fertilisers, improved seeds, insecticides, agricultural implements, etc., from the extension and technical functions of the Agricultural Departments and their transference to co-operatives; the maximum delegation of powers at all levels from the Director of Agriculture downwards, the elimination of administrative delays in the execution of Plan schemes and the avoidance of concentration of expenditure during the last quarter of the year.

The State Agricultural Departments have to be organised to handle the growing demands of the farmers "in an efficient manner". Among other things, the department should provide facilities for educating and training to the farmers; demonstrate better methods of cultivation and disseminating knowledge through audio-visual channels, organise farmers so that they can adopt improved techniques of production and work together; find what the farmers' problems are and pass them for solution to the research sections and transmit the solutions back to the farmers.

The agricultural extension agency should concentrate entirely on educating and organising the farmers to produce more. The Departments of Agriculture should deal with techniques and knowledge rather than "trade in supplies".

In order to provide for balanced growth and to enunciate programmes and policies, the State Governments are to examine periodically through a special committee, the structure,

objectives and policies of their Departments of Agriculture. For examining the programmes and policies of the Central Commodity Committees and other agencies dealing with agriculture, a similar committee is to be set up at the Centre.

A small unit at the headquarters of the Director of Agriculture is to be set up for evaluating and assessing the progress of works and schemes. The progress made in extending the recommendations of research sections to field practices should also be evaluated by the heads of research sections. There should be a drive to promote follow-up work through intensified supervision.

A technological balance is urged in planning programmes for different areas to benefit the small non-credit-worthy farmers. Government policies should be geared to the needs of small cultivators and credit facilities should be extended to them "despite the greater risk involved". Self-help programmes constituting the supply of small quantities of nucleus seed to villages, and organising the farmers for multiplying the seed and exchanging it locally, are needed as against the present system of fixing targets State-wise and then breaking them up into district tehsil and village plans. Integrated plans for increasing agricultural production are to be prepared for every village.

Centrally administered godowns situated conveniently in various parts of the country should be opened to receive and store fertilisers for supply to consuming centres. "Payments of interest charges on fertiliser loans advanced by the Centre to the States may also have to be deferred till such time as the fertiliser is actually required for use on the land".

The quota of iron and steel for agriculture should be increased substantially according to State demands and placed at the disposal of State Agriculture Departments which should organise the manufacture of improved agricultural implements for supply through co-operative agencies.

Minor irrigation works costing not more than Rs 10,000 should be handled by the Community Development Agency. Works costing about Rs 10,000 but not more than Rs 80,000 may be handled by the Agricultural Department, and those costing more by the Irrigation Department.

A Works Division should be created within the Directorate of Agriculture, Executive Officers should be relieved of routine administrative and accounts work, an evaluation organisation should be established, and there should be subject-matter specialists at all levels.

The present research programme is inadequate to meet the needs and demands for improved agricultural materials and practices.

There is a clear necessity for establishing major research stations to serve the needs of every agro-climatic region. At least one of the regional stations should be developed into a first-rate post-graduate training institution for research, education and extension.

Agricultural colleges and research institutions should organise separate sections for research and teaching in agricultural education and agricultural economies. Each district should have a vocational school of agriculture, imparting practical training over two years for those who pass the secondary examination. Short duration courses and hostel facilities should be provided for farmers who come for training to the district school.

Closer co-ordination between research, education and extension should be maintained through a system of annual conferences held at the major research stations. Similar meetings should be held at district levels once in three or four months. The talents of retired specialists who settle down in different parts of the country should be utilised by associating them with research institutions or with the local supervision of schemes.

FIVE-YEAR PLANS

For the First Five-Year Plan, the target of additional production potential of foodgrains was fixed at 7.6 million tons. This was to be realised as follows (figures in million tons):

From Major Irrigation 2.01, Minor Irrigation 2.38, Land Reclamation and Development 1.51, Fertilisers and manures 1.15, Improved seeds 0.56, Total 7.61.

The increase in production of foodgrains in 1955-56 over the 1949-50 level was estimated at 10.9 million tons. Of this, the increase in production potential on account of works programmes was estimated at about 6 million tons against the five-year target of 7.6 million tons.

While the general trend of food production during the First Plan would appear to be upward, favourable seasons played a notable part and there were substantial elements of instability despite the evidence of growth of agricultural production.

The experience of the First Plan suggests the need for each State to undertake a critical assessment of the various factors which have operated in relation to its agricultural production trends during the past few years. From the overall production trends of the country as a whole only cautious conclusions may be drawn.

In February, 1955, on the eve of the Second Five Year Plan, the Planning Commission placed before the States the goal of doubling agricultural production within the next ten years. In the letter to the States, the Planning Commission

said "A programme under which every family in a village is offered the assistance needed, in a well-organised manner, with the objective of doubling agricultural production in the country within a period of ten years cannot fail to appeal to the countryside and evoke enthusiasm".

In every village there are progressive farmers whose yields are two or three times those of the rest of the village. If by suitable measures all agriculturists can be assisted to bring up their level of production to those of the progressive farmers, India's food problem can be finally solved.

The target finally fixed was 80.4 million tons as against 65 millions in 1955-56.

If this target is realised the increase in the production of foodgrains would be 25 per cent.

The Plan for each State provides for programmes for utilisation of irrigation facilities, production, multiplication and distribution of improved seeds, especially of paddy, wheat and jowar; use of fertilisers, compost and green manures; spread of Japanese method of cultivation soil conservation, etc.

The Plan provides for the opening of 4,185 seed farms during the Plan period.

The increased food production was to come as shown below (figures in million tons):

From Major Irrigation 3.02, Minor Irrigation 1.86, Fertilisers 3.77, Improved seeds 3.40, Land development 0.84, Improved agricultural practices 2.47, Total 15.46.

The Planning Commission has always stressed that in every village the panchayat and village co-operative should have a programme for the village—which would be made up of all family programmes for which the entire village would be prepared to work. These should be fitted into block and district programmes and through these into State programmes. The Community Development movement is the agency at the disposal of the States for reaching all families in the countryside.

The responsibility of the villages would involve the construction of the field channels needed to utilise the irrigation available from multi-purpose, large and medium purposes and their maintenance in an efficient condition from day to day, the responsibility for maintaining minor irrigation works and tube-wells and for excavating and maintaining field channels; contour-banding, soil conservation and other programmes for dry farming in the dry areas and construction and maintenance of bunds; Producing as a permanent arrangement in the village all the seeds and organic and green manure needed; arranging for the supply of these in kind to those who cannot pay for these in advance, recovering after harvest; Arranging for the distribution of fertilisers received for the village and their supply to the smaller holders on credit in the first instance; Promoting the use of Japanese method of cultivation in all areas suitable for it and other advanced techniques for wheat and other crops which are suggested by the technical departments, and in other ways, work for a diversified agricultural economy.

FISHERIES

THE fishing industry in India offers employment to about a million persons and contributes annually over Rs 60 crores towards the national income.

About 73,400 fishing craft are estimated to be employed.

The estimated annual production of fish is about 12 lakh tons, of which 70 per cent comes from sea and estuarine fishing.

The average catch is about 2,500 lbs per man per year.

About 27,000 tons of fish products, consisting mostly of dry, dry-salted and wet-salted fish, are annually exported to neighbouring countries.

The annual per capita availability of fish in India is estimated to be 3.4 lbs as against 16 lbs in Ceylon, 70 lbs in Burma and 90 lbs in Japan.

It is estimated that 40.5 lakh tons of fish would be needed to meet this country's minimum requirements.

Surveys conducted recently in the Bay of Bengal and Arabian Sea reveal that if only our rich resources are properly exploited this would more than meet the demand. The greatest handicap in the exploitation of the country's fish resources hitherto has been the traditional methods of fishing. The great part of the 70,000 boats and other craft used for fishing cannot operate beyond a few miles.

Experiments in mechanisation of fishing are being conducted since 1948 with the help of assistance received from Norway, U.S.A. and F.A.O.

Some of the steps taken by Government to improve fish production are mechanisation of fishing craft, training centres for fishermen, cold storage facilities, formation of deep sea fishing stations and research at the Central Inland Fisheries Station.

Today more than 400 mechanised boats are operating on Indian coastline. In Bombay the local types of boats are being mechanised. New designs have been evolved for boats in Madras, Kerala and Andhra States. Experiment in improved types of fishing with small power craft are also in progress.

Cold storage facilities exist in Bombay, Mangalore, Calicut, Cochin, Quilon, Trivandrum, Madras and Calcutta. Additional plants are being installed in many other places. Some of these plants have been provided under T.C.M. and Norwegian aid programmes.

A 39-member Central Board of Fisheries has recently been formed by the Government of India to study the problems connected with fisheries research and development and for co-ordination between the Centre and the States.

A Central Fisheries Technological Research Station functions at Cochin in Kerala State.

Under the Second Five-Year Plan a sum of Rs 10 crores is expected to be spent by the Central and State Governments on the development of fisheries. Of this Rs 42 lakhs will be devoted to mechanisation and improvement in fishing craft.

For training fishermen there are centres at Satpat near Bombay, Veral in Saurashtra, Cochin in Kerala and Tuticorin in Madras. New training centres are being opened at Mangalore in Mysore State and at Kakinda in Andhra Pradesh. At these centres batches of 20 candidates are admitted for 6 months training.

The Central Deep Sea Fishing Station at Bombay gives training in modern fishing methods.

In Calcutta the fisheries training centre gives instruction in inland fisheries development. Higher training facilities are under consideration by a special committee appointed by the Government of India.

It is expected that in 1959 India would obtain the services of about 15 fishery experts from FAO for the development of the fishing industry in specific fields.

PRODUCTION

Production is shown by the table below. About two-thirds of the catch are marine-fishes.

'000 tons

Year	Marine	Inland	Total
1950	571	233	804
1951	525	215	740
1952	520	212	732
1953	572	234	806
1954	579	236	815
1955	546	240	786
1956	707	289	996
1957	862	382	1,244

The following table shows the figures by species.

Groups & Species	1955 Metric tons	1956 Metric tons	1957 Metric tons
MARINE FISH			
Flounders, halibuts, soles etc	5,595	9,122	3,687
Cods, hakes, haddocks, etc	3,190	1,708	1,138
Herrings, sardines, anchovies etc	123,970	114,014	292,999
Tunas, bonito, mackerels, etc	64,883	56,831	139,356
Miscellaneous marine teleosteans	271,007	356,015	278,348
Sharks, Rays, skates, etc	20,451	21,856	23,040
Crustaceans	106,626	159,552	136,812
A Total Marine Fish	595,722	718,008	875,420
B Fresh water fishes	243,300	293,562	357,566
C Grand total	839,022	1,012,570	1,232,986

The total landing of marine fish by State is shown below (where available)

		(In metric tons)	
		1956	1957
1	West Bengal & North Orissa	158,42	4,549
2	South Orissa		3,757
3	North Andhra		29,673
4	Central Andhra	52,476	5,499
5	South Andhra		5,290
6	North Madras		20,521
7	Central Madras (Palk Bay)	55,208	13,974
8	South Madras (Gulf of Mannar)		14,097
9	West Madras & South Kerala	133,736	51,420
10	Central Kerala		112,278
11	North Kerala (Malabar)	74,405	176,920
12	Mysore		76,990
13	South Bombay I (up to Ratnagiri)	25,901	11,945
14	South Bombay II (up to Ratnagiri)		51,078
15	Central Bombay	324,127	258,467
16	North Bombay		2,763
17	South-east Saurashtra		24,448
18	South-west Saurashtra	29,792	5,451
19	North Saurashtra		2,508

While fish landing had declined in all the zones of the east coast, they had improved in all the Zones of the west coast, except Bombay Zone where there is a slight decline.

A note-worthy feature is the phenomenal landings in Malabar which were more than twice those of 1956.

BOMBAY STATE

Bombay State has a sea board of more than 1,200 miles extending from Redi (District Ratnagiri) in the south to Lakhapat (Kutch) in the north inclusive of Saurashtra coast. The Inland Fisheries extend to Bhandara District in the East, a crownflight distance of over 600 miles. The total number of fishing villages along the coast is estimated at over 450. The Bombay State Fisheries enjoy a pre-eminent position on the West Coast of India both from the point of view of total production and progress of developmental activities.

Bombay State has a total outlay of Rs 1,10,85,000 for development of fisheries under the Second Five-Year Plan.

Important varieties of sea fish caught along the coastline: Saranga (White Pomfret), Halva (Black Pomfret), Ghol (Jew fish), Dara (Hiant Threadfin), Ravas (Indian Salmon), Kuppa (Tuna), Surmal (Seer fish), Bol (Mullet), Bombil (Bombay duck), Bangda (Mackerel), Mushi (Sharks), Wam (Kels).

Estimated production: about 2,00,000 tons.

Price per ton of fish at present: Rs. 300. The total value of fish caught in this State: Rs. 6,00,00,000.

The number and names of the more important fishing villages and of the fishing grounds:

Greater Bombay: Lower Colaba, Worli, Danda, Versova; **Thana District:** Hasein, Arnala, Uttan, Edwan, Usarni, Satpat, Navapur, Utcheli, Nagaoon, Dattavare; **Surat District:** Umaradi, Kolak, Bular, Kosamba; **Breesh District:** Breesh, Bhadbbut, Kavi; **Amal District:** Madhwar, Kotda, Velan, Okha; **Kolaba District:** Katanja, Versoli, Alibag, Thoronda, Bovidanda, Murad, Bharedkhol; **Ratnagiri District:** Burondi, Dabhol, Jalga, Ratnagiri, Vijaydurg, Jalapur, Malvan, Deobag, Venguria; **Saurashtra:** Veral, Mangrol, Porbander, Navabunder, Jafrabad, and Dhamlej.

Jamnagar, Salaya and Sikka; Navlakhi-Malia; Kutah; Saurbari, Cheval, Kharirohar, Tuna, Ramper, Baughad, Bhadrashwar, Lunl, Bekherdia, Barol, Mundra.

The estimated fishing population: 271,000.

The facilities available for curing, storage and refrigeration, co-operative marketing are:

Several ice factories in the city and also at important fishing centres along the coast.

Annually, some addition to the available cold storage space is being made by extension to the existing plants and establishment of new plants.

A seven-ton ice plant and 30-ton cold storage were erected by the State Government at a cost of about Rs. 1,32,000 and handed over to the Satpati Fishermen's Sarvodaya Co-operative Society for operation. The Society has also been allotted by the Government, refrigeration equipment to increase the seven ton ice making capacity of its existing plant to ten ton and a four ton quick freezing plant and refrigeration equipment for a fish storage, ice storage and quick frozen fish storage received under the T. C. M. Programme of the American Government. It has now attached to it 98 out of the 732 mechanised craft in the State, all of which carry ice aboard their vessels to preserve fish right from the time it is caught.

The ice and cold storage factory at Bedi has been completed (November 1958) and will go into operation shortly.

Construction of ice factories at Veral, Mangrol and Fortbunder are nearing completion. Plans and estimates for construction of ice and cold storage plant at Kandla are under preparation.

Marketing facilities. A new building was put up in 1951 by the Bombay Municipality to cater for the City's fish trade. Lifts are being installed for the convenience of shoppers as the retail sale of fish is on the first floor.

The new market adjoining the original congested market was erected at a cost of about Rs. 8 lakhs. In the fish section space is provided for 250 squatters. Sufficient space is now available to traders to display their products. Two new additional markets one at Grant Road and another at Umarchadi were also constructed during recent years.

Marketing facilities have also been provided at Kankavli and Malvan in Ratnagiri District.

Municipality at Jamnagar was persuaded to build a small fish market at Khoja Naka.

About four times the quantity of fish at present caught in the entire State will be necessary to meet the nutritional requirement of the people.

The quantity available for sale in Greater Bombay to the public was approximately as follows:—

Year	Tons
1951-52	85,849
1952-53	86,385
1953-54	37,812
1954-55	32,034
1955-56	30,072
1956-57	26,000
1957-58	25,000*

West Coast Fisheries (Travancore) Ltd. commenced deep sea fishing operations in Bombay waters in February 1953. It employed trawl nets for deep sea fishing and landed about 94 tons of fish during four voyages. The trawler now conducts fishing operations off Travancore waters. New India Fisheries Ltd., a firm registered under the Company's Act, has recently been permitted by the Government of India to undertake trawl fishing. The firm in collaboration with Japanese enterprises imported four trawlers from Japan and commenced fishing operations in Bombay waters. During the year 1957-58 the company landed 3,285 tons of fish.

GOVERNMENT HELP

Government effort in up-to-date fishing technique, money spent, trawlers gear used, quantity of fish caught: The State Government built the vessel "Tapasa", now renamed the "Mysli" in 1947, at Rs. 65,000 for demonstrating the usefulness of mechanised craft for catching fish.

Two improved types of fishing crafts at a total cost of Rs. 54,000 were also built and allotted to two fishermen's co-operative societies in the State on half subsidy and half loan basis for capture of fish.

Loan of Rs. 10,48,907 and subsidy of Rs. 4,73,195 were granted for mechanisation during 1957-58. Loans of Rs. 30,48,907 have so far been granted to individual fishermen for purchase of boats, nets and other fishing accessories.

Government have received 341 marine engines of different H.P. valued at Rs. 74,569.00 under the T.C.M. Programme of the American Government, which have been allotted to groups of fishermen on loan-cum-subsidy basis. Twine and net making plant has arrived under T.C.M. Programme. The same will be allotted to Bamba Raja Machhimar Sahakari Sanstha.

Number of power-propelled vessels owned by fishermen: 1,004.

Fishermen's Co-operative Societies. There are about 110 fishermen's co-operative societies of which two are apex bodies, engaged in the marketing of dry and fresh fish produced by the affiliated societies and member fishermen.

The main activities of these societies are: affording credit facilities to the members, supply of fishery requisites, running fair price shops for food grains, transport and processing of fish and fishing in rivers, tanks and sea.

Government efforts in educating fishermen:—

Seven fisheries schools have been established in important fishing centres, imparting special training in net making, boat repairing, fish preserving, etc. Ratnagiri District 4, Thana District 1 and Surat District 2.

Two schools have been opened at Bagmanola in Kolaba District and Bhadbut in Broach District respectively.

Adult education centres and backward class cultural centres are also conducted at important fishing centres in Saurashtra and Kutch.

Annual expenditure on these schools: Rs. one lakh.

The Department of Fisheries has also a scheme to train fisher-youths in the operation of power vessels as mechanics and navigators. Under a modified scheme introduced by the Government, facilities are made available to train 20 candidates in the technique of improved methods of fishing. The centre is situated at Verna, B.S.D. and is financed by the Government of India. The duration of each course is six months, the scheme having been sanctioned for three years. Each candidate is paid a monthly stipend of Rs. 50 and food allowance of Rs. 10. A similar centre has also been established at Veral (Saurashtra). So far 183 candidates have been trained under the old and modified scheme.

Besides, the State Government has started a new three months training course to train fisher-youths in handling and operation of marine engines. The trainees are paid a stipend of Rs. 40 per month each. So far 99 candidates have been trained under the three months training course.

Public aquaria: The State Government maintains the Taraporevala Aquarium along the Marine Drive, Bombay. The exhibits include both fresh water and marine forms, found along the coast of the State. Attached to the Aquarium is the Marine Biological Research Station where facilities are available to research students for M.Sc. and Ph.D. degrees. The institute is affiliated to the University of Bombay.

A unit of technical staff consisting of a Research Officer, Biologist and Biochemist, has been provided at the Marine Biological Research Station, Bombay, to intensify research. The station has also been provided with a research vessel by converting the department's vessel M. L. Mysli at a cost of Rs. 34,101.

A Marine Biological Research Station has been established at Ratnagiri.

FRESH WATER FISHERIES

The State being primarily a maritime province stretching along the western coast, fresh water fisheries have shown comparatively less expansion. Nonetheless, efforts are made to import quick growing varieties of baby fish in the State such as *Calla* (*Calla calla*), Rohu (*Labeo rohita*) and Mrigal (*Cirrhina mrigala*) from West Bengal, for their release in perennial waters in the State in larger numbers every year. Large irrigation reservoirs also are being stocked with these varieties so that they may thrive and breed there in course of time. In 1958-59 about 30,00,000 carp fry imported from West Bengal were released in different sheets of water.

Collection of local baby fish for stocking is attempted at several places around Kolhapur, Baroda, Bhandara, etc., and efforts are made in all directions to boost up these less developed fisheries.

Despite the handicaps, the total production of fish from tanks and reservoirs stocked by the department with carp fry imported from West Bengal, and the rivers, is 7,28,000 lbs. valued at Rs. 2,70,000 per annum.

ANCILLARY PRODUCTS

A fisheries technological laboratory has been established at Sassoon Dock, for conducting research on problems relating to ancillary industries like shark liver oil, gelatine, glue, fish meal, etc. To ensure quick and clean extraction of oil a Sharpie's super centrifuge, a fish liver boiler and a steam boiler have been installed. The laboratory also tests samples of shark liver oil from the public for vitamin 'A' content and also samples of dry fish and fish manure for their chemical composition. A Beckman's spectrophotometer has been imported from the U.S.A. for this purpose.

In 1957-58, the output of neat shark liver oil was 3,123 gallons with an average vitamin 'A' content of 15,000 I.U.s/Gm. This low output was due to an unfavourable shark fishing season. The oil when processed, was capable of yielding 383,100 lbs. of Oleum-Vitaminatum of B.P. standard.

Another important by-product of fisheries is fish meal. The departmental laboratory is also well-equipped for the manufacture of edible gelatin and fish glue both for adhesive as well as photo-processing work.

SECOND FIVE-YEAR PLAN

The Department of fisheries of the Bombay State has drawn up a multi-purpose programme for the development of fisheries under the Second Five-Year Plan envisaging a total estimated expenditure of Rs. 1,11,52,500. Starting with the supply of ordinary fishing tackle, the programme envisages provision of marine engines, winches and improved type of boats, curing, refrigeration, transport and marketing facility, training in improved methods of fishing and manufacture of Shark Liver Oil with malt extract and other fisheries by-products. The programme also contains provision for development of pearl fisheries and education research and organisational facilities to the fishermen.

Against the plan ceiling of Rs. 1,11,52,500, the Department was expected to spend a sum of about Rs. 78,00,000 by the end of year 1958-59. During first two years of the plan, a sum of Rs. 51,06,500 was spent registering an expenditure of 105 per cent of the budgeted provision for these years. A sum of Rs. 26,94,270 was

* Reduction due to adverse fishing season.

estimated to be spent during the year 1958-59 over the aforementioned projects.

All the schemes have been started and are progressing satisfactorily. Mechanisation programme of the State has made a great success and has led to increased fish production. Fresh-water fishery has similarly made a marked progress and greater number of carp fry is being stocked each year.

Receipts of the department during the financial year 1957-58, are shown below :—

	Rs.
Fish curing yards	83,407
Fisheries Tech. Laboratory ..	6,90,420
Other receipts	2,13,245
Tarapurvala Aquarium	70,388
Receipts from T. C. M.	25
Receipts in Saurashtra Region ..	2,76,005
Total	13,42,310

The State Government's share under the U.S. operational Agreement No. 5 amounts to Rs. 30 lakhs, to be utilized to procure up-to-date equipment to increase existing supplies of fish and to improve the socio-economic condition of fishermen.

FISH CURING YARDS

During 1957-58 the department maintained 21 yards in Ratnagiri District. Improvement comprising erection of cement concrete platforms, cement superstructure thereon, copious supply of fresh water, etc. which lead to improvement in cured product, have been provided at many of the important yards in the two districts at an approximate cost of Rs. 3 lakhs. A few of the yards still need such improvement. Accordingly it is proposed to provide the aforesaid facilities in the 2nd Five-Year Plan at an approximate cost of Rs. 80,000. During 1957-58 the work of constructing permanent superstructures over the existing cement concrete platforms was completed. Similar work at other yards is in progress.

The transactions at the yards in Ratnagiri District during 1957-58 were as follows :

Quantity of fish let in for curing—1,63,990 mds.

Quantity of salt issued—44,618 mds.

Quantity of cured fish removed—1,25,208 mds.

The total budget allotment for the department for the year 1957-58 was Rs. 1,48,746.

The designation of the department is: Office of the Director of Fisheries, Bombay.

KERALA STATE

Kerala State, the smallest maritime State in India with just over 300 miles of sea coast, contributes to nearly 25-28 per cent of the total sea fish landed in India. Oil Sardines (*Sardinella longiceps*) and the mackerel (*Rastrelliger canagurta*), the two most important shoaling fishes of the west coast contribute to the major fishery of the coast, the third important constituent being prawns. The main types of indigenous fishing crafts are the dug out canoes, catamarans (in the southern region) and plank built boats.

The estimated landing of all fish in the State is about 210,000 tons of which 10,000 tons are contributed by freshwater fishes the rest being sea fishes. At about Rs. 250 per ton, the sea fish is valued at Rs. 5,00,00,000 whereas the freshwater fish at Rs. 400 per ton is valued at Rs. 40,00,000. Though the population of the State is 1,36,00,000 only about 70 per cent of the people are estimated to be fish eaters. At the most only 50 per cent of the total production is utilized for domestic consumption, whereas the balance is exported out of the State and out of India, either in the fresh condition or as cured fish. This includes nearly 3,000 tons of Prawn Pulp exported to Burma and Singapore and nearly 450 tons of frozen shrimp and lobster to U.S.A. Except for a small quantity of foreign tinned product imported to the State, there is absolutely no import of fish into the State.

There are nearly 85,000 active fishermen in the State. Along the coast there are 66 fish curing yards, some of which are provided with fly-proof, sanitary fish curing sheds, and salt is issued at a subsidised rate which is less than the cost price in the salt factories. There are two Fishermen Training Centres one at Ernakulam and the other at Beypore, to train able bodied fishermen in the use of mechanised fishing craft and modern fishing. Soft wood for making boats, Nylon and Fishing hooks, etc. are distributed at concessional rates through the 199 Fishermen Co-operative Societies. Trained fishermen are given capital and equipment to start co-operative fishing with mechanised units.

The Indo-Norwegian Fisheries Project near Quilon is engaged in the mechanisation of small fishing crafts and in the exploitation of the fisheries' resources of the sea off Kerala. They have also established a Health Centre and a Pipe Factory under the scheme of improving the health and sanitation of the area. There are five private companies exporting frozen shrimps, lobster tails and frog legs, and cold storage plants are working at Trivandrum, Neendakara, Cochin and Kozhikode. In addition to the three Government freezing plants and cold storages there are three private plants also.

By the end of 1958, the total assistance had amounted to Rs. 177 lakhs. About 140 fishermen were trained in improved methods and about 650 persons provided with gainful employment.

There are 4 Fisheries Research Stations in the State engaged in Marine, Estuarine and Fresh Water fisheries and a Fisheries Technological Station conducting researches in fisheries by-product.

MADRAS

Madras State, with a coast line of 620 miles and with about 4 lakh acres of inland waters, is rich in fisheries resources. The Fisheries Department, established in 1907 has a comprehensive programme based on a policy of survey of fishing areas, initiation and co-ordination of research, conservation, development and exploitation of fisheries, provision of efficient and modern craft and tackle, organisation of the fish trade on proper lines and improvement in the socio-economic condition of fishermen. Considerable progress in all directions has been achieved by the Department during its existence of over five decades.

The Fisheries Department is under the administrative control of the Director of Fisheries who is assisted in all technical matters by two Deputy Directors in charge of marine and inland fisheries activities respectively. The fisheries in the districts are managed by six Regional Assistant Directors with headquarters at Vellore, Mettur Dam, Tanjore, Madurai, Tuticorin and Nagercoil. These Asst. Directors have Inspectors and Assistant Inspectors in the taluka. There are four marine biological stations at Ennore, Kruasalai Island, Tuticorin and Cape Comorin; a Technological Station at Tuticorin; and a Fresh-water Biological Station at Bhavanisagar, in-charge of qualified research officers. At Madras there is a Fisheries Marketing and Information Office for promoting fish trade and for dissemination of information. The Aquarium and Museum maintained by this unit are popular with the public. There is a Craft and Tackle Officer for popularisation of mechanised fishing and two other Assistant Directors in charge of the distribution of improved tackle, and fishing equipment received under the Technical Co-operation Aid Programme respectively. A Fisheries Welfare Officer is also stationed at the headquarters to look after the socio-economic interests of the fishermen in the State.

There are 243 coastal fishing villages with a total fishing population of 2,40,000. These fishermen possess about 5,000 boats, 23,000 catamarans, and 3 lakhs of fishing nets. The estimated landings of sea fish in 1957-58 is about 67,500 tons as detailed below, their total value being Rs. 547 lakhs.

Ribbon fish 11,080 tons; Cat fishes 10,880 tons; Sharks, Skates & Rays 4,700 tons; Sabre fish 1,680 tons; Lactarius 2,440 tons; Clupeids 10,130 tons; Flying fish 140 tons; Puerches 2,600 tons; Silver bellies 2,400 tons; Jew fish 2,300 tons; Mulllets 1,500 tons; Seer 4,680 tons; Mackerel 2,210 tons; Caranx 1,340 tons; Pomfrets 2,020 tons; Prawns & other Crustacea 2,300 tons; Miscellaneous forms 4,780 tons.

There are about 44,000 inland fisher-folk possessing about 20,000 implements. The estimated landings of inland fish from the various inland waters in 1957-58 is about 40,000 as detailed below, their total value being Rs. 240 lakhs.

Carps 22,500 tons; Cat-fishes 5,200 tons; Murrels 4,200 tons; Hils 500 tons; Hilsa 160 tons; Chanos 250 tons; Mulllets 1,680 tons; Prawns and other crustacea 2,570 tons; Miscellaneous 2,100 tons.

The average wholesale and retail price of the important varieties of fish are as follows: The first figure indicates the wholesale price for 100 lbs. and the second the retail price per lb.

Fresh-water Carps (Rs. 40; 55 nP.); Fresh-water Catfish (Rs. 42; 55 nP.); Fresh-water Prawns (Rs. 40; 60 nP.); Sea Prawns (Rs. 60; Rs. 1); Mackerel (Rs. 40; 55 nP.); Pomfret (Rs. 60; 87 nP.); Seer (Rs. 68; 94 nP.); Sea Perches (Rs. 41; 47 nP.); Murrels (Rs. 50; 75 nP.); Ribbon fish (Rs. 25; 37 nP.); Sharks (Rs. 25; 50 nP.); Silver bellies (Rs. 15; 25 nP.).

19 fish curing yards are maintained by the Government wherein good quality salt is supplied to fisher folk at subsidised rates for curing fish under the technical supervision of fisheries departmental staff. Two Ice Plants of 5 tons daily output and storage facilities for 15 tons are under construction at Tuticorin and Mettur dam.

There are 196 fishermen co-operative societies with about 23,555 members on their rolls with a paid up share capital of Rs. 1,90,000. These societies play an important role in the improvement of the economic conditions of the fisher-folk. They issue small loans to the members during the off season; and also inculcate the spirit of thrift and co-operation among the fisher-folk. Long term and medium term loans extending over a period of 10 years and 5 years respectively are issued to these societies by Government for enabling their members to redeem themselves of their prior debts and to undertake fish marketing themselves. Six District federations of fishermen co-operatives have also been formed for organising fish marketing on a larger scale.

Through exploratory fishing operations, the fisheries department has located rich deep sea fishing grounds off Pulest, Ennore, Madras, Cuddalore, Nagapattinam, Pamban, Tuticorin, and Cape Comorin, and arrangements are being made for their commercial exploitation. 42 small mechanised boats have already been distributed to fishermen co-operatives together with nylon fishing nets.

The pearl and chank fisheries of the Gulf of Manner are State monopolies, and yield a substantial revenue besides supporting a large population of divers. The pearl fishery conducted off Tuticorin in March-May 1958 fetched 2,14,78,514 pearl oysters, and a revenue of Rs. 4-65 lakhs was realised by the Department by sale of its two-thirds share of the oysters. During 1956-57, about 12 lakhs of chanks valued at about 14 lakhs rupees were fished.

Census of Inland Fisherfolk :

Men engaged in actual fishing ..	12,745
Men engaged in part-time fishing ..	2,099
Number of women and children ..	29,500
Total	44,344

Schools have been opened for fisherchildren. Natural Science and Fisheries Science play a large part in their curriculum. The children are taught handicrafts like coir rope making, net

weaving, net making, etc. Books, pencils and stationery articles are given free to these children.

Officers of the department and teachers of Fisheries schools have done a great deal to improve the standard of life of the children.

There are a museum and an aquarium belonging to the department. In the Museum, preserved specimens of all important marine and freshwater fishes, various kinds of sharks, aquatic curies like sepi, loligo, sea horse, etc. are all exhibited. The aquarium has eight large aquaria in which tropical aquarium fishes like Gold Fish, Black Mollies, Sword Tails, Guppies, Bule Gourami and food fishes like Catla, Labao, Cirrhina, Gomani, etc. are kept. Most important experimental fish farms are Mottar Fish Farm, Poondi Fish Farm, Chetput Fish Farm, Vellore Fort Most Farm, Bhavanisagar Fish Farm and Chingolep Fort Most Farm. The ponds in the farms and other ponds belonging to the department are intensively stocked with quick growing fishes every year and the catches are marketed to the public.

In addition to being an important source of food supply rich in proteins and albumenoids, food fishes play an important part in the manufacture of several bye-products in use in the everyday life. They are fish-oil (body oil and liver oil), shagren, kinglase, fish glue, fish meal (guano), fish fin soup, pearl essence, fish manure, etc.

Under the Second Five-Year Plan, 15 schemes with a total outlay of Rs. 94.79 lakhs are being implemented.

Receipts of department for 1957-58 : Rs. 18.60 lakhs ; Expenditure . Rs. 31.32 lakhs.

The designation of the department is : Government Fisheries Department, Madras.

MYSORE

The facts given below refer to the post-re-organization Mysore State.

Inland Fisheries : There are about 30,000 minor tanks and 4,000 major tanks in the State.

Inland Fisheries are developed only in selected areas of the State.

The revenue from Inland Fisheries is approximately Rs. 50,000.

Marine Fisheries : Mysore State has 200 miles of coast line on the Arabian Sea. All along this sea board, there are many fishing villages, the most important of them being Karwar, Ankola, Kumta, Honnavar, Bhatkal, Majali, Binali, Chandia, Gangoli, Malpe, Udiyavar, Bekkapatnam and Mangalore.

Nearly 40 varieties of sea fishes are landed out of which the most important are Sardine, Mackerel, Seer and Shark. The total fish production on Mysore coast is 1/10 of the total marine fish landings in India.

Thus, the marine fisheries confined to the districts of North and South Kanara can be regarded as one of the richest in the whole of India.

Quantity of fish in tons and the approximate value :—North Kanara : 20,000 ; Rs. 44,80,000 ; South Kanara : 20,000 ; Rs. 66,00,000.

Value of fish exported :—North Kanara : Rs. 38,20,000 ; South Kanara : Rs. 45,00,000.

There are about 20,000 fishermen, about 10,500 boats and about 20,000 nets. The number dependent on the fishing industry is estimated at over 80,000.

Average catch per fisherman per annum :—North Kanara : 2.77 tons ; South Kanara : 3.00 tons.

Total annual internal consumption :—North Kanara : 7,300 tons ; South Kanara : 15,000 tons.

Capital value of the industry together for North and South Kanara districts is estimated at Rs. 18,00,000.

No. of fish curing yards :—North Kanara : 15 ; South Kanara : 15.

Process of modernization (South Kanara) : Mechanization of boats for powered fishing is taken up as also ice plants and refrigerated storage facilities are being provided. It was expected that by the close of 1957-58 there could be about 12 mechanized boats operating in coastal waters in addition to three T.C.M. power-boats.

SUBSIDIARY INDUSTRIES ESTABLISHED AND THE SCOPE FOR DEVELOPMENT :

	Fish-meal plants.	Fish oil factories.
North Kanara ..	—	3
South Kanara ..	1	13
Total ..	1	16

AMENITIES TO FISHERMEN

1 Mysore State : Fishermen Co-operative Societies, 62 ; Subscribed capital, Rs. 4.00 lakhs ; Number of fishery schools, 25.

Steps are being taken to explore the prawn fishing grounds north of Mangalore.

ORISSA

Kinds of sea-fish caught : Pomfrets, Mackerel, Ribbon fish, Silver bellies, Sardine and White Belt. **Kinds of river fish caught :** Labio Rohita, Catla Catla, Cirrhina, Mrigala, Labio kalbasu and other Carps and Cat-fishes.

Annual production of Shark Liver Oil : 1950-51 (3,000 lb.) ; 1951-52 (6,730 lb.) ; 1952-53 (7,688 lb.) ; 1953-54 (10,718 lb.) ; 1954-55 (8,587 lb.) ; 1955-56 (11,681 lb.) ; 1956-57 (5,123 lb.) ; 1957-58 (10,361.75 lb.)

Important marine fishing villages : Patihonagar, Markandi, Gopalpur, Panayal, Sonapur, Suria, Aryapali, Kandarapali, Gajapatnagar, Purnabandha, Damodarapur, Rambha, Channuhani and Arkhakanda.

Important inland fishing centres : Ansupa lake, Bussakonda reservoir and Kausalyaganga.

Number of fish curing yards run by the fishermen's own co-operative stores : 6. **Number of ice factories which cater to preservation of fish for transport to Calcutta and elsewhere :** 6. **Co-operative marketing has developed in the Orissa area.** The annual volume of trade ranges between Rs. 25 to Rs. 40 lakhs.

The demand is approximately 100 times more than the supply.

There are no deep-sea fishing companies in the State.

The State has not taken up deep-sea fishing commercially. Experimental power fishing in the sea has been started with small boats. There are no fishermen's schools.

There is a small experimental aquarium attached to the Fisheries Department in Cuttack.

Fresh water biological stations have been established at Kausalyagang, District Furl, Kikani (Cuttack), Humari (Ganjam), Angul,

Jeypore, Kathpal (Mayurbhanj), Kiankani in Furl District, Dighi in Mayurbhanj District.

Major experimental farms in the State : Cuttack fish farm ; Furl fish farm ; Chowdwar fish farm ; Sonapur ; Sambalpur ; Balasore ; Kausalyagang ; Angul ; Bandh ; Jajpur ; Belguntha.

Research is going on in the manufacture of agar agar and hydrolysed proteins, breeding of carps with pituitary hormone, haematology of carps, life history of mullets, reclamation technique for swamps, improved craft and gear.

Second Five-Year Plan provision 1954-61 : Rs. 52.25 lakhs.

Income from Fisheries Department ranges between Rs. 1.5 and 3.3 lakhs per annum which does not include rent for water areas.

Budget allotment : 1955-59 : Rs. 17,41,640.

WEST BENGAL

Kinds of sea fish caught : Pomfret, Bhethi, Mackerel, Prawn, Topai, Hilsa, Chanda, Shola, Bombay Duck, Ribbon, Shark, Rayn, Skate, Eel, Cat fish, Phasa, etc.

Total quantity of sea fish caught in 1957-58 : 11,901 mds.

Total value of the sea fish caught in 1957-58 : Rs. 1,72,223.

Price per maund of different kinds of fish in March 1958 :

Varities	Maximum	Minimum	Average		
	Rs.	Rs.	Rs.	a.	p.
Carps	160	30	80	4	5
Hilsa	105	40	64	4	8
Bhethi	125	60	88	11	8
Mullet	115	35	76	11	4
Butter	110	15	55	1	8
Lobster	130	75	97	11	3
Shrimp	76	25	46	3	1

Approximate strength of the fishing population : 96,400 (1951).

Potential demand for fish in the local market : In West Bengal (27,647 mds.) ; In Calcutta (5,561 mds.).

Extent to which production meets this demand : Seven per cent.

Money spent by Government in connection with fishing in 1957-58 : Rs. 5,03,000.

Gears used : Haddock trawl, Prawn trawl, Herring trawl, etc., all made of cotton twines.

There is one experimental fish farm in sewage fed water maintained by the State Government. There are demonstration fish farms in private parties' tanks in each thana of the State.

Ancillary industries like liver oil, gelatin, glue, fish-meal, and their production : One scheme for production of shark liver oil, fish-meal, processed fish and utilization of other fish by-products is operated at Contal coast.

Production during 1957-1958 :

Shark liver oil 9,000 lb. ; Fish-meal 12,423 lb. ; Fresh fish 2,864 lb.

Approximate Revenue from Fisheries during 1957-58 : Rs. 3,04,738.

Budget allotment for the Department for 1958-59 : Rs. 20,57,000.

The designation of the Fisheries Department : Directorate of Fisheries, West Bengal under the administrative control of Fisheries Department and Development Department, the latter controlling the sea fishing scheme only.

IRRIGATION

THE net area under irrigation in India during 1955-56 was 56.2 million acres and the gross area 63.3 million acres. This is the second largest irrigated area in any country of the world, the largest being in China.

The total capacity of India's canals is over 220,000 cusecs, and the canals are over 67,500 miles in length.

The total amount of annual flow of water in the Indian Union is 1,356 million acre feet. Of this only 76 million acre feet or 5.6 per cent are at present being used for irrigation purposes.

Classing a year in which rainfall deficiency is 25 per cent. as a dry year and one in which it is 40 per cent. as a year of severe drought the examination of past statistics shows that, over the precarious area, one year in five may be expected to be a dry year and one in ten a year of severe drought. It is largely in order to remove the menace of these years that the great irrigation systems in parts of the country have been constructed.

In the arid tracts where the annual rainfall is less than 15 inches, no cultivation is normally possible without irrigation.

At the beginning of the First Plan (1951), the area under irrigation was about 51.5 million acres. During the First Plan about 5 million extra acres of land were brought under irrigation by means of large and medium-sized projects and about 7 million by means of minor schemes so that at the end of the First Plan the total area under irrigation was about 64 million acres. The First Plan target was 67 million acres.

During the Second Plan period about 12 million acres will be brought under irrigation (9 million from First Plan projects and 3 million from Second Plan projects) by means of large and medium sized projects and 9 million acres by means of minor schemes so that the area under irrigation at the end of the Second Plan would be 85 million acres. If the short-fall of 3 million acres under the First Plan is made up the total area will increase to 88 million acres, which is also the Second Plan target.

The total investment in irrigation and power projects during the First Plan was of the order of Rs 615 crores.

The revised allocation under the Second Plan for irrigation and power is Rs 460 crores (Centre 72 and States 78) and for minor irrigation Rs 96 crores (Centre 3 and States 93).

The anticipated outlay under irrigation and power for 1956-59 is Rs 479 crores (Centre 36, States 443).

Under minor irrigation the anticipated outlay for 1956-59 is Rs 44 crores (Centre 2, States 42), and for the whole Second Plan period of 1956-61 is Rs 92 crores (Centre 3, States 89).

Additional food production expected through major and minor irrigation works was as follows (in million tons)

First Plan 2.01 and 2.38 respectively
Second Plan 3.02 and 1.89 respectively

THE PROJECTS

The following projects continued from the First Plan period

Bhakra-Nangal (Punjab and Rajasthan), Damodar Valley (West Bengal and Bihar), Hirakud (Orissa), Chambal (Rajasthan and Madhya Pradesh), Tungabhadra (Andhra and Mysore), Mawrakshi (West Bengal), Bhadrā (Mysore), Kosi (Bihar), Nagarjunaagar (Andhra), Kakrapar (Bombay).

The following are the new projects:

Andhra—Vamsadhara, Bombay—Ulkal, Vir, Purna, Narmada, Banas, Mula, Girna, Khadakvasla, Bhadar, Jammu and Kashmir—Lidder Canal, Kerala—Bhoothathankuthu; Madhya Pradesh—Tawa, Chandakeshar, Barma or Kolar,

Upper Keri, Madras New Kattalai, Mysore—Ghatprabha II, Kabini, Laxman Thirtha; Orissa—Salandi, Punjab (Jurgaon Canal), Pondicherry (also Madras)—Vidur, Rajasthan—Banars; U.P.—Sarda Sagar II, Ramganga, West Bengal—Kangsabati.

Notes on the continuation projects are given later

For particulars about other projects see under individual States.

Particulars about major schemes taken up under the Second Plan are given below. Only such schemes are mentioned as cost Rs. 5 crores and above

(Rs. lakhs)

Scheme	Estimated cost	Second Plan provision	Expenditure 1956-57	Budget 1957-58	Proposals 1958-59
BOMBAY					
1 Vir	533.0	425.0	9.77	30.47	70.00
2 Mula	940.0	275.0	12.41	22.64	20.00
3 Girna	905.4	375.0	15.97	29.00	85.00
MYSORE					
4 Ghatprabha Stage II	970.0	100.0	21.21	50.00	20.00
UTTAR PRADESH					
5 Sarda Sagar Stage II	984.2	737.0	78.51	96.00	82.89
Schemes not sanctioned by Planning Commission but taken up by States					
BOMBAY					
1 Khadakvasla	1,214.0	275.0	15.52	60.00	100.00
2 Purna	764.6	500.0	20.44	46.56	95.00
WEST BENGAL					
3 Kangsabati	2,525.00	475.0	52.12	75.00	50.00
UTTAR PRADESH					
4 Ramganga River Project	1,599.00	450.0	17.70	32.00	60.00

The Central Board of Irrigation and Power is a central organisation (set up in 1931) and has as its members, Irrigation and Hydro-electric Chief Engineers of all Administrations in India. The function of the Board is to co-ordinate research in irrigation and allied subjects conducted at all the 16 irrigation research stations in India. Meetings of the Board and its Research Committee are held annually, when the research carried on during the year and the policies, and problems are discussed.

The Central Water and Power Commission was set up in 1945, with the object of initiating, co-ordinating and furthering (in consultation with the State Governments concerned), schemes for the control, conservation and utilisation of water resources throughout the country for purposes of water power generation, irrigation, navigation and flood control.

The Commission has three wings, i.e. Water, Flood, and Power Wings with seven, four and ten Directorates respectively under them. The Commission consists of a Chairman with two Members each, for the Water and Power Wing respectively, and is assisted by three Chief Engineers who are in charge of the Flood Wing.

Twenty-one foreign experts were engaged on dam construction projects in India in Sept. 1954.

Sixteen of the experts were posted with Bhakra Nangal Project, 2 each with Damodar Valley Corporation and Rihand Dam Project, and one with the Water Wing of the Central Water & Power Commission of the Union Ministry of Irrigation & Power.

All the experts belonged to the U.S.A.

MINOR IRRIGATION

The possibilities of diverting the normal flow of rivers into irrigation canals can now be regarded as exhausted.

The plans for the future development of irrigation, therefore, should aim at impounding

the surplus river flow during the monsoon for use during the dry weather. Dams have to be built at suitable sites for this purpose. In areas unsuitable for flow irrigation, however, water for irrigation has to be lifted mechanically from sub-surface sources.

Minor irrigation works command a larger area than what is commanded by the major works. Out of a total (net) irrigated area of about 53.3 million acres (in 1954-55) about 60 per cent is contributed by minor irrigation through tanks, wells, and other sources (9.9, 16.6 and 5.6 million acres respectively).

Minor irrigation works are not so spectacular as major irrigation schemes. But they have many advantages. They do not require any foreign exchange, involve a small outlay and yield quick results. They can be completed by the people themselves without much technical guidance and, in the process, make the village communities more self-reliant.

Minor irrigation schemes include construction of open wells, tanks and minor drainage schemes; embankments which are important from the point of view of food production and checking intrusion of salt water in coastal areas; restoration of old tanks, stream diversion schemes; and installation of pumping appliances and improvement of water supply from wells and storage dams. There are also such works as construction of kulis in hilly areas, filter points in coastal alluvium and installation of improved lift appliances, Persian wheels and pumping sets on wells. Tubewells also form part of minor irrigation works.

During the First Five-Year Plan 9.5 million acres were reported to have been brought under minor irrigation.

Following is the State-wise break up (figures in thousand acres): Andhra Pradesh 174; Assam 867; Bihar 1,774; Bombay 244; Madhya Pradesh 95; Madras 508; Orissa 136; Punjab 827; Uttar Pradesh 1,489; West Bengal 1,364; Hyderabad 145; Madhya Bharat 64; Mysore

281; PEPSU 189; Rajasthan 109; Saurashtra 183; Travancore-Cochin 147; Other Part 'C' States 99.

The target for increased food production was 2.55 million tons.

During the First Plan period the Government of India spent Rs. 46.52 crores as loans and Rs. 8.25 crores as subsidy for minor irrigation, in addition to Rs. 19 crores for tubewells and Rs. 7.34 crores on minor irrigation in Community Development and N.E.S. blocks.

The First Plan achievement is as follows:—

Item	Newly constructed/installed.	Repaired/Renovated.
1. Tanks	3,134	5,788
2. Wells (Excluding tubewells)	156,348	62,472
3. Dams	33,672	..
4. Other works ..	14,154	..
5. Persian Wheel, Rahats etc (installed) ..	38,485	..
6. Pumps on rivers and channels installed ..	19,694	..

The target for minor irrigation under the Second Five-Year Plan is fixed at 9 million acres, half of which is to be in the Community Development areas.

The total allocation for this purpose is Rs. 120 crores.

The target for increased food grains is 1.9 million tons.

The additional areas covered by minor irrigation works during 1956-57 and 1957-58 were estimated at 3.86 million acres—about 40 per cent of the Plan target. This includes benefits derived from minor irrigation schemes in C. D. blocks.

For minor irrigation, the total Central expenditure in 1956-57 was Rs. 9.04 crores—Rs. 8.39 crores as loans and Rs. 0.65 crores as subsidy to States. In addition, Rs. 4.04 crores were spent on minor irrigation works in C. D. and N.E.S. areas.

Expenditure on tubewells was Rs. 3 crores.

In 1957-58, actual expenditure on minor irrigation was likely to be Rs. 13.00 crores, and on tubewells, Rs. 3.25 crores. Another sum of Rs. 4.00 crores was expected to be utilised for irrigation in community development and N.E.S. areas.

The following amounts were allotted by the Centre (Rs. in lakhs): Andhra Pradesh 93.79; Assam 58.00; Bihar 93.90; Bombay 255.88; Kerala 53.00; Madhya Pradesh 245.02; Madras 55.71; Mysore 102.47; Orissa 12.00; Punjab 157.15; Rajasthan 105.37; Uttar Pradesh 276.87; West Bengal 69.00; Jammu and Kashmir 44.37; Delhi 6.91; Himachal Pradesh 29.50; and Tripura 0.97.

In 1956-59 the following amounts were allotted (Rs. in lakhs):—

Andhra Pradesh 117.14; Assam 35.69; Bihar 172.00; Bombay 326.56; Kerala 54.00; Madhya Pradesh 175.00; Madras 76.76; Mysore 98.57; Orissa 41.90; Punjab 120.00; Rajasthan 76.00; Uttar Pradesh 273.60; West Bengal 40.50; Jammu and Kashmir 29.00; Delhi 5.30; Himachal Pradesh 20.00; N.E.F.A. 0.26; and Pondicherry 2.03.

The total allotment for 1956-59 was Rs. 20 crores.

The progress, however, is still somewhat slow and the actual achievement during the two years works out to only 40 per cent of the total targets of minor irrigation.

The principal difficulty felt so far in implementing the programme for minor irrigation is the delay in land acquisition, shortage of

technical staff, particularly of overseers and other engineering subordinates, shortage of essential requisites, such as diesel engines, electric motors, pumping sets and the delay in the construction of field channels and distributaries.

The Central Committee on Community Development has emphasized the need for fuller utilization of irrigation facilities. More attention is to be paid to the proper maintenance of existing minor irrigation works in villages than to the construction of new ones. In other words, consolidation of what has already been achieved is even more important than plans for expansion.

LAKES, TANKS AND WELLS

The waters of lakes, tanks and embankments played an important part in the early irrigation practices of the country. Sudarshana lake near Kathiawar built by the Mauryan Emperors (in 300 B.C.—457 A.D.), the two large tanks (i.e.), extending over 2,000 and 4,000 acres respectively in Chingleput in Madras, dating back to 8th and 9th century, and the Bhojpur Lake (covering 250 square miles) of the 11th century near Bhopal, constructed across the Betwa Valley and fed by Kallot River, the great lakes of Telangana in Andhra (Pakhal, Ramappa, Lakhnavaram, and Ghanapur) of the 13th century and the much more recent works like Usmanagar, Himayatnagar, Pochram, Wyra, and Palair are evidence of the importance of minor irrigation in the agricultural economy of the country.

The lakes and tanks are either of the storage or submergent type.

The essential functions of a storage tank is to store the rain water. Its main features are bunds (of earth-masonry or cement) to impound water and sluice gates and canals to take it to consumer points, and waste weirs to dispose of surplus flood discharge.

In the chain system of tank irrigation (in Andhra, Mysore and the Satara Dist of Bombay) a series of tanks are constructed in a valley, in such a way, that the surplus water from the upstream is stored in the tanks below, effecting the maximum utilisation of water.

In submergent tanks the stored water is not generally used for irrigation, but allowed to soak in the soil, and the surplus drained before the winter crops. Such land does not require any irrigation and usually yields a bumper wheat crop. The practice is common in Bihar, Madhya Pradesh (Jabalpur and Sagar districts), and Rajasthan (Kota and Bundi districts).

Tank irrigation is very important in Andhra, Madras, and Uttar Pradesh where over 2.4, 2.1, and 1.0 million acres respectively, are irrigated by tanks. Bengal, Mysore, Bihar, and Bombay, have over half a million acres under tank irrigation.

Wells: Wells are mainly of two types, i.e., surface or sub-surface. Unlike tanks, they can be constructed irrespective of topographical and geological limitations, provided sub-soil water is in reach.

Well irrigation commands over 6 million acres in Uttar Pradesh and two millions in Punjab,

The progress of tubewell construction is as follows:

Sum spent in 1956-57, Rs. 5.2 crores; in 1957-58, Rs. 3.7 crores.

	Grow More Food		T.A.P.	Second Plan		E.T.P.
	General	Gujarat		Assam	U.P.	
Targets	700	400	2,650	45	1,500	350
Completed Drilling ..	609	400	2,650	6	392	..
Installed Pumping ..	540	330	2,640	1	116	..
Energised	396	330	2,564	1	52	31

The Second Plan allotment is Rs. 17.65 crores. During the First Plan the Government of India spent Rs. 19 crores on tubewells.

The increased food production under the First

Rajasthan, and Bombay. It is also of considerable importance in Madras (where over 1 million acres are irrigated by wells), Andhra, Madhya Pradesh, and Bihar.

Pumping sets of high efficiency have come into common use for water lifting and also for draining. The number of irrigation pumps in use have increased from 107,365 in 1951 (i.e., oil powered 82,218, and Electrically driven 25,137) to 177,034 (oil powered 122,230 and Electrically driven 54,804) by 1956.

To encourage maintenance, a levy on the entire irrigable area is imposed in Madhya Pradesh, Madras, and Mysore:—

Type	Cost per acre in Rs.
a) Lift irrigation by Mote (Leather Bucket)	60-0
b) Pump irrigation	20-0
c) Tubewell (per acre inch) ..	1-8

Tubewells

A tubewell irrigates about four hundred acres while a surface well can do only 1.80 of this, i.e., about 5 acres.

The cost of a tubewell (300 ft. deep, discharging 35,000 gallons water p.h.) complete with accessories will be about half a lakh of rupees, and that of a surface well (irrigating about 5 acres) only about 1/33 of this. But, the capital cost of a tubewell when hydro-electric power is available for running it, will be only Rs. 150 per acre. Where electricity by other means (diesel or thermal) can be provided, it will, however, be Rs. 190 per acre. The various processes in its construction, viz., drilling, lowering of pipes, putting gravel, construction of pump house and installation of pump set, construction of tanks and channels, installation of lines and electric generating stations, etc., have all to be proceeded almost simultaneously so that the complete tubewell is put into working condition within a specified time schedule.

Tubewells are an economic source of minor irrigation. But, they cannot be set-up anywhere. The essential conditions are:—Sufficient reserves of underground water; Favourable soil condition; and, Cheap electric power.

These are present only in the northern regions of the country. Therefore, out of 2,600 tubewells existing in India prior to 1950, the great majority were located in Uttar Pradesh.

The tubewell projects programmed since 1950 can be broadly categorised as under:—

1. G.M.F.C. project started in 1950 with a target of 965 and expanded in 1954 by a further 700 tubewells and G.M.F.C. Tubewells in north Gujarat.
2. T.A.P. schemes started in 1953.
3. Second Five-Year Plan Schemes mostly in Assam and Uttar Pradesh, and
4. Exploratory Tubewell project in some States.

Plan was 73,000 tons. In 1956-57 it was 9,200 tons. In 1957-58 it was 1.4 lakh tons.

G.M.F.C. Projects: The Government of India launched a project in 1950 under the

G.M.F.C. to construct 965 tubewells mostly in the Indo-Gangetic alluvium. (Bihar: 300, Punjab: 225, and Uttar Pradesh: 440). When this was completed, an additional 700 tubewells (Punjab: 250 and Uttar Pradesh: 450) were sanctioned in 1954-55 under the same project at a total cost of Rs. 420 million.

Another scheme for the construction of 400 tubewells in the north Gujarat was also taken up.

Technical Aid Project: Another project with the help of Technical Aid Programme of U.S.A. for the construction of 2,000 tubewells in the first instance and then later expanded (by 650) to 2,650 (viz., Bihar: 285, Punjab: 900, and Uttar Pradesh: 1,375) was started in 1953.

The total cost of this was about Rs. 209.4 million out of which Rs. 52.9 million were contributed by U.S. and Rs. 116.5 million by the Government of India. The expenditure will be considered as a loan to the State Governments repayable in 15 equal instalments (of capital with interest) from the fifth year of the sanction of the scheme. About two-thirds of this work was undertaken by contractors and the rest by Government.

Second Plan Projects: The Assam Government has a programme of 45 and Uttar Pradesh 1,400 in the Second Plan period.

Exploratory Tubewells: The possibility of extending tubewell construction to other irrigation-needing areas where flow irrigation is difficult, is being investigated. Exploratory work on this behalf by the Ground Water Section of the Geological Survey, has shown possibilities in 15 States. Projects for Exploratory Tubewells prepared under the T.A.P. have decided to have 550 tubewells, provisionally, at a total cost of Rs. 350 million, out of which Rs. 12 million will be provided by the Government of India and the rest by the U.S.A. (in dollars).

DISTRIBUTION AND PROGRESS (1954-57)

	Proposed	functioning
Assam	15	..
Bengal	37	..
Bihar	16	3
Bombay	50	5
Kerala	5	..
Madhya Pradesh ..	15	..
Madras (with Andhra)	75	19
Orissa	20	..
Punjab	51	1
Rajasthan	5	1
Uttar Pradesh .. .	47	2
Others	14	..
Total	350	31

HISTORY

Rainfall in the country is as already mentioned unequal and in many areas uncertain. The distribution is as follows:

Range	(in million acres)	Percentage
Area between 0-30 inches	237.6	29.6
Area between 30-50 inches	239.2	42.0
Area between 50-75 inches	143.9	17.8
75 inches and above ..	86.6	10.6
Total area ..	806.8	100.0

The annual rainfall varies from 5" (in parts of Rajasthan) to over 100" in the west coast areas. Most of it, however occurs during the four months of June-September, when many rivers are often in spate. On the other hand, about 30 per cent of the area gets less than 30" rainfall a year, necessitating irrigation measures.

The country can be broadly divided according to the rainfall into two zones of certain and uncertain rainfall. Generally speaking, rainfall is certain in Assam, Bengal, Konkan and Malabar and in the Narbada Valley. It is uncertain in large areas of Andhra, Bombay, Madras, Mysore, Orissa, Punjab, Rajasthan and Uttar Pradesh.

The total water resources of Indian rivers in terms of annual flow is estimated at 1,356 million

acre feet of water, distributed as follows:—
1. Rivers (excluding the Indus system) falling into the Arabian Sea, 251.5; 2. Rivers (excluding Ganga and Brahmaputra system) falling into the Bay of Bengal, 224.0; 3. Indus basin in India, 64.4; 4. Ganga System, 367.1; 5. Brahmaputra System, 209.0.

The total run off is about 1.37 million cubic ft. throughout the year.

The utilisation is given below:—

(min. acre ft.)

System	Estimated average flow	UTILISATION		
		upto 1951	Addl. in 1st F.Y.P.	Addl. in 2nd F.Y.P.
Indus	168	8.0	11	1.2
Ganges	400	23.0	21.5	14.5
Brahmaputra .. .	200	2.3	..	..
Mahanadi	84	3.1	10.5	0.2
Godavari	84	12.0	1.0	1.5
Krishna	50	9.0	15.6	2.6
Cavery	12	8.0	1.3	0.6
Narbada	32	0.2	..	10.1
Tapti	17	0.2	0.7	3.5

Out of the water resources of 1,356 million acre feet, about 450 million acre feet are utilisable. About 83 million acres (6.1 per cent of total and 19.5 per cent of utilisable) were utilised by 1951. In the First and Second Five-Year Plan 11 and 13 per cent of the total water respectively are to be used.

The partition of the country in 1947, and the consequent transfer of large irrigated areas in the Punjab to Pakistan left the country with only 48.4 million acres of irrigated area (comprising 15.7 million served by Government Canals and 32.7 million acres by private irrigation agencies). This brought the problem of large-sized irrigation measures into focus once again.

The storage capacity of all the dams constructed prior to 1947 was only 5 million acres.

New dams were now designed to store nearly five times as much, i.e., 25 million acres.

The First Five-Year Plan (1951-56) provided for the construction of storage reservoirs of 35.4 million acres capacity. The completion of the works included in the Plan, will increase the total water storage capacity of the country to 31.4 million acres. The achievement under the First Five-Year Plan was 4 million acres by major and medium irrigation, and 10 million acres by minor irrigation.

The Second Five-Year Plan provided for an additional irrigation of 21 million acres by 1961. By 1966 the country will probably have about 160 million acres of irrigated area.

Prior to 1947 each State planned and undertook individual water utilisation projects to meet urgent local demands.

The Damodar Flood Enquiry Committee appointed by the Government of Bengal in 1943, recommended a comprehensive basin development plan for the Damodar River basin on the lines of the T.V.A. Later in 1945, when a Central Waterways Irrigation and Navigation Commission (now the Central Water and Power Commission) was constituted having as one of its functions, collection, collation and analysis of data, the idea of comprehensive planning for the development of water resources on a national basis came to the fore.

In accordance with this new concept a number of multi-purpose river valley projects were taken up with various inter-related objectives, viz., irrigation, flood control, generation of hydro-electric power, development of pisciculture, provision of drinking water, inland water transport, and navigation.

The major river valley projects are as follows:—
(1) Bhakra-Nangal Project, (2) Hirakud Project, (3) Damodar Valley Project, (4) Tung-

bhadra Project, (5) Kosi Project, (6) Chambal Project, (7) Nagarjunasagar Project, (8) Koyan Project, (9) Riband Project, (10) Bhadra Reservoir Project, (11) Kakrapar Project, (12) Machkund Project, and (13) Mayurakshi Project.

PROJECTS

Below we give notes on some individual projects.

Bhadra Project (Odisha):—This is one of the biggest irrigation and multi-purpose projects undertaken by the State. The scheme includes the construction of a reservoir on the river Bhadra at Lakhavelli (Shimoga District) with a storage capacity of 61,250 c.ft. to irrigate 2,24,200 acres of land in the dry taluks of Shimoga, Chitaldurg and Bellary districts and to generate electric power to the extent of 41,040 kW at the dam site. Two channels take off from the reservoir on each bank and the right bank channel has to be taken in a tunnel, three miles in length, across the Urbani Range of hills before it enters Sulchore valley which commands vast fertile lands in the taluks of Harihar and Davanagere. When completed, this will perhaps be the longest irrigation tunnel in India.

The cost of the project is estimated at about Rs. 25 crores and the work is expected to be completed by 1961. According to the schedule, water has already been made available to an extent of nearly 20,000 acres of land. The project was actually started on a small scale in 1947 and so far about Rs. 9 crores have been spent.

Bhakra-Nangal Project (Punjab): The Bhakra-Nangal project in the Punjab comprises two big dams—The Bhakra Dam and the Nangal Dam, about 70 miles north of Chandigarh—a vast network of canals, four power houses and a large number of transmission lines with scores of grid sub-stations.

It is the largest multi-purpose river valley scheme under construction in India.

The project is expected to irrigate over nine million acres and build up an ultimate power potential of 9,00,000 kW. The States that will benefit are the Punjab, Rajasthan, Himachal Pradesh and Delhi. According to estimates made in 1956 the project is estimated to cost Rs. 174 crores, and will be completed by March 1966.

The project will irrigate 4.8 mha. area in the Punjab, and also lakh acres in Rajasthan. It will also improve irrigation in another 6.4 mha. area. During the year 1955-56 the Ganga system is expected to irrigate over 20 lakh acres.

in the Punjab and Rajasthan as compared to 15 lakh acres during 1957-58.

The Nangal Dam, the Nangal Hydel Channel, and the Bhakra canals have already been completed. The first phase in the construction of the Bhakra Dam to a height of 414 ft. was completed in April 1955 and partial storage of water began in the 1955 monsoon.

The final phase in the construction of the dam was taken on hand in October 1955 and is scheduled to be completed by March 1960. Partial storage of water in the Bhakra reservoir began in the monsoon of 1955 and five lakh acre feet of water was stored. Supply of irrigation water which stopped in September was extended upto November 1955 to help rabi sowing.

Full benefits of the Project will be available on its completion in 1960. However, schedules have been so arranged as to bring some measure of these benefits at each step of construction is completed. Kharif irrigation was provided to over 8 lakh acres in the Punjab with effect from July 1954. This was extended to the rabi sowing season with the starting of partial storage in the Bhakra reservoir in the 1955 monsoon.

Of the four power houses the Gangwal and Kotla power houses on the Nangal Hydel Channel, with a total capacity of 98,000 kW have already been commissioned and penstocks have been laid for five generating units, each with a capacity of 90,000 kW to be installed in the power house on the left side of the Bhakra Dam.

The increase in foodgrains as a result of the extra irrigation facilities is expected to be 1.13 million tons a year. Other additional yields that will accrue from the project are: sugarcane 5,00,000 tons, cotton 8,00,000 tons and pulses and oilseeds 1,00,000 tons.

Upto October 1955, Rs. 156 crores were spent on the Bhakra-Nangal project. The revised estimate of the Project is Rs. 170.02 crores.

In 1957-58 the area irrigated was 14.82 lakh acres; up to Dec 1955 the area irrigated was 16.80 lakh acres.

Some details are given below:

The principal feature of the project is the construction of a dam about 740 feet high on the river Sutlej near the village of Bhakra about 50 miles upstream of Ropar Town in Ambala District. The total storage capacity of the reservoir is estimated to be 7.46 million acre feet, of which 5.7 million acre feet will be available for use. The reservoir will extend to about 56 miles above the dam. The area covered by the dam is 66.4 sq. miles.

The dam will be the highest so far in the world and will be of the straight gravity type in concrete.

Bhakra Dam: Height 740 feet; Length at bottom 325 feet; Width at top 30 feet; Length at top 1,700 feet; Width of dam at bottom including apron 670 feet; Width at bottom including apron and heel claystone 1,510 feet. **Bhakra Reservoir:** Total storage capacity 7.46 million acre feet; Live storage capacity 5.7 million acre feet; Length of reservoir 56 miles; Area submerged 62,540 acres; Population to be displaced 30,000; No. of villages to be submerged or partly submerged 365; Total quantity of excavation for dam and appurtenant works 5.16 million cubic yards; total quantity of concrete for dam and appurtenant works 5.11 million cubic yards.

Nangal Dam: Height 95 feet; No. of bays 26 of 30 feet span each; Distance between abutments 955 feet; **Bhakra-Nangal Canal System:** Length of Main Line and Branches 600 miles; Length of Distributaries 2,100 miles.

This dam serves chiefly to divert the requisite supplies from River Sutlej for the Nangal Hydel Canal, secondly to provide storage to smoothen the fluctuations in supplies due to load variations in Bhakra Power Plant. The Hydel Channel takes off from the left bank of the river Sutlej at Nangal Handwara. It is a lined canal about 45 miles long with a maximum capacity of about 14,300 cusecs,

for the first 9,700 feet of its length and 12,000 cusecs thereafter. The project will increase the use of the Sutlej waters from five million to 12 million acre feet.

The Bhakra Canal system, which was inaugurated by the Prime Minister on July 8, 1954, consists of 600 miles of Main Canals and Branches and 2,100 miles of distributaries. The Nangal Hydel Canal, passing through a sub-mountainous terrain full of deep ravines and hill torrents. The work on it involved construction of 58 cross drainages and 24 bridges. It is lined with concrete throughout its length of 40 miles and has cost Rs. 11 crores.

The Bhakra electricity transmission system consists of 2,267 miles of high tension lines ranging from 33 K.V. to 220 K.V. Apart from this, there will be 800 miles of 11 K.V. lines. Greater stress has been laid on rural electrification for stepping up agricultural production and energising tube-wells.

A comprehensive agreement between Punjab and Rajasthan regarding the Bhakra Nangal project has been signed.

One of the articles of the agreement lays down that all disputes between Punjab and Rajasthan on the day-to-day operation and maintenance of the common work of the Bhakra Nangal project will be settled by mutual discussion between the chief engineers for irrigation and power of the States.

The contracting States further agree that any unresolved dispute should be referred to a Standing Committee, consisting of the chief engineers of Punjab and Rajasthan, with a representative of the Central Water and Power Commission as chairman.

Another article stipulates that a difference of opinion between the States in any matter arising out of the present agreement should be referred to a person mutually agreed upon by both parties. Failing an agreement on this, a person may be nominated by the President of India.

The decision of this person will be final and binding on the two States.

Of the four appendices to the agreement, the first gives the constitution and functions of the Bhakra Control Board and Bhakra Advisory Board, set up by the Government of India in September 1950.

The shares of the two States for the supplies of the river Sutlej, including those for the existing areas under the Sirhind canal, are dealt with in the second appendix.

The third appendix gives details of the share of cost of construction of Bhakra dam, which will be borne by Punjab and Rajasthan in the proportion of 64.78 per cent and 15.22 per cent respectively. The last appendix shows that the total cost of the Bhakra dam, including cost of works for left and right power houses is Rs. 68.81 crores.

Over 40,248 acres of land has so far been acquired in Bhalspur, Hoshiarpur, Kangra and Hissar districts for resettlement of people displaced from the Govind Sagar (Bhakra Reservoir) area.

Damodar Valley Project (Bihar and West Bengal):—The Damodar Valley Project which is one of the most important multi-purpose schemes and is to benefit the States of Bihar and West Bengal, has on its main features the construction of (a) multi-purpose storage dams with hydro-electricity plants, (b) an irrigation project with a net work of irrigation canals and distribution measuring 1,485 miles, (c) an 85 mile long irrigation-navigation canal, (d) a power transmission grid and (e) thermal power stations to supplement the hydro-power.

The ultimate benefits that will accrue from this scheme include (a) effective flood control of the Damodar River, (b) perennial irrigation of 10,44,000 acres including 1,04,000 acres now irrigated in the kharif season and 90,000 acres in the rabi season resulting in an additional

yield of rice and rabi crop valued at Rs. 25 crores a year, (c) the generating of 604,000 kW. of electric power, which will promote the growth of industry, lead to the electrification of railways, etc., (d) cheap transport facilities through the navigation canal (e) annual traffic through the canal of coal, paddy, etc. to the extent of nearly 2 million tons and (f) efficient drainage of about 700 sq. miles of water-logged area in the lower valley in W. Bengal.

Of the electric power generated 500,000 kW. will be thermal and 104,000 kW will be hydro-electric.

The first phase of the D.V. Project comprises (1) a thermal power station of 150,000 kW capacity at Bokaro, 7 miles by road from the Bermo railway station, in the district of Hazaribagh, Bihar, (2) Tilaiya dam with a power station of 4,000 kW in the same district, 14 miles south of Kodarma railway station on the Grand Chord line of the Eastern Railway, (3) the Konar dam in the same district, 24 miles from Hazaribagh, (4) the Maithon dam with a power station of 60,000 kW in the district of Dhanbad (Bihar), 3 miles from Kumardhubi railway station on the Grand Chord line, (5) the Fanchet Hill Dam with a power station of 40,000 kW (initial) in the district of Dhanbad (Bihar), about 13 miles south of Maithon, (6) the Durgapur Barrage and Canals in the district of Burdwan, Bankura, Hooghly and Howrah (West Bengal) and (7) the transmission line system. All these schemes were later integrated to the National Plan and those included in the original first phase programme were drawn into the First Five-Year Plan.

The construction of the first dam at Tilaiya was started in January 1950. The dam was completed and the hydro-station put into commercial operation in February 1953.

The Bokaro Thermal Power Station was commissioned in 1953 with an installed capacity of 150,000 kW and with the addition of the fourth unit it will ultimately have a capacity of 225,000 kW.

The Konar Dam in the district of Hazaribagh was completed in 1955 and was formally opened by the Prime Minister of India on October 15, 1955.

The Maithon Dam, 162 feet high above the river bed, has been built on the Barakar River above its confluence with the Damodar. It consists of a main earth dam, 2,041 ft. 6 inches long across the bed of the river, with a concrete dam 1,169 ft. long including the spillway of 612 ft. on the diversion channel and a long stretch of earthen dykes on both the banks. The overall length of the dam is 15,712 ft.

It has an underground power station on the left bank, the installed capacity of which is 60,000 kW and which will produce annually 164,000,000 kW of hydro-electric power. The normal storage level of the reservoir will be 6,64,000 acre feet, the maximum at flood stage will be 12,00,000 acre feet and the low water release will be 4,96,000 acre feet.

The dam was opened by the Prime Minister of India on September 27, 1957 and the power station with all the units are in commercial operation.

The Fanchet dam has been built on the river Damodar about 3 miles above its confluence with the Barakar river. It consists of a main rolled earth dam, 124 ft. high, 7,125 ft. long with a gravity type concrete dam 1,315 ft. long including spillway and a long stretch of dykes on both sides. The overall length of the dam is 22,125 ft. The reservoir capacity to normal storage level is 325,000 acre ft. and the maximum design flood stage is 1,365,000 acre ft.

The power house with an initial installed capacity of 40,000 kW is expected to generate 171,000,000 kWh of power annually.

Work on Fanchet Hill Dam and Power House was expected to be completed by the middle of 1959.

Malihon and Panchet are the two key dams on which flood control and irrigation in the lower Damodar Valley will mainly depend.

The Durgapur Barrage has been completed and was opened by the Vice-President of India on August 9, 1955. Through some reaches of the completed canals, irrigation water was made available for an area of 1.43 lakh acres during 1957-58. It had been programmed to irrigate 3.37 lakh acres of new areas and 1.85 lakh acres of the old Damodar Canal System during 1958-59 (Kharif season). The work on the remaining canals was in progress and was expected to be completed in 1959-60.

The Bokaro thermal station supplied through an expanding network of transmission lines reaching right upto Calcutta 802 million units of electricity in 1957-58. The beneficiaries of the D.V.C.'s power system include such well-known firms as the Tata Iron & Steel Works, Jamshedpur, Indian Iron & Steel Company, Burnpur, the Locomotive Works, Chittaranjan, the Hindustan Cables, Calcutta Electric Supply Corporation, the Eastern Railway, the copper mines at Ghatsila and the coal fields at Jharia and Raniganj.

Work on the transmission system is actively in progress and 600 miles of 132 kV (out of a total of 919 route miles) and 91 miles of 33 kV lines with most of their associated sub-stations, have been completed.

In addition to the unfinished schemes carried over from the First Five Year Plan, the following additional schemes have been taken up during the Second Plan period:

(1) Expansion of the Bokaro Thermal Power Station by the addition of a 75,000 kW generating set, thus raising the ultimate capacity of generation to 225,000 kW. (2) the construction of a second Thermal Station at Durgapur (West Bengal), with a capacity of 150,000 kW. (3) the construction of a third Thermal Power Station at Dugda in the district of Dhanbad (Bihar), and (4) the necessary strengthening of the transmission system.

These extension works are programmed to be completed in time to meet the additional demands for power and new industrial development, such as, the expansion of the steel industry, undertaken by the Government as a part of the Second Five Year Plan; electrification of the part of the Eastern Railway.

First plan outlay Rs. 62.28 crores.

The estimated cost of the project including the new schemes taken up during the period of the second Five Year Plan is about Rs. 132 crores. The aggregate expenditure on the various projects upto the end of June 1959 works out to about Rs. 117 crores.

Budget

Revised estimates (1957-58) . Rs. 17,25,00,000

Budget estimates (1958-59) .. Rs. 17,10,00,000

It may be mentioned here that the Damodar Valley Corporation Act was passed in March 1948, and the Corporation itself came into existence on July 7, 1948.

The manner in which the costs are shared among the participating Governments is as follows:

The total amount of capital allocated to irrigation is shared between the State Governments of West Bengal and Bihar in the following way:

(i) The Government concerned is responsible for the capital cost of the works constructed exclusively for irrigation in its province;

(ii) the balance of the capital cost under irrigation for both the States of West Bengal and Bihar is shared by the State Governments in proportion to their guaranteed annual off-takes of water for agricultural purposes.

The expenditure allocated to power is shared equally by the three participating Governments, (The Central Government, West Bengal, Bihar).

The share of expenditure allocable to flood control is equally divided between the Centre and West Bengal up to Rs. 14 crores, and any amount in excess thereof is the liability of the Government of West Bengal.

It may be added here that the reorganisation of the States of Bihar and West Bengal does not involve any change in the irrigable areas in these States. In regard to power also, no appreciable change is involved as the benefit from the DVC power system will be shared almost equally by the States of Bihar and West Bengal.

Additional supplies to be made over the next two years will be more than 200,000 kW and the demand will fully consume the capacity of the power-stations under construction at Panchet, Durgapur and Bokaro (4th unit) and of the new power station to be constructed at Dugda.

Power is consumed mostly by major industrial concerns, but the D.V.C. also helped considerably in urban and rural electrification.

The Bihar Government upto March 1954 electrified 82 towns, 708 villages, 144 collieries, 93 mica mines, 1,404 surface wells and 998 tube-wells.

The West Bengal State Electricity Board has started distributing D.V.C. power to various industries, distributing licences and other consumers and upto March 1954, electrified seven coal-mines, 17 towns and 22 villages.

The annual gross revenue from power during 1957-58 was Rs. 3.49 crores and in 1958-59 it is estimated to be Rs. 4.49 crores.

With the completion of the Panchet Dam by June 1959, the four dams of the Corporation would provide as much practical flood protection as could be expected and be able to reduce pressure from the maximum of 650,000 cu-secs so far experienced to 250,000 cu-secs, around Burdwan. Actually the four dams controlled the unprecedented flood of September 1958 in the Damodar and the Barakar rivers and reduced the flow to 205,000 cu-secs at the Durgapur Barrage where the peak flow would have been of the order of 665,000 cu-secs but for the dams i.e. well beyond the bank-full capacity of the river.

Considering that the work on the D.V. Project was nearing completion, the D.V.C. Act was amended by an Act of Parliament on 24th Dec 1957 in order that the Corporation may be constituted of part time members if necessary.

Hirakud Dam Project (Orissa).—The Hirakud project was formally opened by the Prime Minister on 19th Jan. 1957. Water from the dam now completed flowed into the Baraghar Canal, the central arterial canal, in July 1956 and water was available for irrigation in September 1956.

The project will irrigate 672,000 acres of land in Sambalpur and Bolangir Districts, and 1,967,000 acres in Cuttack and Puri Districts.

The project was started in 1948. The full project envisages the construction of three dams and two power houses, the first at the dam sight (already in operation) and the second at Chilplima, sixteen miles below the Hirakud Dam.

It will provide 232,500 kW of power.

The project was started in 1948 and will be completed in 1961.

By the end of October 1958, irrigation facilities were ready for an area of 2,41,983 acres. The total area under actual irrigation during 1957-58 was estimated at 2,18,000 acres.

Erection of all the four generating sets in Stage I of the project has already been completed and Hirakud power is now being supplied to Rourkela, Ferromanganese Factory at Joda, Cement Factory at Rajgangpur, Orient Paper Mill at Brajraj Nagar and many other industries in the districts of Cuttack, Puri, Sambalpur, Shenkanal, Sundergarh, Keonjhar, Mayurbhanj, Balasore and Bolangir-Patna. The maximum load developed upto the end of 1958 was 24,000 kW. The installed capacity was to reach the target of 1,23,000 kW by March 1958. Power from the project has been made available since March 1956.

The power will be utilized in the northern part of the State in the following Districts: Sambalpur, Sundergarh, Keonjhar, Mayurbhanj, Dhenkanal, Cuttack, Puri, Bolangir and Kalahandi.

Out of the estimated cost of Rs. 70.78 crores (inclusive of Rs. 1.80 crores spent on Stage II before 1953), a sum of Rs. 59.8 crores was spent upto the end of December 1958.

More details are given below.

The Main Dam 3 miles long flanked with 6½ mile length of dykes on the right side and 6 mile length of dykes on the left in five gaps stretching across low valleys, is essentially a rolled-filled earth dam with two spillways of 1,251 and 971 ft length and Power dam portion of 948 ft length. The spillways contain 64 under sluices of 20' × 4' × 12' and 34 crest bays of 51' × 20', their combined discharging capacity being 1.5 million cu-secs.

The dam is a concrete-cum-masonry-cum earth dam. The maximum height of the concrete dam is about 200 ft of the earth dam 195 ft.

The first stage, which involves the construction of the longest dam in the world, consists of a concrete-cum-masonry-cum-earth dam across the Mahanadi river 9 miles upstream of Sambalpur, the canal on either bank and Hydro Electric installations. The work was started in 1948 and consists of 17 mile long dam and dykes involving 660 million cft. of earth work, 23 million cft. of concrete and 15 million cft. of masonry.

The reservoir created by the dam and dykes will have a capacity of 6.6 million acre ft. of water covering an area of 298 sq. miles. Three flow canals (one from the right dyke and two from the left) will irrigate 6.72 lakh acres in the districts of Sambalpur and Bolangir-Patna. The length of the main canals and branches will be 91.5 miles with 460 miles of distributaries and minors, and 3,000 miles of water courses.

The power from the project will be utilised for giving power not only to the various towns but also to rural areas for which purpose a large system of 22 and 11 K.V. lines are being constructed; power will also be given for small industries and for domestic lighting.

The total estimated cost of the Hirakud Power Utilisation Scheme is Rs. 158.85 lakhs. This does not include the cost of Hydro-Electric works and machinery at Hirakud Dam and also the transmission of energy at 132 K.V. and 66 K.V.

As already mentioned, the whole project has three stages. The first stage consists of the main dam (so-called Hirakud Dam) with its power house for 123,000 kW installed capacity and canal systems at either flank. This stage is complete. The second stage consists of the Chilplima power scheme to develop 72,000 kW, sixteen miles below the main dam and a 57,000 kW unit at the main power house. This is expected

to be completed in 1961 and will cost Rs. 14 crores. The amount spent on this scheme upto end of December 1958 is Rs. 5.40 crores. The third stage aims at the construction of a weir across the Mahanadi above Waraj with canal systems in Puri and Cuttack districts and will cost Rs. 15 crores. This envisages to utilize the discharge from the upper power houses for irrigating an area of 10,80,000 acres annually in the delta.

The immediate benefit from the completion of the first stage will be an additional quantity of 5.6 lakh tons of foodgrains and 2.4 lakh tons of other commodities.

Kakrapar Weir and Canals Project (Bombay).—This Project is a part of the Lower Tapi Valley scheme. It was taken up for execution by the C.W. & P.C. (then known as C.W.I.N.C.) on behalf of the Government of Bombay and was inaugurated on November 1, 1946. It was handed over to the Bombay Government for further execution in June 1954.

The project proposed to be developed in two stages consists of a weir at Kakrapar on the Tapi River whence the Right and the Left Bank canals are taken off to irrigate an area of 5,62,000 acres of seasonal crops in Surat District on the run off of the river. The headworks comprising the weir about 2,039 feet long and 45 feet high above the deepest river bed, the head regulators for the canals and the afflux bunds were completed in the middle of 1953. The Left and Right Bank canal systems comprising the main canals, branches, and distributaries have a total length of 819 miles. These canals are intended to increase food production by 1.6 lakh tons and cotton by 16,000 tons. The work on the main canals is at an advanced stage of construction and that on the branches, mains and minors, etc. is in full swing. Irrigation has already commenced on a part of the area on the left bank canal.

The Right Bank Canal was commissioned in November 1958.

The project which was estimated to cost Rs. 6.26 crores is under revision and is expected to cost about Rs. 18.68 crores. The project will be completed during the Third Plan.

It is also proposed to construct a storage reservoir on the Tapi river, upstream of the Kakrapar weir, in Songad taluka of Surat district to hold a storage of 6.2 M.A. ft. This will be used for assuring supply to 5.62 lakh acres of irrigation planned on the Kakrapar weir and canal project, and will in addition bring new areas to the extent of 3.91 lakh acres including perennials under irrigation on Ukai right and left bank canals in Surat and Broach districts.

The Ukai Dam has great potentialities of development of cheap and economical H.E. power. It will be possible to generate from the storage 110 kW of firm power at 60 per cent load factor. Incidentally, the project will also afford partial flood relief to the flood affected areas of the Tapi river below Ukai. The cost of the full project i.e. for irrigation as well as power on the present estimation will be Rs. 60 crores. A provision has been made for the irrigation part of the project in the Second Plan.

Tungabhadra Project (Andhra, Mysore).—This Project was originally sanctioned by the Governments of Madras and Hyderabad which had territorial jurisdiction over this area at that time, primarily as a famine relief measure. Work on the Project was commenced in 1945 by the Governments of these two States.

It is now being executed by the Governments of Andhra Pradesh and Mysore States which have become successors to the Governments of Madras and Hyderabad in respect of this area on account of the re-organisation of States in India.

The Government of Mysore is solely in charge of the execution of the Project on the northern side of the Tungabhadra River.

On the southern side the Tungabhadra Board constituted under the directive of the President of the Indian Union, is in charge of all common works relating to Mysore State and Andhra Pradesh, and the respective States are in charge of other works in which only the concerned States are interested.

The Tungabhadra Reservoir is 146 square miles in extent and has a capacity of nearly 3.1 million acre feet at the full Reservoir level of plus 1633.

The Tungabhadra Dam across the river Tungabhadra at Mallapuram in Bellary District (Mysore) is 7,942 feet long and 162 feet high at the deepest foundation. There is only one canal on the northern side. This is expected to irrigate about 5,80,000 acres in Mysore State.

There are two canals on the southern side of the river—the Low Level Canal and the High Level Canal.

The former has already been executed and preliminary works in respect of the latter are in hand.

The area irrigated on the southern side is as follows: From the Low Level Canal, Andhra 1,87,000 acres and Mysore 92,000 acres. From the High Level Canal (it is anticipated) Andhra 2,68,500 acres, Mysore 1,86,500 acres.

The areas irrigated from the Low Level Canal in Mysore are in Bellary, and in Andhra Pradesh in Kurnool. The areas irrigated from the High Level Canal in Mysore are in Bellary, and in Andhra Pradesh in Kurnool, Anantapur and Cuddapah.

The High Level Canal will irrigate 3.83 lakh acres land in Bellary in Mysore, Anantapur, Cuddapah and Kurnool districts in Andhra Pradesh.

The 217 mile Low Level Canal, taking off from the right bank, accommodates 2,500 cusecs of water, feed the canal power house at Hampi and irrigates large tracts of land in Andhra Pradesh. The area commanded by the canal is 5.6 lakh acres from which 2.5 lakh acres of land in Bellary district of Mysore and Kurnool district of Andhra can avail supply. The Left Bank Canal takes off from the irrigation-cum-power sluice on the Munirabad side and irrigates 5.8 lakh acres in Mysore State.

Only areas in Mysore are irrigated by the Northern Canal and these are in Raichur Dt.

When completed, the Hydro Electric Scheme on the southern side will consist of 2 Power-houses with 4 generators, each of 9,000 kW capacity making an aggregate of 72,000 kW. The first station is near the Dam and the second about 13 miles along Canal.

The first and the second generators at the Dam power house were commissioned in January 1957 and May 1957 respectively, and the first and second generators at the Canal Power house were commissioned in February and March 1958 respectively.

The balance of four generators in the two power houses will be installed later.

On the northern side of the Project, it is initially proposed to have one power house near the Dam with 4 generators of 9,000 kW capacity each. The civil works relating to this power house are in progress. This power house is expected to be commissioned in 1960-61. It is also proposed to develop later power houses along the Canal.

The expenditure on the northern side of the river will be borne solely by the Government of Mysore.

The expenditure on the southern side for the works executed by the Tungabhadra Board, is

tentatively being shared between the Governments of Andhra Pradesh and Mysore State in the following ratio:

	ANDHRA PRADESH	MYSOORE STATE
Headworks and Low Level Canal	5	4
High Level Canal	65	35
Hydro-Electric Scheme	80	20

The expenditure on the works which are being executed by the Board is as indicated below:

Headworks and Low Level Canal: Rs. 18.52 crores. Hydro-Electric Scheme: Rs. 7.12 crores. High Level Canal: Rs. 21.9 crores.

The Tungabhadra Dam proper was completed in July 1953 except for the installation of spillway gates in the spillway section. This work along with other works e.g. construction of utility towers, concreting the road on the top of the dam etc. have been completed in all respects.

The water for irrigation on the northern side Canal, and on the Low Level Canal on the southern side has been supplied from 1st July, 1953.

Work on the northern side Canal in its length of 127 miles is in progress, about 50% of the work having been completed; the balance is expected to be completed by 1960-61.

Work on the Low Level Canal with entire length of 217 miles, is as already mentioned fully completed.

The preliminary work on the High Level Canal Scheme has been taken up. The actual execution of works was expected to be taken up only on receipt of specific sanction from the Government of India.

The irrigation supplied by water in the southern side of the Project will yield 1.40 lakh tons of food grains and 80,000 tons of commercial crop mostly cotton. Similarly the canal on the northern side will also yield 2 lakh tons of food grains and 2.20 lakh tons of commercial crop consisting mostly of cotton and groundnut.

The estimated cost of the entire project (northern and southern sides) is about Rs. 60 crores which will ultimately add a total of about Rs. 30 crores per annum to the national wealth in the shape of food and industrial production.

Kosi Project (Bihar).—At first the Kosi project envisaged the construction of a dam of the unprecedented height of 783 feet above rock foundations on the Kosi river, a mile upstream of Barahachetra in the Kosi gorge for flood control, power, irrigation, navigation, soil conservation, silt control, fish culture and recreation, etc. The total scheme was to cost Rs. 177 crores, but in view of the prohibitive cost and the long time required for its execution, this plan was abandoned and further investigations to tame Bihar's 'River of Sorrow' were started.

The present scheme estimated to cost Rs. 44.76 crores was prepared by the Central Water & Power Commission in November 1953. The expenditure on the Project upto the end of December 1957 was Rs. 9.48 crores.

The Project consists of four different units as follows:—

(a) Unit I—Hanumannagar Barrage and Head works: This is estimated to cost Rs. 16.79

crores. The barrage is to be constructed about 80 miles below Chitra in Nepal where the river debouches into the plains from the gorge. It consists of a main spillway 3,769 ft. long, with earth dams about 15,500 ft. long on both the flanks connected to two afflux lands 8 miles each on either banks of the river. The functions of the barrage are (i) to arrest coarse silt and flatten the gradient of the river above, (ii) to provide for irrigation of 14 lakh acres and (iii) to develop power that is possible with the available head (The earthquake safety factor adopted in the design of the Barrage is 0.15 g horizontal and 0.10 g vertical.)

(b) Unit II—Flood Banks and Protective Measures: The estimated cost for this is Rs. 11.35 crores involving construction of 75 miles of embankment on the western side below barrage and 68 miles on the eastern side. Besides, a flood bank of 12 miles above the east afflux bund in continuation is also provided. The purpose is to restrict the flood waters between the the embankments, thus preventing the usual spill, and also to stop farther westward translation of the river Kosi.

(c) Unit III—Eastern Kosi Canal System: The canal system at an estimated cost of Rs. 16.42 crores is proposed to have an annual irrigation of about 14 lakh acres in the districts of Purnea and Saharsa.

(d) Unit IV—Hydro-Electricity: A provision of Rs. 1.32 crores has been made for this. It is expected about 15,000 kW can be generated, but the exact scheme is yet to be finalised.

The work on the project is to be implemented by the Government of Bihar. The Central Government will render necessary technical assistance.

The flood banks were taken up for construction first and work near Nirmali on the western embankment was inaugurated by the Chief Minister of Bihar on 14th January 1955. The work on the eastern embankment near Supaul was commenced on 3rd February 1955.

The work on the embankment which was partly done by the local villagers and the Bharat Sewak Samaj was almost completed by the end of March 1954. The preparatory work in respect of the construction of the barrage have been completed. The digging of canals was also taken up in 1957. The project is expected to be completed by 1962-63.

The definite improvement in the economic condition of the people as a whole in the Kosi area, as a result of the Kosi Project, has been brought out by the figures regarding area sown, agricultural output, wells dug and renovated, turnover of the shops, etc. The net area sown per village increased from 619.28 acres, 940.14 acres and 798.09 acres in 1954-55 to 709.02, 946.67 and 840.90 acres in 1955-56 respectively for villages in Supaul, in Nirmali and in the Kosi area as a whole. Paddy output increased from Rs. 6,106.60, Rs. 51,024.00, Rs. 29,585.35 per village in Supaul, Nirmali and in the Kosi area as a whole to Rs. 10,171.28, Rs. 109,524.08 and Rs. 59,847.65 respectively in 1955-56.

While, in 1954-55, a Kosi worker family had a deficit of nearly Rs. 87, in 1955-56 it had gained a surplus position with a surplus over expenditure of nearly Rs. 37.

Rihand (Piper) Dam and Power Station Project (Uttar Pradesh).—This Project is proposed to impound 8.6 million acre feet of water by a 296 feet high dam across the river Rihand, a tributary of the Son, near the village of Piper in Mirzapur Dt. The powerhouse will have five generating sets of 50,000 kW each and a total installed capacity of 250,000 kW. It

will also bring under irrigation about 14 lakh acres of land in U.P. and about 5 lakh acres in Bihar by means of about 4,000 tube-wells.

The estimated cost of the scheme including transmission and transformation, is about Rs. 45.27 crores. Expenditure upto the end of November 1957 was about Rs. 9.40 crores.

The project is under construction and is expected to be completed in 1961.

Nagarjuna Sagar Project (Andhra).—The project in its first stage comprises the construction of a masonry dam 330 feet high above average foundation level and 4,780 ft. long including spillway of masonry dam, across the Krishna river near Nandikonda village in Nalgonda District, about 90 miles below Siddeswaram, and two canals taking off from the reservoir, known as the left and the right bank canals. The dam is situated about ten miles from Machilira railway station. Large areas extending between the Krishna and the Godavari in the north and the Krishna and the Pennar in the south can be commanded by the reservoir.

The right bank canal which will be 135 miles long will carry a discharge of 11,000 cusecs in the first stage. The left Bank Canal will be 108 miles long and will lead up to the river Musura in the first stage.

The storage capacity of the reservoir will be 5.44 million acre feet.

Work was started in Dec. 1956, and the project is expected to be completed by 1964.

The cost of the first Stage of the project, namely, construction of the dam and the two canals is estimated to be about Rs. 91 crores. The total area to be benefited by the project will be 20.6 lakh acres of land spread over the districts of Guntur, Kurnool, Nellore, Warangal and Nalgonda.

The second Stage of the project which will be taken up later will provide for the generation of electric power of 75,000 kW capacity.

The total expenditure incurred for the Project upto the end of December 1957 was Rs. 10.73 crores.

Chambal Project, Stage I (Madhya Pradesh and Rajasthan).

The full development consists of:—

- Three dams across the Chambal River with a power-station at each dam site.
- High tension transmission lines for power transmission to various substations in Madhya Pradesh and Rajasthan.
- A barrage across the river near Kota city to divert the water from the storage and power dams into irrigation canals.
- A net-work of irrigation channels on either bank of river fed from the Kota barrage.

The revised estimated cost of the whole scheme is Rs. 9,027.21 lakhs and the scheme was expected to generate 2,21,000 kW of hydro-electric power, and irrigate 14 lakh acres of land annually in Madhya Pradesh and Rajasthan.

The scheme was proposed to be taken up in three stages, keeping in view the immediate demand for irrigation and a gradual development of power demand. The details of the stages namely the achievements upto September 1956 are as under:—

STAGE I.

The first stage envisages the construction of Gandhi Sagar Dam with power station, Kota Barrage and Canal system. The stage is estimated

to cost Rs. 6,880.37 lakhs and the details in brief on each of these items are as under:—

The Gandhi Sagar Dam which is situated at a distance of 4.5 miles down stream of the Channraigarh Fort is being constructed at the boundary of Rajasthan and Madhya Pradesh States to create a reservoir having a gross capacity of 6.85 million acre feet at the cost of Rs. 1,390.25 lakhs. Nearly 66 per cent of excavation for foundation and 45 per cent of masonry and concrete work on this irrigation-cum-power dam have been completed at an expenditure of Rs. 814.29 lakhs. The Gandhi Sagar Power station which is estimated to cost Rs. 479 lakhs is another work which will generate nearly 92,000 kW of hydro-electric power on completion.

The excavation work on this power station has already been completed and nearly 71 per cent work of masonry and concrete is still to be completed. The total expenditure incurred so far is Rs. 84.32 lakhs.

Kota Barrage which is situated about 32 miles down stream of Gandhi Sagar Dam and about half a mile above the Kota city, is being constructed by the Rajasthan Government to store the released water from the dams and to divert this water into irrigation canals. The construction work on this Barrage, which will be 1,970 ft. long and 120 ft. high, is in progress and nearly 93 per cent, 96 per cent and 48 per cent of rock cutting, stone masonry and concreting work respectively have been completed at an expenditure of Rs. 2.39 crores. The total estimated cost for this work is Rs. 882.55 lakhs.

The two canals namely Right Main Canal and Left Canal which have the gross commanded area of 24.03 lakh acres and 4.81 lakh acres to provide the annual irrigation of nearly 11.4 lakh acres and 2.6 lakh acres respectively, take off from Kota Barrage. The construction work on these Canals is in progress and 81 per cent, 61 per cent and 90 per cent of rock cutting, masonry and concrete and earth work have been completed in case of left canal and in case of right main canal 78 per cent, 64 per cent and 81 per cent work of the same type has been done so far in Rajasthan portion. In Madhya Pradesh 57 per cent of Rock Cutting, 27 per cent of Masonry and Concrete and 31 per cent of Earth work have been completed on right main canal. The total expenditure of Rs. 968.59 lakhs (Rs. 448.66 lakhs for Rajasthan and Rs. 499.93 lakhs for Madhya Pradesh) has been incurred so far as against the total estimated cost of Rs. 2,039.70 lakhs.

The works are already in progress and are expected to be completed by 1962-63.

STAGE II.

- Construction of the Rana Pratap Sagar Dam and the Bhopal Power Station below it to generate 84,000 kW of power at 60 per cent load factor, and suitable extension of transmission lines and substations at an estimated cost of Rs. 1,667.84 lakhs. These works were expected to be started in 1956-59 and completed in 1963-64. This will enable irrigation of a further 3 lakh acres in addition to the generation of extra power.

STAGE III.

This covers for a further development of hydro-electric power by building the Kota Dam about 10 miles upstream of the Kota Barrage with a power station to generate 45,000 kW of power at 60% load factor, and a further extension of transmission lines, etc., at an estimated cost of about Rs. 10 crores. The work on these items has not been taken up as yet.

NET AREA IRRIGATED BY SOURCE, 1951-52.

The following table gives the figures in thousand acres:

STATES AND TERRITORIES	Government Canals	Private Canals	Tanks	Wells	Other Sources	Total
STATES						
Andhra Pradesh	3,129	63	2,690	703	254	6,788
Assam*	178	721	-	-	634	1,533
Bengal (West)	500	902	952	38	485	2,970
Bihar	934	604	755	402	1,710	4,405
Bombay (P)	597	58	500	2,374	196	3,525
Jammu & Kashmir*	136	549	2	6	23	716
Kerala	323	68	77	29	309	811
Madhya Pradesh	915	(a)	293	735	94	2,038
Madras	1,953	(a)	1,999	1,247	107	5,306
Mysore	367	16	759	318	174	1,634
Orissa (P)	497	89	1,223	94	541	2,414
Punjab	5,199	149	18	2,667	43	8,062
Rajasthan	703	-	440	2,155	39	3,336
Uttar Pradesh	4,284	26	1,226	5,934	765	12,235
TOTAL STATES	19,799	3,214	10,878	16,603	5,247	55,841
TERRITORIES						
Andaman & Nicobar Islands	-	-	-	-	-	-
Delhi	33	-	5	40	-	78
Himachal Pradesh	-	-	-	(a)	95	95
Laccadive, Minicoy and Amindivi Islands	-	-	-	-	-	-
Manipur	-	145	-	-	(a)	145
Tripura	-	1	1	(a)	2	4
TOTAL TERRITORIES	33	146	6	40	97	322
TOTAL INDIA	19,832	3,360	10,884	16,643	5,444	56,163

* Excluding N.E.F.A.

P Provisional.

; Excluding Pakistan occupied portions.

(a) Below 500 acres.

GROSS IRRIGATED AREA BY CROPS, 1951-52.

The following table gives the figures in thousand acres:

STATES AND TERRITORIES	Rice	Jowar	Bajra	Ragi	Maize	Wheat	Barley	Other Cereals and Millets	Total Cereals and Millets
STATES									
Andhra Pradesh	8,301	96	180	376	81	12	-	97	7,123
Assam*	1,433	-	-	-	(a)	-	-	-	1,433
Bengal (West)	2,690	(a)	-	(b)	14	51	5	1	2,751
Bihar	3,674	-	-	45	14	218	115	45	4,112
Bombay	727	670	187	8	44	884	26	1	2,432
Jammu & Kashmir*	448	-	1	(a)	73	75	11	29	632
Kerala	758	2	-	(a)	-	-	-	-	760
Madhya Pradesh	1,052	(a)	(a)	-	4	446	114	1	1,617
Madras	5,101	481	276	406	10	1	-	60	6,227
Mysore	1,072	58	5	78	18	21	8	5	1,365
Orissa	2,425	1	(a)	20	5	-	-	2	2,433
Punjab	471	190	325	(a)	430	2,549	144	6	4,115
Rajasthan	15	59	49	-	197	1,323	303	11	2,902
Uttar Pradesh	830	30	10	27	218	4,571	2,278	71	8,025
TOTAL STATES	24,972	1,587	978	955	1,088	10,165	3,654	333	45,638
TERRITORIES									
Andaman & Nicobar Islands	-	-	-	-	-	-	-	-	-
Delhi	1	4	2	-	1	37	2	(a)	47
Himachal Pradesh	53	-	(a)	2	19	54	11	9	148
Laccadive, Minicoy and Amindivi Islands	-	-	-	-	-	-	-	-	-
Manipur	145	-	-	-	-	-	-	-	145
Tripura	-	-	-	-	-	-	-	-	-
TOTAL TERRITORIES	199	4	2	2	20	91	13	9	340
TOTAL INDIA	25,171	1,591	980	957	1,108	10,256	3,667	342	45,978

* Excluding N.E.F.A.

; Excluding Pakistan occupied territories.

(a) Below 500 acres.

(b) Included under Rabi paddy.

GROSS IRRIGATED AREA BY CROPS, 1955-56—contd.

(In Thousand acres)

STATES AND TERRITORIES	Gram	Tur	Other Pulses	Total Pulses	Total Food grains	Sugar-cane	Other Food Crops	Total Food Crops	Cotton	Other non-Food Crops	Total non-Food Crops	Total all Crops
STATES												
Andhra Pradesh	1	4	29	34	7,157	173	264	7,594	17	296	303	7,897
Assam	-	1	15	16	1,449	-	2	1,451	-	82	82	1,533
Bengal (West)	-	-	92	92	2,845	31	139	3,015	-	32	32	3,045
Bihar	20	-	133	153	4,295	82	36	4,383	-	22	22	4,405
Bombay	125	6	8	139	2,631	264	616	3,501	109	444	553	4,054
Jammu & Kashmir	2	(a)	17	19	651	1	26	678	2	58	60	738
Kerala	-	(a)	21	21	781	11	202	994	-	103	103	1,097
Madhya Pradesh	88	(a)	31	119	1,736	96	193	2,025	11	33	44	2,069
Madras	(a)	2	25	27	6,314	121	300	6,735	259	315	574	7,309
Mysore	1	3	4	8	1,373	109	119	1,601	15	155	170	1,671
Orissa	1	4	81	86	2,548	59	128	2,733	6	81	87	2,820
Punjab	1,275	(a)	104	1,379	5,494	341	195	6,030	1,237	1,774	3,011	9,041
Rajasthan	397	(a)	15	412	2,974	60	213	3,252	301	384	685	3,937
Uttar Pradesh	1,029	4	1,354	2,387	10,412	1,794	428	12,634	102	524	626	13,260
TOTAL STATES	2,939	24	1,929	4,892	50,518	3,142	2,844	56,524	2,059	4,293	6,352	62,876
TERRITORIES												
Andaman & Nicobar Islands ..	-	-	-	-	-	-	-	-	-	-	-	-
Delhi	2	-	1	3	50	6	12	68	(a)	10	10	78
Himachal Pradesh	1	-	3	4	152	(a)	5	157	(a)	5	5	162
Laccadive, Minicoy and Amindivi Islands	-	-	-	-	-	-	-	-	-	-	-	-
Manipur	-	-	-	-	145	-	-	145	-	-	-	145
Tripura	-	-	-	-	-	-	4	4	-	-	-	4
TOTAL TERRITORIES	3	-	4	7	347	6	21	374	(a)	15	15	389
TOTAL INDIA	2,942	24	1,933	4,899	50,865	3,148	2,865	56,898	2,059	4,308	6,367	63,265

(a) Below 500 acres.

FLOOD CONTROL

Enormous damage has been caused by floods in India during recent years. The total damage from 1950 to 1956 alone was of the order of Rs. 3,230 million excluding the loss of human beings and cattle and disruption of communication. The relief and rehabilitation expenditure during the same period amounted to Rs. 500 million.

The Government of India, therefore, formulated in 1954 a comprehensive phasal programme, i.e., immediate, short-term, and long-term, of flood protection works.

In the first phase (covering a period of two years), investigation and collection of data, preparation of comprehensive plans, designs and estimates for short-term flood protection works were to be started. During the second phase (covering the next 4 to 5 years), flood control measures, such as, the improvement of embankments and channels will be undertaken. In the third phase, long-term measures such as the construction of storage reservoirs and additional embankments on certain rivers would be done.

The Central Flood Control Board was constituted under the chairmanship of the Union Minister for Irrigation and Power. Its function is to consider schemes proposed by the States and draw up a national flood control programme. Flood Control Boards were also set up in the 12 States except two, Madras and Rajasthan. In addition, four River Commissions, viz., the

Brahmaputra, the Ganga, the North-West Rivers, and the Central Indian Rivers were constituted under the chairmanship of the Chairman of the Central Works and Power Commission to deal with inter-State rivers and basin problems as a whole. A Flood Wing with four Directors has been added to the Central Water and Power Commission. This will function as the technical secretariat to the Central Flood Control Board. It also co-ordinates all flood control works, prepares designs and assists in formulating integrated plans.

It has demarcated flood zones to prevent indiscriminate developmental activities and to stop encroachments on the bed of drainage channels. It has also recommended the levy of flood cess on the beneficiaries of flood control projects. Fifty-four schemes each estimated to cost over a million rupees, and involving a total expenditure of about Rs. 241 million have been approved by the Central Board. Besides, 477 other schemes (each costing less than a million and involving a total outlay of 99.5 million rupees) have been sanctioned in the different States and Territories.

It was reported that the Second Plan allotment for flood control may be pushed up from Rs. 60 crores to Rs. 66 crores.

Till August 1956, flood protection works executed gave protection to 50 lakh acres of land, 42 towns and 4,000 villages.

The Kosi embankment works, the best known of all, afforded protection to a population of 15 lakhs.

During 1955, fairly wide-spread damage occurred in Assam, West Bengal, Bihar, U.P., Punjab, Delhi and Andhra Pradesh. In other States the damage was relatively small. In general, concentrated heavy rainfall and, in a few cases, rainfall of abnormal intensities, as in Delhi and other parts of Andhra Pradesh, were the main contributory factors of floods.

Unprecedented damage occurred in the Vamsadhara, Nagavali, Sarada and Bhuda river basins of Visakhapatnam and Srikakulam districts of Andhra Pradesh.

The financial assistance given by the Centre to the States for flood control works, is in the form of 30-year loans (interest-free for the first five years).

STATES

The progress of flood protection work is described below:—

Andhra Pradesh: By the end of 1957 more than half of the excavation of the channel (for diverting half the flood discharge of Budmura river into the Krishna) had been completed in the Budmura Diversion Scheme.

Assam: Works for the protection of Dibrugarh, Dimaari, Sankuchi, Goalpara, Jangra, Maharkatiya, Nowong, Nilaspara, and Shole towns are completed.

Shifting of Palasbari town and works for the protection of Silohar and Tarabari towns are in progress. The construction of embankments (total earthwork 916 million c.ft.) along the Brahmaputra, the Barak and other rivers is completed. The completed works afford protection against floods to about 0.8 million acres.

For Dibrugarh protection works, the financial assistance given to the Government of Assam was Rs. 23.3 millions (half as grant and half as interest-free loan). Assistance for the other flood protection works is on the general pattern.

West Bengal: Minor schemes have been completed. A major scheme for the protection of the left bank of the Dina River below Kalabari is nearing completion. Works for the protection of Ramanah and Holaparki areas have been taken up.

Schemes already executed for the protection of Jalpaiguri, Cooch-Bihar, Mathabhanga, Alipurdwar, Sovaganj and Siliguri towns have withstood floods.

Bihar: In addition to the Kosi embankments, the length of embankments constructed along other rivers is about 700 miles, and earthwork done is about 1,500 million c.ft. These embankments saved an area of about 1.5 million acres, including large towns like Samastipur, Muzaffarnagar and Khagaria from inundation. Eight of the major schemes and all the minor schemes have been completed. Up to the end of 1954-55, the Government of Bihar had financed the expenditure on flood control works through loans obtained from the Central Government under the scheme of permanent improvements to scarcity affected areas. Loans on the general pattern were granted to Bihar for protection works other than the Kosi Project.

Delhi: Raising and strengthening the left marginal bund along the Jamuna between the Delhi Railway bridge and the Okhla weir, was taken up on an emergency basis to protect Gandhinagar and other colonies against the

1957 floods. About three-fourths of the earthwork has been completed. The Shahdara bund and other protective works already completed withstood the floods well.

Jammu and Kashmir: The first phase of flood control works undertaken for the protection of Srinagar and the rural areas has made good progress.

Kerala: Two minor schemes (each estimated to cost less than Rs. one million) for protection works on the rivers Kililar, Manimala, and Pamba have been approved under the flood control programme.

Orissa: The Dalaghai protection works are completed. Work on the raising and strengthening of the existing embankments is in progress.

Punjab: The construction of apurs for the protection of Indaura town against erosion by the river Beas is completed and similar construction for the protection of Bhadpur village is in progress. Work on the canalisation of Naarala Choe, Kasur Nallah and Pattil Nallah is also progressing. A flood embankment on the right bank of the Beas is under construction.

Tripura: One major scheme for the protection of Agartala town from floods in the Haora river and 6 minor schemes for the protection of towns like, Udaipur, Sonamura, Khowal and Durgapura have been completed. A few minor schemes are under execution.

Uttar Pradesh: A scheme for the construction of embankments along the Ghaghra, the Ganga, and other rivers, for raising the level of village sites and for the protection of Banaras town (Ghats) is in progress. So far, 310 miles of embankments have been constructed and the level of 3,229 village sites have been raised. The embankments afforded protection to an area of half a million acres during the floods. Schemes for the protection of Anupahar and Kankhal towns are under execution.

The Central loans given to the States during 1956-57 and 1957-58 are as follows (in Rs. lakhs): Andhra: 14.25 and nil; Assam: 180 and 112; West Bengal: 210 and 70; Bihar: 375 and 268; Kashmir: 57.5 and 14; Kerala: nil and 5; Orissa: 80 and 49; Punjab: 722 and 128; Tripura: nil; U.P.: 525 and 284.

During 1956-57, loans sanctioned to State Governments amounted to Rs. 8.36 crores and in 1957-58 to Rs. 8.16 crores. The provision for 1958-59 is Rs. 8 crores.

FLOOD CONTROL COMMITTEE

A committee on floods was set up in 1957, to have an adequate assessment of the flood problem in the country and to make recommendations on the measures to be taken to tackle it.

The first volume of its report was published in December 1957. A summary of the recommendations in the second volume was given in the Lok Sabha on February 11, 1959.

The Committee lays stress on the necessity of preparing outline master plans for each river basin which is to be treated as a unit. The data collected so far are reviewed and future investigations indicated.

Faulty land use and destruction of forests are to be checked. Soil conservation has to be undertaken. Low-lying areas may be reclaimed by siltation. Villages may have to be shifted outside the flood courses of rivers. Embankments have to be constructed.

The present number of reporting, self-recording and non-reporting rain gauge stations (3,690; 84; 1,580 respectively) is inadequate. The number of gauge and discharge sites (780 and 669) is also too small. Each important tributary should have a gauge site near the foothills, in the middle reach and near the confluence with the main river. A rapid increase in the number of self-recording river gauges particularly where continuous record of gauge data are needed is also recommended.

FINANCE

SOURCES OF REVENUE AND EXPENDITURE

The principal sources of Central revenue are: customs duties, excise duties levied by the Central Government, corporation tax, income tax (excluding taxes on agricultural income), wealth tax, estate and succession duty, the earnings from the mints, terminal taxes on goods or passengers carried by railway, sea or air, taxes on railway fares and freights, taxes (other than stamp duty) on transactions in stock exchange and future markets, stamp duty on bills of exchange, cheques, bills of lading, letters of credit, insurance policies, transfer of shares, etc., taxes on sale and purchase of newspapers and on advertisements in newspapers.

The railways and the posts and telegraphs contribute to the Central revenues. There are also the profits on the Government industrial undertakings.

About as much as 80 per cent of the revenue is derived from the customs, excise duties, corporation and income taxes.

The principal sources of revenue for the individual States are: State taxes (on agricultural income, lands and buildings, minerals

rights, consumption or sale of electricity, sale or purchase of goods other than newspapers, advertisements other than in newspapers, goods and passengers carried by road or on inland waterways, vehicles, animals, boats, tolls, professions, trades, luxuries, amusements), opiate taxes, stamp duties, excise duties on alcoholic liquors, opium and other narcotics.

A point about the Sales Tax is worth mentioning here. The Union has the power of declaring any commodity as essential for the life of the community and thereby vetoing any sales tax levied on it by a State Government. This power comes from the Essential Goods Act of 1952.

Then there are the subventions from the Central Government. Part of the proceeds of the income-tax are distributed among the States. The jute growing States get part of the proceeds from the export duty on jute. There are also special grants which are made to certain States.

Collection and appropriation of taxes are not always vested in the same authority. Some taxes are levied by the Central Government but collected and appropriated by the States

(stamp duties, excise duties, duties on medicines and toilet preparations). Some are levied and collected by the Union but assigned to the States (succession and estate duties on property other than agricultural, terminal taxes on passengers, railway fares, freights, stock exchange, future markets, newspapers or advertisements). Corporation tax is collected and retained by the Union, but taxes on other incomes are levied and collected by the Union and distributed between the Union and States.

The two biggest items of expenditure of the Central Government are outlay on development programmes (capital account) and defence.

Three important heads of expenditure of the States under the revenue account are: irrigation, security and social services.

Then there is public debt, now almost wholly internal—the rupee debt. This may be divided into three classes, long term loans and money market liabilities, the unfunded debt which includes provident funds, postal deposits, saving certificates, and last the deposits.

The following table shows the budget estimates of the Government of India for 1959-60 as compared with the budget and revised estimates for 1958-59.

		REVENUE (IN LAKHS OF Rs.)		
		Budget 1958-59	Revised 1958-59	Budget 1959-60
Customs	170.00	136.00	130.00	+ 2.77
Union Excise Duties	304.76	301.15	307.00	+ 18.08
Corporation Tax	55.50	56.00	58.75	
Taxes on Income other than Corporation Tax	84.53	86.70	87.63	
Estate Duty	12	12	14	
Taxes on Wealth	12.50	10.00	10.50	+ 2.50
Taxes on Railway Fares	7	11	11	
Taxes on Expenditure	3.00	1.00	1.00	
Taxes on Gift	2.00	1.20	1.20	
Opium	2.87	3.31	3.92	
Interest	6.60	8.26	10.75	
Civil Administration	44.24	45.63	35.80	
Currency and Mint	36.62	34.76	55.00	
Civil Works	2.87	2.87	3.00	
Other Sources of Revenue	32.93	29.31	41.93	
Posts and Telegraphs—Net Contribution to General Revenues	2.34	5.39	4.20	
Railways—Net Contribution to General Revenues	7.04	6.40	5.08	
TOTAL REVENUE	798.01	728.20	757.51	+ 23.35

* Effect of budget proposals.

† Excludes a sum of Rs. 274 lakhs being the share of Union excise duties (basic and additional) payable to the States.

		EXPENDITURE (IN LAKHS OF Rs.)		
		Budget 1958-59	Revised 1958-59	Budget 1959-60
Direct Demands on Revenue	94.45	99.83	101.45	
Irrigation	13	16	16	
Debt Services	40.00	42.06	57.58	
Civil Administration	200.44	197.72	222.73	
Currency and Mint	8.50	9.14	9.53	
Civil Works and Miscellaneous Public Improvements	18.71	19.32	19.35	
Pensions and Privy purses	9.40	9.62	9.63	
Miscellaneous—				
Expenditure on Displaced Persons	20.48	24.75	19.69	
Other Expenditure	50.23	57.82	71.20	
Grant to States, etc.	47.03	46.95	49.02	
Extraordinary Items	22.40	15.21	35.25	
Defence Services (Net)	276.14	296.87	243.88	
TOTAL EXPENDITURE	794.01	785.15	835.15	
SURPLUS (+)				
DEFICIT (-)	- 23.02	- 56.95	- 56.95	

HEADS OF REVENUE

Here are some heads of revenue not shown above or not shown separately (figures in lakhs of rupees):

Land revenue 54; State excise duties 156; Stamps 3.40; Forest 2.78; Registration 11; Taxes on Vehicles 42; Sales tax 2.33; Other taxes and duties 1.75; Posts & telegraphs (gross) 69.24; Administration of Justice 13; Jails and convict settlements 1; Police 63; Ports and Pilotage 32; Lighthouses and Lightships 48; Education 35; Medical 29; Public Health 14; Agriculture 65; Veterinary 23; Co-operation 5; Aviation 93; Broadcasting 2.12; Miscellaneous departments 2.95; Currency 42.09; Mint 13.51; Receipts in aid of Superannuation 55; Stationery & Printing 30; Extraordinary receipts 15.13.

HEADS OF EXPENDITURE

Here are some heads of expenditure not shown in the table below or not shown separately (figures in lakhs of rupees):

Civil works 18.29; Multi-purpose river schemes 1.01; Territorial & Political pensions 25; Privy purses and allowances to Indian rulers 5.42; Superannuation allowances & pensions 3.06; Army 150.51; Navy 17.91; Air Force 53.24; Defence Services (non-offensive) 16.02; Grants-in-aid to States 49.84; Miscellaneous adjustments between Union and State Governments 18; Extraordinary charges 15.00; Community Development Projects 19.99; Civil Defence 1; Pre-partition payments 27.

DEMANDS FOR GRANTS

Below are some Demands for Grants and Appropriations (figures are in thousands of rupees):

Posts and Telegraphs Department 69.97.48; Meteorology 1.62.47; Overseas Communications Services 1.39.54; Aviation 7.09.37; Archaeology 1.07.06; Education 31.12.48; Tribal areas 6.70.50; External Affairs 9.76.16; Territorial and Political Pensions 25.34; Forest 2.59.30; Agriculture 10.04.89; Civil Veterinary Services 2.62.73; Medical Services 6.63.09; Public Health 16.55.07; Cabinet 37.33; Police 5.43.43; Census 18.31; Andaman and Nicobars 2.11.39; Broadcasting 4.64.47; Survey of India 1.61.14; Botanical Survey 15.25; Zoological Survey 11.35; Scientific Research 12.06.58; D.P.'s 10.46.15; Ports and Pilotage 68.84; Lighthouses and Lightships 1.26.37; Central Road Fund 2.28.35; Communications (including national highway) 6.64.57; Stationery and Printing 7.77.43; Parliament 1.25.16; Secretariat of Vice-President 64; Staff, Household and allowances of President 25.19; Union Public Service Commission 42.64.

CAPITAL TRANSACTIONS

Receipts are as follows (in lakhs of rupees):

	Revised 1958-59	Budget 1959-60
New Loans	740.77	524.77
Net Receipts from:		
Treasury Bills	- 20.00	260.00
Treasury Savings Deposit Certificates	5.70	8.50
Post Office Savings Bank	18.00	20.00
12-Year National Plan Saving Certificates	80.00	85.50
Cumulative Time Deposits	50	2.00
Post Office Cash Certificates	- 80	- 70
National Savings Certificates	- 26.82	- 28.27
Defence Savings Certificates	- 3	- 3
National Plan Certificates	- 2.30	- 3.00
Other Unfunded Debt	17.48	21.38
Railway Depreciation Fund		
Revenue Reserve Fund (Railways)	- 39.74	- 17.54
Railway Development Fund		
Telephone Development Fund	- 1.05	- 90
P. & T. Renewals Reserve Fund	1.48	2.14
Other miscellaneous Reserve Funds	- 55	- 17
Appropriations for Reduction or Avoidance of Debt	5.00	5.00
Income-tax Deposits (net)	- 4.14	- 11
Discount Slaking Fund (net)	2	1.95
Payment by Reserve Bank for Rupee Coin	5.00	5.00
Repayment of Loans by States	78.98	95.37
Other Loan Repayments	15.57	15.32
Other Deposits and Advances (net)	47.44	94.67
15-Year Annuity Certificates	77	1.20
Inter-State Debt Settlement—India, Burma	—	—
Total	921.34	11,87.32
Deficit on Capital Account	—	—
	921.34	11,87.32

Disbursements are as follows (in lakhs of rupees):

	Revised 1958-59	Budget 1959-60
Capital Outlay—		
Railways	120.88	121.81
Irrigation	18	14
Posts & Telegraphs	11.17	15.44
Schemes of Agricultural Improvement and Research	75	4.93
Industrial Development	186.66	64.28
Aviation	2.24	4.38
Broadcasting	60	1.05
Ports	2.35	2.43
Currency & Coinage	3.65	98.63
Mint	49	49
New Capital at Delhi	6.95	7.39
Multi-purpose River Schemes	3.42	3.23
Electricity Schemes	39	85
Civil Works	17.28	18.38
Commutation of Pensions	- 38	- 36
Starling Pensions	- 28.22	- 2.50
Defence Capital Outlay	27.90	32.74
Schemes of Government Trading	29.03	32.04
Development Grants	9.20	12.93
Displaced Persons	6.65	4.55
Dandakaranya Development Scheme	1.24	5.72
Shipping Tankers	—	78
Transfer of Development Assistance from U.S. Government	18.78	57.39
Other Works	1.14	1.49
Other Civil Heads	29	41
Discharge of Permanent Debt	29.09	127.04
Discharge of Special Floating Debt	3.37	3.43
Advance to State Governments	300.41	291.05
Other Loans and Advances	115.91	206.36
Inter-State Debt Settlement	12	—
Total	883.06	11,05.44
Surplus on Capital Account	58.26	51.88
	921.34	11,87.32

SPECIFIC ALLOTMENTS

The following specific allotments for 1959-60 may be noted (figures in lakhs of rupees):

Council of Scientific and Industrial Research	2.00 00	Buildings for the Atomic Energy Establishment	157 00	National Coal Development Corporation	50 00
Salt Works	12-04	Zerlina Reactor	21-00	Diesel Engine Factory	0 01
Hindustan Shipyard Ltd.	28-54	"Apsara" Reactor	1-00	Dry Freeze Vaccine Laboratory	0-52
Indian Refineries Ltd.	170 00	Other Development Expenditure of Atomic Energy Establishment	76 00	Mysore Iron & Steel Corporation	1 00
Overseas Communications Service	35-00	Uranium metal processing plant	2-00	Institute of Small-scale Industries	19 00
Eastern Shipping Corporation	1,95-00	Hindustan Machine Tools Ltd.	54-78	Hindustan Salt Ltd	25-00
Air Corporation (Indian Air Lines)	80-16	Handicrafts Corporation	10-00	Hindustan Housing factory	13-50
Air Corporation (Air India International)	2,38-00	Hindustan Heavy Engineering Corporation	1,35 00	Establishment of Second Shipyard	0-05
Oil Exploration Scheme	3,28-98	Equipment for School of Mines and Applied Geology	5-00	Purchase of Shares in Neyveli Lignite Corporation	13,00-00
Rehabilitation Industries Corporation	1,00-00	Drugs and pharmaceuticals Projects	45-00	Purchase of Shares in Nangal Fertilizers and Chemicals Ltd.	6,00-00
Hindustan Antibiotics Ltd.	10-00	Bolan Ores (Private) Ltd.	5-05	Purchase of Shares in Heavy Electricals (P.) Ltd.	7,00-00
Thorium Uranium Plant	5-00	Ashoka Hotels Ltd.	50-00	Western Shipping Corporation	1,00 00
Pilot Plant at Ghatinsia	1-00	Oil India (Private) Ltd.	2,00-00		
Acquisition of Land for Atomic Energy Establishment	71-00	Sigaram Collieries Ltd.	1,20-00		
Canada-India Reactor	50-00				

DEBT POSITION

At end of 1958-59: Rs. 4,906.82 crores.

At the end of 1959-60: Rs. 4,321.21 crores.

A broad analysis is given below (figures in rupee crores):

	As on March 31, 1959	As on March 31, 1960		As on March 31, 1959	As on March 31, 1960
Rupee Loans:			Sterling Loans:		
Current Loans	2,163.80	2,292.25	Current Loans	22.12	58.11
Treasury Bills and Ways and Means Advances	1,575.12	1,535.12	War Contribution	20.63	20.63
Special Floating Loan	2,04.43	2,96.24	Capital portion of Railway Annuities	—	—
Expired Loans	12.12	15.85	U.K. Syndicate of Banks	8.67	13.33
Total	2,975.47	4,139.46	Expired Loans	0.03	0.03
			Total	51.44	92.08
			Dollar Loans	2,46.80	4,15.16
			Loan from U.S.S.R.	40.89	61.24
			Loans from W. Germany	33.71	64.68
			Dollar loans (Canada)	15.71	15.71
			Loans from Japan	1.60	12.79
			Loans to be negotiated next year	—	20.00
			Grand Total	4,906.82	4,321.21

INTEREST-BEARING OBLIGATIONS AND INTEREST-YIELDING ASSETS

The obligations are as follows (figures in rupees crores):

	Revised 1958-59	Budget 1959-60
IN INDIA:		
Public Debt.—		
Loans	2,183.80	2,292.25
Treasury Bills and Ways and Means		
Advances	1,275.12	1,535.12
Special Floating Loan	—	23.81
Total public debt (India)	3,458.92	3,851.18
Unfunded Debt.—		
Service Funds	0.26	0.24
P.O. Savings Bank Deposits	3,57.72	3,77.72
P.O. Cash and Defence Savings Certificates	1.02	0.29
National Savings Certificates	1,89.34	1,61.07
10-Year National Plan Certificates	20.93	17.93
State Provident Funds	2,12.44	2,32.53
Ten-Year Treasury Savings Deposit Certificates	55.67	54.17
Cumulative Time Deposits	0.80	2.50
12-Year National Plan Savings Certificates	1,61.44	2,36.94
Other Items	17.30	18.61
Total Unfunded Debt (India)	1,006.62	1,112.00
Deposits.—		
Depreciation, Development and Reserve Funds	1,13.61	97.07
Other deposits	13.74	13.54
Total deposits (India)	1,27.35	1,10.61
Total obligations in India	4,582.89	5,073.79

	Revised 1958-59	Budget 1959-60
IN ENGLAND:		
Public Debt.—		
Loans	22.12	56.11
U.K. Syndicate of Banks	8.67	13.33
Total public debt (England)	30.79	71.44
Dollar Loans (U.S.A.)	2,46.60	4,15.16
Dollar loans (Canada)	15.71	15.71
Loan from U.S.S.R.	40.89	61.34
Loan from W. Germany	35.71	64.66
Loan from Japan	1.00	12.79
New loans to be negotiated	—	20.00
Total interest-bearing obligations	4,063.59	5,734.89

Assets

The interest-yielding assets are as follows (figures in crores of rupees):

Capital advanced to Railways	1,343.31	1,465.12
Capital advanced to other commercial departments	1,46.49	2,09.37
Investments in commercial concerns	4,16.71	4,61.00
Capital advanced to States	1,432.60	1,628.31
Other interest-bearing loans	2,99.21	4,90.25
Purchase of annuities for sterling pensions	20.64	20.03
Debt due from Pakistan	3,00.00	3,00.00
Total interest-yielding assets	3,994.96	4,574.08
Cash and securities held on Treasury account	57.61	55.76
Balance of total interest-bearing obligations not covered by above assets	9,07.02	1,105.05

CENTRAL HELP TO STATES

The following allotments to States are provided for in the 1959-60 budget (figures in lakhs of rupees)

Share of taxes and duties: 164.62
Grants and subventions from revenue: 156.54
Grants and subventions from capital: 22.10
Loans: 312.69
Grand total of allotments to States: 655.95

Important Lump sum grants to States are as follows (figures in lakhs of rupees).

Substantive provision of Article 275(1) of Constitution 36.25; provision to Article 275(1) 8.35, Article 273 of Constitution 3.15; Agricultural production 7.60; Community Development 14.74, National Extension Service 2.20; Education Schemes 16.18; Scientific and technical education 2.15; national malaria eradication 7.40; Welfare of backward classes 7.82; national employment service and training 4.61; development of handloom industries 3.00; rehabilitation of displaced persons 3.63; natural calamities 5.00

raising the emoluments of low-paid employees 16.45.

Lump sum loans as follows:

Irrigation and multipurpose river schemes 75.68, Miscellaneous Development 29.33, Agricultural Production, animal husbandry, etc. 49.65; Rehabilitation 10.37; Industrial Housing 14.59, Permanent improvement in scarcity areas 12.75, Natural calamities 49; Handloom and Small-scale Industries 1.00, Flood control schemes 5.35; urban water supply scheme 6.40; sharing of small savings 55.00, Other loans 46.75; Total loans 312.69.

ALLOTMENTS BY CENTRE STATE-WISE (1959-60)

The following table shows State-wise distribution of income-tax, etc. (figures in lakhs of rupees):

	Income-tax	Union Excise duties	Additional Excise duties	Estate Duty	Tax on Railway Passenger Fares
Andhra Pradesh	6.38	3.04	2.67	21	97
Assam	1.92	1.12	1.03	5	30
Bihar	7.62	3.42	1.93	18	1.02
Bombay	12.56	3.94	10.95	49	1.77
Kerala	2.96	1.24	1.17	7	20
Madhya Pradesh	5.28	2.42	2.07	14	91
Madras	6.60	2.45	3.39	27	70
Myore	4.04	2.11	1.36	14	48
Orissa	2.93	1.44	1.06	7	19
Punjab	3.33	1.49	2.31	10	86
Rajasthan	3.22	1.62	1.22	10	74
U.P.	12.86	5.16	6.86	28	2.04
W. Bengal	7.52	2.46	3.59	49	69
Jammu & Kashmir	89	87	81	2	..

TAX CHANGES

The following are the new tax proposals :

DIRECT TAXATION

Income-Tax.—The sections of the Income-Tax Act dealing with company profits and dividends are sought to be amended on the lines mentioned by the Finance Minister in his speech to give effect to his revised scheme of taxation of company profits and dividends. These include the abolition of tax credit (S. 49 B(1), abolition of adjustment to tax credit (S. 49 C), abolition of grossing of dividends (S. 16 (2)), abolition of recovery from shareholders on account of non-payment of tax by companies (S. 35 (9)) and deduction of tax at source on dividends (S. 18).

Section 18-A of the Income-Tax Act dealing with advance payments of income-tax is proposed to be modified in its application to companies in view of the Finance Minister's proposals to revise the rates of tax on company profits from 1960-61. Indian companies will now pay during 1959-60, as advance payment of tax for 1960-61, 20 per cent. income-tax and 25 per cent. super. Foreign companies will pay as advance payment, 20 per cent. income-tax and 45 per cent. super tax.

Capital gains of companies are now to be subject both to income-tax and super tax instead of only to income-tax as at present but the total incidence is reduced from the present level of 31.5 per cent. to 30 per cent. At present capital gains of companies are subject to income-tax at 31.5 per cent but not to super tax. Under the new scheme, capital gains of companies will be subject to 20 per cent. income-tax and 10 per cent. super-tax.

The main points of this scheme are briefly these. The legal fiction of deeming the Income Tax paid by the company as having been paid by the shareholder and the complicated process of "grossing" the dividends received by the latter will be abolished. The over-all tax rate hitherto applicable to Indian companies will be so fixed that the yield will be equal to the present annual gross yield less the annual credit now given to the shareholders. The tax liability of the shareholders will no longer be related to the tax borne by the companies. So far as the shareholders are concerned, companies will deduct tax at a prescribed flat rate and credit it to Government. This tax will be re-imbursed to the shareholders at the time of their assessment as done today in the case of interest on Government securities. There will be a scheme for issuing exemption certificates for small shareholders so that the question of reimbursement does not arise in their case.

The scheme will be implemented in two stages. In the first stage, that is, during 1959-60, Income Tax will be deducted by the companies at the same rate as for Government securities from dividends distributed by them but only from dividends declared for the year the profits of which will be assessed to tax in 1960-61—for example, dividends declared for the year ending June 30, 1959. Dividends declared for any earlier year, the profits of which are assessable in 1959-60 (for example, dividends for the calendar year 1958) will not be subject to this deduction and will continue to be assessed under the existing provisions. During the second stage, that is during 1960-61, the overall tax rate applicable, to the companies under the scheme will come into operation. The present scheme of "grossing" of dividends will cease to operate from April 1, 1960 in respect of dividends declared for the accounting year relevant to the assessment year 1960-61 and subsequent years.

As part of the scheme of simplification of company taxation, it is proposed to combine in the Income Tax and super tax rates of companies, the net incidence of the present taxes on income, excess dividends and wealth. For purposes of advance payment of tax by companies under Section 18-A of the Income Tax Act, a rate of 20 per cent for income Tax and 25 per cent for super tax, that is to say, a total of 45 per cent, is proposed. This rate will secure the same revenue as is at present derived from the taxes on the

wealth and profits of companies and it is, therefore, proposed to abolish the Wealth Tax on companies and the Excess Dividends Tax.

The changes in company taxation will not affect the divisible pool of Income tax in the coming year. In 1960-61 a part of the tax now accruing to the pool may not, for technical reasons, be treated as divisible. It is Government's intention to secure that, until the matter has been examined by the next Finance Commission, the State Governments continue to receive as their share of income tax about the same amount which they would have received had this change not been made.

Foreign companies which declare dividends outside India will, of course, not be subject to the scheme, some adjustment is, however, necessary in the rates applicable to them on account of the withdrawal of the Wealth Tax on companies. The present rate applicable to such companies is 61.5 per cent. It is proposed to raise it to 65 per cent, with effect from 1960-61.

Before leaving the subject of company taxation, one further change effected is to be mentioned. While ordinary bonus issues are subject to tax, bonus issues which are made out of share premium accounts are not now taxed. With effect from 1960-61 these issues are also to be subjected to taxation like other bonus issues.

In view of the proposed new scheme of company taxation, Section 23-A companies (companies in which the public are not substantially interested) will be required, in order to avoid the penal provisions, to distribute as dividends 50 per cent. of their industrial profits and 65 per cent. of the non-industrial profits remaining after payment of tax. At present these respective percentages are 45 per cent. and 60 per cent.

A number of other changes have also been proposed in the Income-Tax Act.

At present income, accruing or arising outside India, but not remitted to India in the same year, is exempt up to a maximum of Rs. 4,500. This exemption is now to be abolished.

The present exemptions from income-tax to non-residents in respect of incomes arising out of India will not apply to salaries paid out of the public revenues of India (exclusive of all allowances and perquisites granted to meet the cost of having to stay abroad) irrespective of the period of a Government employee's stay abroad.

The company deposit scheme, which was suspended last year, is now proposed to be abolished.

The Government is to be empowered to enable it to give effect to its agreement with the Assam Oil Company, with which it is associated in prospecting, extraction and production of mineral oil for granting special allowances on account of exploration expenses, intangible capital expenses and depletion.

Wealth-Tax: Changes are also proposed in the Wealth Tax Act.

For the purposes of computation of wealth tax, taxes (1) outstanding and disputed by the assessee in appeals, and (2) outstanding otherwise for more than one year on valuation date will not be regarded as debts for deduction in computing the assessee's net wealth. This provision will have retrospective effect.

Income tax arrears on 31st March 1956, 1957 and 1958 were respectively (Rs. crores) : 233.59, 287.33 and 287.32.

This included demands not fallen due as follows (Rs. crores) : 46.71, 52.37, 52.66.

The total number of assesses with tax arrears of over a lakh was 2,776 on Sept. 30, 1958.

New Rate: The new rate of wealth tax, incorporating the half per cent. increase on all slabs, are :

On wealth above Rs. 2 lakhs and up to Rs. 12 lakhs for individuals (above Rs. 4 lakhs and up to Rs. 13 lakhs for Hindu undivided families)—one per cent. :

On wealth above Rs. 12 lakhs and up to Rs. 22 lakhs for individuals (above Rs. 13 lakhs

and up to Rs. 23 lakhs for Hindu undivided families)—1½ per cent.;

And on wealth above Rs. 22 lakhs for individuals (above 23 lakhs for Hindu undivided families)—2 per cent.

The existing flat rate of half per cent. on wealth of companies in excess of Rs. 5 lakhs will continue to apply during 1959-60.

As regards the Expenditure Tax Act, the definition of "dependant" is to be amended. The wife and children of an assessee are to be regarded as dependants whether they are wholly or mainly dependant on him for support and maintenance or not for the exemption limit of Rs. 30,000 in the matter of non-taxable expenditure and not as separate assesses if they have incomes in their individual rights. Any other person actually dependant on an assessee for support and maintenance, will also be regarded as dependant.

All the expenditure of a dependant is to be included in an assessee's expenditure irrespective of the source from which the dependant's expenditure has been met. Hitherto, only the expenditure met out of any gift donation or settlement or trust made or created by the assessee is to be included.

Expenditure Tax. Some of the existing exemptions and deductions for expenditure tax are to be modified. In respect of expenditure on repairs and maintenance of buildings, the expenditure incurred by way of repairs and maintenance in respect of owner-occupied property is to be treated as personal expenditure. Hitherto, the rent paid by an assessee for a residential house as also the money spent by him on its maintenance or repairs is treated as personal expenditure. But in the case of an assessee occupying his own house, not only is no adjustment made for the saving of rent in the computation of his expenditure but he is also entitled to claim exemption for personal expenditure against repairs and maintenance of the House. This anomaly is now to be removed.

Expenditure on bullion precious stones or jewellery which is at present completely exempt, will hereafter be treated on the same lines as expenditure on other articles for personal use. Such expenditure is charged to expenditure tax with the concession of its being distributed over a period of five years.

INDIRECT TAXATION

In the field of indirect taxation, the proposals are mostly by way of readjustments of rates and concessions in the existing duties of excise.

The duty on refined diesel oils and vapouring oils is being raised from 40 naye Paisa per imperial gallon to 80 naye Paisa. There is at present a price advantage in favour of diesel oil of which we have to import substantial quantities. Both as a measure of increasing revenue and conserving foreign exchange the proposed increase is justified. As a consequential adjustment, the rate of duty on low-speed diesel oil is also being increased from Rs. 40 per ton to Rs. 50 per ton, the total yield from these two measures will be Rs. 7.85 crores a year.

The duty on art silk fabrics is being raised from 8 pies per square yard to 6 naye Paisa per square yard. Simultaneously the exemption in the present form in respect of products of the first nine looms will be reduced to four looms. The increased levy is amply justified by the large profits which are made by the industry. The estimated yield will be Rs. 1 crore a year. The lowering of the exemption will also bring in Rs. 20 lakhs by way of additional duties which accrue to the States.

The rates of basic compounded duty on art silk fabrics have been revised consequent on the increase in the basic excise duty.

Per Powerloom per month	Existing Rate	Proposed rate
	Rs.	Rs.
(A) First shift ..	27	50
(B) Second shift ..	18	35
(C) Third shift ..	18	30

The rates of duty for warp-knitting machines will be double the rates for powerlooms.

The existing rate of duty on teas is re-adjusted so that teas grown in certain parts of Darjeeling and the Nilgiris will get relief of four nP. per pound against the existing duty of ten nP. per pound. It is now proposed that in Zone III-A, the duty will be eight nP. per pound and in Zone III-B, 12 nP. per pound.

Rayon Fibres: The duties on rayon and synthetic fibres and yarn have also been increased as follows:

Rayon Yarn: (I) below 75 deniers from Rs. 0-8-0 per lb. to Rs. 0 80 per lb.;

(II) 75 deniers and above but not above 100 deniers from Rs. 0-8-0 per lb. to Rs. 0-60 per lb.;

(III) Above 100 deniers from Rs. 0-4-0 per lb. to Rs. 0-40 per lb.;

Staple Fibre: Rs. 0-2-0 per lb. to Rs. 0 20 per lb.

The effective rates of duty on rayon yarn and staple fibre are also being raised by 60 per cent. to yield an additional Rs. 60 lakhs.

(56) The duty on motor vehicles tyres is being raised from 80 per cent. ad valorem to 40 per cent. ad valorem. There will be no change in the rate of duty on cycle tyres. The additional revenue is estimated at Rs. 1-75 crores.

An increase is also being made in the duty on vegetable product which will increase from Rs. 7 per cwt. to Rs. 8 75 per cwt. with a corresponding adjustment in the exemptions in favour of the small producers. The additional revenue will be Rs. 96 lakhs.

Vegetable non-essential oils were first subjected to excise in 1956, but some preference to medium and small scale producers was given by exemption of production up to 125 tons per annum on a slab basis. In 1957 the free slab was brought down to 75 tons and lower rate of duty levied on production between 75 tons and 125 tons. These concessions have been reviewed and it is now proposed to withdraw the exemption from all power driven units and limit the concessional levy to only the first 75 tons of production. These changes, which will be made by notification and will not affect village plants in any way, are expected to yield Rs. 4-4 crores.

Sugar Margin: Khandari sugar is now exempt from excise duty but pays the usual sales taxes. There has always been a fiscal preference in favour of this sugar but, with the recent substantial increases in the duty on crystal sugar, this preference has further widened resulting in the shift of production to this form of sugar. There are cogent reasons for reducing the margin and this is being done by the levy of the basic duty of Rs. 5-60 per cwt., with an additional duty of 70 naye Paise in replacement of the sales taxes. The basic duty will yield Rs. 1-82 crores and the additional duty, which will accrue in its entirety to the States, Rs. 25 lakhs.

Certain adjustments are also being made in the duty on various kinds of cigarettes involving an increase of 16 per cent in the level of duties for cigarettes taken as a whole. These adjustments are expected to yield a revenue of Rs. 1-5 crores.

Tobacco Revision: Incidentally, the present tariff on unmanufactured tobacco has led to some diversion to biri-making of tobacco which was previously used for hookah. There are powers to assess at the higher rate such varieties of tobacco as may be specially notified and as are actually used for the making of biri.

(62) The incidence of excise and export duties on tea has been under continuous review. It has been decided to readjust the rate of Excise duties on the teas grown in certain areas of the country and to reduce, at the same time, the effective rate of export duties from 86 naye Paise per lb. to 24 naye Paise per lb. These changes will result in an additional revenue of Rs. 58 lakhs under Union excise and a reduction of Rs. 93 lakhs in the yield from the export duty. In the net, the industry will benefit to the extent of Rs. 35 lakhs.

The total additional revenue from the various measures just mentioned will amount to Rs. 20-85 crores from the basic duties and Rs. 45 lakhs from the additional duties in replacement of sales taxes which accrue to the states,

As the reader is aware, the basic duties on tobacco, vegetable product, tea, sugar and vegetable non-essential oils are shared with the States in accordance with the award of last Finance Commission. Twenty-five per cent. of the net additional revenue from these commodities will have to be distributed to the States after deducting the cost of collection. This payment will be of the order of Rs. 2-27 crores. Allowing for this and for the additional duties to be paid to them, I am taking the net additional revenue from changes in union excise duties at Rs. 18-08 crores.

As regards the Customs Act the Customs duty on cinematograph films unexposed is to be increased from Rs. 1-75 per 100 linear feet at present to Rs. 2 per 100 linear feet. The increased revenue is to be used to finance the Film Finance Corporation.

The Customs duties on imports of rubber tyres and tubes for motor vehicles, diesel oils not otherwise specified, high speed diesel oil, art silk fabrics, staple fibre and art silk yarn are also being increased in line with the increased excise duties on these commodities produced within the country.

The export duty on tea is being reduced by notification from 26 nP. per lb. to 24 nP. per lb. as a measure of relief to common teas and to improve the competitive position of Indian teas in foreign markets.

The net effect of the taxation proposals are summarised here. The changes in the Union excise duties, excluding the share that accrues to the States, will yield Rs. 18-08 crores. The changes in Customs duties will bring in Rs. 2-77 crores and the increase in the Wealth Tax Rs. 2-5 crores, a total of Rs. 23-35 crores. This will reduce the deficit on revenue account from Rs. 81-67 crores to Rs. 58-32 crores, about the same amount as in the current year which is

left uncovered. The overall budgetary deficit will also be reduced from Rs. 245 crores to Rs. 228 crores.

OTHER CHANGES

Certain changes made in the 1959-60 budget are given below:

Compulsory Deposit Scheme: The scheme which was in operation during 1957-58 but was suspended during 1958-59 has been abolished.

Section 23A Companies: The rate of tax in respect of high dividends above 18 per cent. by Section 23A Companies continues to be 20 per cent. Hitherto, these companies were required in order to avoid the penal provisions of the Section, to distribute as dividends at least 45 per cent. of industrial profits and 60 per cent. of non-industrial profits remaining after payment of tax. These percentages have been raised to 50 and 65, respectively, with a view to ensuring that the profits retained by these companies after the introduction of the new scheme remain, without being subjected to penal tax, at the same level as before the introduction.

Development Rebate: If the total income for any year before allowing development rebate falls short of the full amount of rebate, the rebate to be allowed for that year will be limited to such total income. The balance of the rebate will be allowed to be carried forward for being claimed in the succeeding year or years. The number of years for which it can be so carried forward will, of course, be restricted to eight, which is the number of years for which unabsorbed losses can be carried forward under the present law.

The amount to be taken to the reserve need not exceed 75 per cent. of the amount of the rebate claimed.

The double depreciation allowance has lapsed with effect from the financial year, 1959-60.

EXCISE

The following are the details of revenue from Union excise duties in lakhs. of rupees:—

Basic Excise Duties.	1957-58	1958-59	1959-60	1960-60
	Accounts	Budget	Revised	Budget
Motor Spirit	30,85	32,00	32,39	33,25
Kerosene	3,08	3,45	4,20	5,08
Sugar	42,75	42,00	46,00	46,00
Matches	16,08	15,83	17,70	18,00
Steel Ingots	0,25	0,66	7,00	8,00
Tyres and Tubes	3,57	0,20	0,20	0,20
Tobacco	45,49	42,44	41,91	41,99
Vegetable Products	3,62	3,98	3,98	3,98
Coffee	1,32	1,30	1,30	1,30
Tea	3,86	4,40	6,20	6,20
Cotton Cloth	64,80	50,39	42,64	42,64
Artificial Silk	1,69	80	80	80
Cement	11,17	13,00	13,83	14,08
Footwear	97	98	1,05	1,05
Soap	1,76	1,65	1,85	1,85
Woollen Fabrics	61	60	62	62
Electric Fans	46	45	45	45
Electric Bulbs	30	30	30	30
Electric Batteries	80	81	85	85
Paper	5,39	5,20	6,50	6,50
Paints and Varnishes	1,30	1,10	1,22	1,30
Vegetable non-essential oils	0,80	0,50	0,60	0,50
Refined Diesel Oils and Vapourising Oils	7,01	7,50	8,74	9,40
Industrial Fuel Oils—				
Diesel Oil	3,24	2,86	4,45	4,61
Furnace Oil	29	30	1,32	1,40
Rayon and Synthetic Fibres and Yarn	33	22	16	22
Motor Cars	2,88	2,45	2,00	2,25
Coal Cans	12	7	7	7
Cans on Copra	91	15	23	23
Cans on Oil and Oil-seeds	4,74	51	51	51
Miscellaneous				
Total Gross Revenue	2,74,51	2,67,23	2,64,50	2,70,26
Deduct—Refunds and Drawbacks	— 3,50	— 4,00	— 4,50	— 4,50
Total-Net Revenue	2,71,01	2,63,23	2,60,00	2,65,76
Additional Excise Duties				
Sugar .. .. .	..	12,18	12,66	12,66
Textiles .. .. .	..	21,90	21,19	21,19
Tobacco .. .. .	..	7,40	7,10	7,10
Total	2,61	41,48	41,15	42,15
Grand Total—Union Excise Duties	2,73,62	2,64,70	2,61,15	2,67,91

CUSTOMS

The import tariff is cast in the form of a commodity schedule with broad distinctions indicating the treatment to be accorded to various classes of articles. The general rate of import duty is now about 35 per cent. On certain non-essential items where it is felt that the consumer can well pay a higher rate or where there is sufficient indigenous production to meet the country's needs, higher rates of duty are imposed.

The trend of revenue from customs is given below :—

Year	(Rs. in lakhs)
1940-51	187.15
1951-52	231.09
1952-53	173.75
1953-54	153.71
1954-55	164.87
1955-56	166.70
1956-57	173.23
1957-58	179.99
1958-59 (Budget)	170.00
1958-59 (Revised)	136.00
1959-60 (Budget)	132.77

INCOME-TAX

Income-tax is levied now not only on income as ordinarily understood but also on certain capital receipts which have been included in a special definition of "income." Tax at the rate fixed for the year of assessment is charged on the income of the "previous year." Both income-tax and super-tax are levied according to the slab system.

The more recent trend of collections is given below :—

1949-50 (Accounts) ..	Rs. 161.11	crores
1950-51 (Accounts) ..	173.23	"
1951-52 (Accounts) ..	167.60	"
1952-53 (Accounts) ..	155.23	"
1953-54 (Accounts) ..	164.38	"
1954-55 (Accounts) ..	156.59	"
1955-56 (Accounts) ..	166.80	"
1956-57 (Accounts) ..	202.92	"
1957-58 (Accounts) ..	219.83	"
1958-59 (Budget) ..	217.00	"
1958-59 (Revised) ..	218.50	"
1959-60 (Budget) ..	225.00	"

While the Corporation tax accrues in its entirety to the Centre, the net proceeds of income-tax, except the tax attributable to Central enclaves and Union territories and any Central surcharge, are divisible between the Centre and the States. Sixty per cent of the net proceeds of such income-tax is paid to the States.

The percentage share of the different States is as follows :

Uttar Pradesh 10.36; Bombay 15.97; W. Bengal 10.98; Bihar 9.94; Madras 6.60; Andhra Pradesh 5.13; Mysore 6.73; Mysore 8.14; Punjab 4.55; Rajasthan 4.08; Orissa 3.75; Kerala 3.66; Assam 3.44; Jammu and Kashmir 1.13.

GUIDE TO TAXES ON INCOME (1959-60)

The following table gives the rates of tax (income-tax, super-tax and surcharge included) applicable to 1959-60 in percentages :

Slabs of Income	1959-60	Earned	Unearned
0 - 1,000	nil	nil	nil
1,001-2,000	nil	nil	nil
(A) Married individuals and Hindu undivided families	nil	nil	nil
(B) Others	4.91	3.15	3.6
2,001-3,000	4.91	3.15	3.6
(A) Married individuals and Hindu undivided families:	4.91	nil	nil
(B) Others	4.91	3.15	3.60
3,001-4,000	4.91	3.15	3.60
4,001-7,500	11.43	6.3	7.20
7,501-10,000	14.78	9.45	10.80
10,001-12,500	21.33	11.55	12.30
12,501-15,000	21.33	14.70	16.80
15,001-20,000	26.25	18.90	21.60
20,001-25,000	33.81	31.50	36.00
25,001-30,000	45.94	42.00	48.00
30,001-40,000	45.94	47.25	54.00
40,001-50,000	59.06	57.75	66.00
50,001-60,000	65.60	63.00	72.00
60,001-70,000	72.19	68.25	78.00
70,001-80,000	78.47	73.50	84.00
80,001-90,000	78.75	73.50	84.00
90,001-100,000	82.08	73.50	84.00
100,001-120,000	85.81	77.00	84.00
120,001-150,000	88.61	77.00	84.00
Over Rs. 1,50,000	91.67	77.00	84.00

COMPANY TAX

Classes of Companies	1959-60		Applicable to 1958-59	
	Income tax and Surcharge	Corporation tax	Income tax and Surcharge	Corporation tax
1. Companies which have made prescribed arrangements for the declaration and payment in India of dividends, and for the deduction of super tax from dividends paid to non-resident shareholders:				
(A) Companies in which the public are substantially interested with total income not exceeding Rs. 25,000/-				
(i) On dividend income derived from a subsidiary Indian company	26.25	11	31.5	10
(ii) On the balance of income	26.25	11	31.5	15
(B) Other Companies :—				
(i) On dividend income derived from a subsidiary Indian company	26.25	17	31.5	10
(ii) On the balance of income	26.25	17	31.5	20
2. Companies which have not made the prescribed arrangements referred to in (i) i.e. foreign companies:				
(i) On dividend income derived from a subsidiary Indian company	26.25	20	31.5	10
(ii) On the balance of income	26.25	20	31.5	20

The changes in the scheme of corporation tax as proposed in the budget of 1959-60 are detailed under "Taxation Proposals."

CORPORATION TAX

Excess Dividends tax has been abolished. Tax on bonus shares continues to be 30 per cent.

The sections of the Income-tax Act dealing with company profits and dividends are sought to be amended on the lines mentioned by the Finance Minister in his speech to give effect to his revised scheme of taxation of company profits and dividends.

These include: the abolition of tax credit—S. 49 B(1), abolition of adjustment to tax credit—S. 49 C, abolition of grossing of dividends—S. 16 (2), abolition of recovery from shareholders on account of non-payment of tax by company—S. 35 (9), and deduction of tax at source on dividends—S. 18.

Section 15 A of the Income-tax Act dealing with advance payments of income-tax is proposed to be modified in its application to companies in view of the Finance Minister's proposals to raise the rates of tax on company profits from 1960-61. For details, please see "Taxation proposals".

ESTATE DUTY

The question of levying an estate duty had been before the Government of India since 1946 when a bill was first introduced. This as well as the one introduced in 1948 lapsed. In August 1952, a third bill was introduced with the object of imposing an estate duty on property passing or deemed to pass on the death of a person. The underlying idea is to rectify to a large extent unequal distribution of wealth and to assist the States towards financing their development schemes. The Bill was passed in Parliament in September 1953. The Act came into effect from October 15, 1953 and is applicable to the whole of India, except the State of Jammu and Kashmir.

The main features of the Act are that the levy of duty depends on the domicile of the deceased, the power to assess duty is vested in the Controller of Estate Duty, and the scale of duties is stipulated in the law itself. The Estate Duty proceeds go almost entirely to the States and do not affect the Central Budget. Pending the recommendations of the Finance Commission, a provisional distribution was made on the basis of the States' share of income-tax. The Commission in their Interim Report also recommended the distribution of Estate Duty for 1957-58 on the same basis, pending re-adjustment in the light of their final recommendations.* Like the Income-tax law, this legislation also provides for exemption limits and defines what items are eligible for exemption and to what extent.

The minimum exemption limit provided in the Act is Rs. 50,000 in respect of property which consists of an interest in the joint family property of a Hindu family governed by the Mitakshara, Marumakkattayam or Aliyasantana Law as well as in respect of all other property. The rates of duty are given below:—

Principal Value of Estate.	Rate of Duty.
<i>In the case of Joint Hindu Family property governed by Mitakshara, etc., law:</i>	
On the first Rs. 50,000	Nil
On the next Rs. 50,000	5%
On the next Rs. 50,000	7½%
On the next Rs. 50,000	10%
On the next Rs. 1 lakh	12½%
On the next Rs. 2 lakhs	15%
On the next Rs. 5 lakhs	20%
On the next Rs. 10 lakhs	25%
On the next Rs. 10 lakhs	30%
On the next Rs. 20 lakhs	35%
On the balance	40%

* See p. 144 bottom table.

Principal Value of Estate.	Rate of Duty.
<i>In the case of property of any other kind:</i>	
On the first Rs. 50,000	Nil
On the next Rs. 50,000	7½%
On the next Rs. 50,000	10%
On the next Rs. 1 lakh	12½%
On the next Rs. 2 lakhs	15%
On the next Rs. 5 lakhs	20%
On the next Rs. 10 lakhs	25%
On the next Rs. 10 lakhs	30%
On the next Rs. 20 lakhs	35%
On the balance	40%
<i>In the case of shares held by a deceased member in any such company referred to in sub-section (1) of Section 81.</i>	
If the principal value of the shares does not exceed Rs. 5,000	Nil
If the principal value of the shares exceeds Rs. 5,000	7½%

GIFT TAX

The value of gifts made during a previous year (which is the same as for income-tax assessments) is the subject of charge; gifts are valued normally at the market value of the property as on the date of the gift. The taxable gifts made during five previous years immediately preceding the assessment year (excluding gifts made before the 1st day of April 1957) are aggregated and the rate applicable to the aggregated value is the rate at which tax is charged on the value of the gifts made during the previous year.

The Gift Tax Bill was passed by the Lok Sabha on 6th May, 1958. The Bill provides for the levy of a tax on gifts made during the previous year at the rates notified below:

On the first Rs. 50,000—4 per cent, on the next Rs. 50,000—6 per cent, on the next Rs. 50,000—8 per cent, on the next Rs. 50,000—10 per cent, on the next Rs. 1,00,000—12 per cent, on the next Rs. 2,00,000—15 per cent, on the next Rs. 5,00,000—20 per cent, on the next Rs. 10,00,000—25 per cent, on the next Rs. 10,00,000—30 per cent, on the next Rs. 20,00,000—35 per cent, and on the balance—40 per cent.

Gifts exempt from tax are:

(a) immovable property situated outside India; (b) movable property situated outside India, where the donor is not a citizen of India or where the donor, not being an individual, is a non-resident; (c) savings certificates declared gift-tax free; (d) gifts to Government or local authorities; (e) gifts to recognised charitable institutions or funds; (f) gifts for any charitable purpose up to Rs. 100 in respect of each gift; (g) gifts to female dependant members on the occasion of marriage, subject to a maximum of Rs. 10,000; (h) gifts to wife, subject to a maximum of Rs. 1,00,000; (i) gifts of policies of insurance or annuities to wife, children or dependants subject to a maximum of Rs. 10,000 in respect of each donee; (j) gifts under a will and (k) gifts in contemplation of death.

Without prejudice to these exemptions, no person need pay gift-tax if the gifts do not exceed Rs. 10,000 in one previous year. But, if the taxable gift to any individual donee exceeds Rs. 3,000 during the year, the donor will have to pay tax in respect of all gifts above Rs. 5,000.

Gifts made before 1st April 1957 do not come within the purview of the Gift Tax Act.

No aggregation of gifts during the preceding five years is made for the purpose of determining the rate of duty.

THE CURRENCY SYSTEM

OVER the year 1957-58, money supply with the public, excluding State Governments' deposits with the Reserve Bank, increased by Rs. 75 crores to Rs. 2,386 crores as against a rise of Rs. 180 crores in 1956-57 and Rs. 264 crores in 1955-56.

The two tables give the details of the course of money supply with the public and the factors contributing to it.

(Rs. in crores)

	Year ended March 31		
	1955-56	1956-57	1957-58
Currency with the Public (a).			
1. Note Circulation (b)	1,434.23	1,488.80	1,596.23
2. Circulation of rupee coin (c)	128.45	118.80	116.85
3. Notes and coin with Treasuries (d)	1.14	5.81	5.80
4. Cash on hand of scheduled, non-scheduled (e) and co-operative banks	41.45	39.75	41.50
5. Currency with the public (excluding small coin) (1+2+3+4)	1,505.09	1,556.50	1,605.70
6. Variation in currency with the public	+ 193.22	+ 51.41	+ 49.20
Deposit Money.			
7. Demand liabilities (excluding inter-bank demand deposits) of scheduled, non-scheduled (e) and co-operative banks	667.21	744.74	702.04
8. Other Deposits with the Reserve Bank excluding balance held on I.M.F. Account No. 1	12.01	11.05	19.67
9. Deposit money with the public (7+8)	679.22	755.79	721.60
10. Variation in Deposit money	+ 70.57	+ 77.16	+ 26.51
11. Money supply with the public (excluding small coin) (5+9)	2,184.31	2,312.29	2,327.30
12. Variation in money supply with the public (6+10)	+ 263.66	+ 128.57	+ 74.71

NOTE: Figures have been revised to take into account the circulation of *Half Sloss* currency.

(a) Money supply with the public does not take account of the inward or outward movement of currency and excludes small coin. (b) Figures are net of the return of about Rs. 48 crores from Pakistan awaiting adjustment. (c) Estimates. (d) Figures on the last day of the year. (e) Excluding balance held on I.M.F. Account No. 1.

SEASONAL VARIATION IN MONEY SUPPLY WITH THE PUBLIC

(Rs. in crores)

	Currency with the public	Demand liabilities of all banks	Other Deposits with Reserve Bank	Money supply with the public
September 26, 1955 to May 7, 1956	+ 155.0	+ 10.7	+ 5.8	+ 171.5
May 8, 1956 to September 24, 1956	— 88.8	+ 26.0	— 6.6	— 77.4
September 25, 1956 to May 6, 1957	+ 160.0	+ 31.8	+ 0.3	+ 232.1
May 7, 1957 to Oct. 26, 1957	— 22.1	+ 25.0	+ 0.9	— 3.2
Oct. 27, 1957 to May 11, 1958	+ 257.2	+ 26.5	— 0.1	+ 283.6
May 1958 to October 1958 Slack Season	— 95.7	— 7.8	— 1.7	— 105.1
November 1958 to April 1959 Busy Season	+ 142.0	+ 35.8	+ 1.7	+ 239.4
1957-58 Slack Season	— 89.5	+ 4.8	+ 2.1	— 82.7
1957-58 Busy Season	+ 143.7	+ 28.8	+ 0.1	+ 167.6

NOTE: Figures have been revised to take into account the circulation of *Half Sloss* currency.

CIRCULATION OF NOTES: The rising trend in currency circulation noticed since 1953-54 became more marked in 1955-56. But whereas in the previous two years notes alone accounted for the currency expansion, in the year under review, rupee coins and small coin accounted for 5 per cent. of the expansion. Active notes rose during the year by Rs. 180 crores, as against Rs. 91 crores in 1954-55 and Rs. 55 crores in 1953-54. Total Notes in circulation at the end of 1955-56 amounted to Rs. 1,484 crores and at the end of 1956-57 Rs. 1,488 crores and at the end of 1957-58 Rs. 1,596.23 crores.

CIRCULATION OF INDIA NOTES BY DENOMINATIONS

(Rupees in lakhs)

	Year ended December			
	1954	1955	1956	1957
Rs. 5	25.02	25.06	25.72	25.30
% of Total	5.2	5.1	1.9	1.2
Rs. 10	120.57	120.36	161.23	155.06
% of Total	24.3	24.6	10.9	10.2
Rs. 100	511.50	505.59	604.66	615.00
% of Total	41.0	41.0	40.9	40.4
Rs. 1000	505.02	550.05	615.55	681.21
% of Total	40.8	43.1	41.7	48.0
Rs. 10000	22.00	22.27	22.24	21.06
% of Total	3.5	4.1	3.5	3.3
Rs. 100000	0.04	0.05	0.05	0.05
% of Total	0.4	0.7	0.7	0.6
Rs. 1000000	1.04	1.01	1.72	2.00
% of Total	0.1	0.2	0.4	0.6
Total in Circulation	1,484.73	1,488.29	1,497.22	1,596.23

* See also separate column which follows.

Reintroduction of High Denomination Notes: The Reserve Bank of India commenced issuing new notes of the denominations of Rs. 1,000, Rs. 5,000 and Rs. 10,000 with effect from April 1954. The new notes are completely different in design, water-mark and colour scheme from the old high denomination notes.

Changes in the Form of Notes: Reserve Bank of India notes of the denomination of Rs. 100, with the numbers printed in red (instead of in black) were first issued from the Bank's offices at Calcutta and Madras in August 1953. The Government of India one rupee notes printed in purple, instead of the earlier grey colour, were first issued from the Bank's Bombay office in November 1953.

Hyderabad State Currency: According to the Hyderabad Coinage and Paper Currency (Miscellaneous Provisions) Act, 1953, the Hyderabad currency (*Half Sloss* currency) ceased to be legal tender with effect from April 1, 1955. But to enable the public exchange their holdings of Hyderabad currency for Indian currency, the Union Government had provided conversion facilities, first till March 31, 1956, and then extended them by a notification dated March 24, 1956, up to September 30, 1956 and thereafter up to the end of December 1956, after which the facilities were withdrawn. At the end of March 1956, the circulation of *Half Sloss* currency amounted to about *Half Sloss* Rs. 4.07 crores (or India Rs. 3.49 crores), as against *Half Sloss* Rs. 46 crores (or India Rs. 41 crores) on January 28, 1956.

Replacement of French Indian currency by Indian currency: As from November 1, 1954, the provisions of the Indian Coinage Act, 1906, the Reserve Bank of India Act, 1934 and the Currency Ordinance of 1940 were extended to the French establishments in India, consequent on the merger of these establishments with the Indian Union. Although the French currency ceased to be legal tender on April 30, 1955, the facilities for its exchange into Indian currency were available up to October 15, 1955. The total value of Indian currency issued in exchange for French currency amounted to Rs. 37 lakhs.

Decimalisation of Coinage: With a view to adopting the decimal system of coinage, a Bill to amend the Indian Coinage Act, 1906 was introduced in the Lok Sabha on May 7, 1955 and was passed on July 27, 1955. It came into force from April 1, 1957. As from that date, the rupee coin was divided into 100 equal units and the unit coin was designated as *Naye Paisa*. Thus 100 *naye paisa* will make one rupee. The old coins will continue to be legal tender for about three years after the introduction of the new coins.

The details regarding the denominations, dimensions, designs and metal composition of the new series of coins were given by the Government of India in a notification issued on May 14, 1956. The new series will have the following units: 1 *naye paisa*; 2 *naye paisa*; 5 *naye paisa*; 10 *naye paisa*; 25 *naye paisa*; 50 *naye paisa*; and 100 *naye paisa*.

CURRENCY CIRCULATION

During 1957-58, the total circulation of all forms of legal tender currency (notes, rupee coin and small coin) recorded an increase of Rs. 52.3 crores against a rise of Rs. 55.7 crores in the preceding year.

The following table shows the circulation of currency:—

	At the end of		
	1955-56	1956-57	1957-58
Circulation—			
Notes	1,485.47	1,488.25	1,596.23
Rupee Coin	128.45	118.80	116.85
Total	1,613.92	1,607.05	1,713.08

NOTE: Figures are exclusive of *Half Sloss* currency.

Rupce Coin.—Since June 7, 1947, when all standard silver rupee coin had ceased to be legal tender, the 'rupee coin' in circulation in India has comprised (1) the Government of India one rupee notes issued from July 1940, (2) the quaternary silver rupees (of one-half annas) issued between December 1940 and June 1946, and (3) the nickel rupees issued from June 1947.

During 1957-58 rupee coin in circulation receded by Rs 1.43 crore to Rs 116.45 crores. On 10th April 1958, the Reserve Bank received

from the Government of India one rupee notes of the value of Rs. 5 crores, in terms of Section 36(2) of the Reserve Bank of India Act, against payment of legal tender value. At the year-end, rupee coin holdings of the Reserve Bank amounted to Rs. 129 crores.

Small Coin.—The circulation of small coin recorded an increase of Rs. 65 lakhs in 1957-58 as compared with a rise of Rs. 45 lakhs in 1956-57. The following are the details:

**MOVEMENTS IN CIRCULATION OF SMALL COIN DENOMINATION-WISE
ABSORPTION (+) OR RETURN (-)**

(Rupees in 000)

	1954-55	1955-56	1956-57	1957-58
Half rupees *	- 56.39	+ 35.13	- 16.95	- 1.23
Four anna pieces **	- 30.60	+ 59.81	+ 20.99	+ 15.47
Two anna pieces †	- 15.16	+ 11.61	- 9.66	+ 141.54
One anna pieces	- 15.75	+ 23.74	+ 26.04	- 68.22
Half anna pieces ††	- 1.22	+ 6.58	+ 6.39	- 10.24
Single pice §	+ 5.37	+ 9.69	+ 19.14	- 4.91
Half pice	- 13	- 1	- 84	- 64
Pie pieces	- 4	- 1	- 3	- 14
10 naye paisa				+ 120.39
5 naye paisa				+ 66.48
2 naye paisa				+ 41.84
1 naye paisa				+ 47.60
Total	- 1,14.02	+ 1,46.54	+ 45.08	+ 64.91

* Since the inauguration of the Reserve Bank in 1955, silver half rupees have been included in statistics relating to small coin, including pure nickel half rupees introduced in May 1946. ** Including pure nickel four anna pieces introduced in May 1946. † Including nickel two anna pieces introduced in 1917-18. †† Nickel half anna pieces introduced in January 1942. § Including single pice pieces with a circular hole issued from February 1942.

EXCHANGE CONTROL

During 1957-58, despite the acute pressure on the reserves, the structure of India's exchange restrictions remained basically unchanged, except for minor restrictions on certain capital payments. Some of the alterations in the regulations, including changes in treatment of capital pay-

ments and transactions, are detailed below:

From 19th June 1957, the permission earlier given to residents in India to acquire sterling shares in the London market of companies that operate exclusively in India and maintain dual registers—one in London and other in India—was cancelled.

From 1st July 1957, Indian nationals (including persons domiciled in India) who intended to take up permanent residence in the sterling area were not allowed to transfer their assets in full at the time of emigration, as was the case prior to that date; only a sum not exceeding Rs. 2 lakhs per family was allowed at the time of departure. The remaining assets, if any, would have to be held in India, but remittance of income on such assets would be allowed in full. No change was effected in the regulations governing emigration to the dollar area. The ceiling of Rs. 75,000 per family and Rs. 125,000 for emigration to any other country remains unaltered.

With effect from 5th August 1957, travellers proceeding to Portuguese territories in India were permitted to take out with them Indian currency notes and coin not exceeding Rs. 100 in all per visit.

On 20th September 1957, the Foreign Exchange Regulation (Amendment) Act was passed in order to place the main Act, which was due to expire on 31st December 1957, on a permanent footing. The Amendment Act also provides for departmental enquiry and adjudication of foreign exchange offences by an authority constituted by Government.

Consequent upon the removal, as from 25th February 1958, of restrictions on the import of Bank of England notes from the United Kingdom, permission has been granted to travellers to bring into India Bank of England notes without limit subject to declaration to the customs authorities at the time of arrival as in the case of other foreign currency notes. The limit of Rs. 270 upto which Indian and foreign currency notes (including Bank of England notes) may be taken out of India remains unchanged.

As a result of the bilateral trade agreement entered into by the Government of India with Egypt on 25th March 1958, payments for export of tea and jute goods from India to Egypt and import of cotton into India from Egypt, as an exception to the existing rupee payment arrangements, are permitted to be made in Egyptian pounds.

BALANCE OF PAYMENTS—CURRENT ACCOUNT

Region-wise Summary

(Rupees in crores)

Sterling Area (Including Pakistan):

	1954-55	1956-57	1957-58
Imports, c i f	357.4	460.5	441.5
Exports, f o b	339.7	332.3	298.2
Trade Balance	- 17.7	- 128.2	- 143.3
Official Donations (Net)	+ 0.8	+ 2.1	+ 2.6
Other Invisibles (Net)	+ 69.8	+ 91.1	+ 69.8
Current Account (Net)	+ 52.9	- 35.0	- 70.9

Dollar Area

Imports, c i f	116.8	212.4	251.0
Exports, f o b	113.3	121.1	192.5
Trade Balance	- 3.5	- 91.3	- 59.5
Official Donations (Net)	+ 15.0	+ 42.4	+ 26.5
Other Invisibles (Net)	+ 3.4	+ 6.1	+ 16.4
Current Account (Net)	+ 14.9	- 42.8	- 15.6

OECE Countries

Imports, c i f	136.0	292.0	297.7
Exports, f o b	60.6	62.8	57.6
Trade Balance	- 75.4	- 199.2	- 240.1
Official Donations (Net)		+ 0.1	+ 0.1
Other Invisibles (Net)	- 1.3	- 0.4	+ 1.1
Current Account (Net)	- 75.7	- 199.5	- 238.9

Rest of Non-Sterling Area:

Imports, c i f	74.6	160.7	184.6
Exports, f o b	83.0	118.9	120.8
Trade Balance	+ 8.4	- 41.8	- 64.0
Official Donations (Net)		+ 0.1	
Other Invisibles (Net)	+ 5.5	+ 12.2	+ 12.6
Current Account (Net)	+ 13.9	- 29.5	- 51.4

The trends in the balance of payments position for 1956-57 and 1957-58 are summarised in the following table:—

(Crores of Rupees.)

	1956-57	1957-58
Imports:		
c.i.f. Values	1,095.6	1,174.5
Exports:		
f.o.b. Values	635.1	668.9
Trade Balance	- 460.5	- 505.9
Official Donations and Invisibles (Net)	+ 153.7	+ 129.1
CURRENT ACCOUNT (NET)	- 306.8	- 376.8
Errors & Omissions	- 10.7	+ 6.4
CAPITAL ACCOUNT (NET)	+ 297.1	+ 372.4

STERLING TRANSACTIONS OF THE RESERVE BANK

During 1957-58 the Reserve Bank's sterling transactions (excluding Government deals) resulted in net sales of £30.30 million (Rs. 119.25 crores) as against net sales of £144.30 million (Rs. 192.20 crores) in 1956-57. The particulars are given below.

Year	Purchases		Sales		Net Purchases (+) Sales (-)	
	Thousands	Rs. Lakhs	Thousands	Rs. Lakhs	Thousands	Rs. Lakhs
1954-55	100,158	1,31.55	22,797	85.43	+ 77,361	+ 96.12
1955-56	107,245	1,43.01	65,404	91.39	+ 41,841	+ 51.72
1956-57	69,500	92.65	212,803	285.32	-144,303	-192.67
1957-58	54,427	72.56	143,723	191.79	-89,296	-119.23

Note.—Figures exclude Government transactions but include deliveries against forward contracts.

GOLD RESERVES OF CENTRAL BANKS

(Million of fine ounces)

Average of months	United States	United Kingdom	Canada	France	Switzerland	South Africa	Belgium	Netherlands	Sweden	India
1951-52	641	71	31	18	41	6	13	9	4	7
1952-53	654	82	25	18	40	5	20	12	6	7
1953-54	656	71	25	16	41	5	21	20	6	7
1954-55	625	82	30	16	43	6	22	23	7	7
End of										
1955	622	60	33	25	46	6	26	25	8	7
1956	630	61	32	25	48	6	26	24	8	7
1957	653	65	32	16	49	6	28	21	6	7

STERLING AREA'S GOLD AND DOLLAR RESERVES

(Million £)

End of	Net Deficit/ Surplus	Financed By				Changes in Reserves	Level of Reserves
		U.S. and Canadian Credits	Purchase from I.M.F.	S. African Gold Loan	U.S. Aid		
1950	+ 842	48	..	..	705	+1612	2,300
1951	-1140	..	..	..	175	- 965	2,335
1952	- 457*	..	..	..	-1	- 489	1,844
1953	+ 672*	..	..	..	..	+ 672	2,518
1954	+ 244*	..	..	..	..	+ 244	2,762
1955	- 648	..	..	..	..	- 642	2,120
1956	+ 13	..	..	..	..	+ 13	2,133
1957	+ 140	..	..	..	..	+ 140	2,273

* After taking into account payment of service charges in connection with U.S. and Canadian lines of credit, the U.S. lend-lease and the ERP Loan.

WORLD BANK (See under Foreign Aid).

PRE-DECIMAL COINAGE

The following table gives a description of the coins in circulation at the end of March 1958:

The details of whole rupee coins issued since 1885 are given below:

Denomination	Gross weight (Grams)	Composition (Proportion of Metals)	
Quaternary Alloy Rupee	180	Silver 50 per cent. and the rest base metal.	William IV Standard .. 16,30,76,572
" " Half Rupee	90	" " "	Victoria Standard .. 352,13,80,128
" " Quarter Rupee	45	" " "	Edward VII .. 98,28,53,582
Pure Nickel Rupee	180	Nickel 100 per cent.	George V .. 180,74,83,517
" " Half Rupee	90	" " "	George VI .. 98,02,178
" " Quarter Rupee	45	" " "	George VI Quaternary .. 106,74,92,173
Cupro-Nickel Four-anna	105	75 per cent. copper and 25 per cent. nickel.	George VI Nickel .. 21,42,01,000
" " Two-anna	90	" " "	Asoka Pillar .. 1,39,00,000
" " Two-anna (George V).	90	" " "	
" " One-anna	60	" " "	
" " Half-anna	45	" " "	
Nickel-Brass Two-anna	90	79 per cent. copper, 1 per cent. nickel and 20 per cent. zinc.	
" " One-anna	60	" " "	
" " Half-anna	45	" " "	
Copper Single Pie	100	100 per cent. copper.	1951 .. 49,29,000
" " Half Pie	50	" " "	
" " Pie Pieces	23.5	" " "	1951-52 to 1954-55 .. NH
Brass Single Pie	75	97 per cent. copper, 2½ per cent. zinc and ½ per cent. tin.	1955-56 .. NH
" " "	30	" " "	1956-57 .. NH
" " "	60	" " "	1957-58 .. NH
" " "	45	" " "	
" " Half Pie	27.5	" " "	
" " Pie Pieces	25	" " "	

Yellow nickel-brass 2-anna, half-pie and one pie pieces were to cease to be legal tender from 1st January, 1959. Although they would be accepted from the public till June 30, 1959 at all offices of the Reserve Bank of India, all agency banks of the Reserve Bank of India conducting Government business and all Government Treasuries and sub-treasuries, the public were advised to part with these three varieties of coins, as far as possible, before the 1st of January, 1959, so that they were not put to unnecessary inconvenience after that date. The coins would still be accepted at the Issue Department of the Reserve Bank of India at Bombay, Calcutta, Madras, Kanpur, New Delhi, Bangalore and Nagpur until further notice even after June 30, 1959.

DECIMAL COINAGE

(See under 'Late Particulars').

BANKING

MODERN banking in India owes its origin to the British agency houses operating in Bombay and Calcutta in the eighteenth century. Then followed the Presidency banks in the latter half of the nineteenth century; as a result of their amalgamation, the Imperial Bank of India was brought into being in 1921 by a special Act. The next stage was marked by the establishment of the Reserve Bank of India on April 1, 1935. Fourteen years later on January 1, 1949, the Reserve Bank was nationalised. Its functions are now being broadened gradually: from the role of a "lender in the last resort" it has assumed the responsibility of being "the purveyor of credit" and is charged with the responsibility of developing the banking system on sound lines. On July 1, 1955, the State Bank of India came into being and the undertaking of the Imperial Bank of India was transferred to the new institution with the exception of the assets and liabilities of its foreign branches.

At the base of the banking system is the Reserve Bank with the State Bank as its agent. The edifice is made up of Indian joint stock banks other than the State Bank, foreign banks and co-operative banks.

The Banking Companies Act was enacted in 1949 with the object of improving the efficiency and the tone of the banking system. The main provisions relate to licensing of branches, requirements of minimum capital and reserves and maintenance of cash reserves. During 1952 the Banking Companies Rules were extended to more States and now apply to the entire country.

The policy of systematic inspections of banking companies irrespective of their size and standing, has been an aspect important of the Reserve Bank's supervisory activities. In pursuance of this 178 banks were inspected during 1957, of which 47 were scheduled banks. Since March 1950, when inspections were commenced, 1,301 inspections have been carried out for various purposes.

In pursuance of a press note issued on December 20, 1954, the Government of India nationalised the Imperial Bank as a first step towards the establishment of a State Bank of India by amalgamating the Imperial Bank of India with a number of other banks already associated with some State Governments. The branches would be spread over the whole country thus improving remittance and rural credit supplies. The State Bank came into being on July 1, 1955. Another development was the establishment of a Bankers' Training College in Bombay.

TRENDS

The exceptionally large deposit expansion was the most striking feature of the banking year 1957. Net deposits of scheduled banks rose by Rs 245 crores or by 23.3 per cent, as against Rs 77 crores in 1956. The sharp increase in

deposits of scheduled banks may be explained apart from the technical factor of the inclusion in the Second Schedule to the Reserve Bank of India Act of two non-scheduled banks with not insubstantial deposits, by certain special factors. Much the more important of these related to the placement by the U.S. authorities in India of funds representing the initial reimbursement by the Government of the cost of foodgrains imported into the country under Public Law 480. The tight import restrictions might also have induced business concerns and other bodies to seek temporary investment of their reserve and other surplus funds in the form of time deposits.

As against the temporary nature of these two factors, which perhaps accounted for the bulk of the increase, must be set the longer-term causes for the deposit increase. One of these was the further hardening of interest rates in the year on fixed and savings deposits, which might have induced a switch from current to time deposit accounts and possibly also from non-banking to banking accounts. Again, there is reason to believe that some portion of the generated money incomes in the last year or two must have gone into bank accounts, albeit with some delay, while the branch expansion of banks, notably that of the State Bank of India, also contributed to the expansion of deposits.

Indian scheduled banks accounted for Rs. 224 crores or over 80 per cent of the total deposit increase. Non-scheduled banks' deposits were down by Rs. 24 crores owing to the fewer number of reporting banks and the inclusion of two banks in the Second Schedule to the Reserve Bank of India Act, 1934.

Whereas in 1956 the growth in deposits fell far short of the increase in credit, in the year under review, the reverse was the case. Deposits rose by over three times the increase in credit. Over the year, scheduled bank credit increased by Rs. 75 crores as against the 1956 figure of Rs. 181 crores. These figures, however, conceal marked variations in the trend during the year.

A general restriction on the quantity of credit was sought to be operated through raising the cost of borrowing by banks from the Reserve Bank. From February 1, 1957 the effective rate of borrowing under the Bill Market Scheme was raised to 4 per cent because of the increase in the stamp duty on usance bills. Simultaneously, the Bank raised its lending rate against Government securities to 4 per cent. These were followed by the Bank rate being brought up to 4 per cent with effect from May 16, 1957; with a lowering of the stamp duty on usance bills to 0.3 per cent per annum the effective rate for advances under the Bill Market Scheme was further raised to 4.2 per cent.

Though these measures had a general restraining effect on banks' borrowings from the Bank

the underlying trend was still one of credit expansion in this period. Bank credit touched a peak level in the beginning of June 1957 indicating the need for further restrictive measures. Accordingly, the Governor of the Bank addressed towards the end of June a circular letter to scheduled banks advising them to bring about a reduction in the total of bank credit during the ensuing slack season with a hint that if necessary, the arrangements regarding financial assistance from the Reserve Bank, which till then was freely given, might be reviewed. In the subsequent meetings with representative bankers at Bombay and Calcutta in July and August the Governor set a target of approximately Rs. 800 crores to which he wanted banks to bring down their credit levels by October 1957.

The banks succeeded in bringing about a substantial reduction in outstanding credit but not the full extent desired. In a later conference in November 1957 with the representatives of banks the Governor, while appreciating the efforts made by banks earlier in having curtailed credit, repeated his concern about the continued high level of prices and reiterated the imperative need for vigilance on the part of banks in their leading operations in the 1957-58 busy season, while avoiding any adverse impact on the genuine credit needs of the productive sectors of the economy. With this end in view, it was indicated to the banks that the Reserve Bank's lending policy under the Bill Market Scheme would be one of general restraint and greater selectivity than previously.

As a combined result of these and earlier measures of credit control and a delayed onset of the busy season of 1957-58 accompanied by a sharp reduction in the volume of imports, the level of advances at the end of December 1957 at Rs. 820 crores was barely 10 per cent higher than at the end of 1956 as against an increase of a little over 25 per cent in the preceding year. The moderate expansion in advances compared with a record deposit expansion in 1957 brought the advance-deposit ratio of banks down to 63.2 per cent at the year end from 70.8 per cent in December 1956.

An interesting feature as regards the Bank's lending lately has been that, while hitherto the Indian banks had been the main borrowers under the Bill Market Scheme, in 1956, exchange banks exhibited considerable interest in the scheme. It is a reflection of the belief that the Indian money market is acquiring a greater degree of autonomy. Here, it will be of interest to note that some changes were made in the Scheme. With effect from May 16, 1957, the rate chargeable on advances under the Scheme was raised from 3½ per cent to 4 per cent and the concession so far granted to banks whereby the Reserve Bank shared the cost of the stamp duty involved in converting demand bills into usance bills was also withdrawn.

CONSOLIDATED POSITION OF BANKS IN INDIA

(In lakhs of rupees)

1	Year.	No. of Banks.	Paid-up Capital.	Reserve.	Deposits					Cash		Investments		Loans and Advances.	Bills Discounted and Purchased.	Net Profit.	No. of Officers.
					Fixed.	Savings.	Current.	Others.	Total.	In Hand.	At Banks.	Government Securities.	Others.				
Scheduled Banks	1955	80	32.96	26.73	330.47	172.00	464.32	114.91	1,071.70	42.19	92.82	392.21	59.69	592.29	131.29	6.90	2,968
	1956	80	32.90	27.10	341.00	169.72	471.70	141.92	1,163.34	43.15	98.99	392.72	54.72	640.90	179.41	9.95	2,994
	1957	91	34.74	29.36	618.31	213.30	506.19	188.08	1,427.64	51.22	110.98	428.28	72.99	780.64	168.47	11.31	3,078
Non Scheduled Banks	1955	366	8.11	4.97	34.84	12.17	16.40	5.71	70.15	6.48	2.79	25.24	5.51	37.26	2.09	71	1,148
	1956	384	7.64	4.44	36.49	14.81	15.76	6.09	73.78	6.98	3.46	26.97	6.22	39.28	2.72	71	1,201
	1957	299	6.09	3.38	29.89	8.10	9.48	4.34	51.81	4.79	3.15	19.77	3.75	28.16	1.56	68	947
Scheduled and Non-Scheduled Banks	1955	455	40.96	31.40	365.32	185.30	480.72	120.62	1,141.98	48.61	97.64	427.49	59.37	571.15	133.38	8.61	4,099
	1956	423	40.63	31.60	377.49	208.53	487.46	148.01	1,232.00	49.75	102.45	429.69	60.90	680.78	182.13	10.66	4,205
	1957	389	40.83	33.22	648.20	221.40	517.67	192.42	1,479.78	56.01	120.45	446.56	76.74	768.90	168.02	11.97	4,285

The following table relates to other financial aspects of these joint-stock banks, including the State Bank (former Imperial Bank of India) :
(In lakhs of rupees)

	1953	1954	1955	1956	1957
Per cent of Capital and Reserves to Deposits	9.11	8.35	7.64	6.98	5.81
Per cent of cash in hand and Banks to Deposits	12.88	14.13	12.81	11.98	11.94
Per cent of Investments to Deposits	41.81	40.00	40.87	38.94	35.39
Per cent of Bank credit to Deposits	59.05	59.19	61.70	70.80	62.77
Number of offices	8,942	8,964	4,000	4,068	4,220
Number of offices outside India	107	107	100	100	101

RESERVE BANK
In pursuance of Federal financial integration, the Reserve Bank entered in 1955 into agreements with three former 'B' States, Madhya Bharat, Travancore-Cochin and Mysore, whereby it became their sole banker.

In 1953, it concluded agreements with two more (all former States before reorganisation)

Part 'B' States, namely, Hyderabad and Saurashtra whereby it became ultimately the sole banker to these States as it already was to all the Part 'A' and Part 'C' States.

The Bank advanced to scheduled banks a gross amount of Rs. 799 crores in 1957 against Rs. 904 crores in 1956 and Rs. 425 crores in

1955. A total amount of Rs. 354 crores was advanced in 1957 by the Reserve Bank for general banking purposes at the Bank rate against Government securities as compared with Rs. 467 crores in 1956. Loans under the Bill market scheme at $\frac{1}{2}$ per cent below the Bank rate aggregated Rs. 415 crores in 1957 against Rs. 437 crores in 1956.

The following table gives the position of the Reserve Bank over a period of years :—

ISSUE DEPARTMENT

(In lakhs of rupees)

Year.	Notes held in the Banking Department.	Notes in Circulation.	Total Notes Issued.	Gold Coin and Bullion.	Foreign Securities.	Rupee Coin.	Govt. of India Rupee Securities.	% of Gold and Foreign Securities to Note Issue.
30th June 1952	24.40	1,129.48	1,153.88	40.02	533.15	76.08	464.63	53.54
" " 1953	23.47	1,126.32	1,174.78	40.02	608.15	91.78	439.86	54.75
" " 1954	41.08	1,172.08	1,312.12	40.02	653.15	98.78	421.22	57.14
" " 1955	81.78	1,309.76	1,341.55	40.02	652.05	105.84	543.65	51.59
" " 1956	23.27	1,474.67	1,502.94	40.02	646.55	107.89	705.68	45.61
" " 1957	29.50	1,542.17	1,581.67	117.76	412.52	126.68	924.81	33.53

BANKING DEPARTMENT

(In lakhs of rupees)

Year.	Paid-up Capital and Reserves.	DEPOSITS.					Bills payable.	Other liabilities.	Total liabilities and assets.	Cash.	Bills purchased and discounted.	Balances held abroad.	LOANS AND ADVANCES.		Investments.	Other Assets.
		Central Government.	Other Governments.	Reschs.	Others.	Total.							To Governments.	To others.		
30th June 1952	10.00	122.06	18.46	45.24	57.25	247.02	1.90	14.06	273.06	35.69	14.60	111.70	3.40	20.88	79.80	4.59
" " 1953	10.00	124.18	25.53	49.95	41.77	241.43	2.18	20.97	274.60	41.33	5.33	92.65	47	37.47	91.31	5.55
" " 1954	10.00	54.02	9.88	87.79	22.09	146.18	6.95	22.40	186.53	31.91	11.72	60.91	76	28.24	46.39	6.59
" " 1955	10.00	56.82	12.17	54.49	18.08	137.56	5.32	29.31	192.69	23.37	5.36	22.52	2.37	69.63	37.23	8.06
" " 1957	25.00	51.55	8.25	81.68	149.78	291.26	12.16	31.34	480.78	29.62	13	42.04	23.89	91.46	202.94	12.68

EXCHANGE BANKS

The banks carrying on exchange business in India are merely branch agencies of banks having their head offices in London, on the Continent, in the Far East or the U. S. A. Originally their business was confined almost exclusively to the financing of the external trade of India; but now, most of them,

while continuing to play their main role, have also taken an active part in the financing of internal trade. Following the increase in the British bank rate to four per cent in March 1953, exchange banks found it more profitable to tap Indian deposits than to get funds from London. Over the year 1957 the deposits with

these Banks amounted to Rs. 204.14 crores as against Rs. 187.54 crores in 1956.

The earlier progress of Exchange Banks was tabulated in the previous editions. The more recent trends are summed up below :—

Liabilities and Assets of Foreign Banks in India

(In lakhs of rupees)

Year	No. of Banks	Deposits					Cash		Bills Discounted and Purchased	Loans and Advances	Investments		No. of Offices	Net Profit
		Fixed	Savings	Current	Others	Total	In Hand	At Banks			Govt. Securities	Others		
1952	17	82.71	11.40	61.64	0.90	156.64	2.25	12.34	22.44	110.74	45.98	1.02	69	1.29
1953	17	80.98	12.64	62.66	12.17	172.45	2.23	12.33	25.75	124.97	46.40	1.34	67	1.22
1954	17	85.97	14.06	103.05	19.28	222.36	2.28	14.52	21.36	126.97	48.01	2.06	67	1.68
1955	17	87.48	15.27	93.49	17.65	213.94	2.31	15.02	20.64	121.22	29.37	2.37	67	1.66
1957	17	69.49	14.96	161.96	16.28	262.69	2.62	17.55	50.42	142.67	36.51	4.39	67	1.68

LIABILITIES AND ASSETS OF OTHER BANKS BY CLASS

Year	No. of Reporting Banks	Paid-up Capital	Reserve	Deposits					Cash		Bills Discounted and Purchased	Loans & Advances	Investments		Net Profit	No. of Offices*
				Fixed	Savings	Current	Others	Total	In Hand	At Banks			Government Securities	Others		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
STATE BANK OF INDIA																
1943	1	5.63	6.25	24.98	27.97	131.08	12.14	204.97	3.69	15.95	14.28	92.08	80.95	12.19	1.27	424 (12)
1944	1	5.43	6.25	24.01	27.49	146.89	12.73	231.13	2.70	22.87	6.17	94.13	94.95	12.77	1.27	455 (11)
1945	1	5.43	6.25	23.69	27.02	149.29	14.90	235.77	2.42	23.96	16.80	90.15	104.98	12.02	1.26	464 (11)
1946	1	5.43	6.35	27.16	21.05	173.92	16.43	245.13	2.39	24.39	32.74	107.43	99.19	14.23	1.54	538 (6)
1947	1	5.63	6.63	139.38	23.96	194.50	74	367.29	2.07	34.46	18.57	154.31	171.39	12.04	2.29	632 (—)
OTHER INDIAN SCHEDULED BANKS																
1943	72	27.12	20.37	172.18	107.74	207.37	29.75	533.04	32.73	44.69	47.67	244.76	201.25	23.44	4.19	2,199 (33)
1944	71	27.03	20.34	206.13	116.05	218.63	44.23	546.08	32.38	54.33	55.97	277.74	236.29	26.11	4.55	2,244 (36)
1945	71	27.23	20.26	235.91	120.05	19.90	53.51	487.57	26.49	53.51	81.91	305.75	231.24	27.98	5.34	2,307 (36)
1946	71	27.26	20.78	246.65	147.20	223.71	108.64	735.33	34.95	53.52	104.08	375.39	231.36	26.57	6.70	2,359 (36)
1947	73	29.11	22.23	300.54	163.44	232.93	160.91	807.13	24.96	70.10	94.18	432.16	234.13	55.25	7.52	2,464 (36)
NON-SCHEDULED BANKS—CLASS A																
1943	67	5.54	3.29	20.54	8.02	11.13	1.35	41.16	3.59	2.53	1.06	24.53	15.17	2.90	31	443 (39)
1944	65	5.46	3.27	20.23	8.94	12.09	2.32	45.15	3.52	2.75	1.17	29.02	16.31	3.54	26	453 (39)
1945	63	5.19	3.23	20.50	9.74	12.44	4.46	48.44	4.17	2.25	1.49	23.44	15.47	2.76	37	460 (37)
1946	65	4.91	3.04	21.29	11.05	13.99	5.36	50.49	4.34	1.99	2.14	23.12	19.48	4.19	41	460 (36)
1947	55	3.62	2.01	15.18	4.59	6.63	2.89	29.29	2.53	1.83	1.02	19.96	8.48	43	24	392 (—)
NON-SCHEDULED BANKS—CLASS B																
1943	106	2.82	1.17	11.90	3.09	2.45	1.47	19.11	2.11	1.15	52	13.55	4.02	1.02	28	593 (33)
1944	101	2.68	1.23	11.90	3.03	2.53	1.12	19.63	1.96	1.44	45	12.27	4.96	1.68	22	595 (33)
1945	160	2.39	1.14	12.43	3.15	2.55	1.05	19.18	1.86	1.33	53	11.90	5.96	1.60	23	594 (33)
1946	170	2.25	1.20	12.54	3.49	2.60	1.24	20.77	1.97	1.23	53	12.75	5.78	1.65	25	515 (31)
1947	163	2.10	1.23	12.35	3.27	2.49	1.27	20.39	1.96	1.10	50	12.91	5.90	64	24	461 (31)
NON-SCHEDULED BANKS—CLASS C																
1943	114	55	19	1.64	26	54	23	2.79	26	22	4	2.24	36	20	3	154 (14)
1944	116	60	20	1.69	35	47	23	2.79	24	23	3	2.23	37	29	4	149 (14)
1945	98	46	16	1.32	26	36	14	2.33	29	20	7	1.75	36	24	3	116 (11)
1946	93	46	19	1.61	27	36	18	2.42	28	18	5	1.58	42	25	4	112 (11)
1947	74	35	17	1.33	24	35	19	2.11	25	19	3	1.53	39	2	5	94 (9)
NON-SCHEDULED BANKS—CLASS D																
1943	54	11	3	23	6	9	6	46	8	2	—	42	3	3	—	95 (33)
1944	37	6	2	16	3	4	4	23	5	1	—	24	1	1	—	41 (29)
1945	25	5	1	10	4	3	6	23	6	1	—	20	—	—	—	29 (1)
1946	13	2	1	5	1	1	1	4	1	—	—	7	—	—	—	1 (1)
1947	4	1	—	3	—	1	—	—	1	—	—	3	—	—	—	5 (1)

* No. of offices outside the Indian Union are shown in brackets.

MONEY RATES IN INDIA

	1954	1957
Bank Rate*	3½	3½-4
State Bank (former Imperial Bank) Rates:		
Hundi Rate** ..	4½-5	5-5½
Advances Rate ..	4	4-4½
Call Loan Rate—		
Rs. 5 lakhs and over	3½	3½-4
Below Rs. 5 lakhs ..	3½	3½-4½
Bazaar Bill Rates †:		
Calcutta	10-12	10-12½
Bombay	9-10½	9½-11½
Call Money Rates: ..		
Calcutta	4½-5½	4½-5½
Bombay—		
Larger Banks ..	3½-2½	3½-2½
Smaller Banks ..	3½-2½	3½-2½

* Bank rate was raised to 4 per cent on 16th May 1957. This is the standard rate at which the Reserve Bank is prepared to buy or re-discount bills of exchange or other commercial paper eligible for purchase under the Reserve Bank of India Act.

** The rate at which the State Bank discounts first class three months' commercial bills.

† Rates at which bills of small traders are discounted by shroffs. The quotations are unofficial.

Clearing Houses.—The Principal Clearing Houses in India are those of Calcutta, Bombay and Madras and of these the first two are by far the most important. In 1951-52 Clearing Houses were opened at Baradilly and Jaipur and are being managed by the State Bank of India. This brought the total number of Clearing Houses under the management of the State Bank to 35. In Bombay, a Metropolitan Clearing

Association was formed and registered in October 1946 to arrange for clearing for non-scheduled banks as the Bombay Bankers' Clearing House decided to restrict its membership and sub-membership only to scheduled banks.

The total number of cheques cleared has progressively risen since 1950, the amount which has shown a declining trend in 1952 and 1953, has been higher in 1954, 1955, 1956 and 1957.

The figures from 1952 onwards are shown in the table given below :

CLEARING HOUSE STATISTICS

(In lakhs of rupees)

Year	Velocity of Circulation	Calcutta	Bombay	Madras	Kanpur	Delhi	Other Centres	Total
1952 ..	12.3	2,703.95	2,679.52	432.57	136.94	157.95	742.47	6,653.40
1953 ..	12.5	2,494.36	2,645.06	397.63	146.67	176.22	743.52	6,603.25
1954 ..	12.0	2,754.28	2,753.75	361.94	141.90	204.70	842.60	7,064.27
1955 ..	13.1	3,056.31	2,906.53	412.21	146.11	233.03	975.22	7,519.01
1956 ..	N.A.	3,079.79	3,235.22	406.24	161.94	197.95*	1,269.97	8,441.11
1957 ..	N.A.	3,094.19	3,416.90	514.24	182.55	323.01	1,169.83	8,893.23

N.A. Not Available. * New Delhi.

SOME RECENT DEVELOPMENTS

During 1957, the number of scheduled banks was higher at 91, as against 89 in 1956, and the number of offices increased from 2,964 in the previous year to 3,273.

It was stated that a landmark in Indian banking was the inauguration of the State Bank of India. An important statutory function assigned to the State Bank is the promotion of banking development through the establishment of an effective machinery of branches spread over the whole country, the number of branches to be opened within a period of five years or such extended period as the Central Government might fix, being 400.

The State Bank opened 46 branches in 1956 and 91 branches during 1957. The total number of branches opened since its establishment on 1st July 1955 till the end of December 1957 was 157. At the close of the year, the Bank had a total of 632 offices.

A bill facilitating the reconstitution of some of the State Banks of the former Princely States as subsidiaries of the State Bank was introduced in the Lok Sabha on March 4, 1959. The banks covered are : Bikaner, Indore, Jaipur, Mysore, Travancore, Saurashtra, Patiala and Hyderabad

The Reserve Bank Act was amended in Oct. 1957 to reduce the statutory minimum currency reserve to Rs. 300 crores, of which not less than Rs. 115 crores should be held in gold coin and bullion and the balance in foreign securities.

Till then the Act prescribed a currency reserve of Rs. 115 crores of gold coin and bullion and Rs. 400 crores of foreign securities with a proviso permitting a temporary reduction of the latter to Rs. 300 crores.

Under the Reserve Bank of India (Amendment) Act, 1955, the Bank set up, on February 8, 1956, the National Agricultural Credit (Long-Term Operations) Fund with an initial sum of Rs. 10 crores. An annual contribution of not less than Rs. 5 crores for the five years commencing from June 30, 1956, is to be made towards this Fund. This Fund will make loans and advances to State Governments for subscribing to the share capital of co-operative credit institutions and to central land mortgage banks.

Loans amounting to Rs. 6.04 crores were sanctioned from the National Agricultural Credit (Long-term Operations) Fund of the Reserve Bank to 14 State Governments to enable them to contribute to the share capital of co-operative credit institutions, as at end of June 1958, of which Rs. 5.83 crores were availed of by 13 State Governments.

The Refinance corporation for Industry was registered on 5th June 1958 as a private limited company. The main object of the corporation is to help augment the resources available with the banking system for the use of medium-sized industrial units (i.e., units having resources upto Rs. 2½ crores) in the private sector. The Corporation's share capital is tentatively pro-

posed to be made up of contributions from the Reserve Bank (Rs. 5 crores), the State Bank of India (Rs. 2½ crores), the Life Insurance Corporation of India (Rs. 2½ crores) and 14 other selected scheduled banks in India (Rs. 2½ crores). The allocation of share capital as between the 14 banks is in broad relation to the size of their deposits in India. The Government of India has placed with the Corporation Rs. 26 crores from the counterpart funds arising out of the sale proceeds of the agricultural commodities supplied to this country in terms of the recently concluded Indo-U.S. Agreement. The Corporation has allocated quotas to banks grouped into 4 categories with reference to the size of their deposits, from its total funds of Rs. 38.5 crores within which the banks offer certain types of loans to the Corporation for obtaining refinance. Loans to be eligible for this purpose should have been made for periods between 3 and 7 years and to a medium-sized industry and for a medium-sized amount. Lending banks have assumed the full credit risk on loans submitted to the Corporation. The Corporation is adopting eligibility criteria which is liberal. The interest rate spread between the cost of discount with the Corporation and the prime lending rate of the banks is not less than 1½ per cent. The scheme is thus providing an opportunity to selected banks for extending formal term lending facilities to industries and providing liquidity to the eligible paper offered, by banks upto the extent of quotas which would be allotted to them.

CAPITAL MARKET*

THE earliest reference to stock trading in India dates back to the end of the 18th century when transactions in Government securities and the shares of the East India Company used to take place in Calcutta under a neem tree. Similar references are also available about business in shares in Bombay before 1840. The boom following the American Civil war gave a great impetus to this business.

The Native Share and Stock Brokers' Association of Bombay was formally constituted by an indenture dated December 3, 1887 and was recognised by the Government of Bombay for forward trading in shares under the Bombay Securities Contracts Control Act, 1925. Since then several attempts were made to start rival stock markets in Bombay, the latest one being the Indian Stock Exchange started in 1938.

The Government of India has so far (up to 17th December 1957) recognised five stock exchanges, namely, The Stock Exchange, Bombay, The Ahmedabad Share and Stock Brokers' Association, Ahmedabad, The Calcutta Stock Exchange Association Ltd., Calcutta, The Madras Stock Exchange Ltd., Madras and The Delhi Stock Exchange Association Ltd., New Delhi. The general principles regarding grant of recognition to a stock exchange as laid down in Section 4(1) of the Securities Contracts (Regulation) Act, 1956, has been followed. The Act does not envisage amalgamation, as such, of stock exchanges either before or after recognition is granted under section 4 thereof. Nevertheless, to avoid undue hardship to members of the exchange which have not been recognised, the Government has prescribed certain terms and conditions on which active members of the unrecognised exchanges can seek admission to the recognised exchange.

Section 13 of the Securities Contracts (Regulation) Act, 1956, has been made applicable to the Greater Bombay area in the State of Bombay with effect from 15th October 1957. The effect of the application of section 13 to the Greater Bombay area is that every contract in this area which is entered into after 15th October 1957, otherwise than between members of the recognised Stock Exchange or through or with such member, is illegal.

Calcutta Association.—The Calcutta Stock Exchange Association was founded at No. 2, New China Bazar Road (now known as 2, Royal Exchange Place), Calcutta, with 150 founder members in 1906. Fifteen years later, it was registered as a limited liability concern. The Association is controlled and managed by a Committee and has a membership of 232 brokers.

The only registered institution in south India of brokers dealing in shares and securities is the Madras Stock Exchange Association, Ltd., registered in 1937.

During the boom period several stock markets were started at other industrial centres. These include Delhi and Kanpur.

The Ahmedabad Stock Exchange is also a registered body and recognised by the Government of Bombay under the Bombay Securities Contract Control Act.

There are also organised stock markets in Hyderabad and Indore.

SECURITIES ACT

The Securities Contracts (Regulation) Act, 1956, is the first All India legislation seeking to control transactions on securities and to regulate stock exchange practices. Prior to this Act, there was no legislation for the purpose except in the old State of Bombay.

The Bombay Securities Contracts Control Act, 1925, was not, however, particularly effective because of two main shortcomings: (1) The Act made transactions outside a recognised stock exchange merely void but not illegal. (2) While the Act purported to control only forward

business, it did not make a clear distinction between ready and forward transactions. To remedy these and other defects, the former Bombay Government enacted in 1947, the Bombay Forward Contracts Control Act; but this Act was not applied to securities presumably because Central legislation of this subject has been in contemplation.

But the outbreak of World War II came in the way of immediate legislation and it was only after the end of hostilities effective steps were taken in this direction, which resulted in the Securities Contracts (Regulation) Bill, introduced in the Lok Sabha on December 24, 1944. It was largely based on the recommendations of the Gorrvala Committee appointed in June 1951. The Bill was referred to a Joint Committee of the Houses of Parliament towards the end of 1945. It submitted its report to Parliament on February 23, 1946. The Bill, as revised by the Joint Committee, was passed by the Lok Sabha, with some amendments, on July 18 and by the Rajya Sabha on August 6. It received the assent of the President on September 4, 1946.

Main Provisions

Broadly speaking, the Act applies to transactions other than spot delivery contracts. But power has been taken in the Act to regulate spot delivery contracts also, if the Government regards it as desirable in the interest of trade or in the public interest.

As regards contracts other than those for spot delivery, the regulation takes the form of either controlling the activities of stock exchanges in those areas or States where stock exchanges operate, or through a system of licensing of persons who deal in stocks and shares. In those areas where the stock exchanges operate and to which Section 13 of the Act will be applied, every contract which is entered into otherwise than between members of a recognised stock exchange in such State or area or through or with such members is illegal.

The Act permits only those stock exchanges to function which are recognised by the Central Government. For this purpose, each stock exchange is required to make an application in the prescribed manner to the Central Government, who will grant recognition if the Government is satisfied in regard to certain conditions. Every recognised stock exchange is required to furnish to the Central Government such periodical returns relating to its affairs as may be prescribed.

Subject to the previous approval of the Central Government, any recognised stock exchange may make bye-laws for the regulation and control of contracts. But the Government has the power to make or amend these bye-laws.

Important provisions relating to the listing of securities on a stock exchange are also contained in the Act. In regard to the licensing of dealers and brokers in securities, there are no detailed provisions.

So also no direct provisions are contained in the Act to restrict the prevalence of black transfers, but there is a provision to discourage black transfers indirectly.

MARKET TRENDS

The general downturn in share prices noticed since August 1956 continued during the greater part of 1957-58. The Reserve Bank's index for variable dividend industrial securities, which had dropped from 123.6 at the end of August 1956 to 109.2 by the end of March 1957, declined further to 96.4 by January 4 but recovered somewhat to 97.9 at the end of March 1958. Initially, the 'vote on account' budget for 1957-58 announced on March 19 had a bullish effect upto mid-June. The substantial overall deficit for 1957-58 revealed in the budget combined with Government's determination not to

whittle down the Second Five Year Plan, led to fears of higher taxation in the final May budget.

Over the year, the Reserve Bank's all-India average index of variable dividend industrial securities (base: 1949-50 = 100) declined by 13.1 per cent from 111.1 to 98.0 in continuation of a fall of 9.3 per cent in 1956-57. Region-wise, as in the preceding year, the Calcutta index recorded the largest decline of 14.9 per cent. The decline of the Bombay index was moderate, being 7.5 per cent. The index for Madras, which had recorded a small net rise in 1956-57, showed a sizeable net fall of 12.6 per cent. These regional divergences arose mainly from the differences in the industrial groups traded at these centres.

The gilt-edged market tended to rule easy upto June, owing to the stringency in the money market. The effect of the rise in Bank rate to 4 per cent, effective May 18, 1957, was, by and large, small, partly as a result of the support accorded by the Reserve Bank.

The Reserve Bank average index for Government of India Securities (base: 1949-50 = 100) declined from 89.7 in March 1957 to 88.7 in August, but thereafter recovered somewhat to close for the year at 89.0. Among State loans also, while most of the short-dated loans recorded moderate net gains, the remaining loans showed net losses ranging upto Rs. 1.76. As in the case of the new Central Government loans, the new 44 per cent Bombay and Mysore loans 1956 were also quoting above their issue prices by 25 nP. and 70 nP. respectively.

For the year as a whole, the short-dated loans recorded net gains which ranged upto Rs. 1.35 in the case of the 2½ per cent Loan 1961. Among medium and long, the new 3½ per cent 1967 and the 4 per cent 1972 loans issued in August were also quoting at the year end at a premium of 25 nP. and 15 nP. respectively, over their issue prices. Other loans recorded net declines which were particularly marked in the irredeemable. The irredeemable 3 per cent Conversion Loan of 1946, which had declined by Rs. 3.81 in 1956-57 and by Rs. 2.56 in 1956-57, went down further by Rs. 3.62. As in the preceding year, the 3 per cent 1970-75 Loan, among the dated issues, showed the largest decline of Rs. 1.22.

For the year as a whole, the market recorded a fall of 9.3 per cent, with the Reserve Bank's all-India index of variable dividend industrial securities (base: 1949-50 = 100) falling from 123.6 for March 1956 to 111.1 for March 1957. This decline contrasted with the successive net increases of 6.1 per cent, 12.5 per cent and 8.4 per cent recorded in the preceding three years. Region-wise, the Calcutta share market recorded the largest decline of 4.8 per cent. The Madras market, however, recorded a small net rise of 0.4 per cent. These regional divergences arose mainly from the differences in the industrial groups traded at these centres.

In the gilt-edged market, the firm tendency which generally prevailed during 1956-57 was carried further upto about mid-June, mainly on sustained investment demand from non-bank institutional investors. On the other hand, scheduled banks, which were under severe pressure for funds, reduced their gilt-edged portfolios between March and June to the tune of Rs. 15 crores. The Reserve Bank's average index for Government of India securities (base: 1949-50 = 100) moved up from 89.7 in March to 91.1 in June.

For the year as a whole (1956-57), having a few short dated loans which showed increases of 6 nP. to 15 nP., most of the remaining loans recorded declines which were particularly marked in the long and undated issues. The 3 per cent Conversion Loan of 1946, which had declined by Rs. 3.81 in 1956-57, declined further by Rs. 3.62 to Rs. 3.44, and in the dated portion

* There is also an article on Company Law administration. For page see under Index.

the 3 per cent 1970-75 loan registered the maximum decline, of Rs. 1.58 which wiped out particularly the rise of Rs. 2.31 recorded in the previous year. In the case of State loans, the declines over the year ranged upto Rs. 1.48 in the case of the M.P. Loan 1967. Over the year,

yields on Central Government securities hardened by about 1 per cent. For instance, the 3 per cent 1970-75 Loan fetched an yield (to later redemption date) of 3.98 per cent at the year end, as against 3.75 per cent a year before. The yield (flat) of the 3 per cent Conversion Loan of 1946

also rose from 3.91 to 4.04 per cent. In the case of State loans also the rise in yields was about 1 per cent. Thus the Andhra Loan 1966 fetched 4.24 per cent at the end of March 1967, as against 4.05 per cent at the time of its issue in September 1966.

From December 1966, the Reserve Bank of India started constructing indices of security prices. These indices (all-India) reveal the following trend :—

Average of Weeks	Government & Bank Government Securities	Industrial Securities		Banks	Insurance	Investment Trusts	Electricity Transmission	Shipping and other Transport	Railways	Trunklines	Cotton, Woolen and Silk Mills	Jute Mills	Coal	Mining and Oil	Iron and Steel	General Engineering	Sugar and Breweries	Chemicals	Paper	Cement
		Fixed Dividend	Variable Dividend																	
Base: 1949-1950 = 100)																				
1953-53	90.1	87.8	94.0	85.0	86.0	75.0	115.0	86.0	82.0	89.0	94.0	91.0	84.0	120.0	97.0	101.0	85.0	94.0	151.0	113.0
1953-54	90.4	87.8	95.6	86.0	87.0	75.0	116.0	84.0	82.0	92.0	96.0	82.0	78.0	132.0	107.0	113.0	85.0	99.0	159.0	116.0
1954-55	90.5	88.4	112.9	87.0	108.0	90.0	123.0	108.0	86.0	156.0	107.0	93.0	82.0	196.0	140.0	156.0	101.0	132.0	211.0	141.0
1955-56	90.9	87.8	121.6	88.2	108.1	93.4	122.5	106.4	89.2	184.0	117.6	95.3	81.2	225.0	154.1	188.9	104.7	144.1	255.7	164.4
1956-57	90.5	82.9	121.2	86.7	87.2	89.9	112.4	117.8	83.5	170.4	133.7	70.2	78.1	232.7	146.6	167.7	105.0	144.0	286.1	175.7
1957-58	89.3	74.6	100.3	96	85	78	103	117	70	130	106	52	67	163	119	151	95	131	211	141

CAPITAL ISSUES

Data regarding actual capital raised from year to year are not available. However, figures of capital subscribed and paid-up against the consents granted during the seven years 1960 to 1966 are available in respect of companies which have reported to the Controller of Capital Issues. The data of subscribed and paid-up capital give an encouraging picture. During the seven-year period 1960-66, new issues amounting to Rs. 632 crores were sanctioned, of which Rs. 461 crores were in respect of ordinary and preference shares issued for cash, Rs. 67 crores for bonus issues and Rs. 85 crores for debentures. (Of these, data regarding capital raised are available only in respect of companies which were sanctioned Rs. 366 crores. As against Rs. 283 crores sanctioned for share capital against cash subscriptions, the amount subscribed and paid-up in respect of these companies was Rs. 266 crores and Rs. 170 crores, respectively, as at the end of 1966. As regards debentures, Rs. 49 crores were subscribed and paid-up, as against Rs. 56 crores sanctioned.

A significant development during 1965-66 was the enactment in February 1966 of a bill to extend indefinitely the Capital Issues (Continuance of Control) Act, 1947.

Official data issued by the Controller of Capital Issues although they relate only to consents

granted (and not to amounts actually raised), would also seem to confirm the above broad conclusion. These data show that during 1957 there was a sizeable decline in respect of the amount asked for and correspondingly in the amount sanctioned, after the sizeable increases noticed in 1956. The fall in the amount for which sanction was asked for (excluding bonus and miscellaneous issues) was from Rs. 187 crores in 1956 to Rs. 110 crores. The decline in the amount sanctioned was relatively larger from Rs. 168 crores to Rs. 91 crores, so that the ratio of amount sanctioned to amount asked for worked out lower at about 83 per cent as against 89 per cent in 1956; over half of the decline was in respect of Government companies. Another feature of the 1957 situation is that the fall in the aggregate sanctions for *new issues* (i.e. new companies) from Rs. 80 crores in 1956 to Rs. 43 crores was entirely on account of the public sector (i.e. Government companies), so that if such issues are excluded, initial issues by the private sector recorded, in fact, a moderate rise of Rs. 8 crores to Rs. 36 crores.

The amount of consents for foreign participation sanctioned in 1957 was somewhat lower at Rs. 45 crores as compared to Rs. 49 crores in 1956. The decline is entirely accounted for by consents for World Bank loans amounting to Rs. 33 crores in 1957 and Rs. 36 crores in 1956.

If these are excluded, other consents for foreign participation in 1957 were virtually at the preceding year's level of slightly over Rs. 13 crores.

According to the official data now available in regard to capital raised during the calendar year 1957, the total capital raised by the corporate sector in 1957 amounted to Rs. 71 crores excluding bonus issues of Rs. 3.81 crores and miscellaneous (e.g. loans) of Rs. 10.47 crores, of which Rs. 42 crores (59 per cent) were in respect of companies in the private sector which have raised capital with the consent of the Controller of Capital Issues, Rs. 19 crores (27 per cent) were in respect of Government companies and the balance of Rs. 10 crores (14 per cent) represented issues for which the consent of the Controller was not required. Out of Rs. 42 crores raised by non-government companies, as much as Rs. 37 crores (87 per cent) were in respect of public limited companies, the balance representing the share of private limited companies. In the case of public limited companies, ordinary shares accounted for Rs. 28 crores (76 per cent), the balance of Rs. 9 crores being accounted for more or less equally by preference shares and debentures. Of the sum raised by both public and private non-Government companies as share capital, as much as 74 per cent comprised further issues by existing companies, the balance representing issues by new companies.

Control of Capital Issues

(Rupees in Crores)

YEAR	APPLICATIONS*		CONSENTS									
			Total		Initial		Further Others		Further Debenture		Further Bonds	
	No. of Companies	Amount	No. of Companies	Amount	No. of Companies	Amount	No. of Companies	Amount	No. of Companies	Amount	No. of Companies	Amount
1960	229	84.98	225	74.75	47	13.00	96	41.59	25	10.98	98	8.84
1961	416	69.32	343	60.64	46	21.00	153	29.27	16	3.62	138	10.77
1962	229	123.23	254	39.79	23	12.00	121	17.57	9	1.75	101	7.77
1963	272	89.79	233	81.30	31	13.34	97	34.43	20	13.02	84	14.72
1964	297	118.08	229	110.57	74	57.94	49	25.43	24	20.39	55	9.88
1965	274	151.43	260	123.39	76	46.90	80	27.43	23	17.35	55	6.47
1966	298	254.40	297	209.15	69	60.89	113	76.67	12	11.40	72	8.50
1967	284	193.73	245	155.33	54	45.82	138	56.84	23	9.66	168	15.40

* Figures relate only to applications disposed of during the period and not to applications actually received during the period.

COMPANY LAW

The main features of the Company Act are :
(1) Equity shares with differential rights regarding voting, dividend, participation in capital on dissolution, are prohibited.

(2) It puts restrictions on inter-company loans and investments.

(3) There is a ceiling on overall managerial remuneration.

(4) Most decisions of the management and even of the Shareholders of a Company require the approval of the Government before they are put into effect.

(5) The appointment of a managing agent or an associate as a selling or buying agent outside India requires approval by a special resolution.

INDUSTRIAL FINANCE CORPORATION†

Under the Industrial Finance Corporation Act, a Corporation was established on July 1, 1948 to provide medium and long-term finance to public limited companies and co-operative societies registered in India, including the seceding States, and engaged in the manufacture or processing of goods or in mining or in the generation or distribution of electricity or any other form of power. Individuals, partnership firms or private limited companies are thus excluded from the purview of the Corporation's operations. With the setting up of a number of State Financial Corporations, it was agreed that applicants for loans upto Rs. 10 lakhs or 10 per cent of the paid-up capital of the State Financial Corporation of the State in which they are situated, if that was lower than Rs. 10 lakhs, should be advised to apply not to the Industrial Finance Corporation but to the State Financial Corporation concerned. The authorised share capital is Rs. 10 crores, divided into 20,000 shares of Rs. 5,000 each, the paid-up capital being Rs. 5 crores in respect of 10,000 shares issued. To this issue, the Central Government and the Reserve Bank of India subscribed Rupees one crore each, the scheduled banks and financial institutions like insurance companies and investment trusts, Rs. 1½ crores each, and co-operative banks Rs. ½ crore. The paid-up value of the share capital and dividends on it at the minimum rate of 2½ per cent. per annum are guaranteed by the Government. The Board of Directors consists of thirteen members, of whom four are nominated by the Central Government and two by the Reserve Bank of India, and seven are representatives of scheduled banks, insurance companies, investment trusts and other financial institutions.

The Corporation is authorised to borrow up to ten times the amount of its paid-up capital and reserve fund. When the Reserve Fund equals the authorised capital of Rs. 10 crores, the borrowing capacity of the Corporation will be Rs. 200 crores. The Corporation may also accept deposits for periods of not less than five years, but the total deposits accepted may not exceed Rs. 10 crores.

The Industrial Finance Corporation (Amendment) Act, 1957, which was passed in November 1957 and which came into force from December 21, 1957, empowers the Corporation (1) to borrow upto a limit of ten times its paid-up capital and reserve funds as against five times provided for in the original Act of 1948, (2) to accept deposits from the State Governments and local authorities also prior to the amendment, the Corporation could accept deposits only from the public, and (3) to guarantee deferred payments by importers of capital goods who are able to make such arrangements with foreign manufacturers. The amending Act also enables a larger number of industries, including new industrial concerns which are not in a position to offer adequate security but deserve encouragement from the point of view of the national economy, to avail themselves of the Corporation's loan assistance, if such assistance is guaranteed as to the repayment of the principal and payment of interest by the Central Government, State Governments, a scheduled bank or a State co-operative bank.

In view of the increase in the rates of interest at which it has to raise funds, the Corporation raised its lending rate by ½ per cent to 7 per cent, effective April 23, 1957, with the usual rebate of ½ per cent for payment of interest and instalments of principal on due dates.

During 1957-58, loans sanctioned by the Industrial Finance Corporation of India aggregated Rs. 9.08 crores in respect of 32 industrial concerns as compared with Rs. 9.76 crores sanctioned in respect of 37 concerns in the preceding year. The principal borrowers were sugar, chemical, cotton textile, engineering and cement companies, Rs. 4.96 crores (55 per cent as compared to 34 per cent in 1956-57) were in respect of co-operative sugar factories mainly for setting up new units. Since its inception in July 1948 upto March 31, 1958, the Corporation sanctioned loans aggregating Rs. 57.48 crores in respect of 265 applications. The steep increase noticed last year in the pace of disbursements was maintained during the year under review. The amount disbursed was higher at Rs. 7.93 crores in 1957-58 as compared with Rs. 7.86 crores in 1956-57 and Rs. 2.17 crores in 1955-56, the disbursements during the last two years viz., 1956-58, amount for nearly 50 per cent of the total amount (Rs. 32.03 crores) disbursed since the inception of the Corporation.

During the year, the resources position of the Corporation was further strengthened and the scope of its activities widened through suitable amendments to the Industrial Finance Corporation Act as well as through an increase in the provision made under the Second Plan for Central Government assistance in the form of loans. The provision made in the Second Plan for Central Government loans to the Corporation was raised from Rs. 13.5 crores to Rs. 28.26 crores. Of this, a sum of Rs. 9 crores was drawn during the year 1957-58, the amount of loans from Central Government outstanding as on March 31 1958 being Rs. 15 crores. The Corporation's outstanding borrowings from the Reserve Bank under Section 21(3)(b) of the Industrial Finance Corporation Act increased from Rs. 1.06 crores on March 29, 1957 to Rs. 2.97 crores by September 27, 1957. The borrowings were, however, completely repaid by the end of March 1958. The Corporation also raised Rs. 4.56 crores through the issue of 4½ per cent Bonds 1967 in November 1957, the issue price being Rs. 99.

Up to the end of June 1958 the Corporation sanctioned over Rs. 64.17 crores by way of loans. Amount sanctioned in 1957-58 alone aggregated Rs. 9.08 crores.

OTHER FINANCIAL CORPORATIONS

An Act to provide for the establishment of State Financial Corporations was passed in October 1951. The Act enables the State Governments to establish a Financial Corporation for the State under a name to be specified by notification; and the State Government concerned, the Reserve Bank, scheduled banks, insurance companies, investment trusts, co-operative banks and other financial institutions will be entitled to subscribe to the share capital. Parties other than these can also be shareholders; but their aggregate holding will not exceed one fourth of the total capital. The shares allocated will not be transferable except to the State Government, the Reserve Bank or any other recognised financial institution.

The shares of the Corporation will be a trustee security under the Indian Trusts Act and an approved security under the Insurance and Banking Acts. The shares shall be guaranteed by the State Government in regard to the repayment of principal and the payment of annual dividend at such minimum rate as the State Government may, with the approval of the Central Government, fix by notification. The Corporation may issue bonds and debentures for increasing its working capital and accept deposits of not less than five years' maturity.

The Corporation may transact the following business:—(a) the guaranteeing of loans raised by industrial concerns in the public market for not more than 20 years; (b) the underwriting

of the issue of stocks, shares, bonds or debentures by industrial concerns; (c) the granting of loans or subscribing to debentures of industrial concerns repayable within 20 years; and (d) other business arising or ancillary to the above. The limit of accommodation to any industrial concern will be up to a maximum of one-tenth of the Corporation's share capital subject to a maximum of Rs. 10 lakhs.

Up to the end of March 1958, 12 States had established State Financial Corporations—Punjab, Madras, Bombay, West Bengal, Kerala, U P, Rajasthan, Assam, Bihar, Madhya Pradesh, Andhra and Orissa.

The year 1957-58 witnessed a further expansion in the activities of the State Financial Corporations. Both the amount of loans sanctioned and the amount of loans disbursed during the year were higher at Rs. 4.77 crores and Rs. 3.71 crores, respectively, as compared with Rs. 4.43 crores and Rs. 2.86 crores in 1956-57. The total amount of outstanding loans and advances rose over the year by Rs. 3.06 crores to Rs. 9.51 crores, accounting for 49 per cent of their total assets as against 46 per cent a year ago. With increasing recourse by industrial concerns to these corporations for loan assistance, some of the older corporations, viz., Punjab, Kerala and West Bengal, found it necessary to augment their resources through issue of bonds.

By the end of 1957, the Industrial Credit and Investment Corporation of India had approved financial assistance for a total amount of Rs. 11.65 crores (excluding applications sanctioned but subsequently withdrawn by the applicant or not proceeded with for other reasons) as against Rs. 6.01 crores by the end of 1956. Of this, Rs. 5.44 crores were in the form of loans (as compared to Rs. 2.95 crores at end-1956) and Rs. 6.35 crores in respect of underwriting of shares and debentures (as compared to Rs. 2.38 crores by end-1956). The sharp rise in total loans granted in 1957 was mainly because of the sanction, for the first time, of 5 loans in foreign currencies amounting to Rs. 2.21 crores (4.6 million U.S. dollars). The assistance of the Corporation was broad-based and covered a wide range of industries, which included the manufacture of paper, chemicals and pharmaceuticals, fuel injection equipment, electrical equipment, textiles, sugar, metal ores, lime and cement works, glass manufacture, etc. Out of the 36 projects to which the Corporation agreed to give rupee assistance by the end of 1957, 16 were new enterprises. The disbursement of funds out of assistance sanctioned, however, continued to be much less than the amounts sanctioned. As against loans (including those in foreign currencies) amounting to Rs. 5.44 crores sanctioned by the end of 1957, actual disbursements came to Rs. 1.95 crores (or 35.8 per cent), although, as compared to 1956, the position recorded some improvement.

The Refinance Corporation for Industry Private Ltd was registered on June 5, 1956 as a private limited Company in terms of the Indian Companies Act. The Corporation provides re-lending facilities against loans given by banks to industrial concerns for the purpose of increased production primarily in industries included in the Second Five-Year Plan and succeeding Plans. Loans to be eligible for rediscunt must be for periods between 3 and 7 years and of a medium-sized amount, not exceeding Rs. 50 lakhs. These facilities are available only to those industrial concerns whose paid-up capital and reserves (excluding reserves for the payment of taxes and normal depreciation reserves) do not exceed Rs. 2.5 crores in any particular case. The management of the Corporation has been entrusted to a Board of Directors consisting of seven members: the Governor of the Reserve Bank is the Chairman, the other directors being a Deputy Governor of the Reserve Bank, the Chairman of the State Bank of India, the Chairman of the Life Insurance Corporation and three representatives of the banks participating in the Corporation.

(For State Financial Corporations see under each State).

† See also under Corporations under 'Late Particulars.'

BULLION

The following table gives details about the trend of silver production from 1954 to 1957:—
(In millions of ounces)

Countries	1954	1955	1956	1957
United States of America	35.6	36.5	35.7	37.5
Mexico	39.9	45.0	43.1	46.0
Canada	31.1	28.0	27.7	24.2
Peru	30.4	22.9	21.8	23.0
Bolivia	5.0	5.9	7.5	7.0
Other South and Central American Countries	7.8	6.4	7.0	7.0
Total Western Hemisphere	139.8	147.7	145.8	144.7
Outside the Western Hemisphere	74.4	75.7	76.6	78.0
World Production	214.2	223.4	222.7	222.7
India	0.161	0.182	0.105	0.126

The recent trend of silver consumption (partial data) is given in the following table.—
(In millions of ounces)

	1954	1955	1956	1957
ARTS AND INDUSTRIES				
United States	85.0	100.0	100.0	95.0
Germany	24.2	23.1	40.8	45.0
Great Britain	12.6	14.2	13.2	13.5
Canada	3.9	4.6	4.5	5.2
Japan	5.8	6.2	8.0	8.8
France	15.0	15.7	12.0	12.3
Other Countries	8.3	15.4	15.5	15.0
Total	154.8	184.2	194.0	194.8
COINAGE				
United States	53.2	8.2	31.1	51.4
Saudi Arabia	—	17.2	—	—
Mexico	nominal	2.3	4.9	3.1
Canada	0.9	0.5	2.8	4.7
Other Countries	29.3	22.4	22.3	20.0
Total Coinage	83.4	50.6	61.1	79.2
Total Consumption	238.2	234.8	255.1	274.0

Note. The consumption estimates are by Handy and Harman in their review of the Silver Market of 1956.

As in the preceding year, so during 1957, the price trends in the world silver markets remained steady, the market continuing to be dominated by the U.S. silver laws and the Treasury's policy under these laws. The price fluctuations in the New York market were narrow and the average price for 1957 was virtually the same as for 1956, namely 90.82 cents per ounce. Prices in the London market ranged between 80½d. and 77½d. per ounce.

During 1957, world silver output (outside the U.S.S.R.) remained virtually unchanged at the

1956 level of 223 million ounces. World consumption of silver, on the other hand, is estimated to have increased from 272.6 million ounces in 1956 to 299 million ounces or by about 6 per cent; of this about 209.8 million ounces were used in arts and industries, which as compared to the preceding year, showed a negligible decline of less than one per cent. Consumption for coinage is estimated to have increased further by 29.6 per cent to 79.2 million ounces, the most significant rise in coinage consumption occurring in the U.S.A.

Arrangements for the repayment to the U.S.A. of lend-lease silver were reported to have been completed by all the debtor countries excepting Saudi Arabia and Ethiopia; these two countries have availed themselves of the extension provisions. According to Messrs. Handy and Harman, the estimated total return of lend-lease silver through December 1957 was 353.1 million ounces out of the original lend-lease obligations amounting to 410.8 million ounces.

The following table gives the average silver quotations in New York and London from 1950 to 1957:

	New York Average	London Spot
1950	Cents 74.17	Pence 64.77
1951	79.37	77.86
1952	84.84	74.36
1953	85.19	73.94
1954	85.25	73.48
1955	89.10	77.51
1956	90.82	79.15
1957	90.82	78.93

GOLD

Abroad, the price movement in gold continued to be narrow during 1957. In the London gold market, the range of price variations was only 2sh. 6½d. or slightly over 1 per cent and was largely due to the fluctuations in the U.S. Dollar/Sterling rate; the price in terms of U.S. dollars for gold showed only a variation of ½ per cent.

World gold production (excluding the U.S.S.R.) rose further during 1957 by about 4 per cent from 28.1 million to 29.3 million fine ounces. Reports indicate that during the year, the hoarding demand for gold decreased markedly but, despite this, the volume of turnover in world gold markets recorded an increase; the turnover in the London market was estimated to have risen by 25 per cent. Operations of Central banks, mainly in connection with the E.F.U. monthly settlements, increased in importance and accounted for well over half the turnover in the London market as compared with the previous year's estimate of about a third of the turnover. The year also saw the largest volume of gold sales by the U.S.S.R. (7.5 million ounces) in any year since the War.

World Gold Production (In thousands of fine ounces)

Countries	1952	1953	1954	1955	1956*	1957
I. Commonwealth	19,108	18,904	20,623*	21,925*	22,960	24,299
(a) Australia	980	1,075	1,118	—	—	1,080
(b) Canada	4,472	4,069	4,366	4,542	4,380	4,450
(c) Ghana	691	731	737	667	633	790
(d) Indian Union	253	223	239	211	309	179
(e) New Zealand	59	39	42	27	25	25
(f) Southern Rhodesia	497	501	536	525	535	535
(g) Union of South Africa	11,819	11,941	13,237	14,601	15,890	17,030
(h) Others	337	325	356	283	255	230
II. Latin American Countries						
(a) Brazil	160	147	153	145	160	150
(b) Chile	176	131	125	123	85	80
(c) Colombia	432	437	377	351	440	390
(d) Mexico	459	438	396	379	350	350
(e) Peru	135	140	147	163	150	150
III. United States of America	1,927	1,970	1,850	1,877	1,960	1,850
IV. All Countries†	24,563	24,464	25,850*	27,124*	28,100	29,900
Commonwealth percentage	77.7	77.3	79.3	80.3	81.7	82.9
Union of South Africa percentage	48.1	48.6	51.2	53.6	56.6	56.1

* Provisional figures.

† Excluding U.S.S.R.

Assaying and Refining of Gold and Silver

Some relevant statistical data are given below:—

(Thousands of tolas)

Year	Melting and Assaying		Refining	
	Gold	Silver	Gold	Silver
1952-53	28	62.55	24.11	21.58
1953-54	80	72.07	17.51	18.41
1954-55	75	72.07	18.59	8.19
1955-56	20	45.29	16.42	17
1956-57	11	144.18	10.77	12
1957-58	12	120.71	9.68	7

The following table gives details of imports and exports of gold and silver:—

Yearly Average	Imports		Exports		Net Imports (+) Net Exports (-)	
	Ounces in thousands	Rs. in lakhs	Ounces in thousands	Rs. in lakhs	Ounces in thousands	Rs. in lakhs
GOLD						
1952-53	1	2	—	—	+ 1	+ 2
1953-54	1	2	—	—	+ 1	+ 2
1954-55	3	7	1	2	+ 2	+ 5
1955-56	4	10	—	1	+ 4	+ 10
1956-57	6	16	—	1	+ 6	+ 15
1957-58	—	22	—	—	—	+ 22
SILVER						
1952-53	1.28	5	—	—	+ 1.28	+ 5
1953-54	1.42	6	1	—	+ 1.41	+ 6
1954-55	—	—	—	—	—	—
1955-56	9	—	5	—	+ 4	—
1956-57	11	—	—	—	+ 11	—
1957-58	—	—	—	41.84	—	- 41.84

The domestic gold output declined further during 1957 (figures are provisional) to 179,195 ounces (valued at Rs 5 10 crores), as against 209,253 ounces (valued at Rs 5.77 crores) in 1956. Indian silver production, which is relatively quite insignificant, however, rose during the year; the output during 1957 amounted to 126,105 ozs (valued at Rs. 6 03 lakhs), as against 104,604 ozs. (valued at Rs 4 35 lakhs) during 1956. Supplies of bullion to the market were augmented by continued arrivals of contraband gold, although, for some time during the year, smuggling activity appeared to be at a low ebb, in view of the Suez Canal crisis. In silver, the supply position was helped by arrivals of Tibetan silver coins practically throughout the year under review.

The demand for bullion appeared to gather strength during the year, possibly to some extent on account of the imposition of the Wealth Tax. In the result, there was accentuation of bull pressure on the market, with further price increases in both metals. In gold, the ready rate rose over the year from Rs 105.75 to Rs 111.31 per tola and in silver from Rs 179 87 to Rs 195.75 per 100 tolas. The rise was relatively more pronounced in the quarter ended March 1958 which coincided with the busy season to the year.

The volume of futures business during 1957-58 aggregated 24.8 million tolas in gold and 1.1 million bars in silver. These figures compare with a turnover of 52.9 million tolas in gold and 2.3 million bars in silver 1956-57.

During the year, the working of the futures market in bullion in Bombay under the auspices of the Bombay Bullion Association, continued to be, on the whole, smooth. However, towards the close of the year, market activity was characterised by considerable bull manipulations especially in silver and called for remedial action. With the sanction of the Bombay Government, therefore the Governing Board of the Association imposed special margin under bye-law 33A(3). Accordingly, a margin of Rs. 500 per bar became operative from March 26 in respect of all outstanding purchases exceeding 40 bars in silver in either of the then current *Chaitra* or *Vaishakh* settlement. Indicative of the state of comparative normalcy, *rukhs badia* (contango) prevailed during the greater part of the year upto December 1957, in both gold and silver and ranged upto Rs. 1.19 in silver and Rs. 0.50 in gold; however, *undis badia* (backwardation) emerged in the closing quarter of the year and ranged upto Rs. 2 in silver and Rs. 1 in gold.

During the year, no automatic margin under bye-law 33C based on price variations came into operation either in gold or silver. However, bye-law 33D under which margins are linked to

changes in both carry-over charges and contract prices, came into operation thrice each in gold and silver and were against the bulls. Special clearings, under bye-law 104(2), designed to ensure prompt payment of differences when price fluctuations become excessive, came into force in one settlement during the year.

An event of importance during the year relating to futures trading in bullion was the recommendations made by the Forward Markets Commission in their report submitted to the Union Government in May 1957 that (i) forward trading throughout India should be brought within the purview of the Forward Contracts (Regulation) Act, 1952 and that (ii) futures trading in gold and silver might be recognised in Bombay and Delhi only and in respect of silver, in Jaipur and Calcutta only. At present, except in the city of Bombay where futures trading in bullion is governed by the Bombay Forward Contracts Control Act, 1947, such trading at all other centres in the country is free from any Governmental regulation. The Government of India, however, announced their decision on February 18, 1958 that the status quo should continue for the time being.

Smuggled gold seized by Customs during 1956, 1957 and the first half of 1958: 378,188 tolas of gold and 1,967 sovereigns.

This is because price in India was around Rs. 106 per tola, outside Rs. 62.50 per tola.

The following statement gives the highest and lowest spot prices of gold and silver in Bombay with import duties from 1950-51 to 1957-58:—

Gold (per fine tola).

Silver (per 100 tolas gram).

Year.	Highest.	Lowest.	Average.	Import Duty.	Highest.	Lowest.	Average.	Import Duty.
	Rs. a. p.	Rs. a. p.	Rs. a. p.		Rs. a. p.	Rs. a. p.	Rs. a. p.	
1950-51	120 2 0	104 12 0	113 7 4	12 8 0	120 12 0	179 14 0	125 14 0	9 6 0
1951-52	118 10 0	79 8 0	109 1 11		207 4 0	148 0 0	126 4 8	
1952-53	96 14 0	77 5 0	85 0 1		174 12 0	141 12 0	159 8 4	
1953-54	93 6 0	79 8 0	85 1 0		167 14 0	148 14 0	157 4 10	
1954-55	95 6 0	83 0 0	89 2 4	12 12 nP.	173 14 0	157 15 0	159 5 9	9 12 0
1955-56	107 1 0	89 6 0	95 12 8		158 12 0	154 12 0	160 11 0	
1956-57	109.62 nP.	94 94 nP.	103.17 nP.		157.37 nP.	169.00 nP.	175.00 nP.	
1957-58	114 37 nP.	104 50 nP.	108.46 nP.		190.00 nP.	177.19 nP.	164.00 nP.	

NATIONAL INCOME

THE National income of India at 1948-49 prices was Rs. 11,010 crores in 1956-57, as against Rs. 10,480 crores in 1955-56 and Rs. 10,590 crores in 1954-55 according to the fourth issue of the annual paper on national income released by the Central Statistical Organisation.

The per capita income at 1948-49 prices, according to the report, correspondingly rose from Rs. 271.9 in 1954-55 to Rs. 273.6 in 1955-56 and 284.0 in 1956-57.

The estimates for 1955-56 included in this paper are based on the detailed method of estimation followed for the earlier years and show an upward revision over the preliminary estimates published in 1957. The estimates for 1956-57 are based on partial material and are subject to revision.

National income estimates for 1957-58 are not yet available. However, in view of the estimated decline in production of some important agricultural commodities and the relatively small increase in industrial production, it would appear that the increase in national income (at constant prices), if any, will be of very small proportion.

The table below indicates the trend of national income (or net national output) at 1948-49 prices since 1948-49 :

Year	Net National Output at 1948-49 prices (Rs. crores)	Per capita net output at 1948-49 prices (Rs.)
1948-49	8,650	246.9
1949-50	8,590	245.6
1950-51	8,550	245.2
1951-52	9,100	250.1
1952-53	9,480	256.6
1953-54	10,090	268.7
1954-55	10,290	271.9
1955-56	10,480	273.6
1956-57	11,010	284.0
(Preliminary)		

According to the paper, during the First Five-Year Plan period (1951-52 to 1955-56) the national income in real terms increased by 17.7 per cent, as against the original plan target of 11 per cent. The corresponding rise in the per capita income was 10.5 per cent.

INDEX NUMBERS

The index numbers of national and per capita incomes are given below (1948-49 = 100)

Year	National Income		Per Capita Income	
	At current prices	At 1948-49 prices	At current prices	At 1948-49 prices
1950-51	110.2	102.3	107.4	99.8
1954-55	111.2	118.8	109.0	110.1
1956-56	111.6	120.5	102.1	110.2

BY ORIGIN
The following table indicates national income (at constant prices) by industrial origin :
(In crores of Rs.)

	1956-56	1956-57
Agriculture, animal husbandry and ancillary activities	4,530	5,090
Mining, manufacturing and small enterprises	1,850	1,970
Commerce, transport and communications	1,880	1,980
Other Services	1,730	1,810
Total	9,990	11,400

At current prices, the rise was higher, from Rs. 9,990 crores to Rs. 11,410 crores or 14.2 per cent.

The per capita national income at current prices rose by 12.6 per cent., from Rs. 280.5 in 1955-56 to Rs. 294.3 in 1956-57.

In 1956-57, the rise in national income was contributed by all the four sectors of the economy as compared to only three sectors in the preceding year. The rise in the share of agriculture, animal husbandry and ancillary activities in 1956-57 amounted to Rs. 240 crores in contrast to a fall of Rs. 10 crores in the preceding year. The share of mining, manufacturing and small enterprises rose by Rs. 80 crores, as compared with a rise of only Rs. 60 crores in the preceding year. The share of commerce, transport and communications also increased by Rs. 110 crores as compared with a rise of only Rs. 60 crores in the preceding year. The rise in the share of other services was Rs. 90 crores, the same as in the preceding year.

In terms of current prices, the rise of agricultural sector in 1956-57 was phenomenal owing to the higher level of agricultural prices; the share rose by Rs. 1,160 crores or by 25.6 per cent.

More detailed figures over a longer period are given below.

NATIONAL INCOME BY INDUSTRIAL ORIGIN AT CURRENT PRICES

(In Rs. Abja*)

Item	1956-57 (Preliminary)	1955-56	1954-55	1953-54	1952-53	1951-52
Agriculture :						
Agriculture, animal husbandry and ancillary activities	55.5	44.1	42.3	52.0	47.1	49.1
Forestry	0.8	0.7	0.7	0.6	0.6	0.7
Fishery	0.6	0.5	0.5	0.5	0.4	0.4
Total of Agriculture	56.9	45.3	43.5	53.1	48.1	50.2
Mining, Manufacturing and Hand-trades :						
Mining	1.1	1.0	0.9	1.0	0.9	0.9
Factory establishments	8.9	7.8	7.5	6.9	6.4	6.4
Small enterprises	9.7	9.7	9.6	9.8	9.7	9.5
Total of Mining, etc.	19.7	18.5	18.0	17.7	17.0	16.8
Commerce, Transport and Communications :						
Communications	0.5	0.5	0.4	0.4	0.4	0.4
Railways	2.8	2.5	2.2	2.0	2.0	2.1
Organised banking and insurance	1.0	0.9	0.8	0.8	0.7	0.6
Other commerce and transport	15.0	14.9	14.7	14.8	14.7	14.6
Total of Commerce, etc.	19.3	18.8	18.1	18.0	17.8	17.9
Other Services :						
Professions and liberal arts	5.8	5.6	5.4	5.3	5.2	5.0
Government Services (Administration)	6.0	5.7	5.2	4.9	4.6	4.5
Domestic Service	1.5	1.4	1.4	1.4	1.3	1.4
House Property	4.8	4.6	4.5	4.4	4.3	4.1
Total of Other Services	18.2	17.3	16.5	16.0	15.4	15.0
Not domestic product at factor cost	114.0	99.9	99.1	104.8	98.3	99.9
Not earned income from abroad	0.1	0.0	0.0	0.0	0.1	0.2
Net National Output at factor cost = NATIONAL INCOME	114.1	99.9	99.1	104.8	98.2	99.7

* Abja = Rs. 100 crores.

VALUE OF PRODUCE

The net value of all agricultural commodities produced in 1950-51 was Rs. 4,112 crores. The values of some of the individual commodities are as follows (in Rs. crores):

Arhar 83, Bajra 81, Barley 80, Coconut 76, Cotton 113, Chillies 68, Gram 147, Ground-nut 216, Jowar 194, Rape and Mustard 69, Rice 1,119, Straw 591, Sugarcane 305, Tobacco 71, Wheat 334.

The total net contribution of the manufacturing industries to the national dividend was Rs. 513.4 crores in 1950. The contribution of some individual industries are given below (Rs. crores):

Banking 36.29, Insurance 22.85.

Automobiles and coach building 7.4, Cement 8.5, Chemicals 14.0, Cotton textiles 107.9,

General and electrical engineering 29.4, Iron and Steel 26.0, Jute textiles 46.6, Paper and paperboard 6.4, Rubber and rubber manufacturing 10.1, Sugar 35.8, Tea manufacturing 69.3, Tobacco products 10.5, Vegetable oils 11.7.

Income from health and medical services 116, educational services 69, arts literature and science 66, legal 32, religious and charitable 47, sanitary 37, domestic service 130.

ESTIMATE OF NET OUTPUT PER ENGAGED PERSON : 1948-49

	Net Output (Rs. crores)	No. of Persons Engaged (crores)	Net Output per Engaged Person (Rs.)
Agriculture	4,890	10.36	500
Mining and Factory Establishments	620	0.27	1,700
Small Enterprises	910	1.16	800
Railways and Communications	210	0.14	1,600
Banking, Insurance and other Commerce and Transport	1,470	0.97	1,500
Professions and Liberal Arts	470	0.64	700
Government Services (Administration)	430	0.29	1,100
Domestic Service	130	0.29	400
Total of other Services	1,030	1.23	800
NET DOMESTIC PRODUCT AT FACTORY COST	9,550	14.32	670

SHARE OF GOVERNMENT IN DOMESTIC PRODUCT AND EXPENDITURE IN THE INDIAN UNION.

Items.	1955-56		1954-55		1953-54		1952-53		1948-49	
	Rs. (Abja)	Per cent	Rs. (Abja)	Per cent	Rs. (Abja)	Per cent	Rs. (Abja)	Per cent	Rs. (Abja)	Per cent
Net output of Government Enterprises	4.1	4.1	3.6	3.8	3.2	3.0	3.1	3.1	2.4	2.6
Net output of Government Administration	5.7	5.7	5.2	5.4	4.9	4.7	4.6	4.7	4.0	4.6
Net output of the private sector	90.1	90.2	87.3	90.8	96.7	92.3	90.6	92.2	80.3	92.6
Net Domestic Product	99.9	100.0	96.1	100.0	104.6	100.0	96.3	100.0	86.7	100.0
Government Current Expenditure on Commodities and Services	7.2	6.7	6.7	6.8	6.4	5.8	6.0	5.8	6.4	7.1
Government administrative capital expenditure	2.1	2.0	1.6	1.6	1.3	1.2	1.2	1.2	1.0	1.1
Government enterprises capital expenditure	3.5	3.3	2.7	2.6	2.1	1.9	1.8	1.7	1.1	1.2
Net National Expenditure at market price	108.7	100.0	102.3	100.0	110.4	100.0	108.4	100.0	90.6	100.0
Government Draft on Private Income :—										
Direct Taxes	2.6	2.6	2.4	2.5	2.4	2.3	2.5	2.5	2.4	2.6
Indirect Taxes	5.6	5.5	5.2	5.4	4.7	4.4	4.6	4.6	3.6	4.1
Miscellaneous Fees, etc.	1.4	1.4	1.1	1.1	1.1	1.0	1.0	1.0	0.9	1.0
Private Income	101.4	100.0	97.1	100.0	105.9	100.0	99.2	100.0	87.2	100.0
Gross Capital Formation on Government account	5.6	..	4.3	..	3.4	..	3.0	..	2.1	..

NEW METRIC SYSTEM OF WEIGHTS AND MEASURES

THE country started adopting the metric system of weights and measures on 1st October 1958.

On that date the units of mass were introduced in selected areas, and the metric system generally in certain specified industries and Government departments.

It may be mentioned here that in 1955 Parliament passed legislation adopting the Naya Paisa, equal to a hundredth part of the rupee as the unit of currency in place of anna and pie.

The Naya Paisa coins made their first appearance in April 1957. They are expected to replace the old currency by April 1960.

The law (the Standards of Weights and Measures Act, 1956) provides that the system should be adopted in the country within a period of ten years of its coming into force.

The law was passed in December 1956. After December 1956, therefore, it will be the only system recognized by law in the country.

A certified copy of the International Prototype of the Kilogram has been obtained and is in the custody of the Director, National Physical Laboratory. This copy will be the country's prototype kilogram.

A certified copy of the International Prototype Metre was expected to arrive at any time.

The State Governments have been supplied Standard Weights for the use of their Inspectors of Weights and Measures.

Specifications for commercial weights and measures have been published and their manufacture has begun.

Most of the State Governments have set up departments for enforcing weights and measures.

A manual on the metric system has been prepared for teachers and sent to all secondary schools through the State Directors of Public Instruction.

The present arithmetic books include lessons on the metric system, but it will be necessary to give it much greater importance in the teaching of arithmetic.

State Governments had agreed to revise school books as and when they fall due for reprinting.

Teachers have been advised to give more attention to the teaching of the metric system.

Steps are being taken to get the manual translated into Indian languages for use in the primary schools.

A new journal *Metric Measures* has also come into being for purposes of education.

The Indian Standards Institution has the task of drawing up basic standards in metric units, for which they have a ten-year plan.

TRANSITION PERIOD

The introduction of the new system on October 1, 1958 would be phased over a period of two or three years. During this transition period both the existing and the new systems would continue side by side.

There is no compulsion to use the metric weights for the time being.

The change-over is being effected in the same gradual manner throughout the country and the period of transition will be used to educate both the traders as well as the general public in the use of the new weights. Only when a degree of familiarity is achieved in their use, will the new system completely replace the old.

In the selected areas, where the system was introduced on October 1, the use of the existing units will be permitted for a period of two years, i.e., till September 30, 1960.

The metric system would be gradually extended to larger areas where again a transitional period of two to three years would be allowed.

The new system was also introduced on October 1, in major industries like cotton textiles, iron and steel, engineering, heavy chemicals,

cement, salt, paper, refractories, non-ferrous metals, rubber and coffee.

Even in these industries the use of existing units would be permitted for a period of two years.

In the industries, the metric units would be used in the purchase of raw materials and sale of products. The change would be limited to transactions between mills and their suppliers and customers.

Retail trade would not be affected.

For the convenience of the jute industry, where the trading began on July 1, the system came into force on that day in wholesale transactions by mills in the jute industry.

From October 1, Government departments and industrial undertakings could use the metric system in the purchase and supply of stores.

The Indian Airlines Corporation and Air India International Corporation would book cargo and luggage in metric weights and measures.

New surveys of land and mines would be on metric scales.

Metric units would also be used in technical, statistical, scientific and marketing data collected and published by Government departments.

Future surveys and maps will as far as possible, be on metric scales, and with metric contour intervals. Existing maps will continue to be used with conversion scales drawn on them.

Government plans envisage that by the middle of 1960, metric weights would have been introduced over the greater part of the country.

A beginning would also have been made in introducing measures of length and capacity.

By that time many of the Government departments and public undertakings, like the Railways and Posts and Telegraphs, would have gone over to the metric system.

The transition period until then would enable people to familiarise themselves with the new units. It would have caused much inconvenience to the people if the main public utility undertakings had adopted the metric system before the public acquired reasonable familiarity with it.

Areas

The areas in which metric weights were introduced on October 1 are as follows:

Andhra Pradesh: Districts of Vishakhapatnam, Krishna, Guntur, Kurnool, Hyderabad, Warangal, Nizamabad.

Assam: Municipal areas of Gauhati and District of Nowgong.

Bihar: Divisions of Bhagalpur and Ranchi and the Municipal and Notified areas in the districts of Patna, Gaya, Arrah, Chhapra, Muzaffarpur, Champaran and Darbhanga.

Bombay: Municipal areas of Bombay, Poona, Ahmedabad, Rajkot, Baroda, Nagpur, Aurangabad, Sholapur, Kolhapur, Akola, Amravati, Wardha and Yavatmal.

Kerala: Districts of Kozhikode, Ernakulam and Quilon.

Madhya Pradesh: Districts of Bhopal, Indore, Gwalior and Jabalpur.

Madras: Districts of Madras, Chingleput, South Arcot and North Arcot.

Mysore: Districts of Bangalore, Raichur and Dharwar.

Orissa: Municipal areas of Berhampur, Cuttack and Sambalpur.

Punjab: Districts of Amritsar, Jullundur, Ludhiana, Ambala, Patiala and Gurgaon.

Rajasthan: Districts of Ajmer, Bikaner, Jodhpur, Jaipur, Kota and Udaipur.

Uttar Pradesh: Municipal areas of Meerut, Agra, Lucknow, Bareilly, Moradabad, Varanasi, Kanpur, Jhansi, Allahabad and Gorakhpur.

West Bengal: Municipal areas of Calcutta and Howrah.

In addition, the metric system would also be used in regulated markets in the States of Andhra Pradesh, Bombay, Madhya Pradesh, Madras, Mysore and Punjab.

In the case of Union Territories, the metric system was introduced in the whole of Delhi in the two districts of Mandi and Sirpur in Himachal Pradesh, in the municipal areas of Imphal in Manipur, in the municipal area of Agartala in Tripura and in Port Blair in the Andaman and Nicobar Islands.

Government Departments

The Government Departments in which the provisions of the Act came into force on 1st October 1958 by a notification dated 24th June were as follows:

1. The Indian Airlines and Air India International Corporations in so far as they undertake air transport services, except in matters relating to air distances and speed of aircraft.
2. Government Departments and commercial and industrial undertakings owned or controlled by Government in so far as they undertake the purchase or supply of stores, including drugs.
3. Government Departments in so far as they undertake survey of land or mines.
4. Government Departments in so far as they undertake the study or publication of any technical, scientific or marketing data relating to weather, irrigation and power projects or undertake drawings and specifications of scientific apparatus for use in laboratories and educational institutions except in matters relating to air distances and speed of aircraft.

Industries

The industries in which the Act came into force on 1st October 1958 were as follows:

1. Cotton textile mills in so far as they undertake the purchase of cotton or sale of cloth.
2. Iron and Steel factories in so far as they undertake the purchase of raw materials or sale of iron and steel products.
3. Factories engaged in engineering industry in so far as they undertake the sale of their products.
4. Factories engaged in the manufacture of heavy chemicals in so far as they undertake the purchase of raw materials or sale of their products.
5. Factories engaged in the manufacture of cement in so far as they undertake the sale of cement.
6. Factories engaged in the manufacture of salt in so far as they undertake the sale of salt.
7. Factories engaged in the manufacture of paper, pulp, or paper board in so far as they undertake the sale of paper, pulp, or board.
8. Factories engaged in the manufacture of refractories, in so far as they undertake the sale of refractories.
9. Coffee Board in so far as it undertakes the sale of coffee from the surplus pool either by itself or through its agents.
10. Factories engaged in the manufacture of copper, aluminium, lead, antimony and tin in so far as they undertake the sale of copper, aluminium, lead, antimony and tin including alloys and products of these metals.
11. Associations recognised by the Central Government under section 6 of the Forward Contracts (Regulation) Act, 1952 (74 of 1952) in so far as they undertake the regulation and control of forward contracts in cotton.
12. Sale of raw rubber.

THE ACT OF 1955

The Standards of Weights and Measures Act, 1955, is as is already mentioned, the basic law on the subject.

It extends to the whole of India except the State of Jammu and Kashmir.

The Act was passed by Parliament in 1955 December, and some of its provisions came into force, as already mentioned, on 1st October 1955.

Within a period of ten years of its coming into force the whole country is expected to adopt the metric system in full.

The units mentioned in the Act are as follows:

The primary unit of length is a metre, of mass a kilogram, of time a second, of electric current an ampere, of temperature the centigrade scale, of luminous intensity the candela, of area the square metre, of volume the cubic metre.

The primary unit of mass for precious stones shall be a carat which is equal to one-five-thousandth of one kilogram.

The Central Government may by notification declare the secondary units of mass and measures provided it is a multiple or a fraction of ten of such unit.

In any area, or class of goods, or undertakings in which any provisions of this Act have been put in force, the Central Government can still permit the continuance of the use of such weights and measures as may be specified in addition to the standard weights and measures that might have been put into force.

But the period for which the continuance of such use is permitted cannot exceed three years.

The Central Government can make rules to carry out the purposes of this Act, among others about the limits of error which may be tolerated in the use of the standard weights and measures.

The Act repeals the Measures of Length Act, 1889 and the Standards of Weight Act, 1939, and any provisions in the following Acts which correspond to any provisions in the present Act:

1. The Assam Adoption of Standard Weights Act, 1955 (IX of 1955).
2. The Bhopal State Weights and Measures Act, 1953 (XV of 1953).
3. The Bihar Weights Act, 1947 (XVII of 1947).
4. The Bombay Weights and Measures Act, 1932 (XV of 1932).
5. The Central Provinces and Berar Weights and Measures of Capacity Act, 1926 (II of 1926).
6. The Cochin Weights and Measures Act, 1112 (LXIII of 1112).
7. The Coorg Act, 1954 (VII of 1954).
8. The Hyderabad Weights and Measures Act, 1356 Fasli (XIV of 1356 Fasli).
9. The Madhya Bharat Weights Act, 1954 (21 of 1954).
10. The Madras Weights and Measures Act, 1949 (XXII of 1949), as in force in the State of Madras or of Andhra.
11. The Mysore Weights and Measures Act, 1902 (III of 1902).
12. The Orissa Weights and Measures Act, 1943 (VII of 1943).
13. The Punjab Weights and Measures Act, 1961 (XII of 1961).
14. The Rajasthan Weights and Measures Act, 1954 (XIX of 1954).
15. The Travancore Weights and Measures Act, 1955 (VI of 1955).
16. The United Provinces Weights and Measures Act, 1947 (XXIII of 1947).

The tables to enable conversion from non-metric to metric or *vice versa* weights and measures, which are given in the First Schedule to the Act, are reproduced below:

1 grain	= 0.00064799 kilogram.
1 ounce	= 0.0283495 "
1 pound	= 0.4535924 "
1 cwt.	= 50.802 "
1 ton	= 1016.05 "
1 ton	= 0.0116435 "
1 seer	= 0.93310 "
1 maund	= 37.3242 "

Standards of Length and Capacity

1 inch	= 0.0254	metre (exact).
1 foot	= 0.3048	" { " }
1 yard	= 0.9144	" { " }
1 mile	= 1,609.344	" { " }
1 imperial gallon	= 4.54506	litres.

ENFORCEMENT ACT

The model Bill for the enforcement of weights and measures approved by a Conference called by the Standard Metric Committee in July 1957 has been accepted by all State Governments, and legislation based on the Bill has been enacted in all States except the U.P., Bihar and Madhya Pradesh. The State Acts are identical in substance.

It should be emphasized that Weights and Measures laws cannot be effectively administered without a special agency like an Inspectorate of Weights and Measures.

The 1939 Law made by the Central legislature was ineffective largely because even those States which made laws for enforcing the standards had no special agencies for this purpose. Enforcement was left to the police.

The only States that had special agencies were Bombay, Bihar, Mysore, Andhra and the Punjab.

The position is different today. All State Governments have agreed to set up special departments of Weights and Measures. Recruitment has started and training is being given in the Weights and Measures Departments in Bombay and Bihar.

The main provisions of the Madras Act, summarized below in non-legal language will serve as an example of the sort of Enforcement Acts which will be in force:

The Government will have sets of authenticated standard weights and measures which may be called working standards. They will also have sets of secondary standard weights and measures.

There will also be many sets of weighing and measuring instruments to verify the correctness of commercial weights and measures used in trade, business or commercial transactions.

No unit of mass or measure other than standard weight or measure can be used in any transaction once the Act has come into force in any area or in relation to any class of undertakings or goods.

Punishment for the transgression of this is a fine which may extend to Rs. 500 for a first offence, and for a second or subsequent offence with imprisonment for a term which may extend to three months, or with fine, or with both.

The Government has also the power to declare that any specific transaction can be conducted by weight only or by measure only.

Punishment for contravention will be a fine which may extend to Rs. 500.

Every weight or measure used in a transaction shall be made of such material and according to such design as may be prescribed and shall bear the description of the weight or measure marked legibly on it.

No commercial weight or measure or weighing or measuring instrument can be sold or delivered unless it is verified or re-verified, in the proper way.

Punishment for contravention is a fine which may extend to Rs. 500.

No weight or measure or measuring instrument can be used in any transaction unless it has been verified or re-verified in the proper way.

Punishment for contravention for a first offence, a fine which may extend to five hundred rupees, and for a second or subsequent offence, imprisonment for a term which may extend to three months, or with fine, or with both.

If the size of a commercial weight or measure renders it impracticable to have any denomination marked on it Government may exempt such weight or measure from being marked or stamped.

No person can manufacture, repair or sell any commercial weight or measure or any weighing or measuring instrument without a licence.

Punishment for contravention is imprisonment for a term which may extend to three months, or fine, or both.

No one can have for sale any article in a sealed container unless the container shows the net weight or measure of the article.

Punishment for contravention is a fine which may extend to Rs. 500.

Whoever makes or sells weights or measures which he knows to be false, or fraudulently uses weights or measures which he knows to be false or is in possession of them for possible use shall be punished with imprisonment which may extend to one year, or with fine, or with both.

Whoever sells or delivers less than what is purported to be sold or delivered shall, if the deficiency exceeds the prescribed limit of error, shall be punished with fine which may extend to Rs. 500.

Whoever forges or counterfeits any stamp, shall be punishable with imprisonment for a term which may extend to one year, or with fine, or with both.

Whoever knowingly uses or sells or disposes of or exposes for sale weights or measures with such forged or counterfeit stamps on them shall be punishable with imprisonment for a term which may extend to six months, or with fine, or with both.

For administering the Act Government may have a Controller of Weights and Measures, Assistant Controllers and Inspectors.

The Inspector shall verify every weight or measure or measuring instrument which is brought to him, and if it is correct he will stamp it.

He may also inspect at all reasonable times weights and measures and measuring instruments used in transaction of trade and commerce.

Anyone who refuses or neglects to produce for inspection such weights or measures, or refuses to permit an Inspector to inspect or verify, or obstructs or hinders an Inspector shall be punished with a fine which may extend to Rs. 500.

He may also at reasonable times enter any place where weights and measures are used to inspect them.

He may also ask a trader or employee to produce before him weights and measures for inspection.

He may seize and detain a weight or measure with which an offence might be or might have been committed and also seize or detain any article which might have been sold by means of such weights or measures.

He may verify the weight or measure of an article sold or delivered.

He can also break open a sealed package to verify the contents where there is reasonable suspicion, and seize or detain the container and the article.

He can adjust weights and measures in any area where Government thinks such adjustment is necessary.

A manufacturer, repairer or dealer in weights and measures should maintain proper books, records and accounts.

Government may charge fees for grant of licence, verification, marking, stamping and adjustment.

Government may prescribe the limits of error in their own working standards, in commercial weights and measures, in selling articles, in weighing measures and instruments.

Government may make rules to carry out the purposes of this Act.

Any aggrieved person may appeal against a decision of the Inspector to the Controller and of the Controller to the Government. The decision of the appellate officer or of Government is final.

If an Inspector knowingly stamps a weight or measure or weighing or measuring instrument in contravention of the provisions of this Act, or of the rules made thereunder he shall be punishable with imprisonment for a term which may extend to one year, or with fine, or with both.

Cognizance of any offence under this Act can be taken by a court only on a complaint by a Controller or by someone authorized by him.

No court inferior to that of a presidency magistrate's court, or a magistrate of the first class can try any offences under this Act.

ENFORCEMENT POLICY

The general policy in regard to the enforcement of the Weights and Measures Act was framed at a three-day conference of Central and State Government representatives which met in July 1957.

The Conference took a number of decisions.

It was unanimously decided that the enforcement of weights and measures should be transferred from the State List to the Concurrent List and for that purpose the Constitution should be amended.

It was decided that the programmes of the different States for the first stage of change-over to the metric system should be finalised by the end of October 1957.

All States except Mysore and Uttar Pradesh were of the view that the system should be introduced over the entire territory, but in specified fields. U. P. and Mysore are in favour of introducing the system in a limited area and extending it progressively to other parts.

It was agreed that the method of phasing the programme should be left to the individual State Government. A representative of the Centre would, however, visit the States to ensure that programmes were ready by the end of October.

The State representatives agreed that organisation for the enforcement of weights and measures should be set up in all States by the beginning of April 1958.

The offer made by the Bombay Government for training personnel for the enforcement of weights and measures was accepted and it was decided that officers from different States would undergo a six-week training course in Bombay.

The conference decided that the Centre should constitute a Standing Committee to survey the manufacturing potential for metric weights, measures, etc., and recommend steps to ensure adequate supply. The Committee would keep in touch with State Governments.

Regarding land records, it was felt that a wholesale conversion of such records should not be attempted. The conversion can take place during the revision of records at the time of transfer of possession or re-settlement.

It was agreed that from April, 1958, in all indenta for stores for the use of Central and State Governments, quantities and prices should also be expressed in metric units.

For irrigation and power projects of Central and State Governments, the conference recommended that the metric system should be introduced in the projects under investigation and those designed for execution in the third plan. The schedules of rates and standards specifications should be converted when they come up for review in the normal course.

It was decided that from April 1958 kilogram and half kilogram stones should be put up on all roads. The existing mile and furlong stones will remain where they are, for the time being. The kilometre and milestones will be on the opposite sides of the road.

The conference accepted the recommendation of Survey officials that scales for future cadastral maps should be based on certain metric scales. Existing maps will be retained and used till the areas concerned are re-surveyed.

Regarding dry measures, while the majority of States agreed that they should be prohibited, Madras and Kerala did not consider that their abolition would be practicable.

The conference considered a draft model bill for the enforcement of standards of weights and measures and draft rules under the Metric Weights and Measures Act. It was decided that the draft bill and rules would be revised in the light of the discussion and would be circulated to State Governments before they were published.

The conference agreed that intensive publicity should be undertaken through the various media to popularise the metric weights and measures. The Committee suggested that the agency of community projects and panchayats should be utilised for effective publicity in rural areas. Special emphasis was laid on demonstration of different sets of metric weights and measures during exhibitions, fairs and melas.

In his concluding remarks, the Minister of Commerce, Mr. Nityanand Kanungo, asked State representatives to work out details of their financial requirements for the introduction of the metric system. They would then be in a position to have a realistic appreciation of the financial implications of the change-over. He said that the States would not have adequate resources for the purpose.

The Centre would be in a position to decide about financial contribution to the States after they worked out their own estimates.

The estimated requirements of pig iron for the manufacture of new weights is about 7,000 tons per year.

A sample survey of weights and measures in use, was conducted in 1957. It showed that there are about 50 million pieces of weights in use.

These are to be replaced during the next 3 years. This would require about 21,000 tons of pig iron. After three years, 7,000 tons would still be needed annually for the replacement of weights, the estimated life of a weight being about three years.

A rough survey was also made of the capacity of the country for the manufacture of weights and measures. It showed that there is ample capacity for meeting the demand for new weights. The number of establishments which can manufacture weights and measures exceeds 300. A full list of these establishments was published in 'Metric Measures', September, 1958.

METRIC SYSTEM AND INDUSTRIES

Below we give a few notes on how the new system would work out in some of the industries in which it was introduced on October 1, 1958, or likely to be introduced soon after, and the plans that were made in consultation with representatives of the industries concerned.

The sub-committee of the Standing Metric Committee on Engineering Industry observed that there was already a substantial demand for small tools in the metric system. As this demand was expected to increase, the manufacturers of small tools were advised to start making adequate preparations to meet it. Metric small tools were already produced in the country to comply with current requirements to a certain extent.

The question of recalibration of weighing instruments like weigh bridges, platform scales, steel yards, etc., was examined and it was felt that 80 per cent of these machines in the country could be converted without incurring any foreign exchange.

The railways have already made a beginning of recalibration in their workshops.

The meeting decided to constitute a small working group to assess the capacity of indigenous manufacturers for undertaking conversion and examine the details of machines requiring import of spare parts.

The working group was directed to take steps to formulate plans for phasing of recalibration of machines.

The need for imparting basic training in the use of the metric system to skilled and unskilled workers in engineering industry was recognised and the sub-committee recommended that this training should be provided by wide distribution of data sheets.

The question of setting up some organised training courses at the existing small industries service institutes and industrial training establishments is also under contemplation.

JUTE INDUSTRY

Early in 1958, at a joint meeting of representatives of all sectors of the trade it was decided that in the earlier stages the system would be adopted on a voluntary basis, and only then in the better organised sections of the trade, and initially the application of the new system would be confined to expressing weights (of jute bought and finished jute goods sold) in terms of kilograms and the contents of bales of gunny cloth in terms of metres. For a period of two years the old system was to be permitted to exist side by side with the new.

Comprehensive metric conversion tables were prepared by the Indian Jute Mills' Association and issued to the trade, and similar tables for use by raw jute dealers and sellers were compiled and issued jointly by the Bengal Jute Dealers' Association and the Jute Balers' Association.

Overseas buyers, particularly in the U.S.A. and the U.K., on learning of the Government of India's intention to introduce the metric system in the jute industry, informed the Indian Jute Mills' Association and the Calcutta Jute Fabrics Shippers' Association that, whatever system was operating in India, they would insist on their requirements of jute goods being met on the basis of the existing units of weights and measures, and the jute industry subsequently approached the Government of India in order that it might give assurances to its overseas buyers on this question.

The Government of India fully appreciated the importance of ensuring that the introduction of the metric system should not be allowed to interfere with India's export trade and issued the necessary assurances.

By the 1st of July 1958, everything was ready in the trade for the initial change-over. It was at first confined to the Calcutta area, the mills buying their raw materials in terms of the existing weights, with the metric equivalents recorded in the documents of purchase or sale, and the finished fabrics being sold on the same basis.

It is intended that this practice, so far as it relates to raw jute, will gradually work its way back through the trade channels until it reaches the jute growing areas.

In so far as it concerns internal sale of jute fabrics, it is not anticipated that any serious difficulties would arise. Such business is transacted almost entirely in Calcutta, and domestic purchasers such as, for example, the sugar and cement industries, will be at liberty to indent in terms of the existing specifications or, at their option, in terms of metric units: if the latter, the mills will be able to supply their requirements by the simple process of conversion.

Arrangements are now well in hand for introducing the system completely throughout the jute industry and there is general confidence in the trade that the change-over will be accomplished without disrupting relations between the various sections of the trade in India and, most important, the industry's relations with its overseas buyers.

PETROLEUM INDUSTRY

The Petroleum Industry in India is likely to change over to the metric system from April 1, 1960.

A tentative decision to this effect was taken at a meeting of representatives of the industry held in the Ministry of Commerce and Industry in New Delhi on October 14, 1958.

From the date of changeover the metric units of weights and measures would be used for all purposes including sales, tenders and invoices.

Quantities and prices will be shown in metric units.

Service station equipment will be converted to the metric system.

All meters, scales, weighing machines and weights and measures will be in metric units.

Packages will be designed to hold a convenient quantity expressed in metric units. The entire accounting system will also be conducted in metric units.

The industry is making preparations in the meantime.

These will include recalibration of petrol tanks at port terminals, of storage tanks at depots and service stations, railway tank wagons and tank trucks, education of the staff to make them conversant with the new weights and measures, laying down of standards for metal containers and installation of new dispensing pumps and other equipment.

An advisory Committee was set up at the meeting to study the problems involved in the change-over and keep in touch with the various Central, State and Municipal agencies.

SUGAR INDUSTRY

The problem divides itself into three parts. The raw material, the finished product, the technical data relating to plant and machinery.

With very few exceptions sugarcane is delivered on wheeled transport, road or rail. Ideally, the change to the metric system should take place only when factory scales have been converted because to weigh in one system and record in another means using conversion tables, and introduces one additional operation in which there is a chance for error attributable to the human element.

Because of this, no prolonged period of using avoidupois scales and recording in metric weights can be tolerated.

Cane weighing machines will have to be made out in both systems for an initial period.

Growers will very soon realise that a cart load or a lorry load of cane fetches the same reward in rupees whether weighed by maunds or by kilos. To continue the dual system over long is an unnecessary complication.

Sugar is bagged to a standard weight in a bag of standard tare. Alteration of the scale is unimportant, an arrow cut or painted on the steel yard or disc indicating the required gross weight is all that is required. Some of India's sugar is to be exported this year. The sugar bag recognised in all foreign markets is the 100 kilogram bag and most growers prefer to buy in this packing. There is therefore every inducement for the immediate introduction of the 100 kilogram bag.

In respect of the third item, great caution is necessary. There are many standards and if the industry blindly accepts to change it is not seen how haste can help and the change over in this field may wait until other more pressing matters are set to rights.

Going from the particular to the general — The metric system has been accepted. Its implementation should be made as simple as possible. It should be introduced on an industry or product-wise basis and not, as appears to be the intent of some State Governments, on an area basis. This will tend to confuse inter-district transactions.

TEA INDUSTRY

At a conference of representatives of different sections of the tea trade and the Government of India it was agreed that the metric system should be adopted with as little delay as possible consistent with practical considerations such as the need for educative propaganda.

The decision was that the Tea Board's records would adopt the new system from April 1, 1959 from which date figures relating to area of plantations would be represented in hectares (10000 sq metres) in place of acres (corresponding changes would be made in the licences and permits).

In regard to weight, it was the general opinion that the half kilo (equal to 1 lb) should be the unit in place of the pound avoidupois. The change will take effect from April 1, 1960.

Tea chests will for a limited period, show the weight according to both systems and Government and semi-government agencies will make appropriate adjustments in the matter of duty, licences etc.

Conversion to new units will be necessary in regard to fixation of tasks and payments for

plucked leaf by weight. It was agreed that this conversion might also be made with effect from April 1, 1960.

Since these items form the basis for payments to workers during the intervening period weights will be expressed in terms of both the kilo and the seer so as to familiarise the workers with the new system and the relationship between the new and old weights.

This will not, however, change the rate of amount to be paid to workers.

ISI PLAN

In compliance with the wishes of Standing Metric Committee the Indian Standards Institution has prepared a ten-year plan for conversion during which all available Indian Standards will be converted to metric system.

According to this plan which has been followed for the past some years all forewords to Indian Standards would contain a reference to Government of India's decision to adopt the metric system indicating the extent to which this decision is reflected in the standard and the possible future date by which a complete change-over might be expected.

All standards which had been finalized but not printed at the beginning of the plan period were to remain unaltered unless it were possible to introduce metric units as a matter of editorial prerogative without altering the substance of the standard.

All the published standards at present in force based on non-metric units will be considered for the purpose of incorporating metric measurements at the first opportunity when they are taken up for revision or amendment.

During the course of ten years most of these will have been revised or amended in the normal course, others will be taken up specifically for metric revision.

If a particular industry happens not to be prepared just now for the adoption of metric system it will be urged to adopt the interim measure of expressing measurements rationalized in the metric system giving foot-pound equivalents in brackets with the intention of dropping the brackets as soon as the industry becomes ready for the full adoption of the new system, of course within the ten-year plan period.

To facilitate and regulate the manufacture of large quantities of metric weights and measures the Commercial Weights and Measures Sectional Committee of ISI has brought out Indian Standard specifications for commercial metric weights, capacity measures and metric glass dispensing measures.

The basic series of new weights adopted is 5, 3, 2, 1 and in order to avoid confusion during the transition period when both these new weights and old ones will be in use, the shape of the former has been made hexagonal while the latter were generally of circular pattern.

In the case of brass or bronze metric weights, three shapes have been adopted, cylindrical with a handle or knob on top for general bullion trade, flat cylindrical, with straight side, for goldsmiths; and flat cylindrical with distinct downward taper for supplementing cast iron weights.

Capacity Measures

The standard on metric capacity measures covers denominations from 20 millilitres (ml) up to 20 litres.

For measures of higher capacity which are required by petroleum companies and wholesale dealers, separate standards will be issued.

The standard recognizes two types of cylindrical measures, namely, the dipping and the pouring types and one type of conical measure.

Cylindrical measures are generally used in the sale of commodities like milk, while the conical type is preferred for sale of mineral oils. Here also, in order to avoid confusion with the current measures, the new measures are provided with as distinctive a shape as practicable.

The capacity measures prescribed in this standard are meant for liquids only and not intended to be used as dry measures for commodities.

The practice of using dry measures for trade in commodities like foodgrains and oil-seeds is open to criticism and such use, therefore, is to be discouraged.

Wherever dry measures are used it is recommended that the commodity be weighed for the purpose of trade transactions. It is expected, therefore, that dry measures will eventually be withdrawn from trade.

Another series of metric measures used for dispensing purposes are covered in a separate standard which prescribes the requirements for metric measures made of glass or transparent plastic materials.

The dispensing measures are of two types, namely conical and beaker type.

Conical measures have denominations of 200 ml, 100 ml, 50 ml, 20 ml, 10 ml and 5 ml, while the beaker measures are of 1,000 ml and 500 ml capacity.

Length

Two more standards on important items of wide use, namely, the commercial length measures of the non-flexible type and woven metallic tape measures, are under print (Sept. 1958) and when issued would have covered the needs of the most commonly used weights and measures.

Commercial length measures include metallic measures of the denominations of one metre and half metre and wooden measures of 2 metre length.

Metallic measures are meant for use in measuring textiles, ribbons and similar materials.

Wooden measures find application generally in the timber trade.

Tape measures are of 2, 5, 10, 20, 30 and 50 metres. These are made with cotton or linen yarn in the web and metal wire in the warp. They are suitable for various general purposes including the tailoring trade.

Standards on carat weights, steel tapes, etc. meant for specific groups of users are also in hand. Attempt is also being made to prepare standards on weighing machines (September 1958).

Conversion Guides

While effort is being made for early issue of necessary standards for the weights and measures in metric system, another important facet of the Institution's work covers the formulation of standards on conversion factors and tables and conversion guides.

In this connection, the Indian Standard Conversion Factors and Conversion Tables can be regarded as a comprehensive basic document in which are given tables of basic units of all measures along with conversion factors and conversion tables for each particular class of measures.

It covers monetary units, lengths, areas, volume and capacity, weights, temperatures, speeds, density and concentration, stress and pressure, force, energy, power and heat.

To meet the day-to-day needs of the layman another standard giving a smaller number of tables has also been issued.

Mention may also be made here of the effort that is being made by the Institution to make available to the public a handy device for inter-conversion of quantities, which will have the effect of condensing a very large number of tables in what may be called the Indian Standard Slide Tables.

Preparation of a handbook to meet the needs of students of technology and science is also on hand which will cover definitions of fundamental units and quantities, conversion factors, and physical constants and a collection of useful tables.

For the guidance of those concerned, as a daily routine, with inch-millimetre conversion of dimensions preserving interchangeability of parts, another more detailed standard has been issued. This standard entitled Indian Standard method for precise conversion of inch and metric dimensions to ensure interchangeability prescribes ready-made and simple rules and tables, which are based on the principles dealt with in the more general guide mentioned earlier.

<i>Gallons (Imperial) to Litres</i>											
<i>Gallons .. .</i>	:										
<i>Litres .. .</i>	: :										
		1	2	3	4	5	6	7	8	9	10
		4·55	9·09	13·64	18·18	22·73	27·28	31·82	36·37	40·91	45·46

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- ★ THE NATIONAL SMALL INDUSTRIES CORPORATION has been set up by the Government of India to provide assistance to small industrial units. The Corporation has undertaken various schemes for the promotion of Small Scale Industries.
- ★ THE CORPORATION assists the small units in securing central Government contracts for supply of Stores. To avail of this assistance, it is necessary for the small units to get themselves enlisted with the SMALL INDUSTRIES SERVICE INSTITUTE of their area. Free supply of Tender Sets issued by the D.G.S. & D. is arranged to such registered units and the State Bank of India advances loans on the security of Raw Material required for the contract under a scheme of the Corporation. Technical assistance is also available from the SMALL INDUSTRIES SERVICE INSTITUTES.
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INDUSTRIAL STRUCTURE AND POLICY

FOR particulars about industrial structure one is dependent on the census compiled under the Industrial Statistics Act of 1942.

The latest available census are for 1955.

The total value of output of registered factories in 28 major industries in India more than doubled in the 10 years, 1946 to 1955.

The value of production in 1955 was over Rs. 1,411 crores as against about Rs. 601 crores in 1946.

The productive capital investment in the industries rose from about Rs. 367 crores in 1946 to about Rs. 862 crores in 1955. This includes fixed capital like buildings, plant and machinery, etc. and working capital like stocks of raw materials, finished and semi-finished products, etc.

The number of registered factories also increased by about 50 per cent during the period, that is, from 5,013 in 1946 to 7,424 in 1955.

The number of persons employed in the factories also rose from 15.14 lakhs to about 17.84 lakhs.

The salaries and wages earned by them during the period have gone up by more than 100 per cent. The bill was for Rs. 101.8 crores in 1946 and Rs. 231.14 crores in 1955.

For the purpose of the census, only registered factories, which used power and employed 20 or more workers per day, were taken into account.

The census was confined to 28 major industries in the country.

The industries covered by the census are: cotton, woollen and jute textiles, chemicals, iron and steel, aluminium, copper and brass, bicycles, sewing machines, electric lamps and fans, general engineering and electrical engineering, glass and glassware, ceramics, cement, plywood and teacheats, paper and paper-board, matches, tanning, paints and varnishes, soap, vegetable oils, starch, distilleries and breweries, sugar, fruit and vegetable processing, wheat flour, rice-milling and biscuit-making.

Although the census is statutory, in practice reports are not received from all factories. In 1955, reports were not received from seven per cent of the factories, while in 1946 twenty per cent of the factories did not submit returns.

MADE-IN-INDIA

How Indian are "Made-in-India" machines and engineering products of every day use?

A study made by the technical officers of the Ministry of Commerce and Industry has shown that a high degree of indigenous content has been achieved in their manufacture.

A substantial number of machinery items are now 100 per cent Indian. Among these are tea machinery, electric transmission towers, electric motors, electric fans and lamps, cables, batteries, switches and conductors.

Among other products, which are now cent per cent *sundast*, are clocks, sewing machines and hardware.

A large number of machines and engineering items have reached almost complete indigenous development, the imported components being less than 10 per cent. Among these are railway wagons and coaches (95 per cent), boilers, water softeners, water purification plants (92-96 per cent), fluorescent tubes (95 per cent), bicycles (96-98 per cent), zip fasteners and snap fasteners (99 per cent), pressure stoves, ball-bearings and fountain pens.

Important machine tools, like lathes, shaping machines, presses as well as items of cotton textile machinery like carding engines, spindles and draw frames have also reached an indigenous content of over 90 per cent. Most of these items will be 100 per cent Indian in the next two years with the elimination of the remaining imported components.

Several other machinery items have more than 75 per cent indigenous contents. Among these are alcohol distilleries (80 per cent), sugar

manufacturing machinery, diesel engines (80 per cent), pumps (90 per cent), transformers (80 per cent), switch gear (80 per cent), heavy transformers (75 per cent), radial drills (80 per cent), boiling house machinery (80 per cent) and ring frames (80 per cent).

The wide variety of articles of every day use are becoming increasingly more indigenous. Thus radio sets have 60 per cent Indian components, electrical household articles—75 per cent, typewriters—78 per cent, water meters—75 per cent, electrical house service meters—80 per cent and instruments—80 per cent.

The indigenous content of automobiles has also been increasing. In the case of cars it varies from 38 to 64 per cent and the average content for trucks is about 50 per cent. Jeeps are now 64 per cent Indian. Motor-cycles and scooters are made in India to the extent of 40 per cent. In the next two years, the indigenous content of all these vehicles will increase to 80 per cent or more.

The progressive "Indianisation" of different machinery and engineering products is being achieved through phased programmes of developing indigenous contents. No industrial scheme is approved by Government without the entrepreneur agreeing to adhere to a phased programme so that the article becomes completely Indian in a period of three or four years.

The implementation of the programme is checked periodically to ensure compliance with it.

It is estimated that the production of heavy industrial machinery, including many of the items referred to above, will be of the order of Rs. 80 crores during 1959. Of this the indigenous content will be 80 per cent.

It should be mentioned here that some of the basic raw materials, which are not yet manufactured in India and have, therefore, to be imported, are not taken into account in determining the indigenous content.

INDUSTRIAL POLICY

There are general considerations bearing on the formulation of industrial policy in the context of planning. The Government of India's industrial policy after Independence was shaped broadly in terms of the Industrial Policy Resolution of 1948 (The text of this is given at the end.) That Resolution emphasised clearly the responsibility of Government in the matter of promoting, assisting and regulating the development of industry in the national interest. It envisaged for the public sector an increasingly active role. While it reiterated the inherent right of the State to acquire any industrial undertaking whenever the public interest required it, it laid down, in view of the circumstances then existing, a certain demarcation of fields for the public and private sectors.

Important developments took place after the Resolution was adopted in 1948. There was a clearer appreciation of the goals and direction of development. Planning proceeded on a more organised basis, and it became essential to strengthen and accelerate this effort in the coming years.

The 1948 Resolution was reviewed in the light of these considerations and the experience gained so far, and a new Industrial Policy Resolution was placed before Parliament by the Prime Minister on 30th April 1956. The text of this is given below.

This is now the accepted industrial policy of the Government.

The major part of Government's policy is enshrined in the Five Year Plans, the first of which started in 1951 as also in a series of industrial undertakings collectively known as the public sector. These are dealt with in the article entitled "Government Industrial Undertakings".

In the First Plan the target outlay on industrial development both in the public and private sectors was Rs. 327 crores, about 8 per cent of the total target, outlay on the whole plan. The main emphasis was on agriculture, irrigation and power.

Of this the target for the public sector was Rs. 94 crores and the private Rs. 233 crores. But while the actual investment in the private sector was about the same as the target, in the public sector the actual investment was of the order of Rs. 60 crores.

In the Second Plan the industries and minerals are allocated Rs. 680 crores out of a total Plan outlay of Rs. 4,800 crores.

During 1957-58 the problem of foreign exchange became so acute that a list of what might be called 'core' projects had to be drawn up. A list of these projects is given in the article on the Second Five Year Plan.

The following is a summary of the text of the industrial policy resolution placed before Parliament by the Prime Minister on 30th April 1956.

Eight years have passed since the first declaration on industrial policy. These eight years have witnessed many important changes and developments in India. The Constitution of India has been enacted, guaranteeing certain fundamental rights and enunciating directive principles of State policy. Planning has proceeded on an organised basis, and the first Five-Year Plan has recently been completed. Parliament has accepted the socialist pattern of society as the objective of social and economic policy.

These important developments necessitate a fresh statement of industrial policy, more parti-

cularly as the Second Five-Year Plan will soon be placed before the country. This policy must be governed by the principles laid down in the Constitution, the objective of socialism, and the experience gained during these years.

THREE CATEGORIES

These basic and general principles were given a more precise direction when Parliament accepted in December, 1954, the socialist pattern of society as the objective of social and economic policy. Industrial policy, as other policies, must, therefore, be governed by these principles and directions.

In order to realise this objective, it is essential to accelerate the rate of economic growth and to speed up industrialisation and, in particular, to develop heavy industries and machine making industries, to expand the public sector, and to build up a large and growing co-operative sector.

Equally, it is urgent, to reduce disparities in income and wealth which exist today, to prevent private monopolies and the concentration of economic power in different fields in the hands of small numbers of individuals. Accordingly, the State will progressively assume a predominant and direct responsibility for setting up new industrial undertakings and for developing transport facilities.

It will also undertake State trading on an increasing scale. At the same time, as an agency for planned national development, in the context of the country's expanding economy, the private sector will have the opportunity to develop and expand. The principle of co-operation should be applied wherever possible and a steadily increasing proportion of the activities of the private sector developed along co-operative lines.

The adoption of the socialist pattern of society as the national objective, as well as the need for planned and rapid development, require that all industries of basic and strategic importance, or in the nature of public utility services, should be in the public sector. Other industries which are essential and require investment on a scale which only the State, in the present circumstances, could provide, have also to be in the public sector. The State has, therefore, to assume direct responsibility for the future development of industries over a wider area.

After considering all aspects of the problem, in consultation with the Planning Commission, the Government of India have decided to classify industries into three categories having regard to the part which the State should play in each of them. It should also be remembered that it is always open to the State to undertake any type of industrial production.

In the first category will be industries, the future development of which will be the exclusive responsibility of the State. The second category will consist of industries, which will be progressively State-owned and in which the State will, therefore, generally take the initiative in establishing new undertakings, but in which private enterprise will also be expected to supplement the efforts of the State. The third category will include all the remaining industries, and their future development will, in general, be left to the initiative and enterprise of the private sector.

Industries in the first category have been listed in Schedule A of this resolution. All new units in these industries, save where their establishment in the private sector has already been approved, will be set up only by the State. This does not preclude the expansion of the existing privately owned units, or the possibility of the State securing the co-operation of private enterprise in the establishment of new units when the national interests so require.

Railways and air transport arms and ammunition and atomic energy will, however, be developed as Central Government monopolies. Whenever co-operation with private enterprise is necessary, the State will ensure, either through majority participation in the capital, or otherwise, that it has the requisite powers to guide the policy and control the operations of the undertakings.

Industries in the second category will be those listed in Schedule B. With a view to accelerating their future development, the State will increasingly establish new undertakings in these industries. At the same time private enterprise will also have the opportunity to develop in this field, either on its own or with State participation.

All the remaining industries will fall in the third category and it is expected that their development will be undertaken ordinarily through the initiative and enterprise of the private sector, though it will be open to the State to start any industry even in this category. It will be the policy of the State to facilitate and encourage the development of these industries in the private sector, in accordance with the programme formulated in successive Five-Year Plans, by ensuring the development of transport, power and other services, and by appropriate fiscal and other measures.

The State will continue to foster institutions to provide financial aid to these industries, and special assistance will be given to enterprises organised on co-operative lines for industrial and agricultural purposes. In suitable cases, the State may also grant financial assistance to the private sector. Such assistance, especially when the amount involved is substantial, will preferably be in the form of participation in equity capital, though it may also be in part in the form of debenture capital.

Industrial undertakings in the private sector have necessarily to fit into a framework of the social and economic policy of the State and will be subject to control and regulation in terms of the Industries (Development and Regulation) Act and other relevant legislation. The Government of India, however, recognise that it would,

in general, be desirable to allow such undertakings to develop with as much freedom as possible, consistent with the targets and objectives of the national plan. When there exist in the same industry both privately and publicly owned units, it would continue to be the policy of the State to give fair and non-discriminatory treatment to both of them.

In appropriate cases, privately owned units may be permitted to produce an item falling within Schedule A for meeting their own requirements or as by-products. There will be ordinarily no bar to small privately owned units undertaking production, such as the making of launches and other light-craft, generation of power for local needs and small scale mining. Further, heavy industries in the public sector may obtain some of their requirements of lighter components from the private sector, while the private sector in turn would rely for many of its needs on the public sector. The same principle would apply with even greater force to the relationship between large-scale and small-scale industries.

COTTAGE INDUSTRIES

In relation to some of the problems that need urgent solutions, these offer some distinct advantages. They provide immediately large-scale employment, they offer a method of ensuring a more equitable distribution of the national income and they facilitate an effective mobilisation of resources of capital and skill which might otherwise remain unutilised. Some of the problems that unplanned urbanisation tends to create will be avoided by the establishment of small centres of industrial production all over the country.

The State has been following a policy of supporting cottage and village and small scale industries by restricting the volume of production in the large-scale sector, by differential taxation, or by direct subsidies. While such measures will continue to be taken, whenever necessary, the aim of State policy will be to ensure that the decentralised sector acquires sufficient vitality to be self-supporting and its development is integrated with that of large-scale industry.

The State will, therefore, concentrate on measures designed to improve the competitive strength of the small-scale producer. For this it is essential that the technique of production should be constantly improved and modernised, the pace of transformation being regulated so as to avoid, as far as possible, technological unemployment.

Lack of technical and financial assistance, of suitable working accommodation and inadequacy of facilities for repair and maintenance are among the serious handicaps of small-scale producers. A start has been made with the establishment of industrial estates and rural community workshops to make good these deficiencies. The extension of rural electrification and the availability of power at prices which the workers can afford will also be of considerable help.

Many of the activities relating to small-scale production will be greatly helped by the organisation of industrial co-operatives. Such co-operatives should be encouraged in every way and the State should give constant attention to the development of cottage and village and small-scale industries.

REGIONAL DEVELOPMENT

In order that industrialisation may benefit the economy of the country as a whole, it is important that disparities in levels of development between different regions should be progressively reduced. The lack of industries in different parts of the country is very often determined by factors such as availability of the necessary mineral and other natural resources. A concentration of industries in certain areas has been due to the ready availability of power, water supply and transport facilities which have been developed there. It is one of the aims of national planning to ensure that these facilities are steadily made available to areas which are at present lagging behind industrially or where there

is greater need for providing opportunities for employment, provided the location, is otherwise suitable.

This programme of industrial development will make large demands on the country's resources of technical and managerial personnel. To meet these rapidly growing needs for the expansion of the public sector and for the development of village and small-scale industries, proper managerial and technical cadres in the public services are being established.

Steps are also being taken to meet shortages at supervisory levels, to organise apprenticeship schemes of training on a large-scale both in public and in private enterprises and to extend training facilities in business management in universities and other institutions.

The living and working conditions of workers should be improved and their standard of efficiency raised. The maintenance of industrial peace is one of the prime requisites of industrial progress. In a socialist democracy labour is a partner in the common task of development and should participate in it with enthusiasm.

Some laws governing industrial relations have been enacted and a broad common approach has developed. With the growing recognition of the obligations of both management and labour there should be joint consultation and workers and technicians should, wherever possible, be associated progressively in management. Enterprises in the public sector have to set an example in this respect.

With the growing participation of the State in industry and trade, the manner in which these activities should be conducted and managed assumes considerable importance. Speedy decisions and a willingness to assume responsibility are essential if these enterprises are to succeed. For this, wherever possible, there should be decentralisation of authority and their management should be along business lines. It is to be expected that public enterprises will augment the revenues of the State and provide resources for further development in fresh fields. But such enterprises may sometimes incur losses. Public enterprises have to be judged by their total results and in their working they should have the largest possible measure of freedom.

SCHEDULE A

The future development of the following industries will be the exclusive responsibility of the State.

1. Arms and ammunition and allied items of defence equipment.
2. Atomic energy.
3. Iron and steel.
4. Heavy castings and forgings of iron and steel.
5. Heavy plant and machinery required for iron and steel production, for mining, for machine tool manufacture and for such other basic industries as may be specified by the Central Government.
6. Heavy electrical plant including large hydraulic and steam turbines.
7. Coal and lignite.
8. Mineral oils.
9. Mining of iron ore, manganese ore, chrome ore, gypsum, sulphur, gold and diamond.
10. Mining and processing of copper, lead, zinc, tin, molybdenum and wolfram.
11. Minerals specified in the schedule to the Atomic Energy (Control of Production and Use) Order, 1958.
12. Aircraft.
13. Air transport.
14. Railway transport.
15. Shipbuilding.
16. Telephones and telephone cables, telegraph and wireless apparatus (excluding radio receiving sets).
17. Generation and distribution of electricity.

SCHEDULE B

The following industries will be progressively State-owned. The State will generally take the initiative in establishing new undertakings but private enterprise will not be excluded.

1. All other minerals except "minor minerals" as defined in section 3 of the Minerals Concession Rules, 1949.
2. Aluminium and other non-ferrous metals not included in Schedule "A".
3. Machine tools.
4. Ferro alloys and tool steels.
5. Basic and intermediate products required by chemical industries such as the manufacture of drugs, dyestuffs and plastics.
6. Antibiotics and other essential drugs.
7. Fertilizers.
8. Synthetic rubber.
9. Carbonisation of coal.
10. Chemical pulp

11. Road transport.
12. Sea transport.

It is from these schedules and the foregoing policy announcement that Government entered the industrial field and set on foot a large number of industrial undertakings.

A full list of these with notes on their progress is given in the chapter entitled, "Government Industrial Undertakings".

ORIGINAL RESOLUTION

The original declaration of industrial policy was made on April 6, 1948 by the Government of India and is given below for purposes of record. This has been superseded by the one given at the top of this article.

(1) The manufacture of arms and ammunition, the production and control of atomic energy, and the ownership and management of railway transport should be the exclusive monopoly of the Central Government.

(2) The State will be responsible for the establishment of new undertakings in the field of coal, iron and steel, aircraft manufacture, ship-building, manufacture of telephone, telegraph and wireless apparatus excluding radio receiving sets and mineral oils. Existing undertakings will be allowed to develop for a period of ten years and Government will give all assistance for such development. At the end of the period their position will be reviewed.

(3) Control by the State over the generation and distribution of electric power will continue.

(4) Rest of the industries will normally be open to private enterprise with varying degrees of control over location.

(5) The Central Government would investigate the extent to, and the manner in which cottage and small scale industries could be co-ordinated and integrated with large scale industries.

This policy was re-affirmed in the course of a debate in December 1954, though Government had set a new goal for the country—the establishment of a socialistic pattern of society.

INDUSTRIES DEVELOPMENT & REGULATION ACT

Towards the end of 1951, Parliament passed the Industries (Development and Regulation) Bill. The Act applied to 37 industries listed in the First Schedule to the Act.

The Act was amended in 1956 when new industries were added to the list.

The most important provision is the establishment of Development Councils which deal with the problem of productivity and service to the community.

At the top is the Central Advisory Council for Industries which advises Government on rules, directions to industrial undertakings and taking over the management of industrial concerns.

The Act provides for the registration of existing industrial undertakings and licensing of new ones.

It also empowers Government to investigate into the causes of any possible fall in the production of any concern or any deterioration in the quality of the product, and to take action.

The Act contains provisions for direct control by the Central Government in certain cases.

The Central Advisory Council of Industries was established in 1952 consisting of 27 representatives of industry, labour, consumers and primary producers pertaining to the scheduled industries.

A Licensing Committee was also set up consisting of representatives of the Ministries of Commerce and Industry, Finance, Railways, Production and of the Planning Commission to examine application for licences.

During the period 21st March 1957-31st December, 1957 the Licensing Committee set up under the Industries (Development and Regulation) Act, 1951, examined 998 applications for licences. Out of these 712 applications were approved and 184 applications were rejected. The others were deferred for consideration to a later date mainly because the Committee desired that a more detailed examination of these cases should be made before an opinion could be expressed on their relative merits.

Of the application approved 204 were for the establishment of new industrial undertakings; 328 for effecting substantial expansion; 79 for the manufacture of new articles; 9 were for changing the location of industrial undertakings and 92 for carrying on the business of existing undertakings under Section 13-1 (a) and 13-1 (c) of the Act.

During the period 1st March 1957 to 31st October 1957, 587 applications for registration were received from industrial undertakings engaged in industrial activity brought under the purview of the Industries Act, as amended by the Amendment Act, 1956. Registration Certificates were issued to 401 industrial undertakings.

Government restored two sugar mills, which were managed by authorised Controllers appointed under Section 18A of the Act, to the previous owners. As on 31st December 1957, the affairs of three sugar factories were being managed through authorised Controllers appointed by the Government.

There are now Development Councils for Heavy Chemicals (Acids and Fertilizers), Internal Combustion Engines and Power-driven Pumps and Sugar, Light Electrical and Heavy Electrical Industries, Pharmaceuticals and Drugs, Heavy Chemicals (Alkalies), Non-Ferrous Metals and Alloys, Woollen Textiles and Art Silk Textiles, Machine Tools and Bicycles.

Where an industry was not sufficiently developed, a number of Panels or Expert Committees for inquiring into and studying the problems were set up. The following is the list of the Panels and Committees thus set up: Agricultural Tractors; Aluminium; Earth Moving and Allied Equipment, Electronics and Wireless Equipment, Paper and Pulp, X-Ray Equipment; Surgical Appliances; Power Alcohol, and Sago.

REGULATED INDUSTRIES

All undertakings pertaining to the industries below, employing 50 or more workers with the aid of power, or 100 or more workers without the aid of power, fall within the purview of the Industries (Development and Regulation) Act, 1951, as amended.

1. **METALLURGICAL INDUSTRIES:** *Ferrous:* Iron and steel (metal); Ferro-alloys; Iron and Steel castings and forgings; Iron and Steel structural; Iron and Steel pipes; Special steels; Other products of iron and steel. *Non-ferrous:* Non-ferrous metals and alloys; Semi-manufactures and manufactures.

2. **FUELS:** Coal, lignite, coke and their derivatives; Mineral oil (crude oil), motor and aviation spirit, diesel oil, kerosene oil, fuel oil, diverse hydrocarbon oils and their blends including synthetic fuels, lubricating oils and the like; Fuel gases—(coal gas, natural gas and the like).

3. **BOILERS AND STEAM GENERATING PLANTS.**

4. **PRIME MOVERS (OTHER THAN ELECTRICAL GENERATORS):** Steam engines and turbines; Internal combustion engines.

5. **ELECTRICAL EQUIPMENT:** Equipment for generation, transmission and distribution of electricity including transformers; Electrical motors; Electrical fans; Electrical lamps; Electrical furnaces; Electrical cables and wires; X-ray equipment; Electronic equipment; Household appliances such as electric irons, heaters and the like; Storage batteries; Dry cells.

6. **TELECOMMUNICATIONS:** Telephones; Telegraph equipment; Wireless communication

apparatus; Radio receivers, including amplifying and public address equipment; Television sets; Teleprinters.

7. **TRANSPORTATION:** Aircraft; Ships and other vessels drawn by power; Railway locomotives; Railway rolling stock; Automobiles (motor cars, buses, trucks, motor cycles, scooters and the like); Bicycles; Others, such as fork lift trucks and the like.

8. **INDUSTRIAL MACHINERY:** *Major items of specialised equipment used in specific industries:*—Textile machinery (such as spinning frames, carding machines, powerlooms and the like) including textile accessories; Jute machinery; Rayon machinery; Sugar machinery; Tea machinery; Mining machinery; Metallurgical machinery; Cement machinery; Chemical machinery; Pharmaceuticals machinery; Paper machinery.

General items of machinery used in several industries, such as the equipment required for various "unit processes": Size reduction equipment—crushers, ball mills and the like; Conveying equipment—bucket elevators, skip hoists, cranes, derricks and the like; Size separation units—screens, classifiers and the like; Mixers and reactors—kneading mills, turbo mixers and the like; Filtration equipment—filter presses, rotary filters and the like; Centrifugal machines; Evaporators; Distillation equipment; Crystallizers; Driers; Power driven pumps—reciprocating, centrifugal and the like; Air and gas compressors and vacuum pipes (excluding electrical furnaces); Refrigeration plants for industrial use; Fire fighting equipment and appliances including fire engines.

Other items of Industrial Machinery: Ball, roller and tapered bearings; Speed reduction units, Grinding wheels and abrasives.

9. **MACHINE TOOLS.**

10. **AGRICULTURAL MACHINERY:** Tractors, Harvesters and the like; Agricultural implements.

11. **EARTH-MOVING MACHINERY:** Bulldozers, dumpers, scrapers, loaders, shovels, drag lines, bucket wheel excavators, road rollers and the like.

12. **MISCELLANEOUS MECHANICAL AND ENGINEERING INDUSTRIES:** Plastic moulded goods; Hand tools, small tools and the like; Razor blades.

13. **COMMERCIAL, OFFICE AND HOUSEHOLD EQUIPMENT:** Typewriters; Calculating machines; Air conditioners and refrigerators; Vacuum cleaners; Sewing and knitting machines; Hurricane lanterns.

14. **MEDICAL AND SURGICAL APPLIANCES:** Surgical instruments—sterilizers, incubators and the like.

15. **INDUSTRIAL INSTRUMENTS:** Water meters, steam meters, electricity meters and the like; Indicating, recording and regulating devices for pressure, temperature, rate of flow, weights, levels and the like; Weighing machines.

16. **SCIENTIFIC INSTRUMENTS.**
17. **MATHEMATICAL, SURVEYING AND DRAWING INSTRUMENTS.**
18. **FERTILISERS:** Inorganic, Organic and Mixed.
19. **CHEMICALS (OTHER THAN FERTILISERS):** Inorganic heavy chemicals; Organic heavy chemicals; Fine chemicals including photographic chemicals; Synthetic resins and plastics; Paints, varnishes and enamels; Synthetic rubbers; Man-made fibres including regenerated cellulose-rayon, nylon and the like; Coke oven by-products; Coal tar distillation products like naphthalene, anthracene and the like; Explosives including gun powder and safety fuses; Insecticides, fungicides, weedicides and the like; Textile auxiliaries; Sizing materials including starch; Miscellaneous chemicals.
20. **PHOTOGRAPHIC RAW FILM AND PAPER:** Cinema film; Photographic amateur film; Photographic printing paper.
21. **DYE-STUFFS.**
22. **DRUGS AND PHARMACEUTICALS.**
23. **TEXTILES (INCLUDING THOSE DYED, PRINTED OR OTHERWISE PROCESSED):** made wholly or in part of cotton, including cotton yarn, hosiery and rope; made wholly or in part of jute, including jute, twine and rope; made wholly or in part of wool, including wool tops, woollen yarn, hosiery, carpets and druggets; made wholly or in part of silk including silk yarn and hosiery; made wholly or in part of synthetic, artificial (man-made) fibres, including yarn and hosiery of such fibres.
24. **PAPER AND PULP INCLUDING PAPER PRODUCTS:** Paper—writing, printing and wrapping; Newsprint; Paper board and straw board; Paper for packaging (corrugated paper, kraft paper, paper bags, paper containers and the like); Pulp—wood pulp, mechanical, chemical, including dissolving pulp.
25. **SUGAR.**
26. **FERMENTATION INDUSTRIES:** Alcohol; Other products of fermentation industries.
27. **FOOD PROCESSING INDUSTRIES:** Canned fruits and fruit products; Milk foods; Malted foods; Flour; Other processed foods.
28. **VEGETABLE OILS AND VANASPATHI:** Vegetable oils, including solvent extracted oils, Vanaspathi.
29. **SOAPS, COSMETICS AND TOILET PREPARATIONS:** Soaps, Glycerine, Cosmetics; Perfumery; Toilet preparations.
30. **RUBBER GOODS:** Tyres and tubes; Surgical and medicinal products including prophylactics, Footwear, Other rubber goods.
31. **LEATHER, LEATHER GOODS AND PICKERS.**
32. **GLUE AND GELATIN.**
33. **GLASS:** Hollow ware, Sheet and plate glass; Optical glass, Glass wool; Laboratory ware; Miscellaneous ware.
34. **CERAMICS:** Fire bricks; Refractories; Furnace lining bricks—acidic, basic and neutral; China ware and pottery; Sanitary ware; Insulators, Tiles.
35. **CEMENT AND GYPSUM PRODUCTS:** Portland cement, Asbestos cement; Insulating boards; Gypsum boards, wall boards and the like.
36. **TIMBER PRODUCTS:** Plywood; Hard-board, including fibre-board, chip-board and the like; Matches; Miscellaneous (furniture components, bobbins, shuttles and the like).
37. **DEFENCE INDUSTRIES:** Arms and ammunition.
38. **MISCELLANEOUS INDUSTRIES:** (Cigarettes

The Government of India have decided (Jan. 1959) to bring within the scope of the registration and licensing provisions of the Industries (Development and Regulation) Act the following industrial gases...

Hydrogen gas of all varieties; nitrogen gases of all varieties; carbon dioxide gas of all varieties; refrigerant gases of dichlorodifluoro methane and allied groups; rare gases like

helium, argon, neon, krypton, neon, etc.; fire extinguishing gases of chlorobromo methane and allied groups; nitrous oxide; propane; cyclopropane and ethylene.

Explanation 1.—The articles specified under each of the headings Nos. 3, 4, 5, 6, 7, 8, 10, 11 and 13 shall include their component parts and accessories.

Explanation 2.—The articles specified under each of the headings Nos. 18, 19, 21 and 22 shall include the intermediates required for their manufacture.

STATE AID

State aid is given in a number of ways. The various financial corporations give financial assistance.

The National Industrial Development Corporation grants loans for the modernisation of plant, for especially in the textile, jute and also for the machine tool industry.

The Corporation has approved loan applications from 11 jute mills and 7 cotton mills for amounts totalling about Rs. 2.63 crores and Rs. 1.66 crores respectively. Out of these, sums totalling about Rs. 51 lakhs have actually been advanced to two jute mills.

The Industrial Finance Corporation affords financial assistance in the form of advances and long-term loans to industrial concerns.

The State Financial Corporations assist medium and small-scale industries that fall outside the scope of the all-India Corporations.

(There are factual notes on the National Industrial Development Corporation and the Industrial Finance Corporation in the Chapter on 'Corporations'. For notes on State Corporations see under individual States.)

Technical assistance is arranged through the Joint Four Programme, the Colombo Plan and the U.N. Technical Assistance schemes.

Tariff is regulated to foster indigenous industry. Tax concessions are made (see below under 'Foreign Capital'). Foreign exchange is granted under a system of priorities, especially to facilitate the import of essential raw material and basic intermediates.

In the current policy governing the budgeting of foreign exchange, maintenance requirements in the economy have a high priority. In relation to the Plan, it has been laid down that foreign exchange allotments should be limited in the main to commitments which arise in relation to the 'core' projects, i.e. steel plants, coal mining, railways, and certain power projects.

Outside the 'core', new commitments in foreign exchange are permitted only in respect of those projects whose entire foreign exchange cost is covered by foreign credits or investment and, in certain circumstances, by appropriate deferred payment arrangements.

NATIONAL PRODUCTIVITY COUNCIL

A National Productivity Council works to help increase general productivity.

This is an autonomous body and was registered in New Delhi on 12th Feb. 1958 as a society under the Societies Registration Act, 1860.

There were four local Councils in Bombay, Mysore, Madras and Coimbatore in March 1959.

The Council will launch a campaign for increasing productivity initially in all spheres of industries including large-scale, medium, small scale and light industries. It will promote the establishment of local, regional and industry-wide productivity councils, through which productivity services will be made available.

The NPC will organise and promote scientific studies and techniques, arrange for training and visits of technicians and executives to various plants within and outside the country. Research and continuous dissemination of technical knowledge will be one of the main functions of the Council. Information on all aspects of productivity will be centrally available and queries will be answered, facilitating exchange of ideas.

During 1958-59 fifteen Councils on State regional and local basis are to be set up.

The Councils consist of representatives of Government Departments, employers' associations and labour organisations.

INDUSTRIAL ESTATES

Another feature of the industrial policy is the establishment of industrial estates. This was initiated in 1955.

The main object is decentralisation. Government seeks to remove small industrial units from crowded urban areas and thus reduce the pressure on the latter, and secondly it seeks to provide small units with factory space and common facilities for efficient working.

The State Governments acquire and develop land, construct roads, put up factory buildings, arrange for supply of water and electricity and also set up common service workshops. The factory buildings in the States are then let out at concessional rents, outright sale or hire-purchase basis to small entrepreneurs.

The Government of India advance to the States the entire cost of the estates as loans. Grants are also given for specific purposes, such as, planning and designing of these estates.

These industrial estates provide better accommodation for small industries with facilities of power, water, etc. They bring industries together and facilitate the establishment of common servicing centres, introduction of modern techniques, collective purchase of raw materials and sale of finished products. They stimulate the co-operative spirit among them.

Industrial estates are of two kinds—large estates near big cities and urban areas and small ones in community development blocks.

The larger estates cost roughly from Rs. 20 to 30 lakhs, the smaller ones from Rs. 2 to 3 lakhs.

Up to the end of 1958, Government of India sanctioned the setting up of 78 industrial estates in different parts of the country. Of the schemes sanctioned, 16 industrial estates were completed and occupied, while others were under construction.

The provision for Industrial Estates in the second Five-year Plan has been increased from Rs. 10 crores to Rs. 15 crores. Up to the end of 1957, loans to the extent of Rs. 2.75 crores and grant of Rs. 13.50 lakhs for 54 Estates had been sanctioned.

FOREIGN CAPITAL

Foreign investments in India have been steadily growing over the past years. In 1948, it stood at Rs. 287.7 crores and in 1955, it rose to Rs. 487.7 crores. By the end of 1957 foreign investment in India had increased by another Rs. 150 crores, according to unofficial estimates.

The Government of India have been fully aware of the contribution that foreign investment can make to the country's progress and in computing the resources for the Second Five Year Plan. They have taken a sum of Rs. 100 crores as fresh foreign investment likely to materialise during that period.

The Government of India's policy in regard to foreign capital was explained by the Prime Minister in a statement made on 9th April 1949.

The salient features of this statement are as follows:

1. All undertakings, Indian or foreign, will conform to the general requirements of Government's industrial policy.

2. As regards existing foreign interests no restrictions or conditions will be imposed which are not applicable to similar Indian undertakings.

3. Facilities for the remittance of profits or even withdrawal of foreign capital investment would continue subject only to foreign exchange considerations.

4. If and when foreign enterprises are compulsorily acquired, compensation will be paid on a fair and equitable basis.

5. In the matter of the participation of foreign capital and enterprise major interest in ownership and effective control should save in exceptional cases be in Indian hands. But in all cases however the training of suitable Indian personnel for the eventual replacement of foreign experts will be insisted on.

Other points may be set out as follows:

Government have followed a policy of encouraging capital participation with Indian collaborators by foreign companies. In principle, the cost of capital equipment to be imported is allowed, at a minimum, to be financed from abroad. This is permitted as equity participation itself or as equity and loans combined. Over and above this minimum, while Government are of the view that to the extent possible, majority control must be in Indian hands, in suitable cases, foreign investment as bulk of the capital structure is allowed.

Where both Indian and foreign interests agree that foreign participation must be by loans rather than by equity capital a suitable rate of interest is allowed.

Under the recent amendments to the Income Tax Act, such loans—on specific application—can be free of income tax.

The Government of India have entered into a convertibility arrangement with the U.S.A. Under this, the U.S. Government will guarantee to the American investor in India the convertibility into dollars of his investments in projects approved by the Government of India and of his income from them.

Indian companies are welcome to obtain the services of foreign experts or consultants who are necessary.

Government approval is given to payments by Indian companies to foreign collaborators towards research fees, technical services, etc. In giving such approval, the amounts to be paid once settled by the parties themselves are generally not interfered with.

So far as royalty is concerned, a distinction is made between the element of royalty as such, and the element of services rendered abroad by the foreign collaborator. The latter is exempt from tax. About royalty itself, Government are not committed to any particular rate though 5 per cent is, in practice, found to be generally the maximum rate. But in specific cases Government have permitted royalties in excess of this percentage. There have been practically no instances where negotiations between two parties have broken down because Government declined to approve a particular rate of royalty as being unduly high.

TAXATION

The Government of India have provided substantial tax concessions by way of incentives for the industrial development of the country. The more important of these tax concessions are, to mention briefly:

(a) Exemption from income-tax of the profits made by industrial undertakings newly established, during the first five years from the commencement of manufacturing operations.

(b) Exemption from income-tax to a shareholder in a newly established industrial company, of the dividends he receives from the company out of the profits exempt from tax in the hands of the company.

(c) Exemption from super-tax to a company for an indefinite period on the dividends it receives from an Indian company established after March 31, 1952, and engaged wholly or mainly in certain specified important industries.

(d) For all business enterprises, an outright allowance, known as "development rebate" of 25 per cent of the cost of new plant and machinery (40 per cent in the case of ships) in the first year of installation of the asset, thereby enabling the enterprises not only to write off the full cost over a period of years by way of depreciation allowances but also to get further tax relief on 25 per cent of the cost.

(e) Outright deduction or amortisation over a period of five years of expenditure incurred by business undertakings on scientific, statistical

or social research relating to the class of business carried on.

(f) Application of a concessional rate of super-tax in respect of dividend incomes received by a company from an Indian subsidiary company.

(g) Exemption from wealth-tax for newly established industrial companies on their net worth for a period of five successive assessment years, following their incorporation.

(h) Exemption from wealth-tax to individual shareholders on their investments in shares of newly established industrial companies, during a period of five successive assessment years following the establishment of the companies.

(i) Exclusion from net worth for purposes of wealth-tax in the case of all companies of the value of shares held by them in other companies.

In addition there are certain other incentives which are of value particularly to the foreigners:

(1) Exemption from income-tax is conferred on interest payable—

(i) by an industrial undertaking in India on moneys borrowed by it under a loan agreement with a financial institution of a foreign country, if the institution is approved by the Government of India;

(ii) by an industrial undertaking in India on moneys borrowed or debt incurred by it abroad in respect of purchases of plant and machinery from abroad, if the transaction is approved by the Government of India.

(2) Exemption from income taxation to a technician of foreign nationality employed by an undertaking in India in respect of the remuneration received by him for services rendered as such technician during a period of 365 days from the date of his arrival in India. Further, if the contract of service is approved by the Government of India before commencement of the technician's services in India, the exemption is continued for a further period so that he does not have to pay tax on his Indian remuneration during the financial year of his arrival in India and the two succeeding financial years.

One problem of practical importance which has also been a source of great misgiving to investors abroad has been the absence of any agreements between India and the foreign countries for avoidance of double taxation, and the uncertainty of their getting adequate relief in their own country. One serious difficulty faced by the Indian Government in the conclusion of agreements for the purpose was the unwillingness of the industrially and economically advanced countries to depart from the pattern of the agreements they had already concluded with countries of equal industrial and economic status, and the inability of India, with her poor and underdeveloped economy, to subscribe to that pattern.

Recently, a delegation of senior officials of the Government of India visited a number of European countries, and agreements at official level have recently been reached with West Germany, Pakistan, Ceylon, Norway, U.S.A., Switzerland (for air transport only) and Sweden.

COMPANY LAW

Foreign companies, i.e., companies incorporated in countries outside India and having places of business in this country are governed by Sections 591 to 608 of the Companies Act. In form as in substance, the provisions of the new Act on this subject are similar to those of the English Companies Act, 1948 as contained in Sections 406 to 423 of that Act. These provisions are not very different from the corresponding provisions in the 1913 Indian Act either, except in regard to those relating to the submission of accounts.

There is no discrimination in any of these provisions against the foreign companies. On the contrary, the accounts provisions are decidedly in favour of them as compared with the corresponding provisions applicable to companies registered in India.

A new feature of the present law is that the foreign companies are now required to file their accounts and related documents with the Registrar of Companies, Delhi, in addition to filing

such documents with the Registrars of Companies of the States in which they may have their principal places of business. The new arrangement facilitates the centralisation of documents and records relating to foreign companies at one place in the country.

The Government has decided that the requirements of the clause (a) of sub-section (1) of Section 594 should apply to foreign companies with a share capital subject to the following exceptions and modifications:

(i) A foreign company should, in respect of its Indian business, submit to the appropriate Registrar in triplicate its balance sheet and profit and loss account in such form, containing such particulars and including or having annexed or attached thereto such documents as under the provisions of the Act it would, if it had been a company within the meaning of the Act, have been required to make out and lay before the company in general meeting.

(ii) The working capital earmarked for its branch, if any, should be shown in the balance sheet.

(iii) The profit and loss account in respect of its Indian business should disclose the net profit or loss for the year transferred to its principal office in the country of incorporation.

(iv) The balance sheet and profit and loss account of the Indian business of the foreign company, in terms of clause (i) should be audited by such person or persons and in such manner as laid down in the Act. In regard to the balance sheet and profit and loss account relating to a period ending on or before 31st day of March 1959, it would be deemed sufficient compliance with the law if such documents were audited by auditors of the foreign company in the country of its incorporation.

(v) A foreign company which, if incorporated under the Act would have been deemed to be a private company within the meaning of clause (iii) of sub-section (1) of section 3 of the Act, should not be required to submit the profit and loss account of its Indian business.

(vi) A foreign company should also submit to the appropriate registrar three copies of the authenticated balance sheet and profit and loss account (including documents relating to every subsidiary of the foreign company) as submitted by it to the prescribed authority in the country of its incorporation under the provisions of the law in that country.

(vii) If there is any difficulty in reconciling the balance sheet and profit and loss account of a foreign company submitted in accordance with clause (i) with the balance sheet and profit and loss account filed by that Company in the country of its incorporation, the Central Government would have the right to seek clarification or demand the preparation of the balance sheet and profit and loss account filed in that country, as far as practicable, in such form as it would have been required to make out and lay before the company in a general meeting, if it had been a company within the meaning of the Act. A foreign company should be bound to furnish such clarification or comply with such demand as the Central Government might make.

(viii) In regard to foreign shipping or airlines companies, it should be deemed to be sufficient compliance with the provisions of Part II of Schedule VI to the Act, if the profit and loss accounts of such companies prepared in terms of clause (i) disclosed, under broad heads, the items of indirect expenditure (relating to an entire voyage or flight which could not be directly charged against the Indian business of such companies) allocated on a reasonable basis.

(ix) It should be deemed sufficient compliance with the provision of section 594 of the Act if the balance sheets in respect of the period ending on or before the 31st day of December 1959, were filed in the manner laid down in sub-section (3) of section 277 of the Indian Companies Act, 1913.

ALCOHOL INDUSTRY

INDUSTRIAL alcohol is a very valuable material in the manufacture of chemicals like acetone, acetic acid, ether, chloroform, ethyl acetate, etc. It is also necessary as a solvent in the manufacture of fine chemicals, medical preparations, toilets, etc. Since the last war, its importance has increased. It is now essential in the manufacture of ammunition and of artificial rubber.

In 1957 there were as many as 17 power alcohol distilleries capable of producing over 13 million gallons of industrial alcohol. In addition, there were 24 distilleries producing potable and industrial alcohol. The capacity of these units for industrial alcohol was estimated at 9.3 million gallons. At present the capacity for industrial alcohol is estimated at 14.9 million gallons per annum (44 producing units). The trend of production has been as follows:

Year	Rectified spirit (000 gals.)	Denatured spirit (000 gals.)
1950	3,435	1,477
1951	5,019	1,967
1952	4,668	2,178
1953	4,376	2,493
1954	4,630.8	2,835.6
1955	5,156.4	2,939.2
1956	4,209.6	3,382.8
1957	5,095.2	3,470.4
Jan.-July 1958 ..	3,344.9	2,158.7

The undivided Government of India's Panel on Fine Chemicals, Drugs and Pharmaceuticals estimated that the medical requirements of the sub-continent were a million gallons annually and industrial requirements 10 millions, a target which they said ought to be reached in 15 years time.

Consumption of industrial alcohol is estimated to have gone up from 3.4 million gallons in 1950 to 5.2 million gallons by 1955. In addition about 0.6 million gallons of alcohol are at present used in the manufacture of acetate rayon and are met from the production of power alcohol grade spirits.

POWER ALCOHOL

The importance of the power alcohol industry lies in its supplying a product which can replace an equivalent quantity of imported petrol. The rapid development of the sugar industry since 1931 has rendered large quantities of molasses available for its production.

Consumption of power alcohol in 1955-56 was estimated to be only about 10 million gallons, as against 19 million gallons envisaged because of difficulties in providing facilities for mixed petrol with alcohol and of comparatively high cost of production of alcohol in certain areas.

The number of units engaged in the manufacture of power alcohol in 1957 was 17 with an aggregate capacity of 13.8 million gallons. The capacity as in August 1954 was higher at 15.19 million gallons.

The installed capacity and actual production in thousand bulk gallons are given below:

Year.	Capacity	Production
1945	6,254	3,776
1949	8,462	4,230
1950	9,324	4,494
1951	9,905	5,409
1952	10,920	7,742
1953	13,020	8,120
1954	13,020	8,007.6
1955	13,912	10,432.8
1956	14,352	10,270.4
1957	18,800	10,138
Jan.-July 1958 ..	15,190*	5,030

* As in August 1958.

According to the Census of Manufacturing Industries, 1955, the fixed capital investment in the 44 distilleries and breweries (including power alcohol manufacturers) in the country was of the order of Rs. 2.20 crores in 1955. The number of persons employed in the industry in 1955 was estimated at about 4,729.

Imports of alcohol are banned, but small quantities are imported along with drugs and perfumed spirits or in the form of liquors. Exports of alcohol are confined to despatches of denatured spirit to Burma and Ceylon and small quantities of rum.

The principal raw material required is molasses. Out of a total production of 7.78 million tons of molasses in 1957-58 (estimated), Uttar Pradesh and Bihar accounted for about 70%. Other raw materials required in small quantities are sulphuric acid, ammonium sulphate and entertaining agents.

Difficulties in the supply of molasses and offtake and the unremunerative price of power alcohol have kept production at a low level compared to the installed capacity. With a view to overcoming these difficulties and ensuring a steady growth of the industry, a Committee was set up by the Ministry of Commerce and Industry in October 1955.

The Committee submitted its report in December 1956. Its main recommendations were:—

- (i) The Development of alcohol-based industries such as manufacture of Synthetic Rubber, Acetate Rayon, Cellulose Acetate, Pharmaceutical products, D.D.T. and other Organic Chemicals and Solvents like Acetone, Ether, Butanol etc., should be encouraged on a priority basis. On the basis of expected developments in certain alcohol-based industries and targets thereof by the end of the Second Plan, the Committee has estimated that the industrial requirements of alcohol will increase to 31 million gallons per year, the present consumption being 4 to 5 million gallons a year.
- (ii) Even when alcohol based industries develop, power alcohol should continue to be used in admixture with petrol so as to provide a flexible demand to cover any imbalance between anticipated production and gradual development of industrial demand for alcohol. For several years to come, it will be necessary to arrange for the utilisation of about 12 million gallons per year as power alcohol, although the areas under alcohol/Petrol blend may vary from time to time depending on the progress of other industries based on alcohol.
- (iii) The Committee estimated that, after meeting the requirements of other users, over 900,000 tons of molasses would become available for the manufacture of alcohol per year from 1959-60 onwards. The total production of alcohol from all the available molasses, including 1 million gallons produced from Mahua flowers, is expected to be of the order of 46.8 million gallons per year (100 per cent by volume). In order to attain this level of production, distillery capacity of the order of 52 million gallons per year is necessary.
- (iv) The minimum capacity for a distillery of economic size, under the present circumstances in India, is 1 million gallons per year. In special circumstances, the economics of production in units of smaller capacities may, of course, not be too disadvantageous.
- (v) (a) In order to encourage the use of alcohol as a raw material for industries, the basic ex-distillery price for alcohol should not be higher than Rs. 14.87 (n.p.) per gallon, as at present.
(b) Since, however, all distilleries are not adjacent to sugar factories and may have to transport a part or the whole of their molasses requirement, the actual ceiling prices (per gallon) recommended are:—

For alcohol of strength 90.5 per cent by volume, As. 12.0 (or 80 n.p.); for alcohol of strength 96 per cent by volume, As. 12.6 (or 78 n.p.); plus an additional charge upto a maximum of Rs. 0.6-0 or 37 n.p. per gallon on account of the actual average transport charges incurred on molasses.

- (vi) As molasses has been and will continue to be the principal raw material for production of alcohol, control over its price and distribution is essential if the price of alcohol is to be maintained at a low level. An ex-sugar factory price of 4 annas per maund, for molasses containing not less than 50 per cent total sugars, would be reasonable. For molasses of lower sugar content, correspondingly lower prices on the lines prescribed in the U.P., may be charged.
- (vii) The varying pattern which may have to be developed with respect to mixing depots for supplying petrol mixed with power alcohol in different parts of the country during the next few years has been indicated.
To ensure the offtake of power alcohol in different areas from year to year a flexible system for the sale of power alcohol has been outlined.
- (viii) It may be possible to build up an export market for over a few million gallons of alcohol per year if the price of alcohol is pegged at the level recommended by the Committee. Suitable assistance should be given with regard to excise procedure and availability of tank wagons and storage facilities at ports to prospective exporters.
- (ix) A development Council for Fermentation Industries including alcohol and products based on it should be constituted.

The Committee also made recommendations in regard to the following matters:—

- Mechanism of control over price and distribution of molasses;
- Mechanism of control over price and distribution of industrial alcohol;
- Tax structure and agency for taxation of industrial alcohol;
- Revision of excise laws for the control of distilleries and factories using alcohol in their manufacturing operations;
- Definition and scope of the terms "Alcohol" and "Spirit" for purposes of control;
- Collection of detailed statistics relating to industry-wise consumption of alcohol;
- Freight rates on various grades of alcohol; and
- Rail transport facilities for the movement of molasses and alcohol.

The actual expansion of capacity of the sugar industry is likely to fall short of the level estimated by the Committee on account of the difficulties of foreign exchange and a preferential diversion of the available limited foreign exchange resources to projects and industries of higher priority. The full industrial demand for alcohol envisaged by the Committee may take a much longer period to develop in case some major schemes like the synthetic rubber project get delayed in actual implementation. Even so, it might be advantageous to build up alcohol capacity somewhat ahead of the growth of industrial demand to the extent that it is facilitated by the availability of molasses, in view of:

- (a) the export possibilities and
- (b) the alternative outlets for its use as motor fuel.

The report of the Committee, together with the Government of India's decisions, was released to the public in March 1958. The Govern-

ment accepted recommendation Nos. (i), (ii), (iii), (viii) and (ix) of paragraph 2 above and stated that it wanted to take steps to implement them as far as possible. The other recommendations, including those referred to in para 3 above, were under examination and the decisions thereon would be published in due course.

Based on the anticipated requirements during the Second Plan period, a combined production of 45 million gallons of power and industrial alcohol is fixed as a target to be achieved by 1960-61. It is estimated that a sum of about Rs. 1 crore will have to be invested during the Second Plan to achieve this capacity. This is exclusive of the outlay on the modernisation and improvement of existing units. About 2,000 additional persons are estimated to be employed in the industry during the Second Plan.

AUTOMOBILE INDUSTRY

IT would appear that the first motor car was imported into India in 1898. The practice up to the end of the first world war was to purchase complete motor vehicles directly from abroad or through agents or dealers in India.

It was in 1920 that two automobile manufacturers, one from the U.S.A. and the other from Canada, set up local companies to do business in motor cars and trucks.

General Motors India Ltd. commenced assembling trucks and cars from components and parts imported from the U.S.A. in c.k.d. condition in their factory at Bombay in 1928, while Ford Motor Company of India Ltd. commenced c.k.d. assembly of automobiles at Madras in 1930, and at Bombay and Calcutta in 1931.

All these plants of General Motors and Ford Motors have now, of course, shut down.

Addison and Co., Ltd., commenced c.k.d. assembly of cars and trucks at Madras in 1936.

In addition to the above, other firms in the field were: Standard Motor Products of India Ltd., Madras; Automobile Products of India Ltd., Bombay; Ashok Motors Ltd., Madras; Dewar's Garage and Engineering Works, Calcutta; Peninsular Motor Corporation Ltd., Calcutta; French Motor Car Co., Ltd., Bombay; Mahindra and Mahindra Ltd., Bombay and Addison and Co. Ltd., Madras.

The total annual assembling capacity of the firms mentioned above was estimated around 84,014 cars and commercial vehicles.

In 1944, two companies, Hindustan Motors Ltd., Calcutta, and Premier Automobiles Ltd., Bombay, with an authorised capital of Rs. 20 crores and Rs. 10 crores respectively, were established with a programme for progressive manufacture of complete automobiles.

In 1953 (Government decided to concentrate production only in those firms which had a manufacturing programme. The type of vehicle, the scale of manufacture, etc. were also fixed in the way shown below:

Firm.	Nos.
Hindustan Motors Ltd. Calcutta ..	18,000
Premier Automobiles Ltd., Bombay ..	12,000
Standard Motor Products of India Ltd., Madras ..	2,950
Ashok Motors Ltd., Madras ..	7,540

Hindustan Motors manufacture baby cars, light cars, big cars and medium trucks (Morris Minor, Hindustan 14, Studebaker car and truck).

Premier Automobiles manufacture baby cars, big cars and medium trucks (Fiat 1100, Dodge, De Soto, Plymouth cars, and Dodge, De Soto and Fargo trucks).

Standard Motor Products of India manufacture baby cars and medium cars (Standard Ten and Standard Vanguard).

Ashok Motors manufacture heavy trucks (Leyland 5-ton diesel trucks).

Two other manufacturing operations are the Tata Locomotive and Engineering Co. Ltd., which produces Tata-Mercedes Benz diesel trucks, and Mahindra and Mahindra Ltd. which produces Willy's Jeep.

In September 1958 the Union Defence Ministry entered into an agreement with the M.A.N. of West Germany for the manufacture of multi-fuel trucks in ordnance factories.

The rate of output is reckoned at 2,000 per annum.

Manufacture will commence with 28 per cent indigenous manufacture and this will rise to 90 per cent by 1963-64.

The installed capacity and actual production of the automobile industry during 1957 and part of 1958 are indicated below:

	(In numbers)	
	1957	Jan.-Aug. 1958
Installed capacity ..	49,000	49,000
Production ..	32,839	16,575*
of which :		
Cars ..	11,604	4,579
Jeeps and land rovers ..	4,068	2,402
Station wagons, utilities, mobile health vans ..	612	208
Commercial vehicles ..		
Trucks ..	11,892	6,605
Passenger Buses ..	3,756	2,581

The capacity in 1959 was rated at 65,000 (20,000 cars, 40,000 trucks, 5,000 jeeps and station wagons). The production in 1958 was 26,788 (cars 15,000). The fall was due to restriction in the licensing of imported parts and also to a prolonged strike in an automobile plant.

The total paid up capital invested in the industry as on December 31, 1957 was over Rs. 18.5 crores (foreign a little over Rs. 14 lakhs); working capital: Rs. 8.0 crores (excluding Tata Locomotive and Engineering Co. Ltd.). The industry employs over 18,800 people.

The percentages of indigenous content in different main models of automobiles as in April 1958, were:

Cars: Hindustan Ambassador—60 per cent, Fiat '1100'—37 per cent; Standard Vanguard—33 per cent; Standard '10'—30 per cent.

Trucks and bus chassis: Tata-Mercedes-Benz—53 per cent; Dodge (medium diesel) 156" W.B.—53 per cent; Dodge (light diesel) 126" W.B.—53 per cent; Dodge Power Wagon—26 per

cent; Leyland 'Comet'—38 per cent; Leyland Royal Tiger Titan—9 per cent.

Jeep: Willy's CJ-3B—58 per cent.

It is reckoned that by the end of 1959 about 70 to 75 per cent of the components in the case of two commercial vehicles and one car will be indigenously manufactured.

By 1960-61 the vehicles in the country will have reached 80 per cent indigenous content.

There is now one unit each for motor cycles and scooters with an installed capacity of 6,800 and 6,000 per annum respectively.

The motor cycle unit is Enfield (India) Ltd., of Madras, formerly Madras Motors Ltd. This firm was granted a licence in 1954 to manufacture Royal Enfield motor cycles, and it started production in May 1955.

This firm has also a licence for the manufacture of 1,400 three-wheeled motor cycle chassis per annum.

The unit for the manufacture of scooters is the Automobile Products of India, Bombay, which is permitted to manufacture annually 6,000 Lambretta scooters. It started production in August 1955.

During 1957, 1,827 motor cycles and 6,528 scooters were manufactured as against 1,551 and 4,735 respectively in 1956.

Both automobile and tractor drawn trailers are manufactured in the country. Six firms with a total capacity of 5,232 trailers per year on single shift basis are in the field.

ANCILLARIES

Items like tyres, tubes, battery, all rubber parts, upholstery materials and paints are all obtained from indigenous sources for all the vehicles in the manufacturing programme.

There are 20 important firms licensed for making automobile ancillaries excluding garage and service tools and 11 have already gone into production. The total number of ancillary factories is, however, estimated at 146.

The following manufacturing industries are more or less well established: pistons and piston rings, cylinder liners (dry), fan belts, radiators, propeller shafts, bodies for automobiles, seat bench assembly, upholstery material, batteries, electric lamps and bulbs, ball bearings, tyres and tubes, paints, non-genuine components and parts. To the list are added gudgeon pins, electric horns and new ranges of piston.

Manufactures started later are: sparking plugs, fuel injection equipment, electric horns, shock absorbers, wheels and rims, spanners, and brake lining, clutch facings, piston rings, cylinder liners, oil seals, metal gaskets, scammell semi-trailers, brake lining, clutch discs and friction materials.

Over Rs. 4.4 crores are invested in ancillary industries. The working capital of this latter sector is Rs. 51 lakhs.

In regard to automobile batteries self-sufficiency has been achieved.

*See below for production for whole year.

There are 13 manufacturing concerns in India with a total installed capacity of 316,500 storage batteries per year.

The production during 1957 was over 3.24 lakh batteries as compared with 3.14 lakh batteries in 1956.

The total licensed capacity by the middle of June 1958 was over 5 lakh batteries per year as against the Second Plan target of 3.5 lakhs.

Of the existing manufacturing concerns, six are in Calcutta, three in Bombay, two in Bangalore and one each in Delhi and Madras. Besides these, there are about 100 small scale manufacturers of automobile batteries with a total annual capacity of about 1.25 lakh batteries.

The quality of batteries manufactured in India compares favourably with that of well-known foreign brands.

A beginning has also been made in exports of Indian automobile batteries.

Exports in 1957 were valued at over Rs. 15,000 as against a little over Rs. 14,000 in 1956.

In the first six months of this year, Ceylon imported storage batteries of the value of over Rs. 13,000. Parts of storage batteries valued at over Rs. 4,000 were exported to Burma and Ceylon during the period.

IMPORTS

Protection will continue till the end of 1967. And no more new manufactures will be allowed to enter the country.

Though production has gone up in the country, imports have not been reduced as expected. Except for a very limited number of motor cars imported complete, all the vehicles imported are in c.k.d. condition.

Year	Motor cars including taxi cars (Numbers)	Motor omnibuses, motor vans and lorries (Numbers)	Total	Value (Rs. lakhs)
1952-53	5,164	3,637	8,801	5.93
1953-54	5,816	4,189	10,005	6.08
1954-55	10,592	4,516	15,108	10.29
1955-56	10,562	8,891	19,453	13.46
1956 (April-Dec.)	6,710	6,004	12,714	9.92
1957	12,135	16,439	28,574	19.63
1958 (Jan.-Aug.)	6,270	6,538	12,808	7.54

A general note on price may be added here. Price is influenced by demand which in turn is influenced by price. Thus one of the factors that has inhibited the growth of the industry is the fact that internal demand is small. Hence the advantages of mass production cannot be availed of.

A complete automobile consists of 4,000 to 5,000 parts. Hence production cannot be con-

centrated in a single unit. Thus in most western countries there are always a large number of manufacturers of ancillary parts. This again is conditioned by the size of the demand.

SECOND FIVE-YEAR PLAN

The target of production for the industry is 57,000 automobiles by 1960-61. An overall investment of about Rs. 16 crores is estimated to be necessary during the Second Plan period.

Summary of the development programme during the Second Plan :

	1955-56	1960-61
No. of manufacturing units	6	6
Annual rated capacity on single shift (No.)	29,000	29,000
Estimated production (No.)	25,000	57,000
Consumption (No.) ..	23,000	57,000

CEMENT INDUSTRY

THE first venture in the manufacture of Portland Cement in India took place in 1904, in a small factory just outside Madras, but it quickly went out of business.

At the beginning of the First Plan there were 21 cement factories. At the end of the Plan, that is, in March 1956 there were 27.

In March 1957 the number of factories rose to 28 of which one was owned by the U.P. Government and one by the Mysore Government. Of the rest, all privately owned, seven were in Bihar, four in Bombay, three in Madras, two each in Mysore, Andhra, Madhya Pradesh, Rajasthan and the Punjab, and one each in Orissa and Kerala. The total capacity was about 6 million tons a year and the total production about 5 million tons. The number of factories in existence will rise from 28 early in 1957 to 44 at the end of the Second Plan period.

A sum of about Rs. 29 crores had been invested in the industry up to 1950-51 of which the A.C.C. accounted for Rs. 15.5 crores and the Dalmia Group Rs. 7 crores. Some 33,000 persons were employed by the industry in 1950-51. Excluding Rs. 2.92 crores spent on the 2 lakh tons cement factory of the U.P. Government at Chark, about Rs. 15 crores are estimated to have been invested in new units and expansions in the cement industry during 1951-56. The investment incurred by the Associated Cement Companies on their projects is estimated to amount to Rs. 11.76 crores during this period.

For the expansion of capacity in the private sector to 12.5 million tons by 1960-61 from 4.6 million tons in March 1956 (the capacity in the public sector in the two plan periods will be 3 lakh tons and 5 lakh tons respectively), an investment of about Rs. 80 crores is likely to be required. The development programme of the ACC envisages an investment of Rs. 25 crores for stepping up the capacity of their factories from 2.782 million tons in March 1956 to 5.288 million tons by the end of the Second Plan.

Altogether the capacity of the industry is envisaged to be stepped up to 13.0 million tons per annum by the end of the Second Plan and a production target of 13.0 million tons.

Including the demand of the projects and roads, this was expected to reach 4.5 million tons by the end of the first Plan period. By 1960-61, the demand will substantially increase and the consumption is estimated to reach 12.5 million tons at the end of the Second Plan period.

To meet this increased demand, the Government has approved various expansion schemes which are expected to increase the rated capacity from 4.931 million tons in 1955-56 to 13 million tons by 1960-61.

PRICE

Early in 1957 the Government of India requested the Tariff Commission to make a fresh examination of the cost of production of different cement factories and recommend the fair prices payable to the cement producers. The Commission, in its report submitted in 1958, worked out the estimated cost of production of cement for the group of factories owned by the Associated Cement Companies Limited and for each of the other factories. The Commission recommended that the ex-works prices in rupees per ton of unpacked cement for different factories should be fixed as follows: A.C.C. 58-00; Andhra Cement 65-00; Ashoka 65-00; Bagalkot 62-00; Dalmia Bharat 54-50; Dalmia Dadri 56-50; Digvijay 56-50; India Cements 60-50; Jaipur Udyog 57-00; Kalyanpur 59-00; Mysore Iron 58-50; Orissa Cement 55-50; Rahtas 54-50; Sone Valley 59-00; Travancore Cements 60-50; U.P. Government Factory 57-00. These prices, the Commission recommended, should be enforced from 1st January 1958 until 31st December 1960, except in the case of Dalmia Cement (Bharat) Limited, the price for which should be in force till the end of 1959. Before this date a fresh examination of the cost of this factory should take place if any expansion of its capacity

is likely to be effective from the beginning of 1960.

The Government accepted the recommendation regarding the revised prices payable to the producers. It, however, decided that the revised prices should take effect from 1st July 1958 as administrative and financial complications would arise if the revised prices were to be enforced with retrospective effect and because the present arrangements and prices under the cement control order were effective till 30th June 1958. The revised prices will remain in force until the end of June 1961. While in almost all cases the producers have been allowed an increase in price, the *f.o.r.* destination price of cement, i.e., the price at which cement packed in new gunny bags is sold to consumers at all railheads throughout the country, will continue to be the same as at present, namely Rs. 117.50 per ton. This arrangement has been made possible by a readjustment of incidental and overhead charges including a reduction in the remuneration of the State Trading Corporation from 3 per cent to 1 per cent on gross turnover. The S.T.C. has been handling the entire production of cement in India for the last two years. The Government also accepted the Commission's recommendations that: 1. The case of each new unit to be set up in future should be taken up for cost investigation individually as soon as it goes into production. 2. In the event of a general increase in the controlled pit head prices of coal a reference should be made to the Commission to determine the extent to which the price for each cement unit should be increased. 3. Rehabilitation allowance should be given only to those units which have plant and equipment installed before 1949. The Commission also recommended that the system of rebates allowed by the cement producers to the Central and State Governments in the price of cement supplied to them should be abolished, and that the rebates, if at all allowed, should be paid by the S.T.C. With regard to this recommendation, the Government has decided that rebates of the nature allowed by certain producers under rate contracts with the D.G. (S.D.) would

be paid by the State Trading Corporation to the D.C. (S.D.) on such terms as might be mutually agreed upon. Any concessions outside the rate contracts, on the basis of separate agreements with Governments, Central or State, would continue to be dealt with between the parties direct.

The prices of indigenous and imported cement are pooled and its distribution has been taken over by the State Trading Corporation in order to provide for substantial import of cement in the interests of consumers and to rationalise properly and regulate the use of cement when its demand has phenomenally gone up so high.

EXPANSION

The cement industry recorded steady progress during 1957. As against an installed capacity of 5.7 million tons at the beginning of the year, the capacity went up to 6 million tons at the end. The actual production was 5.6 million tons in 1957, as against 4.9 million tons during 1956.

Besides the 29 units already in operation in the country, 64 schemes, comprising 25 new units and 29 projects for the expansion of existing units involving a total additional capacity of 8.67 million tons a year, have so far been approved by the Government of India. The schemes are in various stages of progress. Of these, fifteen schemes (four new units and eleven schemes for expansion of existing units) with a total capacity of 1.8 million tons were completed by the end of 1956, while another eleven schemes are expected to be completed by the end of 1959 giving a total capacity of 10.4 million tons by that date. The remaining schemes are scheduled to be completed progressively by 1960-61. In meeting the requirements of foreign exchange for the procurement of capital goods for implementing these schemes, assistance was received from the T.C.M.

Due to the modernisation of some of the units for making asbestos cement products, the capacity of the industry has reached 210,000 tons (against 141,400 tons in 1956) and production has increased from 119,828 tons in 1956

to 153,761 tons in 1958. Almost all units are working to full capacity.

Six firms have been registered or licensed for the manufacture of cement machinery. Much of this will be manufactured in India by the end of the Plan.

The imports and exports of cement by land and sea during the period of the First Plan were as follows:

Year	Imports | Exports	
	(Tons)	
1951-52	10,312	67,758
1952-53	3,652	57,441
1953-54	6,694	86,116
1954-55	6,000	101,429
1955-56	10,717	51,351

During the year 1957, India imported 351,000 tons of cement and a small quantity was exported.

For 1958 the export permitted was one lakh tons.

CHEMICAL INDUSTRY

FOR purposes of industrial production, chemicals fall easily into one of two major groups: (a) Heavy Chemicals; and (b) Fine Chemicals.

According to the latest data, there are over 250 factories with a capital investment of nearly Rs. 33 crores and providing employment for about 35,000 workers.

The Development Council for Heavy Chemicals (Alkalies) was initially constituted in 1955 and it completed four years of tenure by the end of March 1959. During 1957, the Council was reconstituted under the Chairmanship of Shri C. R. Rao of M/s Tata Chemicals Ltd., who was also the Chairman of the first Council. The Council, during its four years of tenure of office, met several times and organised visits by its members to several factories falling within its purview.

Among the work done by the Council were the maintenance of systematic liaison on behalf of the industry with the offices of the Chief Adviser, Government of India, the Planning Commission, the Ministry of Transport and the Ministry of Labour. An examination of the targets for production in the alkalis group of industries, the co-ordinating of production programmes and the review of the progress of different programmes from time to time were the items which received priority. The programme for industrial development as relating to the alkalis group, appearing in the Government of India's Second Five-Year Plan, is in many cases based on the recommendations made by the Development Council. Statistics of production were obtained from manufacturers regularly and the Council kept itself informed of reasons for shortfall of production, if any. The chlorine problem received considerable attention and was discussed also with the Acids and Fertilisers Development Council.

An important function entrusted to the Council is the suggesting of norms of efficiency with a view to eliminating waste and obtaining maximum production, improving quality and reducing costs. A Sub-Committee of the Council made certain recommendations explaining in detail how efficiency was to be computed and submitted to the Council for purposes of comparison. On the basis of this, information was collected from different manufacturing units producing electrolytic caustic soda and its circulation among members was widely appreciated.

In the matter of fuller utilisation of installed capacity, suitable recommendations were made to the Government wherever there was shortfall from extraneous factors such as inadequate

supply, inadequate transport, inadequate coal allotment in a particular case, where expert assistance was asked for by a factory, a sub-committee of the Council made recommendations after a visit and these were found extremely helpful to the party concerned. Consistent with improvement in production efficiency, the Council also impressed upon the producers the necessity of ensuring adequate satisfaction to the consumer. The results of State trading in soda ash and caustic soda and their distribution through nominated channels were kept under regular review. Standardisation received similar attention and the Council co-operated with the work of the Indian Standards Institution in the matter of evolving Indian Standards.

Another important function performed by the Council was the collection and formulation of statistics relating to the industries covered by the alkalis group. The adoption of measures for increasing productivity of labour is a question still under consideration and the Ministry of Labour has been requested to conduct a survey of the wages, amenities and service conditions in heavy chemical industries in both the public and private sectors.

SULPHURIC ACID

Two new units with a total capacity of over 15,000 tons went into production in 1957.

The production of sulphuric acid registered an appreciable increase during 1958 as compared with the previous year, the total quantity actually produced being 227,000 tons, as against 191,688 tons in 1957.

The trend of production in tons is as follows:

1948, 80,004; 1949, 99,456; 1950, 102,480; 1951, 106,932; 1952, 96,084; 1953, 109,091; 1954, 150,876; 1955, 156,000; 1956, 165,406; 1957, 191,688; 1958, 227,000.

The Government fixed a ceiling price for sulphuric acid at Rs. 175 per ton ex-works, linking it to a price of Rs. 275 per ton for sulphur delivered to the works. Variations in the price of sulphuric acid have been provided for to allow for fluctuations in the price of sulphur.

The reduction in the price of sulphuric acid led to the closure of three chamber plants with capacities less than seven tons of acid per day. However, the capacity of 10 contact plants have been raised. The number of units on production has gone up from 35 to 37 during 1957, the installed capacity has gone up from 245,141 tons in 1956 to 273,101 tons per annum.

The annual consumption of sulphuric acid in different industries in 1955-56 was estimated at

160,000 tons and was estimated to rise to 470,000 tons by 1960-61. The following picture is expected to emerge at the end of 1960-61:—

	1955-56	1960-61
Annual rated capacity (tons of 100 per cent. acid)	242,000	500,000
Actual production (tons of 100 per cent. acid) ..	170,000	470,000

ALKALI INDUSTRY

The alkali industry comprises the manufacture of soda ash and caustic soda, sodium bicarbonate, bleaching powder, benzene hexachloride, liquid chlorine and zinc chloride.

As against the rated capacity of 90,000 tons per annum, the production of soda ash in tons was as under:—

1948, 29,148; 1949, 17,916; 1950, 43,788; 1951, 47,532; 1952, 44,328; 1953, 56,868; 1954, 48,288; 1955, 77,268; 1956, 84,240; 1957, 91,925; 1958, 86,300.

Three new licences for the production of soda ash were issued during 1955 and expansion of one of the existing plants was approved. With the implementation of the new schemes, the installed capacity would rise to 253,000 tons a year in 1960-61.

On the basis of the Tariff Board's report in 1951 the estimated consumption of soda ash was placed at 115,000 tons. This was expected to rise to 155,000 tons by 1955-56 and to 230,000 tons by 1960-61.

The import policy and the high prices since 1951 gave an impetus to this nascent industry though the heavy imports allowed in the first two years of the First Plan caused some temporary difficulties to indigenous producers owing to accumulation of stocks. Actual imports in tons were: 1951: 52,101; 1952: 112,147; 1953: 35,506; 1954: 94,544; 1955: 65,996; 1956: 90,966; 1957: 84,711.

The tariff protection to this industry has been extended up to the end of 1961.

The following table summarises the programme of development of the soda ash industry:—

	1955-56	1960-61
Number of units	2	5
Annual rated capacity (tons)	90,000	253,000
Actual production (tons) ..	80,000	230,000

In 1957 the production in tons of hydrogen peroxide was 611, of bleaching earth 1,715, of hydrochloric acid 11,897, of sodium bicarbonate 4,784.

Caustic Soda.—There were at the end of 1958, 15 units manufacturing caustic soda with an annual capacity of 67,185 tons.

Actual indigenous production of caustic soda and the associated chemicals in the post-war period was as under :—

Year	Caustic soda in Tons	Liquid chlorine in Tons	Bleaching powder in Tons
1953	22,908	8,136	1,944
1954	29,307	9,782	2,926
1955	34,248	11,680	2,700
1956	39,420	15,072	4,656
1957	42,708	15,696	5,340
Jan.-July 1958	31,200	9,480	3,529

Imports of caustic soda in tons were: 1954: 52,638; 1955: 54,881; 1956: 93,594; 1957: 66,042; Jan.-April 1958: 20,194.

The Second Five-Year Plan envisages that the installed capacity of the industry will rise from 44,300 tons in 1955-56 to 150,400 tons in 1960-61 and actual production from 36,000 tons to 135,400 tons.

Three new units would be set up. The 1950 demand for caustic soda is 124,000 tons and is expected to rise to 160,000 tons in 1961. In the case of bleaching powder the demand is 8,000 tons per year and it is likely to rise to 12,000 tons by 1961.

The production and consumption of superphosphates which received a setback in 1955 due to the fall in agricultural prices and rail transport difficulties recovered markedly during the years 1956 and 1957. Production was: 105,060 tons in 1954, 74,160 tons in 1955, 81,168 tons in 1956 and 141,684 tons in 1957. The production during 1958 was 181,000 tons. The aggregate installed capacity in August 1958 was 310,572 tons per annum.

But in view of the importance of this fertiliser and that of ammonium phosphate the target of consumption is put at about 120,000 tons by 1960-61.

1960-61 capacity of superphosphate: 6 lakh tons.

The estimated needs of potassic fertilisers are roughly 30,000 tons by 1960-61 and it may be possible to recover about 52,700 tons from all the salt works in the country. In 1955, the Indian Potash Supply Agency was formed with the approval of Government, which is expected to assist the development of the production of potassic salts from the bitterns of salt works.

MISCELLANEOUS CHEMICALS

The present position of some of the important products is as follows :—

—	No. of units.	Annual rated capacity in tons.	Actual production in tons.	
			1956	1957
Alum	15	10,280	4,420	5,116
Aluminium sulphate	23	59,477	29,625	32,812
Ferrous sulphate	9	1,899	458	635
Copper sulphate	11	3,300	1,980	1,886
Sodium thiosulphate	5	2,184	914	1,001
Sodium sulphite	4	854	343	374
Sodium bisulphite	5	1,419	716	674
Bichromates	7	6,518	3,267	3,671
Sodium bicarbonate	2	4,920	4,452	4,784
Potassium chlorate	2	2,310	2,276	2,287
Zinc chloride	5	1,876	958	750
Calcium chloride	3	2,861	844	1,320
Magnesium chloride	4	39,600	8,540	4,816

Protection for bichromates has been withdrawn with effect from 1st January 1959, while that for calcium carbide has been extended up to the end of December 1961.

The production of calcium carbide, which stood at 3,800 tons in 1954, roughly a third of the total requirements, is likely to go up to 20,000 tons in 1961. Two new units have been licensed while the two existing units are expanding their capacities.

The production of hydro-sulphite of soda, an important chemical for the textile industry, which has now to be imported at the cost of Rs 1 crore per year, was to begin for the first time in 1954. Two units which will go into production will have a capacity of 3,000 tons by 1961. This would meet about 60 per cent of the total requirements by the end of the Plan.

FERTILISERS

So far in India the inorganic nitrogenous fertiliser almost universally employed has been ammonium sulphate. There are at present eight units in West Bengal and Bihar with a rated capacity of about 425,000 tons of ammonium sulphate per annum. The Sindri factory went into production in November 1951.

The output of ammonium sulphate progressively rose from 45,395 tons in 1949 to 319,620 tons in 1953, to 340,222 tons in 1954 to 393,095 tons in 1955 and 399,017 tons in 1956. In 1957, however, there was a slight setback, the total output amounting to 379,656 tons. The production during the first seven months of 1958 was 221,231 tons.

Assuming country-wide application of nitrogenous fertilisers the annual needs would be about 12 million tons of ammonium sulphate.

In spite of the full utilisation of the capacity of the Sindri Factory, it has been necessary to import large quantities of nitrogenous fertilisers because of increasing demand. Production of ammonium sulphate at the Sindri factory went up from 321,000 tons in 1955 to 331,000 tons in 1956

and to 332,031 in 1957. A record production of 32,891 tons was reached during December 1957, giving a record daily average of 1,061 tons, the highest ever achieved.

The Fertilizer Production Committee submitted its report in 1955 and suggested suitable location for the establishment of new plants.

As a part of the plans made by the Government of India for increasing fertiliser supply to 370,000 tons per annum by 1960-61, progress is being made rapidly in the expansion of the Sindri factory for the production of ammonium sulphate and urea. A new unit with a capacity of 100 tons per day of superphosphate went into production during 1957. It has been decided to set up a third factory at Nelveli in South India. After the implementation of the schemes both in the public and private sectors, it is expected that the annual installed capacity will be 382,000 tons of fixed nitrogen and the production 290,000 tons by 1960-61.

On 15th May 1957, the Government of India brought into force the Fertilizers (Control) Order 1957, with a view to regulating supply of chemical fertilisers of the prescribed standard to cultivators at fair prices. The order empowers the Central Government to fix the maximum price at which any fertiliser may be sold by a manufacturer or a dealer in a particular area and for a specific class of consumer with due regard to local conditions and other circumstances prevalent in that area.

FINE CHEMICALS

The term "fine chemicals" is applied usually to substances such as photographic materials, drugs and pharmaceutical products, paints, pigments and varnishes, and dyestuffs. All the figures given below are in tons per annum except where otherwise stated.

The average annual demand has been estimated at 60 tons for calcium lactate, 80 tons for iron-ammonium citrate, 200 tons for potassium citrate and 50 tons for sodium citrate. Government have, on the Board's recommendation, converted the 36 per cent standard and 26 per cent preferential revenue duty on calcium lactate into a protective duty.

Production of bromine and bromides at one of the alkali works has been attempted and an annual output of 75 tons bromine, 36 tons potassium bromide and 14 tons sodium bromide has been recorded. The total installed capacity of bromides in 1957 was 211 tons and actual production was 138 tons.

Coal, tar and wood distillation products are not sufficiently exploited to manufacture fine chemicals and even the war-time production of methanol and formaldehyde has been recently curtailed. Synthetic fine chemicals are yet to be turned out in India on a commercial scale.

Photographic Materials.—The basic chemicals required for the photographic industry are: (i) gelatin, silver halides and sensitizers in the coating of film, plate and paper base, and (ii) hypo-sodium sulphite, hydroquinone and chrome alum in the processing stages.

Borax, boric acid, acetic acid and metal and photographic-grade sodium sulphite are still imported. The present capacity of sodium sulphite is 854 tons and output 374 tons which meets the full demand. Production capacity of 30 tons for potash chrome alum has been established. Hydroquinone is being manufactured in India since 1950 and the annual output is 25 tons. X-ray developing and fixing salts have been placed on the market since 1948.

Pre-war imports of raw film base into India were enormous, the film industry alone consuming some 80 million sq. ft. per annum. The Celluloid Industries Panel has recommended the installation of a factory for manufacturing 50 million sq. ft. of all types of raw film, and this should synchronise with the manufacture of gelatin, silver halides, sensitizers and other photographic materials in adequate quantities.

Chemical.	Production.			Main uses.
	1955	1956	1957	
Acetic acid (tons)	2,375	2,464	2,762	{ Rayon, white lead, lead acetate, dyeing, rubber solvent, explosives solvent, insecticide disinfectant, etc.
Acetone (tons)	423	633	694	
Benzene (gals.)	25,46,000	3,43,024	5,16,368	
Crescote oil light (gals.) ..	4,15,300	6,10,311	5,29,927	
Naphthalene (tons)	890	952	816	

There are at least 300 factories manufacturing paints and varnishes, but nearly 150 of them are very small in size. The bigger ones are concentrated in Bombay and Calcutta. Eighteen units with a capacity of 86,860 tons are in Calcutta, and 16 with an annual capacity of 18,860 tons are in Bombay.

The aggregate installed capacity of the paints and varnishes industry is 64,800 tons. Actual production during 1957 was 42,276 tons, as against 40,804 tons in 1956.

An excise duty was imposed on paints and varnishes at 10 per cent. *ad valorem* with effect from March 1, 1955.

It is estimated that the consumption of paints, varnishes and enamels may go up from about 40,000 tons in 1955-56 to 60,000 tons in 1960-61. The demand for nitrocellulose lacquers may rise from about 3,00,000 gallons to 5,00,000 gallons. The existing capacity for ready-mixed paints and varnishes, i.e., 65,000 tons, is considered sufficient to meet the demand during the Second Plan; so also the present capacity of 8,00,000 gallons for nitrocellulose lacquers.

The following table summarises the development programme of the industry during the Second Plan:

	1955-56	1960-61
(a) Ready-mixed paints, varnishes, etc.:		
Capacity (tons) ..	65,000	65,000
Production (tons) .. (est.)	39,000	60,000
(b) Nitrocellulose lacquers:		
Capacity (gals.) ..	800,000	800,000
Production (gals.) .. (est.)	300,000	500,000

DRUGS AND PHARMACEUTICALS

Drugs and pharmaceuticals cover a large variety of products from simple extracts of vegetable drugs and glandular preparations to highly complex synthetic drugs and antibiotics.

In the field of antibiotics, a penicillin factory was established in the public sector. The Hindustan Antibiotics, located at Pimpri near Poona went into production in August 1955 with a capacity to produce 3-6 million to 9 million mega units of penicillin per annum. The production target of 4-8 million mega units fixed under the first Five-Year Plan was exceeded, with the production of 6.5 million mega units in 1955. During 1957, output touched 23.50 million mega units. The capacity is being expanded by 60 per cent. Chloromycetin is being produced by Parke Davis & Co. from the penultimate levobase which is imported. Their plant has a capacity of 3,600 kgs. Actual output in 1957 was 1,673 kgs. Aureomycin is produced by the Atul Products from imported crude chlortetracyclin. The quantity actually produced in 1957 was 1,383.50 kgs. They have also taken up the manufacture of tetracyclin.

The manufacture of sulphadiazine has made substantial progress in the country. Twelve units, which are engaged in their production, are stated to have a combined capacity of 22,000 kgs. per annum, although their actual production has been far below this capacity.

Among the new drugs recently developed for the treatment of tuberculosis are para-amino salicylic acid (PAS) and isonicotinic acid hydrazide (INH). But their production has been very erratic, being 29,577 lbs. and 94,827 lbs., respectively, in 1957, as against 8,945 lbs. and 9,361 lbs. in 1956.

Three manufacturers produce at present antileprosy drugs such as DDS and its derivatives. They have a total capacity for 17,040 lbs. of DDS. Actual output in 1957 was 4,244 lbs.

Quinine, the most extensively used anti-malarial drug, has been produced in the country in the factories established by the West Bengal and Madras Governments. During the First Plan period the Madras Government established a new factory at Annamalai with a capacity of 80,000 to 10,000 lb. of quinine salt. Besides, some synthetic anti-malarials such as chloroquin and its salts are produced in India. There are three units engaged in their manufacture, with an estimated capacity of 1,890 kgs. per annum.

There are three manufacturers of anaesthetics with a total capacity of 1,584,000 lbs. of ether, 120,000 lbs. of chloralhydrate and 72,000 lbs. of ethylchloride. Actual production in 1957 was 345,321 lbs., 37,955 lbs. and 32,179 lbs., respectively.

Among insecticides, DDT is produced on a commercial scale. The factory of the Hindustan Insecticides in Delhi went into production in March 1955. Production in 1956 was 500 tons. The capacity of the factory has been doubled. Another D.D.T. factory is now being erected by the Government of India at Alwaye in Kerala with an annual capacity of 1,400 tons. This factory was expected to commence production in 1958. The total production of D.D.T. in 1957 was 1,784 tons (50 per cent formulation). Two factories manufacture benzene hexachloride with an annual capacity of 2,500 tons. Actual output in 1957 was 1,162 tons.

Shark liver oil is produced in factories set up by the Governments of Bombay, Madras and Kerala. The existing factories have an estimated capacity of 70,000 gallons per annum of 6,000 I.U. of vitamin 'A'. Actual output in 1957 was 49,068 gallons.

Still imports of drugs and pharmaceuticals continue to be considerable, particularly penicillin and other antibiotics, sulphadiazine, anti-malarials, vitamin preparations and proprietary and patent medicines. The total value of imports stood at about Rs. 10 crores in 1950-51, Rs. 15 crores in 1951-52, Rs. 11 crores in 1952-53, Rs. 12 crores in 1953-54, Rs. 13 crores in 1954-55, Rs. 15 crores in 1955-56 and Rs. 16 crores in 1956-57. The value of imports during the calendar year 1957 was Rs. 16.39 crores and, in the first eight months of 1958, it was Rs. 7.16 crores.

A number of measures have been taken by the Government of India for stimulating exports of Indian medicinal and pharmaceutical products. An Export Promotion Council for chemicals and allied products has been set up for the purpose and grants in aid are given to the Council for pushing up exports.

A special licensing scheme has been evolved for export promotion. Under this, prospective exporters, who accept a definite target of exports, are granted licences for importing necessary raw materials and accessories. Import duties collected on the imported raw materials and excise duties levied on materials used in the manufacture of exported pharmaceuticals are refunded to exporters. With the co-operation of the Indian manufacturers, certain items of indigenously produced raw materials are being made available to exporters at concessional prices.

Provision is made in Trade Agreements with foreign countries for exports of Indian pharmaceuticals.

The Ministry of Commerce and Industry appointed a Committee in February 1953 and the Committee submitted its report in June 1954, making a number of recommendations to improve the existing conditions in the pharmaceutical industry. In 1956, the Government set up a Developmental Council for the industry.

The requirements of drugs and pharmaceuticals are very large in India. Hence, schemes are included in the Second Plan for the expansion of the production of various drugs and medicines.

Some of the important schemes are listed below:

The factory at Pimpri proposes to expand its capacity for penicillin manufacture to 24 million mega units per year at a cost of Rs. 42.35 lakhs. Besides, this concern has under consideration the manufacture of certain other antibiotics like streptomycin. In the private sector, the Alembic Chemicals, Baroda, have a scheme for the establishment of a penicillin factory with a capacity of 4-8 million mega units per annum and the Standard Pharmaceutical Works, Calcutta, for the production of 1-8 million mega units of penicillin and 180 kg. of streptomycin. Besides, the Rambaxy & Co., Faridabad, have also been given a licence to set up a plant for the manufacture of 3,000 kgs. of chloromphenicol as also the Mac Laboratories, Bombay for the manufacture of 500 kgs. per annum.

Two firms, Fedco, Bombay and Sarabhai Chemicals, Baroda, have been granted licences for the manufacture of procaine hydrochloride with an annual capacity of 60,650 kgs.

Three new schemes were licensed during 1956-57 for the manufacture of chloramphenicol. The production of isonicotinic acid hydrazide has commenced. About 200 lbs. were being produced a month.

The following projects have been proposed by the Soviet team of drug experts:

1. An anti-biotics plant to produce not only a large quantity of penicillin but also streptomycin, tetracyclin and new antibiotics.
2. A synthetic drugs plant to produce a large number of sulphadiazine, anti-tubercular drugs, analgesics and antipyretics and a number of vitamins, and equipped also to produce special intermediates required for their manufacture.
3. A medical plants laboratory and factory to produce a large number of important drugs from medicinal plants.
4. A unit for the manufacture of glandular products, such as insulin, A.C.T.H., pituitrin.
5. A workshop for the manufacture of most of the important types of surgical instruments required in large numbers.

The total capital investment, excluding the investment on land, township and working capital, on the five drug units indicated above is placed at about Rs. 28.7 crores.

PROTECTION

Protection for hydro-quinone, stearic acid, oleic acid will expire on 31st December 1959; for calcium lactate on 31st Dec. 1960; for titanium dioxide on 31st December 1961; and for dyestuffs on 31st December 1964.

Protection to caustic soda will be extended upto 31st December 1961.

Exports: Exports of medicinal and pharmaceutical products from India in 1957 amounted to over Rs. 1.01 crores. In the first six months of 1958, exports were valued at Rs. 41.12 lakhs.

Indian pharmaceutical goods are now exported to Pakistan, Nepal and countries in South-east Asia and West Asia.

COFFEE INDUSTRY

COFFEE cultivation is mainly confined to the hilly tracts of south India, from one thousand to six thousand feet above the mean sea level, and is centred in the Malnad area of Mysore, Madras and Kerala. In the lower elevations, which have a higher rainfall, the more delicate but better quality Arabica coffee has given place to the harder but coarser Robusta coffee.

The capital investment in the industry is estimated to be over Rs. 18 crores and the average annual value of the crop is over Rs. 17 crores. Nearly 202,000 people drawn chiefly from Kerala, parts of Mysore and Madras are employed in the industry. Many of the coffee estates are inter-planted with orange trees, cardamom and pepper vines. There are only two types of coffee grown on commercial scale in India, the one most extensively cultivated being Coffee Arabica, the best in quality, with Robusta coming next in importance. About 50 species and sub-species of coffee are being grown in the Coffee Board's research stations.

The area and production, of the two varieties of coffee from 1951 are as under:

AREA IN THOUSAND ACRES

Year	Arabica	Robusta	Total
1951-52 ..	168	67	235
1952-53 ..	168	72	240
1953-54 ..	169	77	246
1954-55 ..	167	85	252
1955-56 ..	162	92	254
1956-57 ..	160	100	260

PRODUCTION IN TONS

Year	Arabica	Robusta	Total
1951-52 ..	14,390	6,546	21,235
1952-53 ..	12,740	10,825	23,565
1953-54 ..	22,740	6,815	29,555
1954-55 ..	16,165	8,840	25,025
1955-56 ..	22,605	11,870	34,475
1956-57 (E)	29,260	12,740	42,000
1957-58 ..	29,130	14,300	43,430

E. Estimates

Increase in production has been followed by a rise in exports and internal consumption.

The following table gives the trend of exports:

Year	Exports in Tons*
1951-52 ..	2,300
1952-53 ..	3,000
1953-54 ..	9,613
1954-55 ..	3,535
1955-56 ..	7,954
1956-57 ..	15,224

* Out of the season's crop.

The latest estimate of the total production of coffee for 1956-57 also puts it at the record figure of 42,000 tons.

The revised estimate of the production in 1957-58 is also 43,430 tons (29,130 Arabica, 14,300 Robusta).

The consumption in 1955 was 22,288 tons.

There is no export duty on coffee at the moment.

The possibility of further expansion of the coffee industry has been receiving Government's active consideration. An Officer on Special Duty had been appointed to conduct a field survey of the vast undeveloped areas in the South.

This officer completed his survey in October 1957 and submitted his report to the Government of India in November 1957. This is under the consideration of the Government.

The average Pool sale prices per cwt. for 1951 to 1957 years were as follows:—

Year	Plantation 'A'	Arabica cherry Flats	Robusta cherry Flats
	Rs. a.	Rs. a.	Rs. a.
1951	218 11	197 14	196 6
1952	251 11	220 5	200 11
1953	219 4	188 14	150 1
1954	205 3	164 2	146 5
1955	217 5	180 11	158 14
1956	218 7	182 10	157 4
1957	222 70 nP.	185 97 nP.	162 11 nP.

COFFEE BOARD

To stimulate internal consumption and to regulate exports a statutory body, now known as the Coffee Board, was set up under the Coffee Market Expansion Board. One of the serious problems the Board had to contend with in 1955 was the growing rise in the prices of coffee which advanced from Rs. 207 per cwt. of plantation type in April 1952 to a record level of Rs. 316 per cwt. in the following September. The Board effected increased sales of coffee and banned exports. In December 1952 a Bill was introduced in Parliament to amend the Act of 1942 for the purpose of ensuring better co-ordination between the Board and the Central Government and of providing adequate representation of consumer interests on the Board.

The Coffee Market Expansion (Amendment) Bill, 1954, was passed in November 1954. The bill provided for greater control by the Union Government over the Coffee Board and the industry as a whole.

AVERAGE INDEX NUMBERS OF WHOLESALE PRICES OF COFFEE

(Price for week ended August 19, 1939 = 100).

Year	Index
1950	478
1951	567
1952	680
1953	620
1954	546 8°
1955	616 1°
1956	635 24

* Geometric mean of monthly averages.

MARKETING

Under the existing scheme of Coffee Control, all coffee estates in the country, big or small, are required to get themselves registered and to deliver the entire production, except quantities allowed for domestic consumption and seed purpose, to a Common Pool administered by the Coffee Board. Growers are paid in proportion to the value of coffee delivered to the Pool after deducting the cost.

The quantities of coffee released from the Coffee Pool for the internal market were 22,288 tons in 1955, 23,807 tons in 1956 and 26,202 tons in 1957.

Plantation Enquiry Commission

The Report of the Plantation Inquiry Commission (as the Committee was called) on coffee was published in the last week of November 1956. It observes that, although the total production of coffee in the country has increased considerably during the past 15 years, production per acre has not made any marked increase. The average yield is still just about 60 per cent. of the average yield in most of the coffee-growing countries of the world. Therefore, the Commission recommends that the yield from existing acres must be intensified at economic cost by the use of better strains of seeds, more manures and sufficient spraying against pests and diseases. With a view to regulating the internal distributive trade, the Commission has suggested the formation of a separate organisation under the aegis of the Board for manufacturing and marketing coffee powder. It may be stated here that the Board is already manufacturing and selling coffee in powder form. On the question of extension of arranges, the Commission recommends extension upto the minimum necessary to meet the growing internal demand and to maintain and develop the export markets. Statutory regulation of licensing of cultivation and production has been suggested in this connection. Another recommendation is that a coffee replanting fund should be instituted and that estates should be required to contribute a fixed sum annually to this fund.

These recommendations are under the consideration of the Government of India.

Expert Committee

In 1956 the Government of India appointed an Expert Committee consisting of Mr. A. N. Sattanathan as Chairman, Mr. K. Radcliffe and Mr. K. Ramaswamy as members, and Mr. G. S. Srinivasan, Chief Coffee Marketing Officer of the Board as Member-Secretary for reviewing the system of marketing adopted by the Coffee Board in the light of steadily increasing yearly production of coffee and making appropriate recommendations. They were to submit their report within six months.

COIR INDUSTRY

COIR is the trade name given to the fibre obtained from the husk of the coconut fruit. This golden coloured fibre is also known in Europe as "Coco Fibre".

India and Ceylon have a virtual monopoly in the production of this by-product of the coconut industry.

India produces about 4,370 million coconuts a year. The area under coconut cultivation is 15.87 lakh acres.

In India the coir industry is practically confined to the coastal strip of Kerala State. It accounts for over one million acres of the coconut growing areas out of a total of 1.525 million acres in India. The distribution of the area under cultivation and production of coconuts (inset available) is roughly as follows:—

	Area in acres.	Production Percentage.
Madras* ..	605,765	41.3
Travancore ..	584,736	37.8
Cochin ..	67,058	4.3
Mysore* ..	170,180	11.3
W. Bengal ..	31,300	1.4
Orissa ..	30,021	1.8
Bombay* ..	29,197	1.8
Other States ..	7,592	0.3
	1,525,759	100.0

*Pre-reorganization.

The coir industry is organised partly on cottage basis and partly in factories. The production of coir fibre, yarn and ropes is essentially a cottage industry, while coir mats, mattings, rugs, carpets, bags, etc. are manufactured in factories.

About 100,000 families earn their livelihood in this industry on the Kerala Coast.

There are two principal types of coir fibre—mat fibre and curled fibre. The bulk of the output consists of mat fibre. The yarn spun by hand is soft and even twist, while that spun on wheels is hard twist and not so even as hand spun. Wheel spinning is gradually displacing hand spinning. Spinning is mainly done by women, boys and girls. Over 100,000 families are employed in this trade in Travancore alone.

Coir yarn has certain well-known trade descriptions. They are: (1) Angengo—Superior and Ordinary; (2) Mangadan; (3) Carruva; (4) Alapat—Real and Imitation (Aashamudy); (5) Vyooma; (6) Beach; (7) Roping; (8) Quillandy; (9) Beypore; and (10) Unsoaked—Fine unsoaked and unsoaked.

The yarn produced in the spinning districts is marketed chiefly in Alleppey where there are a large number of factories for the manufacture of mats, mattings, rugs and carpets and also exporters of yarn.

Over 130,000 tons of fibre are estimated to be produced annually.

The annual production of coir yarn is estimated at 120,000 tons, of which wheel-spun yarn accounts for 80 per cent.

On an average, 23,000 tons of coir yarn are utilized in the manufacture of coir floor coverings such as mats and mattings. 55,000 tons are exported as coir yarn; and about 42,000 tons are consumed in India itself for various purposes including manufacture of ropes and cordages.

It is estimated that there are well over 500 factories large and small with over 16,000 looms for mats and mattings. The labour force is reckoned at over 15,000.

Exports of coir products earn about Rs. 9 crores of foreign exchange every year.

The coir industry in India is subject to violent fluctuations in prices and exports, causing often hardship to a large section of the population. This induced the Government of India to set up a Coir Board by special legislation called the Coir Industry Act, 1953.

The Act also provides for the control of the industry by the Union Government and for the levy of a customs duty on coir fibre, coir yarn and coir products.

At present, the duty is levied on coir fibre and coir yarn only at the rate of eight annas per cwt. The annual revenue on this account comes to about Rs. 5 lakhs.

The Coir Board was established on July 8, 1954. Its chief function is the improvement of markets at home and abroad, thereby establishing a balance between internal consumption and exports so as to give the industry the required economic stability. The Board will discharge its functions in accordance with the rules framed by the Central Government.

The Second Five-Year Plan Schemes relate to the establishment of Research Institutes, sending out foreign delegations for market survey and study the uses of yarn in importing countries, opening of show-rooms and sales-depots, and propaganda.

A scheme has now been sanctioned for the establishment of a Coir Research Institute near Alleppey and a branch Institute in Calcutta at a total cost of Rs. 20-28 lakhs during the Second Plan.

In view of the importance of the coir industry as a foreign exchange earner, the Government of India has enhanced the overall allocation for development of the industry for the Second Plan period to Rs. 1.70 crores, against Rs. 1 crore originally provided in the Second Plan.

The allocation for State schemes has been increased from Rs. 70 lakhs to Rs. 1.40 crores.

EXPORTS

The total exports during 1957 were 77,510 tons valued at over Rs. 8.40 crores as against 80,640 tons valued at Rs. 8.74 crores in 1956.

Export of coir yarn, mats and mattings, ropes and other sorts of coir are detailed below:—

								(Tons)	
Year.								Coir yarn.	Coir mats and mattings.
1953-54	..	..	..	..	..	..	..	55,570	13,486
1954-55	..	..	..	..	..	..	..	53,428	14,505
1955-56	..	..	..	..	..	..	..	54,162	13,936
April-Dec. 1956	..	..	..	..	..	..	..	46,404	10,266
1957	..	..	..	..	..	..	..	54,282.2	14,123.9
Jan-Aug 1958	..	..	..	..	..	..	..	30,401.8	7,980.2
									Coir ropes.
									Other sorts.
									7,031
									8,532
									6,117
									3,637
									6,554
									5,285.7

COTTAGE INDUSTRIES AND HANDICRAFTS

TOTAL allotment for small-scale and cottage industries under the First Five-Year Plan: Rs. 31.2 crores.

Second Plan - Rs. 160 crores.

The financial provision made in the Second Five-Year Plan was originally Rs. 200 crores. This did not include expenditure on the Amber Charkha programme and other working capital requirements. The Village and Small Scale Industries Committee (Karve Committee) had recommended programmes and allocations involving a total outlay of Rs. 260 crores.

When later all allotment were scaled down the total assigned for the cottage industries and the Amber Charkha came to Rs 160 crores

It is customary to refer to industries which are not required to be registered under the Factory Act as cottage and small-scale industries. There is no accepted line of distinction between cottage and small-scale industries but the use of mechanical power is one of the popular tests. A rough and ready definition now provided is that all those industries which employ up to 50 workers and use power or those which employ 100 workers and do not use power, are called small-scale industries.

An investment upto Rs 5 lakhs and not more than 50 workers a shift is also regarded as a demarcation

The data about their strength is extremely meagre. It is, however, very roughly estimated that at least 24 million persons are gainfully employed in these industries classified as under:—

Name of Industry	Persons employed in lakhs.
Textiles	75
Leather	24
Wood	21
Metals	42
Pottery, Ceramics Tiles, Bricks, etc.	20
Vegetable Oils, Chemical Products, etc.	10
Food including Hand-pounding ..	20
Dress and Toilet	11
Miscellaneous including jewellery and toy making	17
TOTAL ..	240
	(Estimated)

In order to encourage more effectively the development of cottage and small-scale industries, the All-India Cottage Industries Board, constituted in 1948, was replaced by two Boards, viz., The All-India Handicrafts Board and The All-India Khadi and Village Industries Board. The former was constituted in November 1952, and the latter in February 1953.

Towards the end of 1952 the Government also constituted the All-India Handloom Board, to deal specifically with problems affecting the handloom industry.

In 1957 Government set up by an Act a Khadi and Village Industries Commission. The original Board was reconstituted and turned into an advisory body to the Commission.

In the Government of India the Development Wing of the Ministry of Commerce and Industry is responsible for all small-scale industries.

The primary objective of the policy laid down under the First Five-Year Plan is the development of cottage industries through the organization of industrial co-operatives. Wherever a large scale industry competes with a cottage industry, a common production programme should be evolved.

The programme may cover (a) reservation of spheres of production, (b) non-expansion of the capacity of a large-scale industry, (c) imposition of a cess on products of a large-scale industry, (d) arrangements for the supply of raw materials and (e) co-ordination for research, training, etc.

* See also under "Textile Industry".

A common production programme has so far been accepted only in the case of ghandi oil and the processing of cereals and pulses.

To carry out research, the establishment of an institute for village technology has been recommended by the Planning Commission.

Finance for the development of village industries has to be viewed as a problem inseparable from finances for agriculture. The formation of industrial co-operatives is, therefore, considered essential. Meantime, the responsibility for revitalising village industries has devolved on the Government.

A cess of three pies per yard has been levied on all mill-made cloth consumed within the country and is expected to yield every year about Rs. 6 crores. Schemes for the development of khadi and handlooms are to be financed out of this resource, though finances for Khadi development programmes are drawn both from the cess fund and the general revenues.

In the States the First Five-Year Plan provided Rs. 12 crores for cottage and small-scale industries. The responsibility for organizing industrial co-operatives lies on the State Governments.

Under the Second Plan there is a fund called the Village Industries Fund.

In February 1955, a Small Industries Corporation, designed to assist small industries, was registered as a private limited company under the auspices of the Government of India. The Corporation will accept contracts for supplying orders to Government and issue sub-contracts for these goods to small-scale industries. The Corporation also undertakes and guarantees loans to such units from banks and has an authorized capital of Rs. 10 lakhs subscribed entirely by the Government of India.

THE COMMISSION

In November 1956 Parliament passed the Khadi and Village Industries Commission Act (Act 61 of 1956) and the Commission was constituted on April 1, 1957.

Members:

Vaikunth L. Mehta (Chairman), Pranal S Kapadia (Secretary), R. Srinivasan, Sriman Narayan, Dwarakanath V. Lale.

The functions of the Commission will generally be to plan, organize and implement programmes for the development of Khadi and Village Industries.

The Schedule of Industries included in the Act and which comes under the purview of the Commission is as follows: Bee-keeping; Cottage Match Industry; Cottage Pottery Industry; Cottage Soap Industry; Flaying, curing and tanning of hides and skins and ancillary industries connected with the same and cottage leather industry; Ghandi Oil Industry; Hand-made Paper; Manufacture of Cane-gur and Khandeeri; Palm-gur making and other palm-products industry; Processing of cereals and pulses; Fibre (other than Coir); Blacksmithy and Carpentry.

TRADITIONAL KHADI*

Khadi is defined as cloth, cotton, wool or silk or any mixture of these, woven out of yarn handspun in India. Cotton Khadi used to be made out of yarn produced on traditional charkhas till 1956-57. During 1956-57 the Commission introduced the Amber Charkha to produce better quality yarn. Since then the two schemes have been in operation side by side.

The Commission disbursed Rs. 546.48 lakhs for the development of traditional Khadi during 1956-57 and 466.45 lakhs during 1957-58. Substantial progress has been made during the two years in traditional Khadi.

Production increased from 23.08 million sq. yds. valued at Rs. 7.28 crores in 1956-57 to 53.13 million sq. yds. valued at Rs. 10.16

crores during 1957-58, an increase of about 40 per cent in the quantity of production. The production of traditional Khadi is expected to go upto 60 million sq. yds. by the end of the Second Five Year Plan.

Sales of Khadi also increased during the period from Rs. 6.19 crores to Rs. 7.78 crores, showing an increase of about 26 per cent. Of the total sales, about 10 per cent was purchased by Government.

By the end of 1957-58, 9.75 lakh spinners, 93,000 weavers and 53,000 dyers, carpenters, printers, etc. were employed in the industry.

The number engaged in these occupations when the All India Khadi and Village Industries Board took over Khadi development work in 1953, was a little over 300,000.

In the matter of handloom production there are no statistics of employment.

It is estimated that there are about 28 lakhs of looms in India. Each loom provides employment to about three persons. There are thus about 75 lakhs employed in this industry.

On an average the production is 1,500 min. yards a year, a third of the mill production.

The estimated production of handloom cloth (traditional and otherwise) during 1957 was 1,679 million yards. During the first seven months of 1958, the production from indigenous yarn was 1,029 million yards.

Certain varieties are reserved for handloom sector (coloured saris, dhotis, towels, sheets, himroos, lungis, table cloths, turkish towels, napkins, etc.).

The Second Plan target is 2,300 min. yards.

The number of co-operative societies was about 5,000 in June 1958. These had 10 lakh looms in their fold. The number of co-operative marketing emporia was about 1,450.

Handloom exports earn about Rs. 8 crores. The more important markets are Ceylon, Singapore, Nigeria. Government sponsored emporia exist in Ceylon, Singapore, Aden, Bangkok, Rangoon. There is a rising demand from America and other western countries.

A Handloom Fabrics Marketing Society exists to promote inter-State and export marketing.

The loans and grants respectively made by the Central Government to the State were: Rs. 251 lakhs and Rs. 337 lakhs for 1956-57 and Rs. 161 lakhs and Rs. 306 lakhs for 1957-58.

The position at the end of March 1958 about marketing schemes was as follows:

Schemes	Amount sanctioned (Rs. lakhs)	No sanctioned	No. opened
Sale depots ..	57	1,695	1,595
Inter-State depots ..	5	33	25
Central depots ..	1.44	49	37
Mobile vans	15.4	37	37
Hawkers ..	0.48	66	59
Push carts and trolleys	1.25	54	51
Sales depots in big cities	12	2	—

AMBER CHARKHA

In pursuance of the recommendations of the Small-Scale and Village Industries (Second Five-Year Plan) Committee, popularly known as Karve Committee, and the Amber Charkha Enquiry Committee appointed by the Government of India (Khara Committee), the Government of India approved in principle an experimental programme for the introduction of Amber Charkhas during the Second Five-Year Plan.

During 1956-57, the Commission distributed 45,000 Ambar Charkhas for independent operation by trained spinners. The number increased to 1,48,000 in 1957-58.

The Commission disbursed Rs. 93.71 lakhs as grants and Rs. 175.49 lakhs as loans during 1956-57 and Rs. 175.44 lakhs as grants and Rs. 474.89 lakhs as loans during 1957-58, for the implementation of the Ambar Charkha Programme.

The production of yarn and cloth during the two years were:

Year	Yarn (Million lbs.)	Cloth (Million Sq. Yds.)
1956-57	0.7	1.88
1957-58	2.5	11.15

The Ambar Charkha Programme provided additional employment to about 145,000 spinner families, 8,300 weaver families and about 14,000 others in ancillary processes during the two-year period of its operation.

VILLAGE OIL

India is the second largest producer of oilseeds in the world and leads all other countries in respect of acreage under oilseeds.

Mills and ghanis are the two sectors in the oil industry in the country. According to one estimate included in the Report of the Oilseeds Crushing Industry Inquiry Committee (1956), the percentage of major oilseeds crushed in ghanis and those crushed in power mills is as follows:

Seed	Ghanis per cent	Mills per cent
Groundnut	20	80
Neamum	83	17
Rape and Mustard	37	63
Linseed	30	70
Castor-seed	0	100

* (a small quantity is also crushed in ghanis)

According to the Report of the Indian Central Oilseeds Committee, there are, 7,597 oil mills in the country. The number of ghanis in the country was 446,000 in 1951 according to the Livestock Census (1951).

Although accurate information on employment in the organised sector is not available, it is estimated at 103,000 persons.

Ghanis, on the other hand, provide employment to a considerably larger number. On the assumption of one toll to a ghani, the number of persons engaged in the village oil industry would be 4.46 lakhs.

The Commission's development programme for the village oil industry envisages improved ghanis and improved techniques, financial assistance and the supply of oilseeds.

Loans and subsidies are given for the establishment of model demonstration-cum-production centres, ghani manufacturing workshops and training centres. Improvement of ghanis is aided by 50 per cent loan and 50 per cent subsidy. Recognised institutions are also given loans for stocking oilseeds.

During the First Five Year Plan period, the total amount spent for the development of the industry was Rs. 80.96 lakhs. The production of oil during this period amounted to 69,495 B. Maunds, providing employment to 8,807 tolls.

Funds were disbursed for setting up 164 model production centres and for the supply of 1,038 improved ghanis, 7,097 old and 1,846 new ghanis were registered with the former All India Khadi and Village Industries Board during the period

In 1955-56 the production of oil was estimated at 64,495 Maunds.

During the first two years of the Second Plan, Rs. 151.31 lakhs were disbursed. The number of model centres set up increased to 126 by the end of 1957-58. 3,857 additional improved ghanis were distributed during the two years 1956-57 and 1957-58, in addition to 25,457 traditional and improved ghanis registered by the Commission.

The scheme provides for the registration of selling agencies so as to ensure distribution of rebates—subsidies to the appropriate persons. 3,481 such agencies were registered during the period. Production of oil, according to the available data, amounted to 6.41 lakh B. Maunds. The number of persons trained upto 1957-58 was: 293 inspectors, 214 mistris, and 1,218 tolls.

Development Programme

On the recommendation of the Oilseeds Crushing Industry Inquiry Committee and the Small Scale and Village Industries (second Five Year Plan) Committee, Government of India have formulated a common production programme for the development of the oil industry in the country.

An excise duty of Rs. 112 per ton is levied at present on all varieties of vegetable non-essential oils (excluding cotton-seed oil for which the duty is Rs. 56 per ton) produced by mills. On the other hand, a production subsidy is paid at the rate of Rs. 1.87 per maund of oil produced by village ghanis. In addition to these measures, the Government of India have recommended preferential treatment to ghani pressed oils and State Governments have been advised to follow the same line.

Preference is to be given to ghani pressed oil for use in hospitals, jails, police establishments, messes, hostels etc. Concessional railway freight is to be given for ghanis and allied equipment, and replacement of handpresses by phased programme is to be undertaken with the introduction of Wardha Ghanis.

The development of the vegetable oil industry depends in part on the possibilities of diverting larger supplies of edible oil seeds to ghanis for crushing and on the possibilities of inducing oil mills to utilize greater quantities of cotton seeds. In the Second Five Year Plan, the Board has proposed extension of assistance to one lakh tolls on ordinary ghanis and fifty thousand tolls on improved ghanis to purchase shares of co-operative societies with a view to improving their operative conditions. 400 Model Centres are proposed to be organized and 400 filter presses will be distributed among these centres. The total cost of the programme is estimated at Rs. 6.7 crores excluding working capital.

The development programme when implemented will provide employment to 1.5 lakh tolls and distribute Rs. 36.70 crores as wages over the Plan period. Total production of oil over the Plan period is estimated at 8.3 lakh tons of oil, 13.53 lakh tons of oil-cake, collectively valued at Rs. 200.63 lakhs.

The implementation of the programme depends on the provision of direct assistance for marketing of oil. To encourage tolls working on the improved ghanis to form themselves into co-operative societies and to market their oil through them and also to offer partly the price differential between mill and ghani oil, the Board has proposed a subsidy of Rs. 1.14-0 per B. Maund of oil sold.

Besides providing direct employment to tolls, the industry will provide employment to 8,000 people and many other artisans like carpenters, blacksmiths, etc.

PROCESSING OF CEREALS AND PULSES

In 1957-58 the Government of India changed the nomenclature of the industry from 'hand-pounding of rice' to 'processing of cereals and pulses industry'.

Processing of rice is an important village industry. It processes about 65 per cent of the

paddy. The First Five-Year Plan aimed at improving the hand process for increased recovery of rice and production of bran in a pure form by introducing paddy husking stone chakkis in place of the pounding method.

The Rice Milling Committee (1954) and the Village and Small-Scale Industries (Second Five-Year Plan) Committee (1956) have made recommendations regarding the development programme for this industry. In pursuance of the recommendations of the Rice Milling Committee, Government of India decided, in the year 1957, that licensing of all power driven rice mills should be introduced and a census of all such mills should be taken. They have further decided that no new mill should be allowed to be set up and no expansion of the existing capacity of the mills be permitted unless the State Government concerned is satisfied that it is necessary to do so for the purpose of ensuring adequate supplies and that, in such cases, preference should be given to sheller mills. To ensure this, an Act was passed in May 1958—The Rice Milling (Regulation) Act.

The Government of India have also directed that the milling of rice should be restricted to 5 per cent removal of the bran with a minimum 3 per cent.

The development programme of the Commission envisages the introduction of improved techniques, provides for the establishment of marketing depots to ensure the regular supply of handpounded rice to urban areas, of training facilities for persons to organise production, mistris to manufacture chakkis, dhenkis and other implements and for the constitution of nutrition committees in selected urban areas to popularise consumption of handpounded rice.

The specific schemes of assistance relate to the subsidised distribution of improved implements, a production subsidy at 37 naye paise per maund of paddy dehusked and loans for stocking paddy and for manufacturing and stocking implements.

For the implementation of the Atta Chakki Scheme Rs. 2.83 lakhs were disbursed and 13,770 chakkis and 80,073 sets of ball-bearings were distributed during the two years 1956-57 and 1957-58.

The Karve Committee recommended the imposition of an excise duty on the output of mills and the payment of a subsidy to hand-pounders to reduce the price differential between hand-processed and mill processed-rice. A subsidy of As. 6 per B. Maund is paid on production through co-operative societies and registered, recognised institutions. The recommendation of the Rice Milling Committee for the imposition of a cess at As. 6 per maund of paddy milled in rice mills has not been accepted by Government.

During the First Five-Year Plan period the total expenditure on the development of this industry amounted to Rs. 39.61 lakhs. 12.70 lakh B. Maunds of paddy have been dehusked providing seasonal employment to 13,050 hand-pounders, 1,224 chakkis, 196 Dhenkis and 161 winnowing fans have been distributed among various production centres.

During the first two years of the Second Five-Year Plan, the total expenditure on the development of this industry amounted to Rs. 45.62 lakhs. There were 365 co-operative societies and 303 registered institutions organising the industry at the end of 1957-58, among whom 4,864 chakkis of all types, 459 dhenkis and 401 winnowing fans were distributed. Production during the two years 1956-57 and 1957-58 amounted to 24.59 lakh mda. 525 persons were trained under the Commission's Central Training Scheme at Nadia and the State Training Scheme.

The Second Five-Year Plan envisages the processing of 4 million tons of paddy through the manufacture and distribution of 43,000 chakki-dhenki units, 142,000 improved (Anam) dhenkis and 1,600 winnowing fans over the Plan period. The implementation of the Rs. 5 crore development programme will provide

seasonal employment for 5.78 lakh persons and distribute Rs. 23.06 crores as wages over the Plan period.

The programme also envisages the training of 600 supervisors and 1,000 mistries to meet the requirements of trained personnel for the implementation of the programme.

The popularisation of hand-pounded rice and the organisation for its regular supply to urban areas constitute important parts of the programme. Over the Plan period the programme provides for the constitution of 200 nutrition committees to carry on intensive propaganda through trained nutritional guides, and the organisation of 200 city and 300 town depots.

BEE-KEEPING

Bee-keeping is concerned with the rearing of bees of the species of *Apis indica* for the purpose of collecting honey. As such, it is a cottage industry.

The development of this industry was undertaken in selected areas like Madras, Bombay, Uttar Pradesh, Punjab, Mysore and Kerala.

The more important features of the development programme are: Scientific collection and marketing of wild honey; utilisation of honey in the manufacture of jams, jellies, syrups, ayurvedic medicines etc.; improved marketing arrangements; formation of co-operatives; aid to professional bee-keepers and establishment of model apiaries; and the training of fieldmen and apiarists.

Moreover, the Commission provides for training in schools which introduce bee-keeping courses, and also for training of persons who wish to set up apiaries.

During 1953-54 to 1955-56, Rs. 9.36 lakhs were spent for the development of the industry 67,680 lbs. of honey were produced during the First Plan Period. 13 area offices, 140 sub-stations, 23 model apiaries and 5 model production centres were organised. Seasonal employment was provided to 4,700 persons. 29,770 beehives were distributed to farmers at subsidised rates.

During the first two years of the Second Plan, the Commission disbursed Rs. 18.75 lakhs for the implementation of the scheme. 24 area offices and 270 sub-stations were added and 49 additional school units were set up.

At the end of 1957-58, there were 34 model apiaries in the country. 91,347 bee-colonies were distributed. Production of honey during the two years amounted to 4.29 lakh lbs. valued at Rs. 7.93 lakhs. Employment was provided to 10,849 persons in 1956-57 and 16,732 persons in 1957-58. Sales of honey during the two years amounted to 4.29 lakh lbs. 405 persons were trained as fieldmen.

During the Second Five-Year Plan period, the All India Khadi and Village Industries Board have proposed to establish 25 area offices, 500 sub-stations and 100 model apiaries. The development is estimated to cost Rs. 1.3 crores.

The implementation of the programme may result in the output of 119.5 lakh lbs. of honey valued at Rs. 239 lakhs over the Plan period. 80,000 beekeepers may get part-time seasonal employment and earn Rs. 1.20 crores over the Plan period.

A separate provision for the training of 1,000 school children is a special feature of the development programme.

HAND-MADE PAPER

The Commission has worked out specifications for different qualities of high grade paper like permanent document paper, durable paper for legal documents, bond papers, ledger paper etc. Fibrous materials like lined stalk fibre, cotton and cotton stalk fibre, old gunny bags, fishing nets, cotton waste, straw and grasses, weeds, reeds, plantain stems and waste paper are the chief raw materials of the industry.

In 1953-54, there were 30 centres employing nearly 1,000 persons engaged in this industry and the total production of hand-made paper was about 130 tons.

Assistance is provided to different types of units classified on the basis of their productive capacity. The Commission also provides assistance to schools where students are taught the manufacture of paper by hand process.

The total outlay for the development of the hand-made paper industry amounted to Rs. 15.98 lakhs over the First Five Year Plan period. The industry provided full-time employment to 2,347 paper-makers, 1,261 tons of hand-made paper was produced in 31 units established during the period.

During the first two years of the Second Plan the total expenditure for the implementation of the programme amounted to Rs. 26.68 lakhs. At the end of the second year i.e. 1957-58, there were 91 units operating in the country, and 1,523 tons of paper of all varieties valued at Rs. 21.90 lakhs was produced. 117 schools actively implemented the programme. 25 managers, 38 operators and 49 teachers were trained during the period to handle the work at different stages.

The development programme for hand-made paper industry proposed by the Khadi Commission in the Second Five-Year Plan visualises the establishment of 80 factory units and 400 cottage units for commercial production of 4,000 tons of hand-made paper for sale in the open market by 1960-61 and 400 school units, which will be largely self-sufficient. The programme is estimated to cost Rs. 1.09 crores excluding working capital.

The production programme envisaged in the Plan may provide employment to 12,000 workers and distribute Rs. 72.05 lakhs as wages over the Plan period.

To provide trained personnel required to implement the programme, the programme provides for the establishment of one Research-cum-Training Centre with an annual capacity for training 100 persons.

The bulk of production envisaged in the programme is high grade handmade paper. As the prices of comparable varieties of mill-made paper at home and imported from abroad are relatively low, the programme provides a subsidy of Rs. 250 per ton or Rs. 0.1-9 per lb. on production to narrow down the existing price differential.

NON-EDIBLE OILS AND SOAP

India possesses large quantities of a wide variety of non-edible oilseeds, e.g., neem, karanja, marol, daps, castor, undi, etc. besides other non-edible oilseeds resources. The oils extracted from these seeds are highly valued as industrial oils. These resources in vegetable are largely wasted through non-utilisation.

The development programme of the Commission lays emphasis on the systematic collection of these seeds and their conversion into oils for the manufacture of soap and other utility products. The programme also aims at providing large-scale employment to rural population during the agricultural off-season.

Financial assistance is given to different types of production units classified on the basis of their productive capacity. Special provision has been made for 'D' class (school) units with a view to popularising the use of soap with non-edible oils in the schools and encouraging the youth to take to this industry. Training arrangements are made at several places and such centres are also equipped with the necessary arrangements to test the quality of soap.

For the implementation of the development schemes under this industry, Rs. 45.21 lakhs were disbursed during the three-year period from 1953-54 to 1955-56 of the First Five-Year Plan. 6,492 B. Maunds of soap and 8,904 B. Maunds of cakes were produced during the

period in about 114 different types of units. This industry has provided seasonal employment to nearly 1,900 persons over the period.

Assistance for the development of the industry aggregated to Rs. 82.82 lakhs during 1956-57 and 1957-58 during the Second Plan. Substantial sums were spent for the expansion of the industry during the period. 374 additional soap units of all types and 58 school units were sanctioned. Over the period, 699 persons were trained in 8 centres. The production of soap amounted to 38.44 lakh lbs. valued at Rs. 21.41 lakhs. Correspondingly, the sale of soap during the period amounted to 29.23 lakh lbs. valued at Rs. 18.41 lakhs. During 1957-58, according to available data, the industry provided full-time employment to 470 persons and part-time employment during the season to 10,350 persons.

Methods of quality control are now being evolved by a special Committee so as to conform to the specifications laid down by the Indian Standards Institution.

In the Second Five-Year Plan, the Khadi and Village Industries Commission has proposed the establishment of 90 oil production centres, 340 oil-cum-production units in the intensive areas with a collective productive capacity of 14,300 tons of non-edible oil and 8,400 tons of soap during the last year of the Plan. The programme is estimated to cost Rs. 2.99 crores excluding working capital. 39,110 tons of oil, 91,280 tons of oilcakes and 22,420 tons of soap collectively valued Rs. 6.68 crores are expected to be produced over the Plan period. The development programme may provide full-time employment to 10,340 persons and seasonal employment to 89,400 persons, distribute Rs. 179 lakhs and Rs. 147 lakhs as wages respectively to each category of workers.

Special provision has been made for the training of the supervisory staff in this industry also.

PALM-GUR

In India, there are four varieties of sugar-yielding Palms—Date, Palmyra, Coconut and Sagu. While the total number of tappable palms in the country, mostly Date and Palmyra, is estimated at over five crores, only about 25 lakh palms are being tapped for the manufacture of palm-gur.

The significance of the Palm-Gur Industry in India lies in the manufacture of gur and sugar from the sweet juice of palms, popularly known as *nera*; in providing seasonal employment on a large scale, and in its effects on subsidiary occupation as in the manufacture of products from palm leaf.

The Commission has established a Central Research-cum-Training Centre at Dahann (Bombay State). Research in the preservation of *nera*, better processing methods, improved implements is being carried on. A monthly journal "Tad-Gur Samachar" gives information about the industry and the results of research experiments.

During the two years 1954-55 and 1955-56, Rs. 13.55 lakhs were disbursed by the former Board on various development schemes. The development of the industry resulted in the production of 39.41 lakh B. Mds. of Palm Gur and 6,051 B. Mds. of other products. The industry provided seasonal employment to 3.98 lakh persons during the period.

During the first two years of the Second Plan, the disbursements aggregated to Rs. 56.39 lakhs out of the sanctioned total of Rs. 64.87 lakhs for the implementation of the scheme.

7,708 persons were trained directly and indirectly in the production of palm gur and palm products. On the basis of available reports, the production of palm-gur during the two years amounted to 35.71 lakh B. Maunds, valued at Rs. 784.92 lakhs.

During the Second Five Year Plan the Khadi and Village Industries Commission proposes to establish 105 special units, 1,180 each of A and B units over the Plan period to organise production. 50 Palm Gur Co-operative Federations and 72,000 small co-operative units of individuals will be assisted. Among other schemes, mention may be made of the colonisation units, propaganda units and training units. The total estimated cost of the programme is Rs. 3.43 crores. The programme when implemented will produce 15.75 lakh B. Maunds of Palm Gur valued at Rs. 8.14 crores, besides many other subsidiary products. The programme will provide seasonal employment to 105,000 tappers and distribute Rs. 235.89 lakhs as wages over the Plan period. About 150,000 people will also be employed as pan boilers and auxiliary workers and about Rs. 8 crores will be distributed to them as wages.

GUR AND KHANDSARI

The manufacture of gur is an important cottage industry, utilising nearly 60 per cent of the total cane crop.

The Gur Khandasari Industry which is, perhaps, the largest agricultural processing industry, can meet the entire domestic demand for sugar and make crystal sugar available for export, given appropriate aid for its phased development through improved techniques. The industry provides continuous employment for four to five months in a year to those directly engaged in it, and perennial employment indirectly to the cartmen, potters etc.

The object of the programme is to extend the use of improved types of cane crushers, and the working conditions of artisans.

Cane growers are trained in improved techniques and the use of improved implements. The programme also aims at the organisation of processing co-operative societies to take up marketing, stocking and the supply of improved implements. Fresh areas are tackled through pilot demonstration parties.

During 1954-55 and 1955-56, Rs. 5.79 lakhs were disbursed for the development of the industry. The implementation of the programme during this period resulted in the production of 1.69 lakh tons of ordinary Gur, 46,000 tons of quality Gur and 1,000 tons of Khandasari totally valued at Rs. 6.7 crores, providing perennial full-time, employment to 920 persons and seasonal part-time employment to 5,847 persons. 40 Multi-purpose Co-operative Societies were also organised among whom 1,154 improved crushers, 45 centrifugals and many other improved implements and accessories were distributed.

The total expenditure on the development of the industry amounted to Rs. 59.15 lakhs during the first two years of the Second Plan, of which Rs. 30.81 lakhs represented direct assistance by the Union Government to State Governments. The output of Gur—both ordinary and quality Gur—amounted to 3.08 lakh tons valued at Rs. 9.87 crores, 3,012 tons of khandasari valued at Rs. 20.63 lakhs was also produced. During 1957-58, perennial full-time employment was provided for 8,632 persons and seasonal full-time and part-time employment for 17,594 persons and 20,103 persons respectively. 3,493 kolhus (crushers), 2,984 pans and 489 centrifugals were distributed. Funds were sanctioned for power driven crushers and centrifugals on an experimental basis. 5,773 improved furnaces were constructed and 2,531 old furnaces were repaired during 1957-58. Juice clarificants valued at Rs. 9,700 were distributed.

During the two years 1956-57 and 1957-58, 1,004 honorary workers were trained, and pilot demonstration parties which, besides providing on-the-spot training through demonstration, also assist in the construction of furnaces, covered 445 villages in nine States, where 38,430 persons benefited from these demonstrations.

The Khadi and Village Industries Commission proposed (i) the establishment of 23 production units in the sugar-cane growing

States and of 143 co-operative societies to organise production, distribution of improved implements and sale of products in selected areas; (ii) manufacture and distribution of 65,000 Kolhus and an equal number of pans, 241,000 gur moulds, 19,000 each of cube frames and percolators, 51,300 stocking drums for gur and 90,000 crystallisers and 4,000 centrifugals for the Khandasari Industry and (iii) the erection of 10 carbon factories for ensuring adequate supplies of improved juice clarificants. The programme is estimated to cost Rs. 7.7 crores excluding the working capital required.

The implementation of the development programme will result in the production of qualitatively improved gur at the annual rate of 8.45 lakh tons in the last year of the Plan. The development programme will cover 260,000 artisans in the Gur Industry and about 16,000 artisans in the Khandasari Industry, besides providing employment to 21,667 persons, in the ancillary process of the industry. About Rs. 9.55 crores would be distributed as wages over the Plan period. A Central Training Institute is also proposed to train supervisory staff for the implementation of the programme. About 20,000 persons will be trained over the Plan period.

The budget proposals for 1959-60 include a cess on khandasari.

VILLAGE LEATHER INDUSTRY

The processing of hides and skins and the manufacture of leather goods are traditional village industries.

The cottage sector of the leather industry is responsible for the bulk of its production in the country and employed as many as 6.5 lakh persons as against only 31,000 workers employed by the organised leather industry, according to the Census of Manufacturers (1951).

The object of the development programme of the Commission for the industry is the planned recovery and full utilisation of the various by-products of carcasses of dead animals so as to minimise waste and provide large-scale employment. There is a vast livestock population consisting of over 21.2 crores big animal and 9.52 crores sheep and goats.

The programme also aims at improving the extremely low level of technical efficiency of small units in tanning, and footwear manufacture.

The programme consists of the establishment of carcass recovery centres, tanning centres and glue manufacturing centres; the training of artisans and organisation of demonstration-cum-training parties.

Besides, small and big marketing depots are set up to aid the marketing of the products of village tanners as well as to supply them with raw materials, including hides and skins. Specific aids are given in the form of loans and subsidies for meeting capital outlay, on the establishment of tanning centres, village model tanneries, glue manufacturing centres and bone-crushing units. Payment of stipends, T.A. to trainees and tuition fees is included in the assistance for the training programme.

To assist the Commission there is an Advisory Committee consisting of representatives of this industry and trade.

The expenditure on the various development schemes amounted to Rs. 31.78 lakhs during the three-year period from 1953-54 to 1955-56.

One hundred and fifty-five tanning centres, 21 training-cum-production centres, 56 model tanneries and 40 bone-crushing units were organised during this period, besides distribution of 156 bone-digesters among various centres of production. 179 persons were trained in improved methods of tanning and 341 in tanning.

During the first two years of the Second Five Year Plan, the emphasis of the development programme for the industry was on consolidation rather than on expansion.

Funds spent for the purpose amounted to Rs. 38.91 lakhs. The total number of tanning

centres, model tanneries and bone-crushing units allotted during 1956-57 and 1957-58 numbered 162, 69 and 17 respectively.

The total number of new pits constituted and old pits repaired upto 1957-58 was 2,302 and 3,165 respectively.

There were 31 marketing depots,—12 big and 19 small.

304 and 136 persons were trained in carcass recovery and tanning respectively during the two years.

The value of the production of different articles amounted to Rs. 13.94 lakhs during the period.

During 1957-58, the industry provided full-time employment to 829 persons and part-time employment to 555 persons in different operative units. Data on employment are, however, unsatisfactory both in coverage and accuracy.

The Khadi Commission has proposed a development programme for this industry under the Second Five-Year Plan which envisages the establishment of 3,500 tanning centres, 350 tanning centres and an extension programme for 35,000 shoe-makers to bring them within the folds of co-operative societies. A scheme for the housing of tanners and flayers is also an improvement part of the programme.

The implementation of the development programme will help to produce 8.44 lakhs of pieces of tanned hides, 2.70 lakh lbs. of glue and 7 million pairs of footwear, besides other by-products valued collectively at Rs. 7.5 crores over the Plan period. Over the Plan period the value of production is estimated at Rs. 20.78 crores. The programme may provide employment to 7,000 persons in tanning, 2,450 in tanning and 150 persons in the manufacture of glue, in 3,500 tanning centres, 350 tanning centres and 75 glue making centres respectively. Besides, the programme envisages to extend finance to 35,000 shoe-makers. About Rs. 4.9 crores will be distributed as wages among the various categories of artisans over the Plan period. The total outlay on the programme is estimated at Rs. 5.0 crores, which is exclusive of working capital required.

50 Marketing depots for the disposal of the various goods produced at the production centres will be organised over the Plan period.

COTTAGE MATCH

The industry is ideally suited for operation on cottage-scale, providing employment to a large number of unemployed and underemployed people.

The match industry in India is classified into A, B, and C classes according to the size and production capacity of the manufacturing units.

The programme of the Commission consists in the promotion of a new class of factories, known as 'D' class, licensed to produce a maximum of 25 gross boxes per day and capable of employing about 40 persons each.

The development programme aims at the utilisation of the bamboo resources of the country for the manufacture of matches and the elimination of the use of matchwood and timber which are becoming scarcer and also deplete the country of its forest wealth to the detriment of the nation.

The programme is also aimed at ensuring decentralisation, manufacture without the use of machinery, and large-scale employment.

The programme also provides for training, research and marketing schemes.

The disbursements of funds by the former Board for the development of the industry amounted to Rs. 19.82 lakhs during the First Plan period. 161 'D' class factories were sanctioned and 119 persons trained at the Central Training Institute at Sodepur, near Calcutta.

During the first two years of the Second Plan, the development expenditure amounted to Rs. 31.79 lakhs. 271 additional 'D' class match

units were sanctioned of which 201 were distributed among the community Development Blocks, 82 units have gone into production. Over the period of two years, 636 persons were trained at the Central Institute, of whom 320 were trained under the operators' training course.

Research consists in efforts at improving the structure of the match box and the tip composition. Several improved implements were devised and tested for distribution among the production units.

The development programme of the Second Five-Year Plan period, for the Cottage Match Industry aims at the establishment of 1,000 'D' Class factories over the Plan period with a productive capacity of 29.25 million gross boxes at a total estimated cost of Rs. 1.1 crore over the Plan period.

The output of Cottage Match is likely to amount to 26.25 million gross boxes of 60's valued at Rs. 17.72 crores. The implementation of the programme will result in providing full-time employment to 10,000 persons and part-time employment to one lakh persons and distribute Rs. 3.41 crores as wages over the Plan period.

The programme makes a provision for the establishment of Research Laboratories for carrying on research as well as for intensive propaganda to influence the consumer preference for Cottage Matches.

To market the matches produced in various units the programme visualises a network of Marketing depots under two categories, Central

and Divisional. A separate provision is also made for training the required personnel to implement the programme.

VILLAGE POTTERY

The Commission's programme is made of schemes for the promotion of production, extension, marketing, research and training and central organisation. Provision is made for demonstrations, supply of equipment such as improved wheels, moulds for pipes and special tiles and improved furnaces.

During the First Plan period, Rs. 4.04 lakhs were spent for the development of the industry. Funds were allotted for the establishment of 5 model production centres and 4 common workshops.

Disbursements during the first two years of the Second Plan amounted to Rs. 14.06 lakhs. 13 additional model production centres and 52 common workshops were allotted to different agencies in the States. Funds were disbursed to different States for the distribution of 800 wheel attachments, 678 new model wheels, 211 chain-driven wheels, 56 moulds and 14 screw presses. 226 persons were trained, 59 at the Central Training Institute at Khanapur and 117 at the different Regional Training Centres.

Rs. 5.79 lakhs have been sanctioned to the All-India Khadi and Village Industries Commission for the development of the Village Pottery Industry for introducing improved equipment. During the Second Five-Year Plan period assistance to pottery industry will be continued through the provision of improved wheels, moulds for pipes and special tiles, etc. and improved furnaces.

INTENSIVE AREAS SCHEME AND MARKETING SCHEME

The Commission's Intensive Area Scheme was introduced by the former Board in 1954-55 in selected rural areas having a population of about 20,000 each. The Scheme is an experiment in village planning with a view to integrated development of the rural economy. The immediate objective of the scheme, however, is restricted to surveys and planned production for local consumption and thus create conditions favourable for full employment.

For the implementation of the scheme, the total expenditure amounted to Rs. 47.17 lakhs upto 1967-68. At the end of 1967-68, there were 26 pre-intensive and 65 full-fledged Intensive Areas in operation covering 2,682 villages and a population of about 20 lakhs.

An Evaluation Committee of economists and co-operators under the chairmanship of Mr. Maganbhai P. Desai submitted a report to the Commission in the middle of 1968 and made certain recommendations for the guidance of the Commission.

The Khadi and Village Industries Commission proposes to set up a comprehensive marketing organisation to assist village artisans in obtaining raw materials, tools of production and facilities for the sale of their products. It is proposed to have a three tier organisation consisting of regional marketing depots, sub-depots operating under each regional marketing depot and retail shops each operating under the sub-depot. To co-ordinate the activities of the regional depots and to assist with advice regarding the advance purchase of raw materials, tools of production, etc., it is proposed to set up a Central Marketing Intelligence Bureau.

HANDICRAFTS

The All-India Handicrafts Board is the authority entrusted with the development of the handicrafts in India.

It was first constituted in November 1952. It was reconstituted in December 1954 and again in August 1957.

It advises the Central Government, plans and executes development schemes through the State Governments, formulates and executes schemes of its own, helps in the promotion of sales, sees to technological improvement, quality control, research and training. It secures raw material, organises co-operatives, arranges credit, and sees to housing of craftsmen and general welfare.

There is a Standing Committee of the Board and where necessary panels of experts are appointed.

Under the Second Plan a sum of Rs. 9 crores is allotted for the promotion and development of handicraft industries (Rs. 6 crores States, Rs. 3 crores Central).

An Indian Handicrafts Development Corporation has been set up. This body organises the production of handicrafts on a commercial basis specially to cater for orders from foreign markets. surveys of foreign markets will be conducted and sales depots and selling agencies established.

The principal foreign markets are: Aden, Ceylon, British West Africa, Malay, Saudi Arabia, the Sudan, Iraq. The U.S.A. is regarded as an important potential market.

It is estimated that in 1956 and 1957 handicrafts earned a foreign exchange of Rs. 16 crores.

A list of the major handicrafts is given below:

Textiles Hand-printing and traditional dyeing of textiles, brocades, himroo, carpets and druggels, rugs, gabbaas and namdas, embroidery (cotton, silk, wool and zari), lace and lace work including nakki and gota making, shawls.

Metalware: Silver and gold ware, bidri, Aligar, brass and copper ware, bronze work.

Ceramics: Pottery and earthenware.

Ivory: Ivory carving.

Papier-mache: Papier-mache articles.

Woodwork: Wood-carving and inlay, lacquer work including *nirmal* work, decorative furniture.

Stone-work: Stone-carving including marble work and alabaster.

Toys: Dolls and toys other than mechanical toys.

Leather: Leather goods (artistic work).

Horn: Artistic articles.

Bone: Artistic articles.

Cane, Bamboo, etc.: Articles made of cane, bamboo, willow, straw and grass including mats and plithcraft.

Incense & Perfumery: Incense and perfumery of various types.

Flax and Fibre: Handicraft articles made of flax and fibre.

Bangles & Beads: Bangles and beads.

Musical Instruments: Musical instruments.

Conch-shell and semi-precious stones: Articles made of conch-shell and semi-precious stones.

Miscellaneous: Miscellaneous traditional art objects such as Oriassa, Mysore and Tanjore paintings, and handicraft products specially made for ceremonies, articles of worship and theatrical requisites such as costumes, masks, puppets, etc.

DEVELOPMENT

Steps taken to develop handicrafts include the establishment of design centres to revive ancient designs and create new ones and training centres to teach better techniques. Some of these are also production centres.

Mobile exhibitions are taken round the country and handicrafts weeks are held. There will be a handicrafts museum in New Delhi.

In the financial year 1968-69 the Government of India approved schemes to set up 56 centres for training in handicrafts. Grants totalling Rs. 7.62 lakhs were sanctioned for implementing 41 of these schemes.

Some of these centres are training-cum-production centres. A monthly stipend of Rs. 25 to Rs. 30 is provided. On completion of the training the trainees are encouraged to form co-operative societies with financial assistance from Government.

Design Centres

The Bombay design centre does metal embossing, wood-carving, terracotta and batik work and other textile crafts such as embroidery and bandhani.

The Calcutta design centre devotes itself to metal crafts and particularly to bell-metal, wood-work, bone and ivory, terracotta and the conch-shell crafts.

The Delhi centre does metalware, stone and stone-carving including the famed craft of marble inlaying, enamelware and jewellery, wood craft, embroidery and pottery.

The Bangalore centre works on metal casting techniques, wood and stone carving, decorative Tanjore crafts including the articles in three metals, ceramics, ivory and clay.

Craftsmen from neighbouring areas visit the Centres and see the technical drawings and actual designs created there, learn about new materials and processes and costs of production.

The designs evolved at these centres are also reproduced in a publication entitled Designs of the Year.

The design movement has also received a marked impetus as a result of the National Design Competition organised by the Board. In the first year this was confined to three crafts: textiles, pottery, and toys of all types.

Craftsmen are also helped by the Board through Pilot and Development Centres which impart a training in economical and improved production methods, use of new raw materials, the production of new designs.

The Kothakota centre in Mahbubnagar District in Andhra Pradesh specialises in the weaving together of cotton, silk and zari. This centre has evolved about 180 designs.

The Junagadh centre is concerned with lacquering. The articles cover bread rollers, pen holders, tops, dishes, sofa sets, flower vases, beads, boxes, toys. The training lasts 12 months and a trainee gets a stipend of Rs. 75 a month.

The Bombay centre trains women in the making of dolls, dresses, ornaments, jewellery, cardboard boxes. A stipend of from Rs. 20 to Rs. 50 is given. About 50 persons were trained till the middle of 1955.

The Madras centre gives a training in the making of Indian musical instruments. Some of the instruments made at the centre are veena, tampura, gotuvadyam, sitar, Sute, nadaswaram, mridangam, dholak and ghataam. The training lasts 10 months and there is a stipend of between Rs. 25 and Rs. 40.

The Surat centre which is devoted to brocade weaving, has produced a number of good designs.

The Bombay centre in pottery has created designs of glazed as well as unglazed pottery. The articles produced here have had such a wide response that it is proposed to convert it into a National Craft Institute to serve the whole country.

The Kancheepuram centre is devoted to training in the production of saris. About 105 designs have been duplicated. One peculiarity here is that the methods followed are wholly traditional. A large number of handloom weavers have profited by the designs produced here.

The Nizamabad centre in U P besides designing new shapes and forms in black pottery provides marketing facilities. Marketing is the chief problem here. The centre has sold Rs. 20,000 worth of pottery in ten months in 1955. The State Government has established a co-operative of potters.

The centre in Banaras has helped revive the art of terracotta and clay toys. It has introduced improved tools and techniques. There is a stipend of Rs. 40 a month and the course lasts one year.

The Faridabad centre concentrates on the making of mats, baskets, purses, chairs, etc. with the coloured fibre of the palm leaf. A large number of ladies have been trained. There is a stipend of Rs. 30 to Rs. 70 per month and the training lasts from three to six months. Attached to the centre is a production unit where about 20 women work on a piece-work basis.

The tie-and-die centre at Mathura has produced 73 designs. It provides work for over 50 women and about 10 craftsmen.

The training centre in Kalamkari painting of fabrics at Kalahasti in Andhra will concentrate on techniques prevalent locally. The trainees are given stipends. The course lasts two years.

In Bombay there is a centre for the production of education toys for children. The centre has evolved about 75 designs.

State Schemes

Besides sponsoring schemes of its own the Board helps State Governments to promote schemes.

In Assam the Board has helped promote the training in and production of fancy mats, mitalpati toys and dolls.

In Andhra the Board has given assistance to the State Government for a training-cum-production centre at Hyderabad, the setting up of a co-operative society in Hyderabad by Bidri craftsmen, providing a common facility centre for almalware and himroo, a co-operative society for the manufacture of ivory and tortoise-shell articles and to another society for kalamkari work.

To promote the beautiful craft of Kondapalli toys, assistance has been given to the Kondapalli Toy Makers Co-operative Purchases and Sales Society.

In Bihar the Board has given assistance through the State Government for setting up a common facility production centre for bamboo products, a production centre for the manufacture of sikhi goods and mats, calico printing, training-cum-production centres for papier-mache goods, glass bangles and basket making.

Training-cum-production centres for carpets, cloth dolls, decorative pottery and wood carving have also been sanctioned by the Board.

In Bombay, a training-cum-production centre was started for the development of printing on cloth at Amreli and Surat. Financial assistance has also been given for the development of papier-mache industry and for the expansion of the existing handicrafts emporia in Bombay.

In Kashmir the Board has assisted the State in establishing a design centre at Srinagar, export trade centres, for publicity and for the development of the shawl industry.

Kerala runs a number of training schemes for bamboo articles, mat and basket making, dyeing and printing and lace and embroidery. The Board has given financial assistance for these schemes and it also runs depots and marketing schemes in Kerala.

In Madhya Pradesh a design-cum-production centre has been set up in Bhopal. Other schemes which have been approved cover lacquered wood products, pottery at Mandasaur and lac ornaments and lacquerware at Sheopur.

In Madras the Board has given assistance to the State Government to implement several training schemes for vegetable fibres, glass bangle making, lace and embroidery, dyeing and printing, art metalware, sculpture, papier-mache, carpets and druggets, etc.

Grants have also been given to develop artistic pottery and wool processing and for marketing of handicraft articles.

The emporium at Madras has also received substantial assistance.

The Board has sanctioned schemes for financial assistance for the development of sandalwood carving for which craft Mysore is perhaps the only centre in India of any importance. Assistance has also been given to the State for wood carving, mat and basket making, soapstone industry and marketing of the numerous crafts of Mysore.

Substantial assistance has been given to the State Government in Orissa for the establishment of an arts and crafts design centre at Cuttack which has done good work in the development of handicraft designs.

Other schemes taken up in the State are toy making and embroidery for which the Board has given assistance when necessary.

A central organisation and design demonstration unit has been sanctioned by the Board for the Punjab as well as a design and production centre located in Phulkari. Training schemes covering pashmina rugs, carpet weaving, chain stitch embroidery, ivory inlaying have also been implemented through the State Government which is given financial assistance.

The schemes in U P for which assistance has been given cover ivory industry, chikan embroidery, pottery, brocades, brassware and marble inlay.

For the development of toy making and artistic pottery, the horn industry, durrer making and stone and wood carving, the Board has approved a number of training schemes in West Bengal. Assistance has also been given to revive the well-known craft of Jamdani saris.

FILM INDUSTRY

A Government publication states that at the end of 1957, there were 257 producing concerns, 1,175 distributing agencies, 67 studios and 2,555 cinema houses.

The number of shorts certified for exhibition was 588. These were broken up as follows:

35 mm. shorts over 2,000 ft. in length 41, shorts 2,000 ft. and below 516.

16 mm. shorts above 800 ft. in length 7, shorts 800 ft. and below 24.

The value of raw cinema film imported during 1957-58 was Rs. 2.01 crores.

The length of the exposed film imported was 169,00,000 feet.

The foreign exchange earned by the export of Indian films was Rs. 1.14 crores.

Only a limited supply of raw stock was available because of import control, and the industry was asked to distribute it equitably among the members.

This led to internal trouble in the main film organisations in the country.

Workers and artistes, however, in the film industry organised themselves into separate craft associations.

Among the new associations formed are:

Cine-Costume and Make-up Artists' Association, Cine Musicians' Association, Character Artists' Association, Western India Cinematographers' (Cameramen) Association, Cine Labs' Association.

The industry has set itself the task of re-organising the distribution circuits. After the re-organisation of States and the disappearance of the old Princely States, such a re-arrangement of the distribution areas was overdue. The industry has appointed a Committee to go into the matter and suggest a re-organisation of the circuits.

The Central Board of Film Censors sponsored a survey of audience reaction to films in the Greater Bombay area. It was the first survey of its kind in the country.

The findings are of value and interest, as the survey covered points like:

Frequency of visits, time preferred, type of film preferred, type popular with males and females with age-group, sort of scenes that have a special appeal, type of picture houses preferred, economic groups from which the audiences are drawn, parents' attitudes to children's going to pictures and so on.

Of the persons interrogated 29 per cent were in the age-group 10-20.

The Children's Film Society produced its first report of its work during the twenty-two months it was in existence—upto March 1957. It produced two feature films—*Jaldary* (3,400 feet), *Char Dost* (7,800 feet)—and acquired and adapted for children two more—*Ramashastri ka Nyaya* (from Prabhat's *Ramashastri*), *Bel Ramayana* (from Prakash's *Ramayana*)—each 7,000 feet long. It had spent Rs. 6 lakhs.

The Society brought out another 8,000 ft. film, *Scout Camp* along with the documentary short, *Ganga ki Lakshmi*.*

The U.S.S.R. presented to the Society twenty cine-projectors.

The society was reconstituted with Mr. R. R. Diwakar, as Chairman in the place of Dr. Kunzru.

The Society has its headquarters at Sapru House in New Delhi.

FILMS DIVISION

The Films Division produced during 1957-58, 50 documentaries (108) reels, exclusive of three Children's Magazines.

Seventy documentaries were released which made 150 reels in all.

There is a tendency to increasing the length of a documentary from one reel to two reels.

* Two more were released later in 1958: *Haris*, *Gulab ka Phool*.

State Governments also produced documentaries for their own use, and of these 6 were found suitable for all-India exhibition and were therefore taken by the Films Division.

Outside producers were allotted 11 documentaries (20 reels) during the period.

For a wider coverage, it is now the practice to dub the documentaries in 13 languages; previously they used only 5 languages for the commentaries.

Newsreels however continue to be dubbed in five languages only.

Documentaries for record (as distinct from those for general exhibition) continue to be made when dignitaries from other countries visit India or when the Vice-President or the Prime Minister visits other countries.

Thirty-six such reels were made during 1957-58 as against 30 in 1956-57 and 37 in 1955-56.

Three instructional films (6 reels) were also made for restricted audiences. Finger prints and foot prints, and Weather Forecasting were the subjects treated for training purposes. *Sericulture* (3 reels in colour) was another subject.

Of the 50 documentaries (102 reels) produced by the Films Division during 1957-58, *Hill Stations of South India* (Orty & Kodakanal) *The Jhelum, The Godavari, and Ancient Weavers of Today* (on handlooms) were in colour.

The full length colour film (8 reels) *Folk Dances of India* though ready could not be released as the required number of prints could not be obtained in time because of exchange difficulties.

Lokamanya Tilak, a biographical documentary was released during the year and was much appreciated for its technical novelty. The biography was unfolded without any one acting the part of the subject of the biography.

News for the People, another two reeler, was about the newspaper industry.

There were two documentaries on milk production.

Pilgrimage to Freedom (two-reeler) showed places connected with the 1937 uprising.

Red Cross Dental Care, T.B., V.D., Keeping fit, and other films produced during the year showed that the Films Division was trying to make Indian audiences health conscious.

Except for 156 cinemas in Andhra Pradesh and one in Rajasthan which have obtained stay orders from the High Courts against statutory direction for the exhibition of approved films, all cinemas in the country use either the documentaries or the newsreels for their shows.

For each documentary now dubbed in 13 languages to meet multi-lingual requirement, 172 prints are required.

For the compulsory showing of approved films, the Films Division levies rental on cinemas at the following rate:

- (i) From cinemas where the gross weekly collections are less than Rs. 500 & Rs. 25 per film per week;
- (ii) From cinemas where the weekly gross collections are Rs. 500 or more, 1 per cent of the collections per film per week.

Regular shows of documentaries and newsreels are arranged at the small theatre auditorium of the Films Division, Janapath, New Delhi, in the mornings and evenings at the nominal charge of 25 nk per head per show.

Similar shows are being introduced in other cities as well as they will help make audiences documentary-minded.

For non-commercial exploitation of the documentaries and newsreels, 3,200 prints were sold to various organisations. Demands for a free loan of such prints numbered about 500 in addition.

Films dealing with Plan activities, were supplied to State Governments, social education units, railways, exhibition Directorate, information centres and so on, and the total number of prints so supplied was over 6,800.

Copies of prints also are regularly supplied to Indian Missions abroad.

According to the revised estimates for 1957-58, the total revenue of the Films Division was expected to be Rs. 45,97,700. Actually, upto the end of December 1957 only Rs. 32,80,000 were collected.

AWARDS

(See also under 'Prizes and Awards' under 'Late Particulars')

The Government of India now give cash prizes for the first two award-winning entries in the three categories, feature, children and documentary.

1. For the best feature film, winning the President's Gold Medal—Rs. 25,000.
2. For the second best feature film—Rs. 12,500.
3. For the best children's film, winning the Prime Minister's Gold Medal—Rs. 25,000.
4. For the second best children's film—Rs. 12,500.
5. For the best documentary, winning the President's Gold Medal—Rs. 5,000.
6. For the second best documentary—Rs. 2,500.

The 1958 awards for the films produced in 1957 were as follows:

1. President's Gold Medal for feature film—Do Ankenh Barah Hath (Hindi), Producer: Rajkamal Kalamandir, Bombay.
2. Second best feature film—Andhare Alo (Bengali), Producer: Sreemati Pictures, Calcutta.
3. President's Gold Medal for the best documentary—A Himalayan Tapestry (Burmah-Shell).
4. Second best documentary—Mandu (Films Division).
5. Prime Minister's Gold Medal for the best children's film—Ham Panchhi Ek Dai Ke (Hindi), Producer: A.V.M. (Madras).
6. Second best children's film—Janmatithi (Bengali), Producer: R.R. Films, Calcutta.

Indian feature films and documentaries continued to receive international recognition at many film festivals abroad. Some of the prize winning pictures were:

Pather Panchali (winner of President's Gold Medal for 1955) won 1st prize as the best picture at the International Film Exhibition at San Francisco—December 1957 and another prize at the Vancouver International Film Festival.

Jagle Raho won Great Grand Prix, the highest award at X Jubilee International Film Festival at Karlovy Vary in July 1957.

Kabuliwala (winner of President's Gold Medal, 1956) won Berlin Bear in Silver as the best background music at the VII International Film Festival in Berlin, July 1957.

In the field of documentaries, *Magic Touch* (Films Division's documentary on arts and crafts released in 1954-55) secured a diploma of honour at VII International Display of Cinematography at Milan Sample Fair.

At the International Congress of Occupational Health at Helsinki, *Wonder of Work* (Films Division's documentary on occupational therapy, 1955-56) won 1st prize.

Khadga Operations (Films Division's documentary on catching wild elephants, 1955-56) won Silver Cup at the III International Cine Festival in Rome. The same documentary won a Diploma and Bronze Medal at the Moscow Film Festival in July-August 1957.

Do Ankenh Barah Hath won the Samuel Goldwyn International Award in Los Angeles in 1959.

The 'Lair awards are given on the basis of a readers' poll. The awards for 1958 were as follows:

Best play: Rajkamal's *Jhanak Jhanak Payal Baaje*; Direction: V. Shantaram for *Jhanak Jhanak*; Actor: Dilip Kumar in *Devdas*; Actress: Nutan in *Sansar*; Supporting actor: Motilal in *Devdas*; Supporting actress: Vyjayantimala in *Devdas*; Music direction: Shankar and Jaikishan in *Chori Chori*; Story: Amiya Chakravarty in *Sansar*; Cinematography: Radhu Karmarkar in *Shree 420*; Sound Recording: A. K. Parmar in *Jhanak Jhanak*; Editing:

G. G. Mayekar in *Shree 420*; Art Direction: Kanu Gandhi in *Jhanak Jhanak*.

The Filmfare awards for 1957 were as follows:

Best Picture: "Mother India."

Best Director: Mehboob Khan ("Mother India").

Best Actor: Dilip Kumar ("Naya Daur").

Best Actress: Nargis ("Mother India").

Best Supporting Actor: Raj Mehra ("Sharada").

Best Supporting Actress: Shyama ("Sharada").

Best Music Director: O. P. Nayyar ("Naya Daur").

Best Story: Akhtar Mirza ("Naya Daur").

Best Cinematography: Faredoon A. Iran ("Mother India").

Best Editing: Shrivaji Awdhuti ("Sharada").

Best Art Direction: M. R. Achrekar ("Fardesi").

Best Sound Recording: Kaushik ("Mother India").

CENTRAL BOARD OF FILM CENSORS

The Central Board of Film Censors, examined during 1957-58, 840 Indian films, 292 feature films, 41 short films, that is, over 2,000 ft. and 516 below 2,000 ft. and 31 16 mm. films.

Films classified under U Certificate numbered 1,929 foreign and 873 Indian. Of those classified as adult 7 were Indian and 94 imported. The number of predominantly Indian films was 892.

Of the 67 films which were refused a certificate 11 were Indian.

Of the 893 films considered for recertifying, five were refused certificates.

The total footage cut was 76,615.

Most of the censoring of imported films is now concentrated in Bombay in order to have more uniformity.

New censorship rules were introduced as from April 1958 repealing the rules of 1951 (actually introduced in 1953).

The period of validity of a certificate is now 10 years as against five years under the old rules.

16 MM. FILMS

The use of the 16 mm. film for propaganda and publicity is realised by Governments, municipalities, and trade and industry.

The Union Government maintains for the Five Year Plan publicity 64 units (61 vans; 3 boats), which are equipped with 16 mm projectors.

These gave 8,917 film shows till the end of 1957.

The Community Development Projects and the National Extension Service Blocks seem to be using the films as a regular part of their work. Obviously there is a considerable number of projectors in use throughout the country.

Many industrial houses maintain a regular stock of films for non-commercial use.

About 120 full length Indian features, mainly in Hindi, Marathi and Gujarati, are also available in 16 mm.

There are in addition 16 mm. libraries of films suitable for non-theatrical audiences maintained by the British Information Services, the British Council and the U.S. Information Services through their regional offices.

In the Defence Forces, 16 mm. films have been extensively used for training and entertainment. There are Inspectors of Visual Education under Directors of Education in the States who do valuable service by using 16 mm. projectors.

The biggest single 16 mm. library of films in India is maintained by the Inspector of Visual Education in Bombay who makes the films available regularly to schools under him.

The Ministry of Education in Delhi has started building up a library of 16 mm. educational films.

Most of the diplomatic missions and embassies in the Capital maintain a film section and arrange shows of special films.

* The number for 1959 is given as 4,077 cinemas.

The U.K. and U.S.A. representatives maintain a special library of educational and informative films, dubbed with Indian language commentaries. These are available for exhibition free of charge.

Apart from such films there are some, meant for special audiences.

EXPORT, IMPORT

The Film Industry earns about Rs. two crores through export of films outside India. Excluding those in Pakistan, there are about 2,500 theatres available for the showing of Indian films in countries where Indians live in some concentration and where Indian films are welcomed by the residents of the region.

The main export market for Indian films at present is Pakistan; but Indian exporters are put to considerable difficulty.

Imports of exposed cinematograph films have been fairly heavy. Until 1936-37 imports remained below 10.8 million feet, touched the peak at 26 million feet in 1938-39 and dropped to 6.9 million feet in 1942-43 owing to wartime conditions. In the post-war period imports recovered to 16.2 million in 1945-46 and thereafter fluctuated between 15 million feet and 12 million feet.

Under the import control regulations, import of foreign films is subject to a monetary ceiling and distributors are authorised to remit up to 70 per cent. of the gross revenue.

CINEMATOGRAPH ACT

The regulations of films for exhibition and of the cinemas take place under the Indian Cinematograph Act. The power of certifying films was until the amendment of the Act in 1949 vested in the State Governments. Since production was concentrated in the three States of Bombay, Bengal and Madras and imports also mainly took place through the three ports in those States, the first examination of films for certification was done mainly by the Boards at these three cities. The Act as amended in 1949 made a distinction between films considered suitable for exhibition to adults only and those suitable for general exhibition.

A Bill was passed in 1953 to amend the Act with a view to removing certain defects noticed in the course of actual administration. Under the original Act responsibility for deciding whether a film is or is not suitable for public exhibition was entrusted to the Central Board of Film Censors; but powers are vested in the Central Government to declare that any film already certified as uncertified and notice has to be given to the person who has been granted certificate to show cause why the film should not be uncertified. This delay is sought to be avoided by the amendment. Provision is also made in the amended Act making it obligatory on persons delivering a certified film to a distributor or exhibitor to transmit information and documents relating to the certificate which would enable punishment of the exhibitor if he shows the film with portions cut out by the Board before certification. The difficulties encountered in proceedings against persons for interpolation and exhibition of unauthorised scenes in certified films are sought to be encountered. Enhancement of the penalty has also been suggested.

A Bill to amend the Act further was introduced in the Lok Sabha late in 1958.

It has been decided to set up a Production Code Bureau, a Film Finance Corporation and a Film Institute as recommended by the Film Enquiry Committee.

The Censorship Rules as amended in 1953 provide for a deposit of a 35 mm. or 16 mm. version of the certified film or its shooting script as a condition precedent to the issue of a certificate. Such a certificate is valid for ten years from the date of issue and old films once censored have to be recensored if the previous certificate has been in effect for five years or more.

PRODUCTION OF FEATURE FILMS

Year	1954	1955	1956	1957
Hindi ..	118	128	123	115
Bengali ..	48	52	54	54
Tamil ..	37	46	51	44
Telugu ..	27	24	27	36
Marathi ..	18	12	13	14
Kannada ..	10	15	14	14
Malayalam ..	8	7	5	7
Others ..	7	5	9	8
Total ..	273	287	296	292

INDIAN PRODUCERS

The total number of Indian feature films produced from 1931 to 1956 was 4,909. A language-wise break-up is as follows:

Hindi 2,712; Tamil 666; Bengali 656; Telugu 302; Marathi 285; Gujarati 92; Kannada 72; Malayalam 52; Punjabi 44; Assamese 13; English 12; Oriya 8; Persian 6; Arabic 2; Others 7.

The total number of Indian film producers from 1931 to 1956 was 2,244. Of these 1,580 were single picture producers. The language break-up is as follows:

Hindi 1,040 (708); Tamil 334 (228); Bengali 322 (230); Telugu 187 (139); Marathi 143 (99); Gujarati 60 (49); Kannada 50 (40); Malayalam 35 (27); Others 73 (60).

DOCUMENTARIES

Below we give figures to show the production and release of documentaries:

Year	Production		
	Films	Div	Others
1951-52 ..	32		4
1952-53 ..	32		7
1953-54 ..	35		8
1954-55 ..	33		6
1955-56 ..	55*		14
	(125 reels)		(20 reels)
1956-57 ..	48*		13
	(94 reels)		(32 reels)
			7
			(9 reels)†
1957-58 ..	50(102)		11(20)
	3(4)		6(7)†

* Most of these films have more than one reel per title.

† These were obtained from the State Governments for release through the Films Division circuit.

Note: Not all the documentaries produced are released in the same year. The number of releases therefore is not a total of the first two figures.

ADDITIONAL PRINTS

The additional prints given below were in addition to the regular requirements for commercial distribution.

Year	35 mm	16 mm
1954-55 ..	771	10,533
1955-56 ..	825	13,842
1956-57 ..	216	13,332

FILMS DIVISION

Year	'000 Rs.	
	Revenue	Expenditure
1950-51 ..	22.00	34.79
1951-52 ..	25.00	31.00
1952-53 ..	33.00*	37.77
1953-54 ..	34.00*	43.00
1954-55 ..	33.00*	47.40
1955-56 ..	37.00*	67.87
1956-57 ..	40.00*	81.02
1957-58 ..	—	103.72

* The figure includes other revenue by sale of prints and surplus material and rentals.

The figures down to 1956-57 are revised estimates, and the figure for 1957-58 is the budget estimate.

CINEMAS IN INDIA AND THE

"CIRCUITS" (1951)*

Circuit	Places	Permanent Cinemas
1. Bombay ..	301	619
2. Central ..	272	501
3. North ..	162	385
4. Bengal ..	259	504
5. South ..	493	924
Total ..	1,487	2,933

* In April 1957, there were 3,577 cinemas in the circuit of the Films Division.

IMPORT OF FILMS

	Raw Films		Exposed Films	
	Footage (m. feet).	Value (Rs. in lakhs).	Footage (m. feet).	Value (Rs. in lakhs).
1948-49 ..	156.42	77	12.39	31.52
1949-50 ..	173.75	95	14.43	33.18
1950-51 ..	208.54	126	14.54	35.79
1951-52 ..	196.17	136	10.60	28.01
1952-53 ..	247.94	166	12.66	39.49
1953-54 ..	207.45	155	10.85	30.39
1954-55 ..	204.12	151	8.64	22.79
1955-56 ..	300.96	222	12.12	35.10
1956 (Calendar Year) ..	262.70	196	15.03	40.37

IMPORT OF EQUIPMENT

	(Rs. in lakhs.)					
	1951-52	1952-53	1953-54	1954-55	1955-56	1956 (Calendar)
Cinema projecting apparatus, etc. ..	53.79	25.56	21.51	20.19	43.25	65.07
Sound recording apparatus, etc. ..	17.56	10.70	7.50	4.57	7.48	13.61

GLASS INDUSTRY

THE glass industry is regarded as a key industry by virtue of its versatility and the service it renders to the industrial growth of the country, meeting as it does the domestic and industrial needs and also adding grace and artistic touch to healthy life and living.

The more commonly used raw materials are: sand, borax, soda ash and salt cake, dolomite, lime or limestone, salt petre and sulphur, manganese dioxide and colouring materials. Though supplies of sand are in plenty, its quality is not uniform. Nearly all the glass factories of northern India and West Bengal obtain their requirements of sand from the Allahabad district. Subsequent to the Tariff Board's inquiry in 1932, little progress has been made in the installation of grading and washing equipment for sand. Borax is mostly obtained from abroad, while soda ash is received from indigenous manufacturers and importers. Sufficient quantities of lime or limestone are available. Coal is the commonest fuel. The bulk of refractories is obtained from indigenous sources. The demand for refractories by the glass industry is estimated at about 10,000 tons per year.

The industry comprises the manufacture of sheet glass, blown and pressedware and bangles. The industry has developed mainly under the private sector with reported capital investment of Rs. 12 crores.

Some 30 000 workers excluding those engaged in cottage industries are employed in the industry. Government protection to the sheet glass section was granted in 1950 and has been extended upto the end of 1960. The rate of protective duty was fixed at 45 per cent ad valorem in 1950, but was raised to 70 per cent in January 1955. This rate will continue to prevail till the end of December 1960.

The regional distribution in Nov. 1956 was:—

State *	No. of units.	Installed capacity.
		Tons
West Bengal	28	90,900
Uttar Pradesh	24	63,900
Madras	9	10,800
Bihar	8	39,600
Punjab	3	9,300
Delhi	3	4,400
Rajasthan	2	2,700
Total .	77	221,500

* Pre-reorganization.

The number of registered glass factories at present is 131 with an aggregate capacity of 249 000 tons per year; the capacity excludes an annual output of 35,000 tons, for the bangle industry which is mainly centred at Faridabad. The total capital invested in these 131 units is about Rs. 12 crores with a labour strength of 30,000 and an annual turn-over of nearly Rs. 16 to 18 crores. Of the total number of factories, only 44 units were actually working in 1958, 25 units were temporarily closed and another 22 units more or less permanently closed.

The manufacture of bangles was undertaken by about 100 units, mostly established on a cottage industry basis and localised in the Ferozabad district in Uttar Pradesh and Belgam district in Mysore. The rated capacity of these factories is placed at 35,000 tons.

Besides, penicillin vials, sheet glass of sizes less than 16 oz. and over 32 oz., glass tubing by automatic drawing, narrow-mouth thermos flasks and decorated aerated water bottles are some of the items newly manufactured in the country during the First Plan.

OUTPUT

Actual output of glass and glassware is shown by the following table:

	1954	1955	1956	1957
Bottles & Phials (tons)	47,840	55,272	62,418	70,236
Sheet Glass (million sq. ft.)	32.0	38.9	47.62	54.23
Laboratory Glass (tons)	1,610	2,496	3,357	3,116
Glass Shells for electric lamps (lakh pieces)	225	261	359	391
Table & Pressedware (tons)	22,060	25,456	28,219	31,749
Lampware	12,660	16,690	19,869	17,890
Thermos flasks (dozens)	28 000	43,644	48,336	53 368
Miscellaneous glassware	2,450	2,273	8,031	3,637

the annual demand for glass and glassware is likely to increase to about 200,000 tons by 1960-61. By that period, the installed capacity of the industry will be raised to 383,084 tons per annum. It is estimated that the capital requirements of the glass industry inclusive of replacements and modernisation will amount to about Rs. 3 crores during the Second Plan period. The industry in the organized sector is expected to employ over 30,000 persons in 1960-61 as against 18 500 persons in 1955-56.

If the production target of 200,000 tons is achieved.

It is expected that at the end of the Second Plan, exports and imports will balance each other at about Rs. 50 lakhs per annum. The Government have during the past few years been helping the industry in a number of ways; they have granted rebate of duty on heavy soda ash, provided technical help, set up a Central Glass and Ceramic Research Institute and the National Instruments Factory.

Imports and exports are as follows:

(Rupees in lakhs)

	1954-55	1955-56	Jan.-Dec. 1956	Jan.-Dec. 1957	Jan.-Aug. 1958
Imports	139.02	163.70	148.82	167.75	40.93
Exports	20.76	17.49	25.76	22.65	13.21

The following table summarises the programme of development during the period of the First Plan:—

	1950-51		1955-56	
	Annual rated capacity.	Actual production.	Annual rated capacity.	Actual production.
	Tons.	Tons.	Tons.	Tons.
Bangles	25,000	16,000	25,000	16,000
Sheet glass	11,700	8,850	52,200	26,000
Blownware and pressedware including glass shells	201,550	86,100	267,800	137,500
Safety glass (m. sq. ft.) .. ..	..	..	0.5	0.5
Optical glass .. ..	..	..	12	10
Total (excluding bangles and safety glass)	213,250	91,950	290,012	169,510

HIDES, SKINS AND LEATHER

THE Republic is regarded as a surplus area in respect of its resources of raw hides and skins. It is estimated that normally it produces 16.2 million cow hides, 5.5 million buffalo hides, 23.2 million goat and 15.1 million sheep skins a year. Only a portion of the cattle and buffalo hides is obtained from slaughtered animals and the bulk, about 75 to 80 per cent, is derived from animals that die a natural death.

The bulk of the production is carried on in small towns and villages.

The tanning industry comprises four sections, viz., 1. organised tanneries producing finished vegetable tanned buffalo leather and chrome tanned upper leather; 2. tanneries producing vegetable tanned leather known to the trade as B. I. tips and B. I. tanned skins; 3. small-scale chrome tanneries producing chrome tanned upper leather; and 4. village tanneries producing vegetable tanned cow and buffalo leather and vegetable tanned leather from goat and sheep skins.

The number of factories and annual rated capacity in August 1955 of each of these sections was as follows:—

	Number of factories	Capacity in million.
1.	24 (15 produce chrome)	3.89 (hides for vegetable tanning) 1.58 (hides for chrome tanning)
2.	500	16-17 (tanned hides)
3.	250	20-22 (tanned skins)
4.	..	3 (hides) 8 to 9 (raw hides) 8 to 4 (raw goat and sheep skins)

The few big tanneries are in Madras, Kanpur, Calcutta and Bombay.

Only about 75 tanneries employ more than 50 workers each.

PRODUCTION

The following is the trend of production:—

Year.	Chrome and tanned hides.	Vegetable tanned buffalo and cow hides (in terms of cow hides).	Leather cloth (000 yards).
	(thousands)	(thousands)	
1952	879.6	1,478.4	954.0
1953	650.4	1,298.4	985.2
1954	700.8	1,370.4	1,263.4
1955	668.4	1,685.6	2,623.2
1956	741.6	1,858.1	2,640.0
1957	630.5	1,791.8	3,500.0

According to the information supplied by the manufacturers registered under the Industries (Development and Regulation) Act, the total capital invested in the large-scale units manufacturing leather and leather goods in 1956 was about Rs. 9.37 crores and the number of persons employed was about 9,400. The number of persons employed in the small-scale leather and leather manufacturing industry, as per the National Income Committee's Report (1954), was 763,000 in 1950-51.

When the position of the industry was reviewed in May 1956, it was observed that more than 50 per cent of the installed capacity of the

organised tanneries was lying unutilised. In order to assist the industry to raise its production, the Government banned totally the export of raw hides and skins in short supply, allowed the import of raw hides and skins under O.G.L. from soft currency areas; imposed severe restrictions on import of leather and leather goods; and decontrolled completely the export of leather and leather goods.

To meet the internal requirements, a large quantity of raw hides and skins are imported, mostly overland from Pakistan. In addition a small quantity of tanned hides and skins and of unwrought leather is also being imported.

The following table gives the position:

(In lakhs of Rs.)

Year	Raw hides	Raw skins	Hides, skins, tanned or dressed	Unwrought leather
Imports:				
1953-54	56.5	54.7	..	8.8
1954-55	25.9	17.3	0.7	6.8
1955-56	66.5	23.8	..	6.7
April-Dec. 1956	78.32	30.15	1.84	6.62
1957	69.76	37.25	9.37	N.A.
Jan.-Aug. 1958	87.30	23.67	4.40	N.A.
Exports:				
1953-54 .. ..	..	6,06.7	24,97.2	22.4
1954-55 .. ..	..	7,13.0	20,54.3	18.0
1955-56 .. ..	..	6,52.7	22,52.3	20.6
April-Dec. 1956 .. ..	..	4,16.0	15,87.80	11.45
1957 .. ..	..	6,61.71	21,56.98	N.A.
Jan.-Aug. 1958 .. ..	..	4,65.72	12,10.08	N.A.

The main problems about raw material relate to the supply of hides and skins and wattle bark. Supplies of hides have to be arranged from Pakistan. As for wattle bark, the Government of Madras has taken steps for bringing 21,000 acres under wattle plantation.

Nursery and small-scale field tests are being carried out in Assam, Bombay, Orissa, Punjab, Uttar Pradesh and West Bengal for locating suitable areas for the planting of wattle trees. The indigenous available Karada bark is stated to be a potential substitute for wattle bark.

It is estimated that the demand in 1960-61 may come to 23 million tanned hides and 26 million tanned skins. The quantities of the

principal raw materials required for this target are: Raw hides 23.5 million pieces; raw skins 26.5 million pieces; lime 22,000 to 23,000 tons; wattle bark and extract, 33,000 tons; other barks 330,000 tons; myrobalsams 22,000 to 23,000 tons.

A number of schemes have been launched by the Centre and States for the development of the tanning and leather industries during the Second Five-Year Plan. Some of these provide for setting up of production-cum-training centres, re-tanning and finishing centres, organisation of co-operative societies of tanners and leather workers and setting up of common facility centres.

FOOTWEAR INDUSTRY

The larger units manufacturing leather and leather goods employ about 9,950 persons and the total investment is about Rs. 10 crores. The small-scale industry employs about 7,63,000 persons.

The principal use of leather is for the production of footwear. In 1951, there were nine large-scale footwear factories with an annual rated capacity of 4.724 million pairs of Western type footwear.

The following table gives the regional distribution of the capacity for Western type footwear early in 1956:

State	Unit No.	Annual Capacity (Pairs)
Uttar Pradesh ..	7	2,277,000
West Bengal ..	1	3,442,000
Bihar ..	1	174,200
Madras* ..	1	75,000
PEPSU* ..	1	4,800
Mysore* ..	1	1,200
Total ..	12	5,674,800

* Pre-reorganization.

The principal towns concerned are Agra, Kanpur, Bombay and Calcutta.

During 1957, there were 12 units engaged in the manufacture of western type of leather footwear with a total capacity of 5.975 million pairs and 12 units engaged in the manufacture of Indian type.

The output of the large-scale factories since 1952 is given below:—

	Western type (million pairs).	Indian type (million pairs).
1952 ..	3.267	1.806
1953 ..	3.248	2.274
1954 ..	3.288	2.063
1955 ..	3.243	2.303
1956 ..	3.620	2.911
1957 ..	4.370	3.038

Reliable production figures for the small-scale and cottage units, which are responsible for manufacturing more than 90 per cent of the total output, are not available. The present output is estimated at 12 to 13 million pairs of Western type footwear and 65 to 70 million pairs of Indian type footwear.

Imports of leather footwear during the First Plan period were very small while exports were much higher. The following table gives the trend in exports and imports from 1953-54:

Year	Imports (in pairs)	Exports (in pairs)
1953-54	465	1,218,600
1954-55	1,490	1,569,819
1955-56	1,816	1,877,754
April-Dec. 1956	14,173	1,437,235
1957	14,540	2,550,367
Jan.-Aug. 1958	612	1,247,073

An excise duty of 10 per cent ad valorem has been imposed on footwear since March 1, 1954. Only power-operated factories employing 50 or more workers and using more than two H.P. come under this levy.

It is estimated that the total requirements of leather footwear in 1960-61 would be 100 million pairs for domestic consumption and 2 million pairs for export purposes. This would be an increase of 12.6 million pairs over the 1957 level. This additional demand is proposed to be met by a fuller utilisation of the existing capacity in the organised sector and by developments in the cottage and small-scale sector and no expansion of capacity is envisaged during the Second Plan period in the large-scale sector of the industry.

For achieving the target of 100 million pairs in 1960-61, the following quantities of raw materials will be required: 12.25 million tanned hides and 4.75 million tanned skins; 5.4 million reels of thread for uppers and 340 tons for others; and 285 million pieces of eyelets.

(See also under 'Cottage Industries')

JUTE INDUSTRY

THE following table gives the details of the production trends of raw jute in the Indian Union:—

Year	Lakh acres	000 bales
Average		
1946-47	5.3	1,320
1947-48	6.3	1,695
1948-49	8.3	2,055
1949-50	11.6	3,089
1950-51	14.5	3,501
1951-52	19.5	4,678
1952-53	18.2	4,605
1953-54	11.96	3,129
1954-55	12.43	2,928
1955-56	17.39	4,197
1956-57	19.08	4,248
1957-58	17.54	4,088

The all-India yield per acre was 932 lbs. in 1957-58 against 899 in 1956-57.

Supply and distribution of jute 1956-57 and 1957-58:

	1957-58 (lakh bales)	1956-57 (lakh bales)
Supply		
Opening Stocks		
(a) Mills Stocks		
I.J.M.A. Mills		
(Godown, in transit upcountry)	12.68	9.91†
(b) Mills outside I.J.M.A. (estimate)	0.43	0.38
Indian carry forward (Trade estimate)	3.90	4.30†
Pakistan carry forward (Trade estimate)	5.50	3.00†
	22.51	17.59
Indian Union Jute and Mesta Crop (Trade estimate)	59.30	57.60†
Pakistan Crop (Trade estimate)	68.80	65.00†
Total supply	149.61	140.19
Distribution		
Mill consumption		
(1) I.J.M.A. Mills (estimate)	62.23†	60.72†
(2) Mills outside I.J.M.A. (estimate)	2.44†	2.38†
	64.67	63.10
Indian domestic consumption (estimate)	2.00	2.10
Pakistan exports overseas (estimate)	41.00	40.93*
Pakistan domestic and Mill consumption (estimate)	13.00	11.40†
Total distribution	120.67	117.53
Carryover at the end of season	28.94	22.66

* Actual. † Revised.

(I.J.M.A. Statistics, Monthly Summary).

The following table gives the trend of I.J.M.A. mill consumption of raw jute:—

Year ended June	Lakh bales
1950-51	52.52
1951-52	56.85
1952-53	52.53
1953-54	50.24
1954-55	58.68
1955-56	64.28
1956-57	60.72
1957-58	62.23
July 1958	5.08

JUTE MILLS

At the end of 1958 there were 112 jute mills in India with a total loomage of 72,365. This

is about 53 per cent of the total loomage capacity of the world.

Of the 112 mills, 101 were in W. Bengal, four in Andhra, three in Bihar, three in U.P. and one in M.P. The mills in W. Bengal are concentrated in Calcutta. The number of companies managing the 112 mills was 82.

The total capacity is about 1,000,000 tons of jute goods a year. The total value of the goods produced in a year is about Rs. 130 crores.

107 mills had a fixed capital of Rs. 36.85 crores and a working capital of Rs. 34.63 crores in 1955. In the same year, 255,000 workers found employment in the industry.

(Source: Census of Manufacturing Industries—1955, issued by the Director of Industrial Statistics, Government of India, Calcutta.)

The progress of the industry during the past few years is summed up in the following table:—
(in thousand tons)

Year (July-June)	Production*				Exports from India	Stocks*
	Hessian	Sacking	Others	Total		
1950-51	330	493	35	858	716	90
1951-52	309	607	29	945	795	99
1952-53	248	511	33	892	678	134
1953-54	390	445	31	866	811	87
1954-55	399	558	38	995	862	88
1955-56	403	623	69	1,095	860	127
1956-57	428	627	70	1,025	864	116
1957-58	392	597	68	1,056	821	134

* Represents I.J.M.A. mills and Gagalbhai.

Foreign exchange earned during 1957 was Rs. 114.20 crores.

INDEX NUMBER OF PRICES

(Base July 1914 = 100)

Period	Raw Jute	Manufactured Jute
1953	227	307
1954	248	331
1955	283	328
1956	293	313
1957		
January	344	335
February	323	311
March	336	308
April	336	315
May	369	328
June	352	327
July	356	324
August	336	329
September	340	329
October	352	328
November	376	314
December	372	300

The main problems facing the industry, observes the Planning Commission, are shortage of raw material, modernisation of equipment and possible competition in the foreign markets from substitutes and other products. Lack of finance is a major factor deterring the industry from undertaking modernisation. The task, therefore, is to utilise the existing capacity more fully by procuring greater supplies of raw jute. On this basis, it is expected that the output of the mills could be stepped up from 1,150,000 tons in 1955-56 to 1,200,000 tons in 1960-61 and exports from 875,000 tons to 900,000 tons.

There has been no Government control on production or distribution of jute goods. The only control in vogue is that exercised by the Indian Jute Mills' Association, in the light of their Working Time Agreement, the main object of which is to ensure that production and supply are aligned to world demand.

Mills have lately been paying greater attention to the need for diversification of their products. Some of the specialties which are manufactured now are cotton bagging (a loose fabric meant for packing of cotton in U.S.A.), wide hessian used as carpet backing in U.S.A., jute tarpaulins, paper-lined hessian, jute carpets and jute webbing.

The figures of exports in the financial years 1954-55 to 1956-57 are as follows:—

	1954-55	1955-56	1956-57
Twist and Yarn (lb.)	6,684,919	5,082,518	6,109,784
Manufactures			
Bagging for Raw Cotton (cwt.)	495,288	631,853	734,432
Canvas	14,408	11,078	9,456
Carpets	14,896	8,294	11,824
Sacking Gunny Bags (tons)	427,862	419,415	405,704
Hessian Gunny Bags	22,647	33,032	44,609
Sacking Gunny Cloth	12,863	13,383	12,254
Hessian Gunny Cloth	346,971	349,101	382,964
Total of Jute Manufactures including twist and yarn (tons)	850,869	863,961	896,515

LAC INDUSTRY

LAO is a resin which finds extensive application in industries. It is a resinous protective secretion of an insect which lives by sucking the sap of certain trees and shrubs called lac hosts.

There are four crops of sticklac, named after the Hindu months in which the collection of each crop commences. These are 'Baisakhi' and 'Kalki' from one strain of the insect (Rangemi) and 'Jethwi' and 'Aghani' from another strain (Kusumi). The first processed product, after the crushing and washing of sticklac is known as 'seedlac'. From this shellac is manufactured either by melting it (seedlac) manually in cloth bags held near a fire place called 'bhattas' or by the mechanised process of extraction with suitable solvents.

India is the chief source of supply of sticklac and till 1950 accounted for nearly 85 per cent of the world production. But since then production in Thailand has rapidly increased and now accounts for about 80 per cent of the world production. The average production of sticklac in different States based on the annual production during the years 1946-57 is as follows:—

State	Average Crop (in maunds)
Bihar	4,69,000
Madhya Pradesh	3,01,000
West Bengal	2,33,500
Bombay	66,500
Uttar Pradesh	13,500
Orissa	16,000
Assam	16,000
Other States	18,500
Total	11,34,000

The actual production in 1956-57 was 13,15,000 maunds.

The acreage covered by lac was 10.02 million acres in 1957-58.

The average annual production of shellac including button lac is 16,500 tons.

There are no regulated markets for trading in sticklac. The manufacture of shellac is a cottage industry and the number of shellac factories varies from season to season. According to the latest information there are about 366 factories in the country; only two of these which are located in Calcutta are fully mechanised.

Yield from sticklac varies from year to year and locality to locality.

Roughly the yield of seedlac and shellac is 65 per cent and 55 per cent of sticklac.

The cost of manufacturing one maund of shellac from seedlac is about Rs. 16 and of converting sticklac into seedlac is Rs. 3. In 1939 these were roughly Rs. 3-8 and as. 8 respectively.

PRICE TRENDS

Prices of shellac and seedlac have been subject to wide fluctuations.

During the Second World War—July 1942 to April 1946—the prices were controlled on T. N. basis at Rs. 64 and later at Rs. 71.

After decontrol, the prices started rising, but in March 1950 they fell to Rs. 95 on T. N. basis as compared with an average price of Rs. 130 in December 1949.

Following the outbreak of the Korean war, the price touched Rs. 190 in January 1951 but declined by the end of March 1952 to Rs. 92 per maund.

During 1952-53 the market was subdued with pure T. N. Shellac fluctuating between Rs. 84 and Rs. 66. There has been a firm trend since

1953 April and in November the rate was around Rs. 107 per maund.

In 1954 the prices went down to about Rs. 90 per maund in March but started rising and reached Rs. 178 in January 1955. But due to a very good crop it started falling and reached Rs. 136 by September 1955. It rose to about Rs. 163 in November 1955 but started falling due to a very good crop in Thailand and reached Rs. 111 by April 1956. Between May and September 1956 the prices rose to about Rs. 130 per maund but again due to a very good Katki crop in the country and a good crop in Thailand and the prospect of a good Baisakhi crop the prices came down to Rs. 95 per maund on T. N. basis by the end of January 1957.

In the absence of demand owing to a wait and watch policy adopted by foreign buyers the prices further declined to Rs. 85 per maund on T. N. basis by the end of March 1957. The year 1957-58 was also dull and prices of T. N. Shellac ranged between Rs. 70 and Rs. 90 per maund. The low prices were due to the following factors:—
(i) Heavy carry over of previous year's stocks; (ii) Increase in the U.K. Bank rate; (iii) Recessional tendencies in the U.S. economy.

EXPORTS

About 90 per cent of the total quantity of processed goods is exported.

The U.S. is the best customer, followed by the U.K. and Germany. Since 1953 the U.S.S.R. and China have also been buying sizable quantities.

The quantum of exports to the foreign countries was maintained in spite of dull trading conditions; but there was an appreciable drop in foreign exchange earnings to the tune of Rs. 3 crores due to fall in prices during 1957-58.

The table below gives exports of lac to the important countries during 1956-57 and 1957-58.

(The figures are in maunds)

	1957-58	1956-57
SHELLAC AND BUTTON LAC		
U.K.	94,663	1,30,346
U.S.A.	71,666	80,057
China	34,157	120
U.S.S.R.	23,811	61,891
Other countries	1,89,623	2,49,146
Total quantity	4,13,920	5,11,560
Total value in rupees.	4,30,09,285	6,88,41,681
SEED LAC		
U.S.A.	2,29,982	1,40,813
W. Germany	27,628	19,115
U.K.	13,149	15,981
Other countries	20,044	15,563
Total quantity	2,90,803	1,91,472
Total value in rupees.	2,42,00,673	2,14,47,325
OTHER KINDS		
Quantity	35,734	66,115
Value in rupees	14,40,942	44,17,575
Total of all kinds: Quantity	7,40,457	7,69,147
Value in rupees.	6,86,50,900	9,47,06,581

Lac has made significant contributions to the development of art and industry.

Shellac is consumed chiefly by five industries.

The gramophone industry consumes about 11 to 13 thousand tons.

The varnishes and paint industry absorbs something like 4 to 6 thousand tons.

The total demand from the electrical industry is estimated at 3,000 tons as against 6,000 tons in pre-war years.

Nearly 3,000 tons are used in the hat industry as a stiffening material.

The manufacture of sealing wax requires about 1,500 tons.

For the promotion of the improvement of methods of cultivation and manufacture of lac in India the Indian Lac Association for Research was formed by traders in Calcutta in 1921 and the Government found the funds by levying a cess on all exports of lac other than refuse lac at annas four per maund and for refuse lac annas two per maund. This association set up the Indian Lac Research Institute at Namkum (Ranchi).

At the suggestion of the Royal Commission of Agriculture in 1927 this association was succeeded by the Indian Lac Cess Committee which was established under the Lac Cess Act of 1930 formed "for the improvement and development of the cultivation, manufacture and marketing of Indian lac". By this Act the cess was raised to annas seven and annas five respectively. With effect from April 1948 this cess was doubled. In order to associate the members of Parliament with the Committee and also to provide adequate representation to all the lac growing States the Indian Lac Cess Act has recently been amended.

On 19th September 1956, the Committee celebrated its Silver Jubilee and to mark the occasion brought out a Souvenir publication containing an exhaustive survey of research and statistics on lac and a detailed directory of lac trade. This publication is available from the Secretary, Indian Lac Cess Committee, Circular Road, Ranchi.

The Indian Lac Cess Committee works under the control of the Ministry of Agriculture, Government of India.

An Export Promotion Council for shellac has also been formed under the Central Ministry of Commerce and Industry to promote exports of shellac.

At the suggestion of the Bihar Shellac Enquiry Committee and the Indian Lac Cess Committee the Government of India banned futures trading in shellac and seedlac.

Under the Second Five-Year Plan it is proposed to spend Rs. 60 lakhs for the development of the industry. The more important of the schemes are (i) 50 broodlac farms to increase the production of lac to 16 lakh maunds; (ii) Seven regional testing laboratories for testing shellac and (iii) A number of storage godowns including an air-conditioned godown at Calcutta in order to provide better marketing and credit facilities.

MISCELLANEOUS INDUSTRIES

Agricultural Implements: There are 42 factories manufacturing the implements, with a productive capacity of 20,020 tons in terms of steel. The Tata (Agrico) Jamshedpur is the largest unit with an annual capacity of 12,000 tons. They also include two units in the public sector, viz., the Nahar Foundry and the Mysore Implements Factory. Actual production by the organised sector was 16,815 tons in 1956 and 18,000 tons in 1957. In addition there were 350 small units registered with State Governments.

The exports of agricultural implements rose from Rs. 8 lakhs in 1956 to Rs. 11.2 lakhs in 1957.

Agricultural Machinery: In 1950 there were eight organised units manufacturing power-driven pumps with a capacity of 33,460 pumps per annum. At the end of 1957, the number was 34 with an annual installed capacity of 82,000 pumps.

The actual production was 34,000 in 1950-51; 46,000 in 1951-52; 25,000 in 1952-53; 28,000 in 1953-54; 29,500 in 1954-55; and 36,000 in 1955-56.

During the calendar year 1956, 46,881 pumps were manufactured, as against 34,441 in the preceding year. The total value of agricultural machinery produced in 1957 was Rs. 52.90 lakhs.

Imports of centrifugal pumps including turbine pumps were worth in 1950-51 Rs. 57 lakhs; 1951-52 Rs. 95.6 lakhs; 1952-53 Rs. 80.6 lakhs; 1953-54 Rs. 66.4 lakhs; 1954-55 Rs. 59.3 lakhs; 1955-56 Rs. 51.6 lakhs; April-Dec. 1956: Rs. 69.16 lakhs. Calendar year 1957: 123.68 lakhs; Jan.-Aug. 1958: 67.66 lakhs.

Total demand in 1955-56 was about 40,000 pumps, and it is expected to rise from 85,000 to 86,000 pumps by 1960-61. To meet this increased demand, some schemes have been recommended under the Second Five-Year Plan. With their implementation, the capacity will increase to 74,700 pumps per annum.

Diesel Engines: At the beginning of the First Plan there were five units engaged in the manufacture of diesel engines with a combined annual rated capacity of 6,320 engines. By the end of the Plan, the number increased to 16 with a capacity of 19,759 engines per annum. This number rose to 17 at the end of 1956 with a total annual installed capacity of 22,169 engines. Actual production during 1956 aggregated 12,015 engines. In addition, three more firms with a capacity of 10,000 engines for the manufacture of road vehicular type of diesel engines were established to meet the automobile requirements.

The position of the diesel engine manufacturing industry in 1957 was as follows:

	No. of capacity units	Actual production
Diesel engines (Stationary)	17	22,169
Diesel engines (Vehicular type)	2	6,000
		3,333

The total demand by 1960-61 is estimated at between 20,000 and 21,000 engines upto 50 H.P. Capacity and production targets envisaged in the Second Five-Year Plan are 220,000 H.P. and 205,000 H.P. respectively.

The value of diesel engine exports rose from Rs. 4.29 lakhs in 1956 to over Rs. 10 lakhs in 1957. Indian diesel engines were exported to 25 different countries, the principal buyers being Bahrain, Oman, Cyprus and Thailand.

The production of diesel engines to drive agricultural pumps rose to 27,165 in 1958, substantially higher than the target of 20,500 engines per year scheduled to be achieved by the end of the Second Plan. The value of the production in 1958 was about Rs. 5.43 crores.

The industry has now grown to a level where there are 17 units manufacturing diesel engines in different parts of the country with a capacity of over 22,000 engines per year.

There are now units manufacturing ancillary items. Their total output in 1958 stood at Rs. 4.8 crores.

Agricultural Tractors: At the beginning of the Second Plan, there was no regular tractor manufacturing plant. The requirements are met by imports. The imports were: 1950-51, 4,980; 1951-52, 7,148; 1952-53, 1,227; 1953-54, 3,195; 1954-55, 2,939. Calendar year 1957: 4,792 and Jan.-Aug. 1958: 2,867.

It is estimated that more than 20,000 tractors are in use at present in the country as against 10,000 in 1949-50. And the total requirements for all types of tractors by 1960-61 have been estimated by the Committee on Tractors and Tractor drawn Agricultural Implements at 5,000 per annum.

The position in respect of actual production during 1956 and 1957 is shown below:

Article	No.	1956		1957	
		Value Rs.	No.	Value Rs.	No.
Complete tools	3,016	1,08,18,455	4,029	2,35,61,894	
Accessories	15,418	12,04,224	18,346	18,83,042	

As a part of the overall programme an expansion of the Hindustan Machine Tools is envisaged during the Second Plan. The production of lathes at the Jabalpur Works of this concern is expected to be worth Rs. 1.5 crores in 1960-61. The production in the private sector is currently worth about Rs. 75 lakhs per annum. A provisional target of Rs. 3 crores worth of machine tools is proposed for 1960-61 for the public and private sectors pending submission of the report of the Expert Committee.

The capacity of the machine tool industry in terms of value was Rs. 3.9 crores in 1957 as against Rs. 1.42 crores in 1955.

It is estimated that there are now 80,000 machine tools in operation and, by 1960-61, it was estimated, 170,000 would be required.

Cotton Textile Machinery: The principal items are carding engines, spinning ring frames and looms. The target capacity and production in the First Plan for carding engines was 600 and in the Second Plan 1,692. The total installed capacity in August 1956 was 3,000 per annum. Actual production was 1951: 158; 1952: 108; 1953: 192; 1954: 436; 1955: 600; 1956: 732; 1957: 1,020; Jan.-Aug. 1958: 815.

The total value of the textile machinery produced in 1957-58 was Rs. 9 crores. It is expected that by 1961 self-sufficiency would be achieved in most items.

It is estimated that the annual demand under the Second Plan is 1,400 for new units and 600 for replacement, totalling 2,000 units. To meet this demand, the Government has approved the proposal of the private sector for 600 carding engines by the National Machinery Manufacturers and 800 by Texmaco for implementation.

At present the annual demand is estimated at 2,810 ring frames, 7.8 lakh spindles, 23.4 lakh spinning rings, 312,300 suited rollers and 14,625 looms.

About spinning ring frames, there were 2 units with a rated capacity of 396 pieces per annum. Two more units started production early in 1955 bringing the total capacity to 886 ring

A contract between the Government of India and Messrs. Komatsu Manufacturing Co., Japan, has been concluded, under which Ordnance factories will produce tractors, earth-moving equipments, etc. The actual production is expected to start during 1959-62.

In 1957, there were two units engaged in the production of tractors. The aggregate capacity was 8,000, while actual output was 2,269.

A scheme for the manufacture of bulldozers and scraper attachment was licensed at the end of 1958. The factory would be located in Bombay.

License was also expected to be given for the manufacture of spare parts of the caterpillar units. This would be set up in Calcutta.

Machine Tools: At present, there are 18 units, two owned by the Government and 16 by private enterprise, manufacturing graded machine tools. The capital investment (private) is about Rs. 90 lakhs and the total number of persons employed exceeds 2,000.

frames against the Plan target of 800. Actual production was 1951: 201; 1952: 255; 1953: 197; 1954: 314; 1955: 868; 1956: 1,116; 1957: 1,368; Jan.-Aug. 1958: 648. The production target set in the Second Plan is 1,896. The total capacity in August 1958 was 2,784.

About looms, there were three units with a capacity for producing 4,320 looms per annum; the target capacity in the First Plan was 4,980. The actual production was 1951: 2,166; 1952: 1,527; 1953: 1,340; 1954: 1,970; 1955: 2,346; 1956: 2,468. The target production set in the Second Plan is 6,000 looms. The number of looms actually manufactured was 2,868 in 1957 and 1,757 in the first eight months of 1958. The installed capacity in August 1958 was 4,980.

The number of drawing frames rose from 24 during the first eleven months of 1956 to 30 during the same period in 1957; automatic looms from 161 to 222 and reeling machines from 1,158 to 1,941.

The production of spindles rose from 5.72 lakhs in 1954 to 10.5 lakhs in 1956, of suited rollers from 2.28 lakhs to 3.84 lakhs.

Protection to the industry has been extended upto the end of 1960 at the protective duty of 10 per cent for complete ring frames, spindles, spinning rings, suited rollers and automatic looms. Protection for plain looms has been discontinued with effect from 1st January 1958.

The value of textile machinery exported rose to Rs. 2.2 lakhs in 1957 from Rs. 1.5 lakhs in 1956.

Ball Bearings: There is one unit with an annual rated capacity of 600,000 ball bearings on a single shift basis. The total demand by 1960-61 is estimated at 2.4 million bearings which the existing firm would be able to meet with its expanded capacity and by working on a multiple shift system. The production of 31 different sizes of roller bearings was undertaken for the first time.

The number of ball bearings actually produced during the calendar year 1957 was higher at 1,666,046, the figure for 1956 being 1,040,106.

Protection has been extended upto the end of 1960.

Bicycles: At the end of 1957, there were 20 units manufacturing complete bicycles. The aggregate annual capacity was 725,000. The actual production in the calendar year 1957 was higher at about 791,000; in 1956 it was estimated at about 664,000 and in 1955 at 491,000. Of these big units, Uttar Pradesh and Punjab have six each, West Bengal three, Delhi two and Madras, Bombay and Bihar have one each.

Number of persons employed in 1957 was about 8,000.

The output for 1958 is estimated at 10 lakhs.

But the internal demand has shown a steady rise. From 4.03 lakh cycles in 1951-52 it moved up to about 6.8 lakhs in 1956-57. It is expected that the output will go up to 11 lakhs at the end of the Second Plan. Besides, an export of 1.5 lakh cycles is also envisaged.

This is to be achieved through the organised sector as well as the decentralised sector of the industry. In view of the considerable employment potentialities of the small-scale sector, it is considered that it will be enabled to produce 2.5 lakh cycles per annum by 1960-61. The balance of 10 lakhs is expected to be produced by the organised sector which includes 20 units.

The production of bicycles in the small sector, which started only towards the end of March 1956, was about 109,000 bicycles in 1957 as against about 23,000 in 1956.

There are 78 units in the small sector; of these 22 are in the Punjab, 14 in Delhi, 10 in West Bengal, nine in Uttar Pradesh, eight in Bombay, four in Madhya Pradesh and two in Madras. Five units in Rajasthan, two in Mysore and one each in Andhra Pradesh and Orissa are to go into production soon.

A Development Council was constituted for this industry in December 1953.

The output of bicycle tyres in India in 1957 was slightly over 7.15 million, against 3.94 million tyres manufactured in 1951.

During the same period, the number of bicycle tubes made in India went up from about 4.9 million to slightly over seven million.

The target for the production of bicycle tyres and tubes under the Second Plan is twenty million tyres and tubes each per year.

The current domestic demand for bicycle tyres and tubes is estimated at nine million each per year. This is expected to rise to 16 million tyres and tubes each by the end of the Second Plan, keeping pace with the steady increase in the number of bicycles on Indian roads.

The industry can practically meet all internal requirements.

Indian capital invested in the bicycle industry in India was Rs. 3.39 crores while the amount of foreign investment in the industry was about Rs. 39.81 lakhs. (September 1956)

A Standing Liaison Committee has been formed by the Development Council for the bicycle industry to assist the Export Promotion Council.

Provision has been made to enable manufacturers of bicycles to obtain a 133 per cent replacement quota of iron and steel used in producing the bicycles exported.

Protection has been extended upto the end of 1960.

Sewing Machines: At the end of the First Plan there were three organised units engaged in the manufacture of complete domestic sewing machines with a total capacity of 48,500 machines per annum. This has since gone up to seven units with a total annual capacity of 81,200 machines. Actual production in 1957 was 167,478 as against 130,238 in 1956. It is estimated that the present demand for the domestic and industrial types of machines of 120,000 to 160,000

machines per year may go up to 300,000 by 1960-61. This can be met by the production from the small-scale sector as well as from the organised sector with its expanded capacity. Of these about 30,000 machines are earmarked for export. Production—32,965 in 1950-51; 48,116 in 1951-52; 52,206 in 1952-53; 68,417 in 1953-54; 80,776 in 1954-55; 110,000 (estimate) in 1955-56; 130,388 in 1956, 167,478 in 1957 and 65,000 in the first four months of 1958.

There are 35 manufacturers of sewing machines in the small-scale sector besides seven firms in the large-scale sector. Of the 35 small units, 14 are in the Punjab, nine in Delhi, four in Rajasthan, three in Uttar Pradesh, two in Jammu and Kashmir and one each in Bombay, Madhya Pradesh and Andhra Pradesh. Of the seven big manufacturing firms, West Bengal and Punjab have three each and the seventh is in Delhi.

Special steps are being taken by Government to increase the output, particularly in the small-scale sector.

Exports of Indian sewing machines fetched foreign exchange worth Rs. 3.78 lakhs in the first six months of 1958 as against Rs. 5.51 lakhs for the whole of 1957.

The number of sewing machines exported in the first half of 1958 was 3,456 as against 4,465 during 1957. The value of the sewing machines exported in 1957 was Rs. 5.6 lakhs as against Rs. 4.66 lakhs in 1956.

During the first half of 1958, the United Kingdom was the largest importer of Indian sewing machines.

The United Kingdom imported 1,000 machines, Afghanistan 682, Thailand 540, Ceylon 329, the Federation of Malaya 200 and Singapore 170. The U.S.A. and British Guiana imported 100 machines each. The other countries to which Indian sewing machines were exported include Kenya, Jordan, Madagascar, Tanganyika, the Sudan, Pakistan, Uganda, Iraq, Sierra Leone, Rhodesia, Saudi Arabia, Zanzibar, Mauritius, Burma, Nepal and Vietnam.

The protection granted to the industry has been withdrawn since January 1, 1955.

Lanterns: There are 10 units with a capacity of 3,792,800 lanterns a year. The Second Plan target is 6 million.

During the calendar year 1956, 5,179,719 lanterns and in 1957, 4,344,700 lanterns were produced. The reason for the fall in production is due to curtailment of tin plate quota.

Actual export was 1950: 15,036; 1951: 14,136; 1952: 108,264; 1953: 449,734; 1954-55: 349,076 valued at Rs. 8.83 lakhs; 1955-56: 204,670 valued at Rs. 5.15 lakhs; April-Dec. 1956: valued at Rs. 88,726.

Protection has been withdrawn since January 1, 1955.

Grinding Wheels: There are four units with a rated capacity of 1,870 tons. It is expected that with the completion of the expansion schemes, this rated capacity will increase to 2,110 units which is considered to be adequate to meet the demand by 1960-61. Production—1950-51: 231 tons; 1951-52: 352 tons; 1952-53: 390 tons; 1953-54: 395 tons; 1954-55: 525 tons; calendar year 1956: 681 tons; 1956: 1,112; 1957: 1,452; Imports: 1950-51: 209 tons; 1951-52: 202 tons; 1952-53: 93 tons; 1953-54: 112 tons; 1954-55: 168 tons; 1955-56: 60 tons.

During the calendar year 1957, 1,750 dozen valued at Rs. 1.19 lakhs and during the period Jan.-Aug. 1958, 887 dozen valued at Rs. 0.43 lakhs were imported.

Protection has been extended upto the end of 1960.

Electric Goods: The value of electrical consumer goods produced in 1957 (lamps, fans, radio sets, batteries) was estimated at Rs. 25 crores. The Second Plan target is Rs. 40 crores.

Dry Batteries: There are five units with a capacity for producing 224.5 million dry cells a year. The Second Plan target is 225 million.

About 224.5 million cells were produced in 1957 as against 181.48 million cells in 1956, both being calendar years. The exports were 1950: 85,193 valued at Rs. 0.2 lakhs; 1951: 1,445,673 valued at Rs. 2.58 lakhs; 1952: 1,114,966 valued at Rs. 2.92 lakhs; in 1957 Rs. 9.67 lakhs.

Attempts are being made to manufacture the raw material in this country—manganese dioxide, sealing compound, carbon electrodes.

There has been no protection since January 1954.

Storage Batteries: There are 13 units with an annual rated capacity of 316,500. The anticipated demand in 1960-61 is 420,000. Production—1951-52: 212,836; 1952-53: 136,000; 1953-54: 179,000; 1954-55: 210,100; 1955-56: 258,086; Calendar year 1956: 314,199; 1957: 324,578.

There is progress in the diversification of products and a greater degree of self-sufficiency about raw materials. Among the different products are aircraft batteries and railway requirements. Schemes for the manufacture of dry-charged batteries, iron-clad batteries, heavy duty and traction batteries have been approved. Raw material manufacture includes refined lead and microporous rubber separators.

Protection to the industry has been withdrawn since January 1, 1956.

Electric Cables and Wires: Actual production of 1. bare copper conductors, 2. winding wires, 3. rubber insulated cables and flexibles, 4. A.C.S.R. cables is as follows:

	in tons (1)	in tons (2)	in mil. yd. (3)	in tons (4)
1955	8,434	605	86.1	8,045
1956	10,255	761	105.6	11,285
1957	8,554	1,016	103.5	15,338

The major schemes of the First Plan are the Hindustan Cable Factory in the public sector for producing different kinds of cables, (this started regular production on Sept. 1, 1954), the expansion of the Indian Cable Company at an estimated cost of Rs. 2.8 crores, the expansion of capacity for A.C.S.R. cables from 2,500 tons to 5,000 tons per annum, the creation of producing facilities for 500 tons of insulated aluminium conductors per annum.

Electric Fans: There are 10 units with an installed capacity of 401,700 fans per year. The Second Plan target capacity is 600,000 fans per year in 1960-61. There are plans for expansion which will result in a production capacity of 668,800 fans per year.

Actual production was 1950: 194,100; 1953: 199,468; 1954: 238,850; 1955: 222,236; 1956: 338,932; 1957: 524,664.

Exports of electric fans are expected to reach about 40,000 per year by 1960-61. Exports were: 1952-53: 3,655 valued at Rs. 4.9 lakhs; 1954-55: 10,869 valued at Rs. 13.6 lakhs; 1955-56: 16,458 valued at Rs. 19.51 lakhs; Apr. to Dec. 1956 valued at Rs. 11.87 lakhs. In calendar year 1957 16,471 valued at Rs. 17.40 lakhs and in Jan.-Aug. 1958 15,494 valued at Rs. 16.39 lakhs.

Thirty different countries bought Indian fans, the main buyers being Ceylon, Burma, Malaya, Singapore, Kuwait and Thailand.

Electric Lamps: There are 11 units manufacturing general lighting service lamps with an installed capacity of 43.13 million lamps per year. The target is 60 million by 1960-61.

Production was, 1950: 14 million; 1953: 19.8 million; 1954: 23.86 million; 1955: 22.51 million; 1956: 29.9 million; 1957: 32.13 million.

There is one unit with an installed capacity of 800,000 units to produce fluorescent lamps. Production in 1956 was 880,891 and in 1957, 1,016,964.

Electric Motors: There are at present 15 units in the large-scale sector with a total annual capacity of 359,100 H.P. Besides, there are 81 units in the small-scale sector whose annual capacity is 1,30,000 H.P. In addition, there are several small units which are not registered but which assemble electric motors and manufacture parts.

Eleven out of the fifteen large units have schemes for expanding their capacities and 16 new units have also been licensed.

This will raise total capacity in the large sector to 1,134,290 H.P.

Actual production was, 1950-51: 99,000 H.P.; 1951-52: 153,000 H.P.; 1952-53: 160,000 H.P.; 1953-54: 161,000 H.P.; 1954-55: 201,000 H.P.; 1955-56: 271,000 H.P.

The total production by the large units in 1957 was 475,215 H.P. (76,014 motors), as compared with 296,699 H.P. in the first six months of 1958. The production is confined mainly to the manufacture of electric motors of one to 30 H.P. ratings. A few units also manufacture motors of large ratings.

The current demand for electric motors is around 750,000 H.P. and this is expected to go up to about one million H.P. by 1960-61.

A.C. 3 phase induction motors upto 225 H.P. and motors of the slip-ring type of up to 125 H.P. are now being produced in the country.

The Government has accepted the Tariff Commission's recommendations that the existing protective duties of 15 per cent *ad valorem* on electric motors and 20 per cent *ad valorem* on component parts of electric motors, excluding control gear, should be continued for a further period of three years ending December 31, 1961. Protection was first granted to the electric motor industry in 1948.

Electric Transformers: There are 14 units with an annual rated capacity of 934,000 KVA.

When the present schemes for development are implemented the capacity will go up to 1,310,000 KVA per annum—against the Second Plan target of 1.5 million KVA by 1960-61.

Production in the calendar year 1957 was 1,219,101 KVA as against 919,196 KVA in 1956.

Imports were valued at Rs. 184 lakhs in 1950-51; Rs. 144.5 lakhs in 1951-52; Rs. 140.4 lakhs in 1952-53; Rs. 197.6 lakhs in 1953-54; Rs. 161.6 lakhs in 1954-55; Rs. 173.41 lakhs in 1955-56; Rs. 146.98 lakhs during April-December 1956; Rs. 354.39 lakhs in 1957 and Rs. 214.68 lakhs during Jan.-Aug. 1958.

Scrap: There are 90 organised units with a capacity of 253,279 tons. The Plan target is 357,000 tons by 1960-61. A large part of the existing capacity is idle.

Production by organised factories was (in tons) 1951: 86,000; 1952: 85,000; 1953: 82,200; 1954: 88,000; 1955: 99,000; 1956: 110,260; 1957: 111,602. The cottage industries are estimated to produce 30,000 tons annually.

Exports were 1950: 280 tons; 1951: 1,580 tons; 1952-53: 1,300 tons valued at Rs. 32.56 lakhs; 1953-54: 571 tons valued at Rs. 13.57 lakhs; 1954-55: 542.6 tons valued at Rs. 14.57 lakhs; 1955-56: 413.8 tons valued at Rs. 9.67 lakhs; Apr to Dec 1956: 209 tons valued at Rs. 5.48 lakhs; 1957: 359.2 tons valued at Rs. 9.83 lakhs and Jan.-Aug. 1958: 187.3 tons valued at Rs. 5.24 lakhs.

Matches: There are 242 units with a rated capacity of 41.25 million gross boxes. The Second Plan target is 35.3 million gross boxes.

Actual production was in millions of gross boxes, 1951: 29.3; 1952: 32; 1953: 29.3; 1954: 28.5; 1955: 31.18; 1956: 30.78; 1957: 28.92; Jan.-Aug. 1958: 20.76.

Both imports and exports are negligible.

Plywood: The number of units on the approved list of DWCI is 67 with an annual installed capacity of 150.6 million sq. ft. Besides there are a large number of unapproved factories

with an estimated capacity of about nine million sq. ft. Actual production of tea-wood plywood in million sq. ft. was 1950: 44.9; 1952: 71; 1953: 50; 1954: 62; 1955: 91.13; 1956: 98.38; 1957: 94.49.

Protection has been extended upto the end of 1960.

Razor Blades: The actual production of razor blades in 1957 was about 386.48 million. The total installed capacity of Indian factories was about 614.4 million. Permission has been granted to open new factories.

Average monthly production in 1958 by the three factories in Bombay and Calcutta: 25 million blades.

Thermos Flasks: The production of thermos flasks in India, which was just a little over 6,000 dozens in 1951, increased to 53,368 dozens in 1957.

The production in 1956 was 48,336 dozens and in 1955 about 44,000 dozens.

The present demand in the country is estimated at between 60,000 and 70,000 dozens of flasks per year. This is expected to increase to 1,00,000 dozens by the end of the Second Plan period.

There are now three units in the country manufacturing thermos flasks with a total installed capacity of 106,800 dozens per year. Licences have been granted to establish two more units. When these schemes take shape, the total installed capacity will go up to 227,000 dozens per year.

The value of imports of thermos flasks in 1956-57 was just over Rs. 8.3 lakhs. For the calendar year 1957 the imports were valued at over Rs. 63,916 and Jan.-Aug. 1958 Rs. 7,965.

Three units are engaged in the manufacture of ampules by automatic machines. The total capacity of these three units is over 35 lakh ampules per month. Besides these there are a number of small-scale units manufacturing ampules by the table-blowing process.

NON-FERROUS INDUSTRY

(See also under 'Mines and Minerals').

THE position regarding these metals is briefly described below:

(a) **Aluminium Ores:** India is rich in deposits of high grade Bauxite which are estimated at 250 million tons, but the total reserves of workable deposits are said to be around 28 million tons. They are generally located in the Jabalpur and Balaghat Districts of Madhya Pradesh; Belgaum District in Mysore; Kolhapur, Thana and Kalra Districts in Bombay; Ranchi Plateau in Bihar; and Shevaroy Hills in Salem, Madras. The known estimates of 250 million tons of bauxite make possible production of about 40 to 50 million tons of virgin aluminium metal.

(b) **Copper Ores:** Copper pyrites is the principal ore of copper. The deposits of copper pyrites in India are in Singhbhum and Baragunda in Bihar; Khetri mines in Jaipur; Sikkim State, Mysore State and in the Salem District of Madras State. Although only the Singhbhum deposits are worked at present, the copper belts of Sikkim and Khetri are very promising.

(c) **Lead Ores:** Lead ores are known to occur at a number of places in India. Special mention may be made, however, of lead deposits in Jaipur and in Jawar Mines in Udaipur, where lead is found in association with zinc; in Chhoti Udaipur in Bombay and in Hazaribagh in Bihar.

(d) **Antimony Ores:** Antimony ore deposits have been found at the Shigree Glacier in Lahaul, Kangra District, Punjab.

(e) **Zinc Ores:** At present zinc deposits are known to occur at only two places in India: Zawar mines in Udaipur and in the Rissai District in Kashmir State.

(f) **Tin Ores:** Hazaribagh, Bihar.

PRODUCTION

The production of refined copper in tons is as follows: 1946—6,310; 1947—6,382; 1948—5,864; 1949—6,390; 1950—6,614; 1951—7,083; 1952—6,079; 1953—4,920; 1954—7,161.6; 1955—7,281; 1956—7,025; 1957—7,348. The installed capacity of the industry was 7,000 tons in 1947; expanded to 7,800 in 1952, since when it has stood at this figure.

As regards processing of semi-manufactures the only production was of brass sheets by the Indian Copper Corporation Ltd. averaging about 8,000 tons per annum, and electric copper wires and insulated cables by the Indian Cable Co. Ltd. A more recent development is the manufacture of brass and copper pipes and tubes. Their annual capacity is 500 tons but the actual production has never exceeded 11 tons and 60 tons respectively.

For antimony a smelter was set up during the war at Bombay by the Star Metal Refinery with a capacity of 300 tons per annum. This capacity has now been increased to 1,000 tons per annum. The ore brought from Chitral State (Pakistan) was used for smelting antimony and the plant had reached full production in 1946-47. After the partition of the sub-continent, the ore supplies from Chitral were cut off and as a result the production suffered. The production from 1949 to 1957 was: 100 tons in 1949, 375 in 1950, 327 in 1951, 181 in 1952, 131 in 1953, 539 in 1954, 504 in 1955, 589 in 1956 and 508 in 1957. The fall in production is due to the shortage in imported antimony ore.

There is a Lead Smelter at Katnagarh in Bihar with a capacity of 7,000 tons per annum. The production of lead in 1949 and 1950 was, however, only about 600 tons a year due to the difficulties of transporting ore from the Jawar mines in Udaipur to the Smelter. The company has also set up an ore dressing plant at the mines which will reduce the weight of the ore to be transported. The capacity of this plant is reported to be 6,000 to 10,000 tons of lead concentrates of 60 to 65 per cent. lead and 7,000 to 8,000 tons of zinc concentrates averaging 35 per cent. zinc. There are also lead refineries in Bombay and Calcutta, which started working in 1955. The production in tons is as follows: 1948—655;

1949-504; 1950-627; 1951-859; 1952-1,131; 1953-1,694; 1954-1,788; 1955-2,234; 1956-2,497; 1957-2,974, rise being due to the immense availability of ore. The installed capacity in 1951 was 6,000 tons and has remained unchanged since then.

As the industry engaged in the production of non-ferrous alloys covered by I.C.T. items Nos. 65(a), 69(2), 70(1), 70(4), 70(6) and 70(9) did not press its claim to continuance of protection, protection has been withdrawn with effect from 1st January 1958.

SEMI-MANUFACTURES

The greatest progress in the non-ferrous industry made since 1939 is in regard to the semi-manufactures. Several brass and copper rolling plants were started for rolling brass and copper sheets mainly in Bombay. The combined capacity of this sector is about 48,000 tons per annum.

Some lead sheets are also manufactured in the Calcutta area, but at present they are rolled in 3 ft. width, while the chemical industries require lead sheets of 7 to 9 ft. width. The annual installed capacity is 1,098 tons. Aluminium and lead foils for tea-chests are also manufactured in the Calcutta area and the present capacity is estimated to be sufficient to meet India's requirements.

Several rolling plants for rods and bars of brass, copper, etc. were started during the war; afterwards an Extrusion Press was set up in Calcutta by National Tubes and Pipes Ltd. Arsenical copper rods which are required for railway locomotives as boiler stays were manufactured in Jaipur by the Jaipur Metal Industries Ltd. during the war and all the requirements of railways can be met by indigenous production. The present capacity for rods and tubes of brass and copper may be estimated at about 10,000 tons, which is enough to meet the present requirements of the country. The manufacture of lead pipes was started during the war at Konnanagar.

A plant for lead pipes was also set up in Bombay during 1949. The present production is about 330 tons per annum, but this could be increased to 1,000 tons, if required.

A plant for the manufacture of electrical wires and cables was set up near Calcutta during the war by the National Insulated Cable Co. The total production of electrical bare copper wire and cables of this company and the Indian Cable Co. during 1956 amounted to 10,200 tons, the figure for the previous year, 8,150 tons. The installed capacity aggregated 17,796 tons.

Two plants one in Bombay and the other in Calcutta for the manufacture of enamelled copper wire required for making electric motors and fans have a total capacity of 2,000 lb. per day.

A number of concerns have been started for manufacturing different kinds of non-ferrous alloys. The refining and reconditioning of railway scrap and other industrial non-ferrous scrap is now done in this country, which was formerly largely exported. The total present

alloying capacity in the country may be estimated at about 30,000 to 35,000 tons per annum.

A plant for the recovery of silver from old coins has been taken for implementation at the Alipore Mint. This plant will also be able to recover about 3,600 tons of electrolytic copper from copper scrap.

A scheme for erecting a ferro-manganese plant with an annual capacity of 100,000 tons, has been implemented. This plant is installed at the Hirakud Dam site in collaboration with an Italian firm. But the target capacity has been stepped up from 100,000 tons to 160,000 tons per annum in view of the higher target for steel production. Seven new projects have been approved so far and the installation of further capacity is under consideration. It is expected that by the end of the Second Plan, there will be nine plants with an installed capacity of 171,800 tons. But the actual production then will reach only 160,000 tons, out of which 60,000 tons will be for internal consumption and 100,000 tons for export. The ferro-manganese plant of the Tata Iron and Steel Company has already been put into commission.

In most cases there is a protective duty of 30 per cent. In the case of zinc and lead sheets the protective duty is fixed at 20 per cent. and of arsenical copper rods, brass rods and brass wires, a protective duty of 35 per cent. The import duty on machinery is 5 per cent. which is applicable to all industries.

Protection to non-ferrous semi-manufactures covered by I.C.T. items Nos. 64(3), 67(1), 67(2), 68(2) and 70(5) excluding brass wires, was extended up to the end of December 1958.

Protection to the non-ferrous manufactures covered by tariff items Nos. 64 (excluding copper sheets, tubes and pipes), 67, 68 and 70 (excluding brass sheets, tubes and pipes) has been discontinued with effect from 1st January 1958.

ALUMINIUM

Aluminium is the only non-ferrous metal which India can produce in large quantities because of extensive deposits of bauxite and adequate supplies of bulk power. There are two units. Both the plants are reported to be working at more than their capacity level. The Indian Aluminium Co. is working in collaboration with the Canadian Aluminium Co. The principal activities of this company are: (1) the mixing of bauxite in the Lohardaga region of Bihar; (2) the processing of bauxite ore to alumina at Murl, Bihar; (3) the electrolytic reduction of alumina to aluminium metal at Alwaye, Kerala; (4) the rolling of aluminium metal to sheets and circles at Belur, W. Bengal; and (5) the manufacture of aluminium powder and paste at Kalwa, Bombay. The Aluminium Corporation has an integrated plant near Asansol.

At the commencement of the First Five Year Plan, the total capacity of the two plants for aluminium ingots was 4,000 tons and of their rolling mills was 3,500 tons. But at the end of the Plan, the installed capacity of the industry was 7,500 tons of ingots and the fabricating

capacity 25,000 tons per annum. During the period a total investment of about Rs. 2.25 crores is estimated to have been incurred.

A protective duty of 30 per cent *ad valorem* plus a surcharge of 5 per cent of the total duty was charged on imports of aluminium during the period of the First Plan. This protection will continue upto December 31, 1960.

The production of aluminium in tons since 1948 is as follows:—1948-3,369; 1949-3,489; 1950-3,596; 1951-3,848; 1952-3,566; 1953-3,758; 1954-4,886; 1955-7,225; 1956-6,501; 1957-7,784. The present installed capacity is 7,500 tons.

Except bauxite and coal, most of the other raw materials are available only partly or not at all from indigenous sources. Caustic soda and soda are not produced in enough quantities, cryolite, aluminium fluoride, carbon blocks and filter cloth have to be imported, and the possibilities of producing greenland in this country are yet to be investigated.

The demand for aluminium has been estimated at 25,000 tons. It seems that about 35,000 to 45,000 tons of aluminium represent the minimum requirements by 1960-61. The handicaps of the industry are the small capacity of the units, the inherent refractory nature of Indian bauxite which costs more to mine, the low alumina content of Indian bauxite, the high cost of electric power, the cost of railway freight and expensive raw materials such as petroleum coke.

To meet the increased demand, there are different schemes for the expansion of the industry under the Second Plan. The Indian Aluminium Co., Ltd., Calcutta has set up an aluminium smelter at Hirakud. The factory has an installed capacity of 10,000 tons of aluminium ingots per year. The factory was expected to go into production in February 1959. The expansion programme of the Aluminium Corporation of India, scheduled to be completed by the end of 1959, will raise the capacity of their Asansol plant to 5,000 tons per annum. Besides, a new smelter is being erected under the aegis of the National Industrial Development Corporation. An expert body examined the question of the most suitable location for the plant and recommended that two smelters of 10,000 tons each provided with facilities of expansion to 20,000 tons in due course should be set up at suitable sites—Mettur and Rihand Dam area. One of the 10,000-ton smelters is expected to come into operation during the Second Plan period, while the other may commence operation in the early stages of the Third Plan.

By the end of the Second Plan, overall investment in the industry is estimated at about Rs. 22 crores and about 3,000 to 4,000 additional persons are expected to find employment in this industry. The number of smelters will increase from two to four, the installed capacity from 7,500 tons to 30,000 tons and the fabricating capacity from 25,000 tons to 32,000 tons.

Protection to the industry will continue till Dec. 31, 1960 and the existing rate of 35 per cent *ad valorem* would be maintained.

IMPORTS OF NON-FERROUS METALS

	1955-56	Apr.-Dec. 1956	1957	Jan.-Aug. 1958
Aluminium (Cwts.)	316,108	216,045	312,690	120,138
unwrought (Cwts.)	103,594	32,735	151,433	90,535
Brass, Bronze, etc. (Cwt.)	34,757	69,351	77,118	19,533
Copper (Cwts.)	342,445	519,803	116,122	43,180
unwrought (Cwts.)	341,882	499,715	890,579	739,709
old for re-manufacture (Cwts.)	2,302	8,651	N.A.	N.A.
Ferro Alloys (Tons)	991	49	1,096	590
German Silver (Cwts.)	28,610	16,173	N.A.	N.A.
Lead (Cwts.)	265,486	265,487	290,111	275,408
Tin	78,478	59,412	124,301	56,921
Zinc	528,526	597,714	1,066,097	914,557

N.A.—Not available.

OPIUM INDUSTRY

THE area under poppy cultivation for the production of opium and the quantities of opium produced during the opium years (1953-54 to 1956-57) are given below :—

	Opium year	Area Cultivated (Acres)	Produce at 70° Mds.
Uttar Pradesh	1953-54	10,098	3,614
	1954-55	12,521	3,093
	1955-56	12,531	2,324
	1956-57	19,331	3,763
Madhya Pradesh	1953-54	19,999	4,771
	1954-55	19,841	3,775
	1955-56	18,535	4,094
	1956-57	22,420	5,211
Rajasthan	1953-54	12,772	3,247
	1954-55	12,075	2,761
	1955-56	12,114	2,821
	1956-57	17,565	3,977
Himachal Pradesh	1952-53	2,047	85
	1953-54	1,784	45

N B :—The opium year starts on 1st October and ends on 30th September

Only a small percentage of the opium is sold to the State Governments after processing, and the balance is exported for medicinal and scientific purposes. Some opium is also supplied to Pakistan for quasi-medical purposes.

Poppy is generally cultivated and does not grow in a wild state in India, cultivation of poppy for the production of opium is carried on by growers licensed by the Government, on behalf of the Government of India who undertake to sow the poppy, lance the capsules, collect the latex, and deliver the drug at the weighing centre at a price fixed by the Government of India.

The Opium purchased from the cultivators is sent to the Government factories at Ghazipur or Neemuch, where it is chemically tested and prepared for export and internal consumption.

In addition to being a narcotic, opium is used in many essential medicinal drugs. Because of its harmful effect as a dope, the Central and State Governments have adopted various measures to put an end to normal traffic; at present only a very small fraction of the population makes habitual use of the drug.

Poppy cultivation for the purpose of production of opium is confined to the States of Uttar Pradesh, Madhya Pradesh and Rajasthan. The cultivation in the Territory of Himachal Pradesh was discontinued with effect from 1st October, 1954. The cultivation of poppy starts in November and the crop is harvested in April or May. Preparation of the land for the reception of the seed is a prolonged process, the field being given 10 to 15 ploughing.

The quantities of opium exported during the opium years 1953-54, 1954-55, 1955-56 and 1956-57, are given below :—

Opium Year	Exports (in tons)
1953-54 .. .	256-4/14
1954-55 .. .	211-5/14
1955-56 .. .	245-7/14
1956-57 .. .	331

The value of export of opium in 1956-57 was more than Rs 2 crores as against Rs. 1.6 crores in 1955-56. More than half of the export went to the United Kingdom.

At a Conference of the State Governments held in 1949 it was decided to reduce the supply of opium to the States at the progressive rate of 10 per cent every year so that the supply of opium to the public for oral consumption (for non-medical or quasi-medical purposes) might be completely stopped with effect from 1st April, 1959. This decision was reiterated by the All India Narcotics Conference held in September, 1956.

This decision was to become effective from the date mentioned above in pursuance of India's international obligations.

After 31st March, 1959, opium was, however, to be supplied to registered opium addicts through Government Depots on medical permits issued by the appropriate medical authorities.

The quantities of excise opium supplied to the State Governments during the financial years 1953-54 to 1956-57 are given below :—

Financial Year	Mds.	Srs.	Chts.
1953-54	2,514	27	8
1954-55	2,031	20	0
1955-56	1,734	34	8
1956-57	1,287	0	0

In 1944, the Central Government erected an Alkaloids Plant at the Ghazipur Opium Factory for extraction and manufacture of various alkaloids from opium.

The quantities of various alkaloids exported and sold in the internal market during the opium years 1953-54 to 1956-57 are given below :—

Opium Year	Quantity exported	Quantity sold in internal market
	Lb. oz. dr.	Lb. oz. dr.
1953-54	725 0 0	1,784 4 11
1954-55	791 2 3	2,027 5 1
1955-56	760 8 0	2,556 18 8
1956-57	1,253 0 0	3,355 0 0

Illicit traffic in narcotics : In order to make prevention and detection of illicit traffic in narcotics more effective, the States have been grouped into three zones and committees have been constituted in each zone to co-ordinate anti-smuggling activities, in accordance with the recommendations of the All India Narcotics Conference held in 1956.

During the year ending September 30, 1957, 369 cases were registered for violation of narcotics law. Twenty-eight maunds of opium were seized.

PAPER INDUSTRY

THE bulk of the production comprises the more common types of paper, especially printing and writing paper. The manufacture of superior varieties is also undertaken but on a restricted scale. The following table gives the trend of production:—

(In 000 tons)

	1953-54	1954-55	1955-56	1956-57	1957-58	1958 April to July
Printing & Writing ..	92.86	112.23	148.83	183.51	133.55	50.58
Wrapping ..	21.48	24.62	36.37	40.01	37.90	12.04
Special Varieties ..	3.41	5.53	7.15	7.50	6.94	2.15
Paper Boards ..	20.12	26.66	39.52	43.14	40.59	17.70
Total ..	137.89	169.09	231.87	244.26	218.98	82.47

The aggregate installed capacity of the paper industry in 1957 is estimated at 252,000 tons, as against 211,900 tons in 1956 and 186,200 tons in 1955. The total production of paper during the first four months of 1958 was nearly 82,473 tons, as against 68,447 tons in the corresponding period in the year before. In 1957, about 210,000 tons of paper were produced, as against 193,404 tons in 1956.

The gross fixed investment in the industry during 1951-56 was estimated at about Rs. 11 crores and it found employment for about 88,000 persons.

In April 1956, the annual rated capacity of the paper and paper-board industry stood at about 210,000 tons. This capacity is exclusive of the capacity of the Travancore Rayons for transparent paper estimated at 1,800 tons per annum. Newsprint was not manufactured in the country at the beginning of the First Plan. Since then, the State-aided Nepa Paper Mills has been established. But the production target of 27,000 tons has not been reached and the production of newsprint in 1957 is estimated at 14,515 tons, as against 10,792 tons in 1956. In regard to straw-boards, there were in April 1951, 18 factories on the active list of the Development Wing of the Ministry of Commerce and Industry with a total capacity of 48,500 tons per annum. This number rose to 24 in April 1956 with an annual installed capacity of 59,380 tons.

The State-wise distribution of the paper and paper-board industry in April 1956 is given below:—

State.*	No. of units.	Annual rated capacity (tons)
West Bengal ..	4	68,100
Bihar ..	1	29,000
Orissa ..	1	36,000
Uttar Pradesh ..	2	9,500
Punjab and Pepsu ..	1	15,000
Bombay ..	4	11,900
Madras ..	1	600
Madhya Pradesh ..	1	8,000
Andhra ..	1	2,000
Hyderabad ..	1	15,000
Mysore ..	2	11,000
Travancore-Cochin ..	1	6,000
	20	210,100

* Pre-reorganisation.

Imports of paper and paper-board in the recent years are as follows:—

1952-53—21 lakh cwt.
1953-54—25 lakh cwt.
1954-55—27 lakh cwt.
1955-56—30 lakh cwt.
1956-57—26 lakh cwt.

1957 (calendar year) 20.85 lakh cwt.
1958 (8 months ended August) 8.95 lakh cwt.

Exports have not been appreciable in the past. There has, however, been an improvement in shipments from 34,035 cwt. in 1952-53 to 46,586 cwt. in 1954-55 but a decline again to 43,276 cwt. in 1955-56.

During the first eight months ended August 1958, the export was 29,585 Cwt. as against 37,926 Cwt. in 1957 (calendar year).

Paper and paper pulp had protection from 1925 to April 1947.

DEVELOPMENT PROGRAMME

Certain new varieties of paper and paper-board were manufactured for the first time in the country during the First Plan period. These are cigarette tissues, coated boards, art and chrome paper, sensitised cheque paper and cellulose film. The production of transparent paper by the Travancore Rayons also increased appreciably during the period.

The demand for paper and paper-board has developed at a rather faster rate than was visualised in the Plan. The Second Plan envisages the establishment of three hard-board factories. Of these, one, namely, Anil Hard-board Ltd. in Bombay, went into production in November 1958. The annual capacity of this factory is 6,000 tons. The other two factories now being set-up are the 6,000 tons Madhya Pradesh Industries Ltd. and the 3,700-ton Western Indian Plywood Ltd. at Ballapatam.

The capacity of Anil is expected to go up to 40,000 tons in five years.

The following table summarises the development of the paper industry during the First Plan and the planned development during the Second:

	1950-51		1955-56		1960-61	
	Annual rated capacity (000 tons)	Actual output (000 tons)	Annual rated capacity (000 tons)	Actual output (000 tons)	Annual rated capacity (000 tons)	Actual output (000 tons)
Paper and paper-board	186.6	114	210	200	450	350
Newsprint ..	..	..	30	10.8*	60	60
Strawboard and other fibre boards ..	48.5	22	59.3	32.0	59.3	35 to 40

Sabal grass and bamboo are the chief raw materials which are available locally. The use of imported woodpulp has been gradually discouraged and hardly 10 per cent of the raw material is imported. Of late, however, the industry has been placing a greater reliance on rags, hemp, hemp ropes and wastepaper. One important mill is exclusively dependent on wastepaper and rags.

For many years the paper pulp section of the Forest Research Institute at Dehra Dun has been carrying out experimental work in connection with the development of new fibres for paper-making.

During the First Plan period, the consumption of paper and paper-board increased on an average by about 8 per cent. per annum. It is likely it will show a progressive increase of 10 per cent. during the Second Plan. On this basis, the demand by 1960-61 may be about 350,000 tons. The demand for newsprint would go up to 120,000 tons, while that for strawboards and other boards may be placed at 40,000 tons by end of the Plan period. Plans are therefore afoot to step up the capacity. A sum of Rs. 44 crores, over and above the investment of about Rs. 4.25 crores in public sector projects, is expected to be invested in the paper and paper-board industry during the Plan period, to achieve the target capacity of 450,000 tons. The investment on newsprint factories is placed at Rs. 6 crores for 80,000 tons.

NEWSPRINT

The National Newsprint and Paper Mills Ltd. (NEPA) is India's first newsprint mill.† It is situated at Napanagar near Chandani, Nimar District, Madhya Pradesh. It started production in January 1955 and has an installed capacity of 100 tons a day. During 1957 it produced 14,489 tons of newsprint.

A scheme for another newsprint factory is under the consideration of the National Industrial Development Corporation. This is to be established at Shakarnagar in Andhra. It would have a capacity of 100 tons a day.

The production of indigenous newsprint was 2,563 tons in 1955, 10,781 tons in 1956 and 14,489 tons in 1957. In the first half of 1958 it was 9,549 tons.

The present (1950) demand is estimated at 80,000 tons a year and is expected to rise to 1,20,000 tons at the end of the Second Plan.

The import of newsprint was as follows: 1955: 73,600 tons, 1956: 71,450 tons, 1957: 63,750 tons. During the first five months of 1958: 21,550 tons.

The main supplying countries are Canada, Finland, Norway and Austria.

† See also under 'Government Industrial Undertakings'. * Calendar year 1956.

PETROLEUM INDUSTRY

(See under Index for Page No. of article)

PLASTICS INDUSTRY

THE plastics industry in India was largely developed during the Second World War and is primarily concerned with turning out finished product from imported raw

material. At present there are about 110 major factories and several small ones operating on a cottage industry basis.

The present position of the plastic goods is shown below. Figures relate to 1957.

Processes.	No. of units.	Present installed capacity	Production in 1957
Compression moulding ..	47 (major units)	12,350 tons	3.8 million gross articles.
Injection moulding	N A	648 oz.	N A
Extrusion			
Polyethylene films and layflat tubings	6	720 tons	700 tons
P.V.C. unsupported sheets ..	2	2 52 mil. yds	0 39 mil yds
Lamination	1	1 08 mil lbs	0 86 mil. lbs.
Coating			
Leather cloth P.V.C. ..	6	4 70 mil yds.	3 50 mil. yds.
Leather cloth nitrocellulose	1	0 45	0 33 mil. yds.

SECOND FIVE-YEAR PLAN PROGRAMME

There is no doubt that in India the potential demand for different types of plastic goods is large, although it is difficult to foresee the demand for some of the finished plastic goods consumed for non-industrial purposes. It is best therefore, to assess the total requirements in terms of the demand for moulding powders. This is estimated to be about 11,600 tons in 1960-61. To meet this demand the target for capacity during the period is 12,810 tons, which involves an investment of Rs 4 crores.

The production of P.F. moulding powder has been steadily increasing. The relevant figures are given below:

Year	Production (lbs.)
1953	837,600
1954	1,057,200
1955	1,640,400
1956	1,960,000
1957	2,400,000

The annual installed capacity of the P.F. moulding powder sector in 1957 was 2.40 million lbs.

The production for P.F. moulding powder and buttons will expire on 31st Dec. 1959.

There are six units manufacturing polyvinyl chloride (PVC) plastic coated cables, wires and flexibles with an annual capacity

of 11 million yards. Six units are manufacturing leather cloth with a capacity of 8.7 million yards per annum. There is one unit producing phenolic resin laminates, with a capacity of 450 tons per annum. There are six units manufacturing polyethylene films, layflat tubings and have an aggregate capacity of 720 tons. All told the total investment in the industry is estimated at more than Rs 6 crores and the labour employed is over 10,000.

The trend of production of compression and injection moulded goods since 1952 is given below:

Year	Production (million gross)
1952	1.54
1953	1.86
1954	1.31
1955	2.48
1956	3.70
1957	3.80

The articles now manufactured cover a wide range of household consumer and utility items, electrical accessories, telephone equipment, gramophone records, insulated wires, combs, toys, tooth brushes, spectacle-frames, hand-bags, leather cloth, packaging materials, films, industrial items and accessories for automobile engi-

neering, radio and air-conditioning industries. Production of mechanised toys has been an important achievement in recent years.

The production of plastic goods and plastic raw materials in 1957 was valued at over Rs. 10 crores as against Rs. one crore in 1947.

A new factory producing polystyrene moulding powder commenced operation in May 1957. Two other factories—one at Rishra (Calcutta) and the other at Bombay—are being erected to manufacture polystyrene, employing alcohol as raw material. The total capacity of these two units is 5,100 tons per annum. The other schemes which have almost been completed are those for the manufacture of urea formaldehyde moulding powder, P.V.C. Composition from resin and cellulose acetate moulding powder from imported flakes.

Lack of technical personnel is the industry's main handicap. The I.N.T.A.A. therefore, lent the services of a plastics moulding expert to India, who prepared a blue-print for a central tool room costing about Rs 30 lakhs. A plant for the manufacture of urea formaldehyde moulding powder has been installed in Delhi with a capacity of 200 tons per annum initially.

The consuming capacity of the industry in respect of raw materials is about 3,000 tons of Thermosetting moulding powders and about 6,000 tons of Thermoplastic moulding powders. A large part of the raw material is imported. Imports of raw materials were stepped up from Rs 1.1 crores in 1950-51 to Rs 1.9 crores in 1954-55 and to Rs 2.31 crores in 1955-56. Phenol formaldehyde moulding powder, phenol and formaldehyde and alkyl resin are manufactured in the country out of imported basic materials. At present, three concerns, Industrial Plastics Corporation, Plastic Products of India, Satara and Indian Plastics, Kandivli, all in Bombay are manufacturing phenol formaldehyde moulding powder with a combined capacity of 1,182 tons per annum.

The machinery installed in the industry is almost wholly imported. It is estimated that about 250 moulds are used by the industry each year. In 1954, 240 moulds valued at about Rs 15 lakhs were imported as against 280 in 1953. But there are two or three engineering firms in the country making some of the simple types of moulds. In addition, there are about 20 plastic moulding concerns which have set up their own tool rooms.

IMPORTS, EXPORTS

The imports of plastic raw materials, plastic manufactures and leather cloth are given below:

(Rs. lakhs)

	1952-53	1953-54	1954-55	1955-56	(Calendar year) 1956	1957	1958 Jan-Aug
Synthetic Resins & Moulding Powder	140.11	148.10	187.88	231.86	307.74	245.02	141.32
Semi-fabricated Plastic materials	87.53	84.45	87.73	96.08	129.49	175.96	74.68
Finished Plastic goods	11.39	4.12	2.87	5.14	N A	N A	N A.
Leather cloth ..	3.22	5.14	5.19	1.83	N A.	N A.	N A.

N A Not available

By 1961 the plastics processing industry could be expected to obtain locally all the three important raw materials viz. polystyrene, polythene and P.V.C. to the extent of at least 16 million pounds. The consumption of these three plastic raw materials in 1957 was seven million pounds.

The Government has licensed two schemes of total capacity of about 14 million pounds for the manufacture of polythene. One of the plants was expected to be commissioned early in 1959 and the second a year after. The scheme for the manufacture of P.V.C. from calcium carbide had been finalised and the plant was expected to commence operations before the end

of the Second Plan period. Two thousand tons of urea for urea resin and moulding powder was expected to be available from Sindri by the end of 1958.

The country is now an exporter of plastic goods. The following is the yearly exports of plastics from India.

Year	Rs. lakhs
1952-53	13.03
1953-54	15.98
1954-55	14.46
1955-56	7.62
1956-57	7.41
1957	12.47
1958 (Jan.-Aug) ..	0.15

In order to encourage exports, an Export Promotion Council was set up in 1956. The Government also allows rebate of import duty at specified rates on raw materials used in the manufacture of plastic goods intended for export. At present the concession is given on urea formaldehyde, cellulose acetate/cellulose acetate butyrate and polystyrene moulding powders.

Ceylon leads other countries in import of Indian plastic goods. The other importing countries include Burma, Kuwait, Kenya, Saudi Arabia, Tanganyika, Mauritius and Mozambique.

RAYON INDUSTRY

THE rayon industry is a post-war industry. There are at present three plants in operation, viz., Travancore Rayons Ltd., Perambavoor, the National Rayon Corporation Ltd., Kalyan, Bombay, with an annual production capacity of 4 million lb. and 7.9 million lb. respectively of filament yarn and the Sirluk Ltd. in Andhra Pradesh with a production capacity of 4.0 million lb. based on the cellulose acetate process.

The first came into production in July 1950 and the second in February 1951. Both the factories have adopted the viscose process. The third started production in 1954.

Progress on the cellulose acetate plant of Sirluk Ltd. did not keep to schedule owing to financial difficulties. The factory went into production only in June 1954.

A new plant with a capacity of 10 tons of viscose rayon yarn and 10 tons of staple fibre per day was to be set up by the Indian Viscose Corporation Ltd., a Rs. 8 crore project under the joint collaboration of the Silk and Art Silk Mills Association, Bombay, and Snil Viscosa, Italy. The factory was scheduled to go into production early in 1957. Latest reports, however, indicate that no progress has so far been made.

Another plant with an annual estimated capacity of 8 million lbs. of staple fibre is to be set up in the near future by the South India Viscosa Ltd. in collaboration with Italtiscosa Eastern Trading S P A, Milan (Italy) at Mettupalayam in Coimbatore district, with a financial outlay of Rs. 8.4 crores.

The following table indicates the production of rayon filament since 1950-51:

Year	(million lb.)		
	Viscose Rayon	Acetate Rayon	Total
1950-51	0.4	—	0.4
1951-52	6.0	—	6.0
1952-53	8.5	—	8.5
1953-54	10.1	—	10.1
1954-55	11.7	1.4	13.1
1955-56	13.4	2.5	15.9

The potential needs of rayon filament is estimated at 70 to 75 million lb. per annum. The maximum consumption on the basis of import and indigenous production so far was 55.2 million lb. in the period from April 1955 to

January 1956. This suggests that even after the completion of the schemes mentioned above, it will not be possible to meet fully from indigenous sources the demand for rayon.

Staple Fibre: Before the First Five-Year Plan, there was no plant for staple fibre. The factory of the Gwalior Rayon Silk Manufacturing (Weaving) Co. went into production in February 1954 with a capacity of 15 tons per day (11.2 million lb. per annum). The firm expanded the capacity to 18 tons per day in January 1955 and to 21 tons per day in December 1955. The present annual capacity is, therefore, about 7,560 tons. The firm produced 5,712 tons of

staple fibre in 1955 and 7,848 tons in 1956. The First Plan envisaged that consumption would be 14.2 million lb. in 1955-56. But it averaged a little over 28 million lb. per annum during the Plan period and it was expected to be about 30 million lb. in 1955-56.

The investment in the rayon industry during the Plan period is estimated at Rs. 7 crores. This is inclusive of investment in ancillary plants attached to the rayon units for the manufacture of sulphuric acid, carbon disulphide, etc.

The installed capacity and actual production of the rayon industry during the years 1956 and 1957 are given below:

Article	1956			1957		
	No. of units	Capacity tons	Production tons	No. of units	Capacity tons	Production tons
Continuous filament viscose rayon yarn	2	8,160	7,275.69	3	12,900	9,403
Continuous filament acetate rayon yarn	1	1,800	1,413.74	1	1,800	1,606
Viscose staple fibre ..	1	5,400	7,905.85	1	14,400	8,009

The production of yarn in million pounds was 1955: 15.45, 1956: 19.32, 1957: 25.18.

Art Silk Weaving Industry: The Development Council for the art silk industry, set up in 1955, suggested a target of 350 million yards of art silk cloth to be achieved by 1960-61. This will be an increase of about 20 per cent in the present per capita consumption of art silk fabrics.

The Tariff Commission estimated the number of powerlooms engaged in the production of art silk fabrics in 1955 at 44,500. The industry is big and largely concentrated in Bombay with as many as 36,641 of the powerlooms. They provide employment to nearly a lakh of workers. The output of fabrics has registered a marked increase. A wide variety of fabrics such as velvet, velveteen, sharkskin, finishing fabrics, etc. are being produced. Licences have been issued for the installation of over 3,500 powerlooms. In addition, there are a number of handlooms producing art silk fabrics and mixed fabrics. Their exact number is not known, but the Tariff Commission estimates it at 17,000. The capacity of an average powerloom is considered to be 22 yards of cloth per shift and that of four handlooms is considered to be equivalent to one powerloom. Thus the total capacity of

the industry amounts to about 470 million yards on the basis of a single shift.

The production in 1954 was 181.21 million yards; in 1955, 231.16 million yards; in 1956 over 251.86 million yards and in 1957, it was 366 million yards.

A scheme to ensure equitable distribution of art silk yarn to the large scale art silk mills as well as to power looms and handlooms which use art silk yarn is being implemented.

The annual target capacity for the production of art silk yarn has been fixed at 100 million pounds by the end of the Second Plan period. Licences have already been issued under the Industries (Development and Regulation) Act to cover a capacity of 80 million pounds of rayon yarn. Besides, perlon yarn is also intended to be produced.

Three schemes for the production of rayon yarn are expected to be completed before the end of this year. Two more schemes are scheduled to be completed before the end of 1959 while a sixth scheme will take some more time. Three of the schemes are for substantial expansion of the existing industrial undertakings, while the other three are for starting new factories.

IMPORTS

Imports consist of staple fibre, rayon yarn, yarn of rayon staple fibre and rayon piece-goods and were as follows:—

Year	Rayon yarn		Rayon piece-goods		Staple fibre (cut fibre and waste)		Staple fibre yarn	
	Quantity (million lbs.)	Value (Rs. lakhs)	Quantity (million yds.)	Value (Rs. lakhs)	Quantity (million lbs.)	Value (Rs. lakhs)	Quantity (million lbs.)	Value (Rs. lakhs)
1952-53	22.24	7.55	1.15	26.34	4.14	65.50	4.31	74.58
1953-54	39.39	12.04	2.43	51.96	27.22	377.67	1.89	46.04
1954-55	40.85	12.69	4.12	90.69	27.32	374.63	0.51	21.75
1955-56	50.78	15.44	9.84	185.12	14.50	191.67	—	—
1956 (Apr.-Dec.) ..	47.62	13.74	5.56	101.94	34.62	429.04	3.02	26.09
1957	46.86	1,299.88*	3.60	99.92	14.94	201.17	0.63	16.66
1958 (Jan.-Aug.) ..	17.20	448.85*	8.47	71.70	0.16	6.56	0.11	8.65

* Includes viscose and other rayon yarns.

The programme of development for the rayon and staple fibre industry envisaged for the Second Plan is summarised below:

	1955-56		1960-61	
	Annual Capacity	Production	Annual Capacity	Production
Rayon Filament (Million lb.)	22.3	15.9	68.3	68.0
Staple Fibre (Million lb.)	16.0	13.2	32.0	32.0
Chemical Pulp (Tons) .. ..	..	..	30,000	30,000
Art silk cloth (export in million yards) ..	..	2.5	..	10.0

RUBBER INDUSTRY

INDIA produces about 24,400 tons of raw rubber constituting a little over one per cent of the world output.

Of an area of about 238,115 acres under rubber cultivation, nearly 75 per cent is located in the State of Kerala. Other rubber growing areas

are the districts of Coimbatore, Salem, Nilgiris, Madura in Madras State and Coorg in Mysore State. Cultivation on a small scale exists in Assam. The total number of rubber estates registered up to the end of October 1957 was 37,293.

The following are other details:—

Year	Production (Tons)	Tapable Acreage	Average yield per acre in Lbs.
1951	17,148	148,739	238
1952	19,863	170,000	262
1953	20,967	172,800	272
1954	22,493	173,000	291
1955	22,481	207,250	243
1956	21,444	234,351	227
1957	24,000	238,115	225 7

Production in 1958 . 24,314 tons.

To meet the growing internal demand for rubber, the Plantation Enquiry Commission, set up in 1954, urged bringing of new land under rubber plantation. The Commission suggested that 1.2 lakh acres of land should be brought under high yielding rubber by 1965.

The Government is studying a report on the prospective rubber areas in the Andaman and Nicobar Islands submitted by the Rubber Production Commissioner, who visited the Andamans in March, 1957, on an inspection tour for reporting on the possibilities of developing rubber cultivation in these islands.

The progress of the manufacturing industry is given below:—

Product	1956	1956	1957
Footwear (Lakh pairs)	349.2	361.17	368.92
Toys, Balloons, etc. (Lakh Duz)	229.3	255.5	—
Tyres:			
Automobile (000)	882.3	965.45	1,022.04
Cycle (000)	6,748.1	6,314.91	7,152.20
Tractor (No)	24,526	30,771	47,396
Aero (No)	4,408	3,356	4,470
Cab (thousand ft)	370.8	290.3	310.4
Tubes			
Automobile (000)	785.5	955.4	999.75
Cycle (000)	5,593.8	6,373.2	7,027.8
Tractor (No)	23,110	30,714	45,742
Aero (No)	2,444	2,295	2,130
Hoses			
Radiator (000)	186.6	248.8	171.31
Vacuum Brake (000)	409.1	551.6	779.22
Other Types (000 ft)	5,734.8	6,003.5	7,981.7
Fan Belt (000s)	655.3	725.1	852.73
Ebonite (000 lb)	130.3	209.64	239.85
Waterproof (000 yds)	2,119.0	2,574.6	3,077.2
Latex foam sponge (000 lb)	1,489.3	1,776.1	1,955.8

The programme of development for the rubber goods industry envisaged for the Second Plan period is summarised below:—

	1955-56	1960-61
Annual Capacity		
1 Automobile tyres	9,50,000	14,60,000
2 " tubes	9,50,000	14,60,000
3 Bicycle tyres	60,00,000	1,18,00,000
4 " tubes	41,00,000	1,18,00,000
Production		
1 Automobile tyres	9,10,000	14,60,000
2 " tubes	8,10,000	14,60,000
3 Bicycle tyres	57,50,000	1,18,00,000
4 " tubes	55,90,000	1,18,00,000
Exports		
1 Automobile tyres	60,000	1,50,000
2 " tubes	60,000	1,50,000
3 Bicycle tyres	70,000	3,00,000
4 " tubes	90,000	3,00,000

Dunlop opened a factory for the manufacture of 1.5 million cycle tyres and 1.34 lakh giant truck tyres in Feb. 1957 at Ambattur near Madras. The total investment is Rs 2.5 crores. With the establishment of this factory the only type of shortage—giant tyres—would disappear.

IMPORTS AND EXPORTS

Before World War II, India was exporting considerable quantities of raw rubber and

The Rubber Board has meanwhile taken steps to increase the production of this vital and strategic raw material at low cost. Two major schemes it has launched are the Research Scheme and the Replanting Subsidy Scheme.

The price of rubber was raised to Rs 155-12-0 per 100 lbs. in Sept. 1955. It has remained at that level.

With more factories coming into existence every year, the consumption of rubber is increasing. It was 21,063 tons in 1952, 21,998 in 1953, 25,487 tons in 1954, 27,543 in 1955, 29,996 tons in 1956 and 31,500 tons in 1957.

Imports of raw rubber had, therefore, to be permitted in 1954 and 1956. Imports in 1954 were 3,371 tons, in 1955 they were 3,839 tons, 6,463 tons in 1956, 9,861 tons in 1957 and 11,878 tons raw and 3,523 synthetic in 1958.

The consumption of both natural and synthetic rubber by manufacturers during 1957 was about 34,500 tons. The consumption of reclaimed rubber was 3,700 tons.

Consumption in 1958 was 34,765 tons.

RUBBER GOODS

India has a modern manufacturing industry. The variety of goods manufactured covers almost the entire range of requirements of the country. They include tyres and tubes of all kinds, footwear, water-proof rubberised fabrics, ebonite rods and sheets, latex foam cushioning and sponge, hoses of all types, V-belts and fan belts, rubber conveyor belting, and mechanical rubber goods.

Of these, the manufacture of tyres and tubes accounts for about 70 per cent of the total consumption of rubber and bulk of capital investment, followed by foot-wear with 15 per cent annual consumption.

In the case of the majority of these items, with the exception of tyres and tubes, considerable surplus capacity exists in the country.

The total investment in the industry is estimated at about Rs. 13 crores and the number of persons employed is about 21,800.

importing most of the rubber manufactured goods required in the country. At present, the export of raw rubber has not only been stopped but limited quantities are imported to supple-

ment indigenous production. On the other hand, rubber manufactured goods are exported to neighbouring countries and imports are very small.

(In lakhs of Rs.)

	Imports		Exports	
	1957	Jan.-Aug. 1958	1957	Jan.-Aug. 1958
Raw Rubber	420.11	264.08	1.62	0.27
Pneumatic tyres	179.47	85.46	4.10	6.89
Pneumatic tubes	13.70	4.85	0.38	0.71
Bicycle tyres	27.62	23.07	0.24	..
Bicycle tubes	1.56	4.08	0.02	..
Solid rubber tyres	11.23	8.87	0.92	0.87
Other manufactures (excluding apparel, boots and shoes) ..	20.00	14.82	9.65	11.50
Total	673.69	407.08	16.95	19.84

SERICULTURE AND SILK

SERICULTURE is carried on mainly as a subsidiary to agriculture.

In 1957 the total production of raw silk was 30,45,408 lbs. (Mulberry 24,18,853 lbs.; non-mulberry 6,26,555 lbs.). In 1956 the total production was 34,13,245 lbs.

The major portion of mulberry raw silk is produced in Mysore State. This State accounts for more than 70 per cent of the total output of mulberry raw silk in India. The other important States producing mulberry raw silk are West Bengal, Jammu and Kashmir and Punjab. The most important producers of non-mulberry silk are Assam, Madhya Pradesh, Orissa and Bihar.

While the average annual availability of raw silk was about 2.7 million lbs., the annual demand has been placed at 3 to 4 million lbs. by some of the producers' and consumers' associations.

About 64,961 lbs. of spun silk yarn and 58,678 lbs. of non yarn were produced in India during 1957. Out of the total output of silk waste of the order of 19,43,476 lbs. including mulberry and non-mulberry, 7,25,040 lbs. valued at Rs. 32,71,309 are exported to other countries on the recommendation of the Central Silk Board.

The demand for 1958 of spun silk yarn has been estimated at one lakh lbs. only by the Central Silk Board as against the Commission's estimate in 1953 of 1.5 lakh lbs.

On the basis of figures of production and imports of spun silk yarn, it was found that on an average the annual consumption of spun silk yarn for the three years from 1955 to 1957 was .89 lakh lbs.

Imports of spun silk yarn took place to the extent of .49 lakh lbs. valued at Rs. 7.14 lakhs in 1954, .32 lakh lbs. valued at Rs. 4.25 lakhs in 1955, .51 lakh lbs. valued at Rs. 7.4 lakhs in 1956 and .02 lakh lbs. valued at Rs. .39 lakh in 1957.

Protection to the industry would continue at the present level till the end of 1963.

Imports of fabrics were 3.64 lakh lbs. valued at Rs. 75 lakhs in 1954, 4.63 lakh lbs. valued at Rs. 91.87 lakhs in 1955, 1.18 lakh lbs. valued at Rs. 21.25 lakhs in 1956 and 2.58 lakh lbs. valued at Rs. 75.13 lakhs in 1957.

The State Trading Corporation of India (Private) Ltd., imported 2,35,085 lbs. during the licensing period July/December 1956 and January/June 1957.

A further import of 1,09,800 lbs. was arranged during the licensing period October 1957 to March 1958. The entire quantity of 1,09,800 lbs. was received in the Indian Ports during the period December 1957/February 1958.

Out of the above quantity of 3,47,885 lbs. releases to the tune of 2,17,703 lbs. were made as on 28th February 1958.

Exports of silk fabrics are freely allowed to all permissible stations.

The total area under mulberry is about 1,76,211 acres at present. Mulberry is cultivated both as rain-fed and irrigated crop. The yield of leaf per acre per year from rain-fed garden is about 4,000 lbs. Average yield per acre in irrigated mulberry gardens in 1957 was about 12,000 lbs. Whereas the yield per acre from mulberry graft garden was 20,000 lbs.

In Mysore there are about 2½ lakh families who are directly or indirectly engaged in sericulture industry. The total production of cocoons per year is about 900 lakh lbs. and the raw silk produced may be put at 19 lakh lbs. for Mysore. After reorganisation, Madras has lost its importance as a major sericultural area in the south.

Based on the area under mulberry, the total requirement of disease-free layings is estimated to be about 895 lakh layings per annum for Mysore.

CENTRAL SILK BOARD

The Tariff Commission submitted its Report on the Sericulture Industry to the Government of India in 1952.

In 1952-54, the Tariff Commission recommended extension of protection for 5 years from January 1, 1954. As the existing duty inhibited demand by creating a rise in the price of indigenous silk, the duties on raw silk and cocoons, silk yarn, yarn spun from silk waste, silk fabrics like pargos, fugi, etc. should be reduced to 30 per cent *ad valorem* exclusive of surcharge, while the existing rates of duty on silk waste and volla, yarn spun from silk volla and silk sewing thread should be continued.

The Government accepted the proposal for the extension of protection. It decided that the existing rates of duties should not be reduced, but, stated that the position would be kept under watch and suitable action would be taken when necessary.

The Central Silk Board was constituted by the Government of India in the year 1949 under the Central Silk Board Act, 1948. The Board is charged with the responsibility of organising the development of the silk industry in India. It examines the schemes of development formulated by the various State Governments and recommends grants by the Central Government for financing the schemes. The Board came under the administrative control of the Production Ministry on 16th June 1955. Since May 1957 when the Ministry of Production was abolished it has been under the control of the Ministry of Commerce and Industry.

The Board functions with its own funds drawn from the Government of India as grants-in-aid under the Central Silk Board Act. Though the Act empowers the Government of India to levy and collect as a cess an excise duty on flature raw silk and on all spun silk, it has not been considered advisable to invoke the provision of this section in the interest of the indigenous sericultural industry.

The head office of the Board was shifted to Bangalore with effect from 1st February 1957.

Two Officers belonging to the State Governments of Jammu & Kashmir and Mysore deputed to China for training in sericulture, i.e., silkworm seed production and silk reeling, have returned to India. It is proposed to depute three more officers to Japan for training under the Colombo Plan.

In order to lay a sound foundation for the proper development of the industry in all the States, the Central Silk Board emphasised the need to organise research in the more important sericultural States. It was also considered necessary that a small body of men, with considerable scientific knowledge, including those not immediately connected with the sericulture industry, should be formed to review the progress of execution of research in the States, thereby injecting new life into sericultural research, now being conducted in the country.

As part of its drive towards aiding and assisting the implementation of basic development schemes, the Board also arranged periodical visits to this country of eminent sericultural experts from overseas, particularly from Japan. Thus, during the year 1957-58, sericultural technicians in this country had the benefit of working as per the advice of Dr. Y. Tasima, Head of the Morphological Institute of Genetics Division, National Institute of Genetics, Mishima, Shizuoka, Japan, who toured the important sericultural regions in this country towards the close of 1957. Before leaving India, Dr. Tasima submitted a comprehensive Report on the Development of Silk Industry in India, with specific recommendations in respect of each State. The Report was expected to be published towards the end of October 1958.

Another Japanese Sericulturist to visit India during the financial year 1957-58, was Mr. Shobai Kameawa, Chief Secretary to the Committee of Sericulture and Silk Industry in Asia, Kyoto, Japan. Staying in this country for a year, Mr. Kameawa conducted experiments towards the improvement of silkworm rearing.

SECOND FIVE-YEAR PLAN

The Board's programme for the Second Five Year Plan is intended to achieve self-sufficiency in the silk industry by the end of the Plan period.

The capital outlay of the programme under the Second Five Year Plan is estimated at Rs. 5.0 crores which excludes a sum of Rs. 1.5 crores provided for the silk weaving sector. The total estimated outlay of silk and sericulture was Rs. 6.5 crores, as against a negligible outlay of Rs. 1.3 crores in the First Five Year Plan. The actual allocation has since been reduced to Rs. 4.48 crores.

Mulberry Silk: As regards mulberry silk, an important item in the development programme relates to the reduction in costs of cultivation of mulberry leaf through substitution of existing mulberry with high-yielding grafts in both rain-fed and irrigated areas, evolving of new varieties of mulberry of higher yield, and improvement in cultivation methods, manuring, etc. These and other measures for bringing about improvement in mulberry and cocoons will be supplemented by steps to modernise silk reeling, encourage substitution of improved basins for country *charhans* and converting the improved basins for flatures into multi-end basins, and introducing central cooking system and drawing chambers. Utilisation of by-products in the spun silk industry is necessary for the service of the reeling industry and steps are proposed to be taken to rehabilitate and extend the spun silk industry. And as an experimental measure, co-operative societies for raising young worms of the first and second stages collectively are to be established.

Non-Mulberry Silk: As regards non-mulberry silk, the development programme provides for plantations, as well as improvement of basic seed cotton production for eri, *wags* and *lassar*. The organisation of seed supply, improvement of spinning and reeling, marketing, and training and research will be undertaken more or less on lines similar to those for the mulberry silk industry.

State Schemes: The Government of India sanctioned for 1957-58 nearly 175 schemes whose grants amounted to Rs. 32,76,625 and loans amounted to Rs. 22,47,050 for the development of sericulture industry in the various States.

Mysore tops the list of States which received grants, with Rs. 8,42,137, while Assam, West Bengal, U.P., Bihar, Manipur and Jammu & Kashmir follow with grants amounting to Rs. 5,31,161, Rs. 4,81,956, Rs. 2,71,013, Rs. 2,01,150, Rs. 1,73,341 and Rs. 1,52,135 respectively.

STATES

In Andhra Pradesh a model rearing house is under construction in the silk farm at Salval in the Warangal district. The scheme has been in progress since September 1957. The farm is designed to demonstrate and train boys of aboriginal tribes in the Japanese method of mulberry cultivation and rearing of silkworms. For this and for providing working capital for the purchase of cocoons from the rearers a sum of over Rs. 48,000 as grants and loans has been sanctioned to the State. Assistance has also been given to the State to send its personnel for training in other silk-producing States. Sericultural demonstration and propaganda will be organised in the villages of Andhra.

Assam: A sum of Rs. 1,59,010 was sanctioned during 1957-58 towards the extension of the existing sericultural farms and grainages.

The construction of the building for the Sericultural Training Institute at Titabar is under progress. Towards this purpose a grant of Rs. 1,13,300 has been sanctioned to the State Government. Towards extension of existing sericultural farms and grainages in the State a sum of Rs. 1,59,010 was sanctioned as grants. Nearly 87,000 disease-free layings of mulberry and 5,000 disease-free layings of eri silkworm seeds were produced.

Bihar: Tassar rearers numbering 1,500 were given training in the rational methods of tassar silkworm rearing, reeling and spinning. A sum of Rs. 48,000 was sanctioned as grants to the State Government for Tassar Seed Supply Station, Chhabasa.

For establishing a Central Demonstration Silk Farm & Grainage at Mandi, Himachal Pradesh, a sum of Rs. 61,000 was sanctioned as grants to the State Government.

In Jammu & Kashmir, it is proposed to transplant 25,000 plants during 1954-59. A cold storage plant is proposed to be installed at Srinagar Grainage at an estimated cost of Rs. 70,000.

An important scheme, which the Central Silk Board is proceeding with, is that for establishing a Foreign Race Seed Station at Srinagar, which was initially sanctioned in 1950-57.

Under the scheme for departmental plantation for mulberry, 30,000 mulberry plants have been planted throughout the valley on selected sites.

In Mysore the Silk Testing & Conditioning House, Bangalore would soon have a building of its own, towards which a sum of Rs. 65,000 was given as grants during 1957-58. For conducting research on silkworm nutrition a sum of Rs. 25,000 was granted during the same period. Government Silk Filatures are to be modernised at an estimated cost of Rs. 1,37,000. Grants totalling Rs. 1,00,000 have been made towards the establishment of basic seed stations at Kunkul, Bhladi and Doddaballapur, in Mysore State.

At the Indian Institute of Science, Bangalore, research is being continued to establish the mechanism of action of Chloromycetin on silkworms. The food utilization studies, which formed part of this investigation, have been concluded.

Another important Central Scheme taken up during 1954 relates to the setting up of an All India Training Institute in Mysore.

Madras: Under the scheme for expansion of sericulture in Veppanapalli tirka and Rayakotah

range in Salem District, Madras, there has been an increase in the acreage under mulberry and also in the number of people to take to sericulture.

West Bengal: The implementation of the scheme for the establishment of the Foreign Race Seed Station at Kalimpong is progressing well. Under the scheme for young silkworm rearing at Jalalpur, 44,800 disease-free layings were reared up to second moult during 1957.

PRICES

The silk industry was greatly handicapped by the very high level of prices prevailing in the country during 1954-55. Though the landed price of silk was not very high, the actual sale prices were as high as Rs. 54 per lb. in April, 1954. The Government of India, therefore, considered that the best course would be to restrict imports through the agency of the Central Silk Board which should also be entrusted with the distribution of the Silk to the actual users, etc. The entire quantity of 2 lakh lbs. of raw silk imported by the Board in 1955, was lifted by the parties against full payment. The import and distribution of raw silk had a salutary effect in bringing down the prices of not only imported silk but also indigenous raw silk. The stabilisation of the market for silk has helped greatly in infusing a sense of security among the sericulturists. It has also enabled the States with the co-operation and assistance of the Central Silk Board to pursue the development programme for planned development of the industry.

With the stabilisation of the market for raw silk, it has been possible to ensure a steady and fair remuneration to silkworm rearers and cocoon reellers. The level of employment has also been maintained at a satisfactory level, giving part-time employment to nearly five million persons in the several branches of the industry in the villages.

Below we give some facts and figures relating to the industry for the year 1957:

Statement showing the acreage under mulberry cultivation and number of mulberry trees in India during the year 1957 (Provisional):—

State*	Acreage	Trees (No.)
Mysore	1,55,000	2,000
West Bengal ..	12,866	2,70,000
Jammu & Kashmir ..	.	25,00,000
Assam	1,850	10,54,800
Uttar Pradesh ..	2,800	21,82,052
Madras	2,134 75	10,466
Andhra Pradesh ..	938 54	20,000
Bihar	200	5,000
Punjab	114	1,35,000
Manipur	120	2,000
Madhya Pradesh ..	81	450
Himachal Pradesh ..	35	1,16,536
Orissa	12	311
Kerala .. ..	.	..
Tripura .. ..	.	..
Bombay .. ..	.	..
TOTAL	1,76,211 29	62,94,615

Statement showing the production of mulberry silkwaste in the different States of India in 1957. —

State*	Filature	Charka	Total
Kashmir	1,04,768	..	1,04,768
Jammu	15,244	..	15,244
West Bengal ..	5,291	2,08,030	2,13,911
Assam .. ..	..	13,500	13,500
Punjab .. ..	..	8,706	8,706
Himachal Pradesh ..	..	150	150
Bihar .. ..	..	2,550	2,550
Uttar Pradesh ..	200	..	200
Madhya Pradesh ..	..	50	50
Andhra† .. ..	..	125	125
Mysore†	57,550	7,42,450	8,00,000
Madras† .. ..	..	5,000	5,000
Total	1,87,043	9,81,161	1,68,244

† Figures as estimates for 1957.

Mulberry Raw Silk Production

(Provisional) (All in lbs.)

State*	Filature	Charka	Total
Mysore	2,00,000	16,00,000	18,00,000
Madras .. ..	..	10,000	10,000
Jammu & Kashmir ..	1,39,404	..	1,39,404
West Bengal ..	8,093	4,03,906	4,11,999
Punjab .. ..	..	21,400	21,400
Assam .. ..	..	24,001	24,001
Hyderabad .. ..	..	..	..
Bihar .. ..	..	2,700	2,700
Himachal Pradesh ..	..	250	250
Bombay .. ..	..	..	..
Uttar Pradesh ..	3,000	..	3,000
Madhya Bharat ..	..	..	..
P.P.S.† .. ..	..	..	..
Andhra .. ..	..	1,600	1,600
Madhya Pradesh ..	..	99	99
TOTAL	3,50,497	20,67,956	24,18,553

Non-Mulberry Silk Production

(All in lbs.)

State*	Tassar	Eri	Muga	Total
Assam .. ..	..	1,25,000	1,90,000	3,15,000
Bihar	1,04,000	15,000	..	1,19,000
Orissa	34,700	1,610	..	36,310
West Bengal ..	3,735	2,510	..	6,245
Madhya Pradesh ..	1,60,000	..	..	1,60,000
Hyderabad .. ..	..	..	..	..
Andhra .. ..	..	..	..	..
TOTAL	2,92,435	1,44,120	1,90,000	6,26,555

* Pre-reorganization States.

Non-Mulberry Silk Waste

(All in lbs.)

State*	Tassar	Eri	Muga	Total
Assam .. ..	..	3,33,350	76,200	4,09,550
West Bengal ..	1,480	..	..	1,480
Bihar	93,000	..	..	93,000
Orissa	13,005	52	..	13,057
Madhya Pradesh ..	80,000	..	..	80,000
TOTAL	1,57,485	3,33,402	76,200	5,67,087

SHIPPING INDUSTRY

IN 1958 there were in all 25 Indian shipping companies. The total number of ships was 141 and the total tonnage 630,000.

The companies had under construction at the end of 1958, 20 vessels with a total tonnage of 137,000.

When the ships are ready the total tonnage would be 767,000.

The Second Plan target is 900,000. There would thus be still a gap of 133,000 tons, without taking into account possible replacement.

The Second Plan allotment is Rs. 45 crores. In the First Plan the allotment was Rs. 26.3 crores.

At the beginning of 1958, 83 ships with a gross tonnage of 252,000 were engaged in coastal shipping.

At the end of 1958 the country had 362,000 tonnage in the overseas section.

Indian shipping companies now serve the following foreign trades:

India-U.K.-Continent, India-Persian Gulf, India-Australia, India-Japan-Far East, India-East Africa, India-Black Sea ports, India-U.S.A.

There are two Government-sponsored shipping corporations:

The Eastern Shipping Corporation and the Western Shipping Corporation.

The Eastern Shipping Corporation was registered on March 30, 1950 with a capital of Rs. 5.5 crores. It became a full-fledged state enterprise on Aug. 15, 1956.

It has now a fleet of seven vessels.

The Western Shipping Corporation was set up in 1956 with an authorized capital of Rs. 10 crores.

It has only one tanker at present on charter with the Burmah Shell.

In 1959 it was expected to acquire five or nine vessels ordered including a tanker.

It is intended that this Corporation should run the Indo-Polish Service and also function on the Persian Gulf Service. At a later stage it is to extend its operations to the Red Sea.

A great step forward in the development of Indian shipping was taken during 1957 when Government announced its decision to set up a non-lapsable Shipping Development Fund to provide an assured source of rupee finance for the expansion of Indian shipping. The Fund is composed of annual contributions from the Consolidated Fund of India, the quantum of which will be determined from year to year. Repayments against loans already granted to shipping companies are also to be credited to the Fund.

A sum of Rs. 1 crore was provided in the Budget for 1958-59 by way of contribution to this Fund.

Another significant step taken in the field of shipping was the establishment of a Shipping Co-ordination Committee in the Department of Transport. The Committee is intended to bring about better liaison between various Ministries of the Government of India and other Government organisations which have cargoes requiring transport, on the one hand, and the Indian shipping companies, on the other, so as to ensure the maximum utilisation of the available Indian tonnage.

It is hoped that this would result not only in the saving of considerable foreign exchange on freight but also give the necessary fillip for the expansion of Indian tonnage.

Three meetings of the Consultative Committee of Overseas Shipping Interests were held during the year when several important problems such as delays to ships at ports and shipping difficulties in overseas trades were discussed.

SHIPPING ACT

The Merchant Shipping Act 1958 was passed by the Lok Sabha on 17th Sept. 1958. It received the assent of the President on 30th October.

The Act provides for the establishment of a National Shipping Board and a Shipping Development Fund. It also provides for the safety and the efficiency of the merchant marine and the welfare of seamen and passengers.

There will be a Director-General of Shipping to administer the provisions of the Act. There will also be officers under the Act at all ports.

There will be a National Welfare Board for Seafarers to advise Government on welfare problems.

There will be a levy on passenger fares on certain types of ships. The money so collected is to be devoted to passenger welfare.

There will be such an office as that of a receiver of wreck to take possession of wrecked ships and discharge certain duties relating to the office.

There is provision for compensation to passengers suffering damage under certain circumstances.

The Act gives the Central Government authority to fix the rates at which any Indian ship may be hired and the rates which may be charged for the carriage of passengers or cargo by any ship engaged in the coastal trade.

An important provision is about the definition of an Indian ship, the rest of the regulations are concerned chiefly with consolidating much of the law already in existence.

An Indian ship is defined as follows:

For the purposes of this Act, a ship shall not be deemed to be an Indian ship unless owned wholly by persons to each of whom either of the following descriptions applies:—(a) a citizen of India or, (b) a company which satisfies the following requirements namely:—(i) the principal place of business of the company is in India; (ii) at least seventy-five per cent of the share capital of the company is held by citizens of India, provided that the Central Government may alter such minimum percentage; (iii) not less than three-fourths of the total number of directors of the company are citizens of India; (iv) the chairman of the board of directors and the managing director if any, of the company are citizens of India; (v) the managing agents, if any, of the company are citizens of India or in any case where a company is the managing agent the company satisfies the requirements specified in sub-clauses (i), (ii), (iii) and (iv).

(1) Every Indian ship unless it is a ship which does not exceed fifteen tons net and is employed solely in navigation on the coasts of India, shall be registered under this Act. (2) No ship required by sub-section (1) to be registered shall be recognised as an Indian ship unless she has been registered under this Act.

No person shall transfer or acquire any Indian ship or any share or interest therein without the previous approval of the Central Government.

Shipping Board

The National Shipping Board mentioned in the Act was set up on 1st March 1959. It consists of 20 members. They are:

Mr. G. L. Mehta (Chairman), Mr. Raghunath Singh, Mrs. Ila Pal Chowdhury, Mr. Bhawanji A. Khimji, Mr. Purushottamdas B. Patel, Mr. M. H. Samuel, Mr. Ajit Pratap Singh, Mr. O. Pulla Reddy, I.C.S. (Secretary, Ministry of Defence), Mr. S. S. Shiralkar (Joint Secretary, Ministry of Finance), Mr. K. B. Lal, I.C.S. (Additional Secretary, Ministry of Commerce and Industry), Dr. Nagendra Singh, I.C.S. (Joint Secretary, Ministry of Transport and Communications), Mrs. Sumati Morarjee, Mr. A.

Ramaswami Mudaliar, Mr. Vikramsinh S. Vallabhdass, Mr. Dinkar Desai, Mr. Bikas Majumdar, Mr. J. D. Randeri, Mr. Babubhai M. Chinal, Mr. Damodar Mathuradas Ashar, Mr. C. P. Srivastava (Member-Secretary).

HISTORY

The progress of Indian shipping is given in the following table:—

Year.	No. of companies.	No. of ships.	Tonnage (G.R.T.).
1948 ..	15	72	249,261
1949 ..	20	84	332,490
1950 ..	23	90	364,632
1951 ..	23	92	366,646
1952 ..	26	100	383,911
1953 ..	25	111	422,452
1954 ..	30	124	435,300
1955 ..	30	126	465,264
1956 ..	30	125	478,307
1957 ..	25	131	576,500
1958 ..	25	141	630,000

Towards the end of the Second World War, the Planning Department of the Government of India appointed a Policy Committee on Shipping. It observed: "India possesses a distressingly small number of deep sea ships which at the outbreak of the war stood at no more than 30 with a total of less than 150,000 tons gross. The rectification of this state of affairs should be one of the immediate post-war objectives."

This was followed by the constitution of a Reconstruction Policy Sub-Committee, with Dr. C. P. Ramaswami Aiyar as Chairman, in 1945. This Sub-Committee submitted its report in March 1947 which was approved by the Policy Committee. Its principal recommendations were:—

(1) India needs two million gross tons of shipping to carry more than 10 million tons of cargo and about three million passengers a year. The figure does not include country craft.

(2) Hundred per cent of the purely coastal trade of India, 75 per cent of India's trade with Burma and Ceylon and with geographically adjacent countries, 50 per cent of India's distant trades and 30 per cent of the trades formerly carried in Axis vessels in the Orient should be secured for Indian shipping in the next five to seven years.

(3) As the Indian shipping industry is still very young, emphasis should now be placed on how Indian companies can expand their fleets and the Indian Shipping Board should be empowered to control deferred rebates, rate-cutting and all other evils arising from monopolies.

The Government of India, by their Resolution dated July 12, 1947, fully endorsed the views of the Committee. They agreed that the definition of "Indian Shipping" should be shipping owned, controlled and managed by Indian nationals. They also laid down that the following conditions should qualify any shipping company for treatment as "Indian shipping companies":—

(a) The steamers of the companies should be registered at a port or ports in India. (b) At least 75 per cent of the shares and debentures of the companies should be held by Indians in their own rights. (c) All the directors should be Indian. (d) The managing agents, if any, should be Indian.

The subsequent developments may be summarised as follows:—

Plans for setting up three corporations, each with an authorised capital of Rs. 10 crores were announced in November 1947.

The coastal trade of the country was reserved in 1950 for Indian vessels in response to a public demand which had been made for the past 25 years. With effect from January 1, 1951, a new Indian Coastal Conference, consisting primarily of Indian shipping companies commenced functioning and the two British shipping companies became associated members.

FIVE-YEAR PLANS

Taking into account the financial resources available, a programme of development was formulated which aimed at raising the total gross registered tonnage to over 600,000 by the end of the period of the First Five Year Plan. In order to assist the shipping companies in replacing obsolete tonnage operating on the coast and expand Government had provided funds for constructing ships at Vishakhapatnam: a total of 100,000 G R T was expected to become available from this shipyard during the period of the First Plan.

At the beginning of the First Five Year Plan, India had a tonnage of 390,707 G R T. The target under the Plan was to add 215,000 G R T after allowing for obsolescence to the extent of 60,000 G R T, thus increasing the tonnage to 600,000 G R T by 31st March 1956.

On that date the actual tonnage stood at 440,000 tons but taking into consideration the tonnage on order in Indian and foreign yards the target was expected to be reached soon.

In the second Five Year Plan it is proposed that about 301,000 tons should be added after

allowing for obsolescence of 90,000 tons. Thus by the end of the Second Plan, the total tonnage is expected to reach 900,000 G R T.

With the achievement of this target, Indian tonnage is expected to carry at least 15 per cent of the country's overseas trade as against the present 5 to 6 per cent, 50 per cent of the trade with adjacent countries as against 40 per cent at present, besides 100 per cent of coastal trade.

In the First Plan a sum of Rs 19 crores was provided for shipping and this was subsequently raised to Rs 26.3 crores. Actual expenditure over the First Plan period was about Rs 18 crores.

In the Second Plan a provision of Rs 45 crores including the carryover of Rs 3 crores has been made for shipping expansion. The full amount has already been utilised in placing the orders for ships in Indian and foreign yards by the shipping companies in the private and public sector, though the tonnage ordered will be inadequate to enable the merchant marine to reach the proposed target of 900,000 tons.

As already mentioned Government has decided to establish a non-lapsable shipping development fund. The Fund will be built up through (1) annual contributions from the Consolidated Fund of India, (2) all repayment of loans advanced to Indian shipping companies, and (3) all payments by way of interest on such loans. The immediate effect of the constitution

of the Fund is that a sum of Rs. 7 crores representing the repayment of loans and interest charges will become available for further investment in the Second Plan period. This will be in addition to the Rs. 37 crores allotted under the Second Plan.

Another welcome decision the Government has taken is to introduce some uniformity in the rates of interest on its loans to the shipping industry. These rates of interest, which at present are 2½ per cent for the overseas sector and 4 to 4½ per cent in the coastal sector, will be changed into a uniform 'effective' rate of 3 per cent for all loans irrespective of the sector to which they are applied.

Sailing Vessels: A brief note on sailing vessels may be included.

According to the Sailing Vessels Committee's Report it would seem that sailing vessels continue to carry a substantial volume of cargo. It is estimated that 150,000 tons of shipping under sail consisting of about 2,000 vessels carry about a million to a million and a half tons of cargo every year. These vessels employ about 40,000 men, 2,500 masters, 2,500 mates and about 25,000 seamen. Taking the average cost of these vessels at Rs. 250 a ton, the capital outlay is computed at Rs. 4 crores.

SHIP-BUILDING

(See 'Hindustan Shipyard' under 'Government Industrial Undertakings')

SMALL-SCALE INDUSTRIES

Indian industry is made up primarily of small-scale rather than large-scale units. It is reckoned that there are about two crore persons engaged in small-scale and cottage industries.

The small-scale industry is primarily the responsibility of the State Government and not of the Centre. But the Centre supplements the efforts of the State Governments.

It set up six organisations to help promote small-scale industries :

The All-India Khadi and Village Industries Commission, the All India Handicrafts Board, the All India Handloom Board, the Small-Scale Industries Board, The Coir Board, and the Silk Board.

Under the First Plan the Central expenditure through the Boards was as follows :

Khadi and Village Industries : Rs. 15.2 crores, Handicrafts : Rs. 0.8 crore, Handloom : Rs. 12.2 crores, Small-Scale : Rs. 4.4 crores, Coir : Rs. 0.3 crore, Silk : Rs. 0.7 crore.

Under the Second Plan Rs. 200 crores are allotted for the development of village and small industries.

The allocation for handlooms is Rs. 59.5 crores, for khadi Rs. 16.7 crores, for village industries Rs. 34.8 crores, for handicrafts Rs. 9 crores, for small-scale industries Rs. 61 crores, for sericulture Rs. 5 crores, for coir Rs. one crore.

THE SET-UP

This article is about small-scale industries.

The Ministry of Commerce and Industry set up towards the end of 1954 a Division of Small-Scale Industries under a Development Commissioner.

Four regional service Institutes for technical help were set up almost immediately.

A National Small Industries Corporation for financial help and marketing came into being in Feb. 1955. The Development Commissioner is the chairman of the Corporation.

(For a report on the Corporation's work see under 'Corporations').

A small-scale unit has been defined as a unit employing less than 50 persons using power driven tools and equipment, or 100 persons without using power driven tools and equipment and having a capital of not more than Rs. 5 lakhs towards land, building, tools and equipment.

Match manufacturing co-operative societies, tailoring co-operative societies and sports goods manufacturing units are, however, considered as small-scale undertakings irrespective of the number of workers employed in them. But the capital investment in respect of these units also should not exceed Rs. 5 lakhs.

Considerable importance is attached to the development of small-scale industries in the Second Five-Year Plan for the production of consumer goods to meet the large increase in demand generated as a result of heavy investment expenditure.

FINANCES

A sum of Rs. 61 crores has been earmarked in the Second Plan for the development of small-scale industries.

Small-scale industries receive assistance both from the Central and State Governments.

The Government of India have set up four regional Small Industries Service Institutes at New Delhi, Bombay, Calcutta and Madras. There are branch institutes and extension centres at various places all over India.

The institutes render technical assistance to small industrial units in the fields of production, business management, marketing etc.

The National Small Industries Corporation Private Ltd., a Government of India concern,

has a scheme for the supply of machinery on hire purchase basis.

The Government of India do not give direct financial assistance to small industrial units. Loans are granted by the State Directors of Industries under the State Aid to Industries Act.

Medium and long-term loans are also given by State Finance Corporations or Co-operative Banks.

By the end of Sept. 1958, about Rs. 2.59 crores had been sanctioned and Rs. 1.74 crores disbursed to about 250 units.

In order to co-ordinate the activities of the various credit giving agencies, the State Bank of India has started pilot schemes in certain selected centres for assistance to small-scale industries. The State Bank is evolving a procedure whereby an applicant for credit instead of having to approach a number of agencies, has only to go to one local agency, whether it be a State Bank Branch or the State Finance Corporation, or a Co-operative Credit institution.

The local agency will receive and deal with applications for all types of loans.

The State Bank's pilot schemes are in operation in 52 towns.

By the end of December 1958 the Bank had sanctioned advances of over Rs. 2.38 crores to about 700 small industries units. Of this amount, the advances outstanding were Rs. 78.35 lakhs (Nov. 1958).

Of the total advances sanctioned, the Bengal Circle with five pilot centres accounted for Rs. 26.75 lakhs and the Bombay Circle with 12 pilot centres for Rs. 49.56 lakhs. The 26 pilot centres in the Madras Circle accounted for Rs. 68.26 lakhs and the nine pilot centres in the Delhi Circle for Rs. 75.99 lakhs.

ESTATES

Besides giving financial assistance, the State Directors of Industries are also concerned with the allotment of factory space in the industrial estates of their States and for securing power connection and distribution of essential raw materials.

About 580 factories have gone into production in about 43 estates which are still under construction. Seventy-two estates have in all been sanctioned. Twenty rural industrial estates have also been sanctioned for the development of agro-industries.

As regards marketing, the National Small Industries Corporation (Private) Ltd. and its subsidiaries undertake sales promotion on behalf of small manufacturers and carry out publicity for their products through its sales van operations.

The Corporation has also established sales depots at Khurja, Aligarh, Calcutta, Bombay and Agra to extend facilities for pooling, storing and bulk handling of the products of the small manufacturers.

The Regional Institutes carry out marketing and distribution aid surveys to solve small manufacturers' marketing problems and assist them in extending their markets.

INDUSTRIES AND LOCATION

The Office of the Development Commissioner of Small-Scale Industries, New Delhi, carried out a survey in certain areas. The findings of this survey are outlined below. The particulars that follow show the names of the industries and their location in the survey area :

Best Picked : Delhi, Amritsar, Agra, Kanpur, Bombay, Gwalior, Calcutta, Madras, Hyderabad. **Leather Footwear :** Agra, Kanpur, Delhi, Jullundur, Amritsar, Jaipur and villages of the region. **Sports Goods :** Jullundur, Meerut, Delhi, Bataha. **Electric Iron Lampholders Export Type :** Phagwara, Kapurthala, Goraya (Punjab), Ghaziabad (U.P.), Delhi, Sibsore, Calcutta. **Cotton Textile Machinery Spare Parts :** Ahmedabad, Bombay,

Bangalore, Coimbatore. **Hosiery :** Ludhiana, Amritsar, Baharanpur, Banaras, Delhi, Calcutta, Bombay, Ahmedabad, Nagpur, Indore, Gwalior, Belgaum, Tiruppur, Salem, Koshikode, Bangalore. **Surgical Instruments :** Ambala, Ludhiana, Jullundur, Delhi, Calcutta, Patna, Bombay, Madras, Palghat. **Automobile Leaf Springs :** Delhi, Calcutta, Bombay, Mysore, Kapurthala. **Automobile Batteries :** Calcutta, Howrah, Asansol, Bombay, Kolhapur, Madras, Bangalore, Hyderabad, Delhi, Kanpur, Agra. **Glass Scientific Apparatus :** Calcutta, Howrah. **Hand Tools :** Delhi, Districts of Musafarnagar and Meerut, Goraya, Jammu, Srinagar, Bataha, Amritsar, Jullundur. **Pedlocks :** Dawaleshwaram, Dharmavaram, Dindigul, Tilya Dam Site, Manpur (Bihar), Calcutta, Howrah, Distt. of Hoogli and 24 Parganas. **Builders' Hardware :** Madras, Madurai, Dindigul, Kumbakonam, Rajapalayam, Bombay, Poona, Surat, Rajkot, Jamnagar, Ahmedabad, Amritsar, Jullundur, Kapurthala, Delhi, Aligarh, Kanpur, Lucknow, Calcutta, Howrah, 24 Parganas. **Wood-Scrapers, Wire Nails, Penal Pins :** Calcutta, Howrah, Bhagalpur, Rajapalayam, Tiruchirappalli, Ernakulam, Quilon, Trichur, Trivandrum, Bombay, Nagpur, Rajkot, Bulsar, Amritsar, Ludhiana, Faridabad, Delhi, Kanpur, Lucknow. **Diesel Engines and parts :** Bombay, Poona, Kolhapur, Rajkot, Ghaziabad, Kanpur, Lucknow, Ludhiana, Phagwara, Moga, Jullundur, Delhi. **Glass Bangles :** Ghodgeri, Tarapur, Chichan, Kapadwanj, Ferozabad. **Agricultural Implements (Improved Types) :** Distt. of Patna, Gaya, Champaran, Bhagalpur, Burdwan, Bankura, Howrah, 24 Parganas, Darrang, Goalpara, Nowgaon, Sibsagar, Cuttack, Ganjam, Tripura, Patna, Ranchi, Ahmedabad, Anavali, Broach, Bulsar, Mhasana, Junagadh, Morvi, Rajkot, Gwalior, Savarkundala, Indore, Kakinada, Rajahmundry, Vishakhapatnam, Gulbarga, Hyderabad, Madras, Manapal, Trichur, Bataha, Goraya, Phillaur, Kanpur, Allahabad, Banaras, Jullundur, Amritsar, Delhi, Meerut, Alwar, Jodhpur. **Domestic Utensils :** Bombay, Poona, Nasik, Rajkot, Ujjain, Gwalior, Indore, Sibsore, Bataha, Jagadhari, Rewari, Phagwara, Jaudiala Guru, Amritsar, Moradabad, Banaras, Jaipur, Jodhpur and Nagpur, Rajahmundry, Vijayawada, Madras, Kumbakonam, Tiruchi, Karakkudi. **Electrical Porcelainware :** In and around Calcutta and Howrah, Delhi, Feroke and Ithikara. **Industrial Fasteners (Bolts, Nuts, Screws and Dogspikes) :** Howrah, Patna, Ambala, Gauhati, Naggaon, Ludhiana, Jullundur, Amritsar, Faridabad, Bataha, Goraya, Agra, Modinagar, Delhi, Bombay, Bulsar, Cuddapah, Ernakulam, Trivandrum, Kavilpatti, Madras. **Hand Tools :** Rajkot, Bombay, Bulsar, Jamnagar, Calcutta, Howrah, Furuli, Jhalda, Tanasai, Jorhat, Ranchi Distt., Madras, Thiruvananthali, Tiruchirappalli. **Machines Tools :** Bataha, Jullundur, Amritsar, Ludhiana, Delhi, Calcutta, Bombay, Ahmedabad, Harihar, Madras, Koshikode. **Beams Scales :** Dowlaishwaram, Trivandrum, Ernakulam, Nagoreoli, Narkeldanga, Baranagar, Bhangar Area, Delhi, Banaras, Allahabad, Aligarh, Kanpur, Ambala. **Glass Beads :** Ganjam Distt., Bombay, Poona, Amritsar, Aligarh, Ferozabad, Agra, Banaras, Purdilpur Area, Pappanaldupet. **Pedlocks :** Aligarh, Delhi, Kapurthala, Jullundur, Bapat. **Scientific Glass Apparatus :** Delhi, Ambala Cantt., Allahabad. **Sports Goods :** Jullundur, Meerut, Delhi, Bataha. **Soap :** Hyderabad, Palghat, Trichur, Tanjore, Coimbatore, Tiruchirappalli, Bangalore. **Sewing Machines & Parts :** Ludhiana, Bataha, Bassi Pathana, Delhi, Ahmedabad, Jubbulpore, Hyderabad, Calcutta. **Bicycles and Parts :** Madras, Madurai, Coimbatore, Rajapalayam, Hyderabad, Ernakulam. **Bicycles and Parts :** In and around Calcutta, Patna, Jamshedpur, Cuttack, Bombay, Nagpur, Poona, Ahmedabad, Rajkot, Indore, Gwalior, Ujjain, Ludhiana, Jullundur, Delhi, Bataha, Kanpur.

PRODUCTION

The present employment (middle of 1958) and the estimated annual production of small-scale industries are given below. These particulars are also taken from the survey made by the Development Commissioner's office and relate to the area surveyed :

Boot Polish (All India): 447; 9,736 cwts.
 Leather Footwear (Northern Region): 1,16,000;
 31* million pairs. Sports Goods (Northern Re-
 gion): 5,000; 88 lakh rupees. Electric Brass
 Lampholders Bayonet Type (All India): 312;
 16 5 lakh rupees. Cotton Textile Machinery
 Spare Parts (All India): 5,589; 3 crore rupees.
 Hosiery (All India): 53,924; 16 5 crore rupees.
 Surgical Instruments (All India): 915; 28 09
 lakh rupees. Automobile Leaf Springs (All India):
 1,000; 2,262 tons. Automobile Batteries (All
 India): 3,515; 95,000 numbers. Glass Scientific
 Apparatus (Eastern Region): 1,722; 47 4 lakh
 rupees. Hand Tools (Northern Region): 1,650;
 25 4 lakh rupees. Padlocks (Southern Region):
 449; 25 thousand dozen. Builders' Hardware
 (Southern Region): 600; 13 7 lakh rupees.
 Builders' Hardware (Western Region): 1,500;
 19 5 lakh rupees. Builders' Hardware (Northern
 Region): 2,000; 36 9 lakh rupees. Builders'
 Hardware (Eastern Region): 1,280; 37 8 lakh
 rupees. Wood Screws, Wire Nails, Panel Pins
 (Eastern Region): 955; 1,647 tons. Wood Screws,
 Wire Nails, Panel Pins (Southern Region): 255;
 6 9 lakh rupees. Wood Screws, Wire Nails, Panel
 Pins (Western Region): 503; 8 3 lakh rupees.
 Wood Screws, Wire Nails, Panel Pins (Northern
 Region): 645; 20 7 lakh rupees. Diesel Engine
 and Parts (Western Region): 812; 1,114 engines.
 Diesel Engine and Parts (Northern Region):
 1,501; 992 engines. Padlocks (Eastern Region):
 241; 5 3 lakh rupees. Glass Bangles (Western
 Region): 192; 0 4 lakh rupees. Glass Bangles
 (Northern Region): 6,070; 141 5 lakh rupees.
 Agricultural Implements—Improved Types
 (Eastern Region): 79,474; 34 2 lakh rupees.
 Agricultural Implements—Improved Types
 (Western Region): 2,400; 81 0 lakh rupees.
 Agricultural Implements—Improved Types
 (Southern Region): 1,981; 45 0 lakh rupees.
 Agricultural Implements—Improved Types
 (Northern Region): 1,894; 46,800 tons.
 Domestic Utensils (Western Region): 8,000;
 104 5 lakh rupees. Domestic Utensils (Northern
 Region): 41,400; 6 49,400 mds. Domestic
 Utensils (Southern Region): 2,098; 14 6 lakh
 rupees. Electrical Porcelainware (L.T.) (Eastern
 Region): 224; 325 tons. Electrical Porcelainware
 (L.T.) (Northern Region): 129; 134 tons; 1 8
 lakh rupees. Electrical Porcelainware (L.T.)
 (Southern Region): 209; 2 3 lakh rupees.
 Industrial Fasteners (Bolts, nuts, Rivets and
 Dogspikes) (Eastern Region): 2,600; 7,140 tons.
 Industrial Fasteners (Bolts, nuts, Rivets and
 Dogspikes) (Northern Region): 528; 2 614 tons.
 Industrial Fasteners (Bolts, nuts, Rivets and
 Dogspikes) (Western Region): 700; 1,766 tons.
 Industrial Fasteners (Bolts, nuts, Rivets and
 Dogspikes) (Southern Region): 329; 783 tons.
 Hand Tools (Western Region): 436; 14,547
 dozen. Hand Tools (Eastern Region): 1,650;
 14 7 lakh rupees. Hand Tools (Southern Region):
 63; 4 0 lakh rupees. Machine Tools (All India):
 4,400; 209 0 lakh rupees. Beam Scales (Southern
 Region): 291; 4 0 lakh rupees. Beam Scales
 (Eastern Region): 724; 8 7 lakh rupees. Beam
 Scales (Northern Region): 270; 4 0 lakh rupees.
 Glass Beads (Eastern Region): 8; 2 0 thousand
 rupees. Glass Beads (Western Region): 624;
 4 0 lakh rupees. Glass Beads (Northern Region):
 2,775; 27 0 lakh rupees. Glass Beads (Southern
 Region): 700; 9 0 lakh rupees. Padlocks
 (Western Region): 100; 0 9 lakh rupees. Pad-
 locks (Northern Region): 10,000; 27 0 lakh
 rupees. Scientific Glass Apparatus (Western
 Region): 22; 1 7 lakh rupees. Scientific Glass
 Apparatus (Northern Region): 170; 3 0 lakh
 rupees. Sports Goods (Northern Region): 5,000;
 88 0 lakh rupees. Soap (Southern Region):
 7 400; 32,000 tons. Sewing Machine and Parts
 (All India): 5 A; 40,000 machines. Bicycle and
 Parts (Southern Region): 600; 20 0 lakh rupees.
 Bicycle and Parts (Eastern Region): 986; 30 6
 lakh rupees. Bicycle and Parts (Western Region):
 335; 17 7 lakh rupees. Bicycle and Parts
 (Northern Region): 5,755; 199 0 lakh rupees.

MARKETING

As already mentioned the most important means for marketing the goods is the National Small Industries Corporation.

* Indigenous & Western style.

† Including Blacksmiths & Carpenters.

Some items are reserved for procurement by Government Purchase Departments exclusively from small-scale units. These are: padlocks, metal boxes, sign boards, metal buttons, badges, belt leather, cash bags, chappals and sandals, leather boxes and leather bags. Efforts are being made to add some more items to this list.

There are some items which can be procured both in the large-scale and small-scale sectors. For this group small units have a preference upto 15 per cent over the acceptable quotations from large-scale units, depending on the merit of the goods.

The number of small-scale industrial units considered capable of supplying various stores required by Government and enlisted with the Small Industries Service Institutes was 2,960 at the end of September 1958.

The total orders for the supply of goods to Government through the Corporation were worth Rs. 84 lakhs during the first six months of the financial year 1958-59.

In 1957-58 the total value was Rs. 62 15 lakhs.

Sales effected through the mobile sales vans of the Corporation fetched about Rs. 1 5 lakhs during the same period.

In addition, sales through the wholesale depots, set up by the Corporation, during the period were valued at over Rs. 6 74 lakhs (1957-58).

Under the van operation scheme, launched towards the end of 1955, there are now three vans operating in each of the four regions with headquarters at Bombay, Calcutta, Delhi and Madras.

These vans are stocked with goods selected for sales promotion, which are purchased directly from small manufacturers. They carry them to the doorsteps of consumers in small towns and villages.

The wholesale depots help to solve some of the marketing difficulties peculiar to small industrialists, such as the limitations imposed by lack of standardisation and lack of trade names.

There are seven wholesale depots, at Agra for leather footwear, at Khurja for pottery, at Bombay for paints and varnishes, at Calcutta for hosiery, at Benigantha for glass beads, at Aligarh for locks and hardware and at Ludhiana for sewing machines, cycles and woollen hosiery.

Here one should also mention the 24 pilot projects for cottage and small-scale industries initiated on April 1, 1956 in 24 community development blocks. The projects were started by the All-India Development Boards namely, the Khadi and Village Industries Commission, the All India Handloom Board, the Small-Scale Industries Board, the Central Silk Board, and the All India Handicrafts Board.

The projects cover 12,300 villages, with an area of 16,800 sq. miles, and a population of six million.

Each of these projects has a number of training centres. The total number was 148 on March 31, 1958.

The value of the goods produced at the pilot projects was over Rs. 226 lakhs in the two years ending March 31, 1958.

SERVICE INSTITUTES

Economic and commercial information useful to small industrialists, who want to start new industrial units, is provided by the Small Industries Service Institutes set up by the Government of India.

The Institutes give broad outlines of the potentialities of different small-scale industries. They supply information on the number of existing units, their production and installed capacities as well as the present consumption, future demands and export possibilities for their products.

Information about the working capital required for a new unit, suppliers of machinery and raw materials, and markets for the sale of products, is also made available by the Institutes.

There are 14 Small Industries Service Institutes in the country.

They are located in New Delhi, Bombay, Calcutta, Madras, Agra, Jaipur, Ludhiana, Bangalore, Indore, Rajkot, Patna, Cuttack, Gauhati and Srinagar.

Small manufacturers and entrepreneurs may contact their nearest Institute for obtaining the information they require.

To meet general enquiries a small booklet entitled "Information for Small Industrialist" has also been published by the office of the Development Commissioner for Small Scale Industries, Ministry of Commerce and Industry.

The booklet, besides describing the organisational set-up for the development of small industries, details a number of concessions and facilities offered by Government to small industrialists.

The Institutes have secured the services of 13 foreign technicians and consultants with the assistance of the Ford Foundation. These experts are concerned with furniture designs, machine tool designs and the manufacture of clocks, surgical instruments and electric motors.

The Institutes have also 47 mobile demonstration vans fitted with modern machine tools and equipment. They are equipped for demonstration in blacksmithy, carpentry, shoe-making and leather goods, sheet metal products, glass industry, enamelling, pottery, general engineering and electroplating.

The vans tour the rural areas for demonstration of modern machinery and techniques for various operations and processes.

Inquiries are received by the National Small Industries Corporation for hire-purchase of the machines displayed.

During the first six months of the current financial year 466 centres were visited by these vans and about 1,750 artisans were trained in the operation of machines and tools.

It is estimated that in the first half of the financial year 1957-58, about 10,000 small industrialists were given technical advice by the Service Institutes. About 3,500 parties were given information about new industries which they were proposing to start. Over 8,000 were given such assistance as the supply of marketing survey reports, enlistment under Government purchase programmes and recommendations for the supply of machinery on a hire-purchase basis.

The addresses of these Institutes, some major* some branch are given below:

Northern Region

Regional Institute: 56, Sunder Nagar, New Delhi.

Major Institutes: B-XV-1679, Ferozepur Road, Ludhiana; Mirza Ismail Road, Jaipur; 616, Mandi Syed Khan, Agra; School of Design Building, Karamnagar, Srinagar.

Branch Institute: 18 Colvin Road, Allahabad.

Western Region

Regional Institute: 40-40A, Cowasji Patel Street, Bombay.

Major Institutes: Land Mortgage Bank, New Building, Rajkot; Govindram Seksaria Technical Institute Building, Opp. Nehru Park, Indore; 193, 6th Cross Road, Gandhi Nagar, Bangalore.

Branch Institutes: Bachi Lodge, Chib Road, Hubli.

Eastern Region

Regional Institute: 4, Camac Street, Calcutta.

Major Institutes: Brookshire Path, Patna; Tinkonia Bagicha, Cuttack; Bharalumukh, Gauhati, Assam.

Southern Region

Regional Institute: 20, Rutland Gate, Madras.

Major Institutes: Iftakar Mansion, 79, Attambad, Hyderabad; Near Police Parade Grounds, Trivandrum.

Extension Centres

Punjab: Bawari, S.I.S.I. Extension Centre (for Leather & Metal Industry); Ambala Cantt., Shiv Nivas, Panjabi Mohala (for Scientific glassware); Batala, 9, Guru Nanak Nagar (for Foundry and Agricultural Implements); Faridabad, S.I.S.I. Model Workshop, near Railway Station (for Carpentry).

U.P.: Ferozabad, S.I.S.I. Extension Centre, Park Buildings (for Pressed Glassware and Bangles); Meerut, 291, Garh Road (for Sports goods).

New Delhi: (Bal Sahyog), Connaught Circus, New Delhi (for Tailoring, Tinsmithy, Wood working, Can-making).

Bombay: Kolhapur (for Carpentry, Forging and heat-treatment); Jamnagar (for Electroplating), Khanapur (for Potterywares).

West Bengal: Tanar, 33 7, North Tapasala Road, Tangra, Calcutta-19 (for Tannery); Habra, 24-Parganas (for Model Blacksmithy Workshop); Barul-Pore, 24-Parganas, Piali Nagar (for Model Carpentry Workshop), Calcutta, 58/5, B.H.T. Road, (for Leather goods).

Madras: B. P. Agraharam, Erode (for Leather Finishing).

Kerala: Westfort, Trichur (for Footwear).

Ford Foundation

It is necessary to mention here that the Ford Foundation played an important part in the setting up of these Service Institutes. The Foundation was in fact the chief inspirer of the idea.

In May 1954 an International Study Team made certain recommendations to the Indian Government on the development of India's small industries. The Team, which had come with Ford Foundation sponsorship at the invitation of the Government, had been asked to make recom-

mendations on setting up a small industry research and service Institute.

The International Team's key recommendations were for setting up four Regional Small Industry Service Institutes with branches and extension sub-units to develop and teach use of new production methods and tools to small industries all over the country.

A further recommendation was for a National Small Industries Corporation which would assist small manufacturers commercially—with credit to buy raw materials and with marketing of products, especially through channelling of Government procurement.

The Ford Foundation in 1955 gave a grant of \$1,300,000 to equip the Institutes. In the early fall of 1954 two consultants provided by the Ford Foundation from the Bureau of the Budget and the Small Business Committee of the U.S. Senate, drew up an organisational plan for a National Small Industry Corporation.

In a second major grant to the Indian Government of \$2,163,000 in December 1957 the Ford Foundation gave support to the setting up of these two additional tiers of the extension system and supplementary funds for equipping the four initial Institutes.

In the extension work in many specialized fields, assistance had been taken from European technicians. Under Ford Foundation grants to the Government, till the end of 1958, 20 foreign consultants had been engaged largely from the U.K., Germany and the Scandinavian countries. The consultants have been in the following fields: footwear, electric motors, machine tools, wood carving, surgical instruments, clocks, furniture design, electro-plating, locks, electro appliances, and design instruments.

To assist in the overall problems of developing small industries, the Ford Foundation had at the Government's request brought till the end of 1958 three programme consultants in small industries, one from the U.S., and two from France and, through a grant to Stanford Research Institute, California, enabled Stanford to provide industrial economists principally to assist the NSIC in economic and market research.

FUTURE PLANS

Arrangements are being made to establish a major institute for small industries operating as an extension centre in every one of the 14 States by the end of 1959.

Recruitment of staff is already under way.

Another important step being taken by the Government to accelerate the development of

small industries is to establish one specialised technical centre for small industries in each State to be located in an industrial estate.

The Indo-German machine tool prototype centre at Okhla (Delhi) will be ready by 1960. The T.C.M.-assisted centre at Rajkot is progressing. An Indo-Japanese foundry and light engineering centre at Calcutta is under negotiation. A Swiss team was due to discuss the establishment of a technical training centre for the watch industry. The French Government has offered to co-operate in setting up a precision instrument production centre at Guindy, in Madras. A regional institute has been started in Bombay with Soviet help. Other centres may also be established with Polish and Australian assistance.

These centres will train Indian technicians in the manufacture of precision instruments and the production of proto-types for small industries. There will be one centre for each State.

The development of small industries has also revealed a large fund of inventive skill among artisans and craftsmen. A number of new instruments and machines have been designed and manufactured with promising results. In order to encourage this trend, the Government proposes to constitute a board for the promotion of small inventions. The Board will help with development and research and will award suitable prizes for successful inventions after due experimentation and trial.

Another line of action will be to try and induce large industrial units to place ancillary orders on small plants instead of burdening themselves with trying to manufacture a whole range of parts and fittings.

The techniques practised by small industries abroad are also to be studied.

The Planning Commission proposes to send a small team of experts to China. It is also proposed to send an expert team to Japan to study the methods of financing small industries by scheduled banks and governmental and non-governmental agencies.

The National Productivity Council was to send abroad a 12-man team to study the latest developments in productivity, methods and organisation in small industries in a number of countries.

A suggestion for the establishment of a nationwide federation of associations of small industries is also under consideration.

The growth of industrial estates will also help the growth of small-scale industry.

STEEL INDUSTRY*

THE first successful and the most outstanding attempt to manufacture steel in the country on a commercial basis was that of the Tata Iron & Steel Co. which started its Steel Works at Sakchi in the year 1906. Pig iron was made in 1911 and the first steel ingot a year later.

The Indian Iron & Steel Company was started in 1918 at Hirapur about 4 miles from Anasol junction on the Eastern Railway for producing pig iron. Eighteen years later it floated another company, the Steel Corporation of Bengal to manufacture steel. Towards the end of 1952 the two companies were merged.

An iron works was started at Bhadravati in Mysore State in 1951 to which a steel plant was added in 1954. During World War II, a 25-ton basic furnace together with two small electric furnaces were installed.

The combined capacity of all these three factories in August 1958 stood at 2,972,000 tons of pig iron and 1,780,400 tons of finished steel.

The total capital investment in the private sector is about Rs. 191 crores and the number of workers employed about 60,000. Of the total investment, Tatas account for Rs. 135 crores and the Indian Iron and Steel Co. for Rs. 56 crores.

In the public sector there is the Hindustan Steel (Private) Ltd. re-formed on April 1, 1957. The shares are owned wholly by the Central Government. The authorized share capital is Rs. 300 crores.

Under Hindustan Steel three plants are under construction—at Rourkela in Orissa, Bhilai in Madhya Pradesh and Durgapur in West Bengal.

Each of these has a production capacity of about a million tons with scope for increase. Rourkela and Bhilai are to go into production in Oct. 1959, while Durgapur will not be completed till about the middle of 1961.

(For details see under 'Government Industrial Undertakings').

The recent trend of production in India is given below:—

Year.	Pig Iron.	Steel Ingots.	Semi-finished steel.	(000 tons) Finished steel.
1951	1,709	1,500	1,249	1,076
1952	1,685	1,578	1,308	1,103
1953	1,655	1,507	1,230	1,018
1954	1,793	1,685	1,452	1,243
1955	1,757	1,704	1,457	1,260
1956	1,807	1,738	1,464	1,337
1957	1,789	1,715	1,440	1,348
Jan-July 1958	1,114	1,012	849	748

A scheme envisaging the establishment of steel plants as small scale industry in those regions which have rich iron deposits is now under the active consideration of the Government of India.

* See also under 'Government Industrial Undertakings'.

A team of experts is to be sent to China and Japan to study the working of the industry there.

If the scheme eventually materialises it is likely that it will be initiated in Baladilla in the Bastar District of Madhya Pradesh which is rich in iron ore deposits.

PRICES

Since 1924 there have been three main tariff enquiries into the case of the iron and steel industry—in 1924, 1926 and 1934. In between there were three supplementary enquiries and five special enquiries for the subsidiary industries in India.

The scheme of protection sanctioned as a result of the tariff enquiry held in 1934 was to remain in force for seven years till 31st March 1941. Before, however, this protection expired, World War II intervened, and the protective duties on imported steel were continued from time to time by continuation Acts, the last extension being for a period of one year till 31st March 1947.

Alloy, tool and special steel were protected upto 31st Dec. 1955.

Since the war in 1939 the price and distribution of steel have been controlled by the Government.

The prices of all controlled categories of steel were raised by Rs 70 per ton uniformly in May 1957. The increase followed the enhancement of excise duty on steel from Rs 4 per ton to Rs 40 per ton with effect from 16th May 1957.

The retention prices of steel produced by the Tata Iron and Steel Co. were raised by an average figure of Rs. 32 per ton for 1952-53, Rs. 47 per ton for 1953-54 and Rs. 87 per ton for 1955-56 as a sequel to an inquiry by the Tariff Commission.

For the Indian Iron and Steel Co., the Tariff Commission submitted a report in 1954. It recommended an increase of Rs. 66 per ton for the period 1951 to 1956. But the Government decided on an average increase of Rs. 59 per ton and fixed the period from 1953 to March 31, 1955 and a further increase of Rs. 15 per ton for 1955-56.

On 13th October 1953, the Government of India announced an increase of Rs. 14 per ton in the retention prices paid to the Tata Iron and Steel Company and the Indian Iron and Steel Company.

The increase is on top of an increase of Rs. 12 per ton announced in July 1957. The latest increase, like the one granted in 1957 will be equated over the entire period of five years 1955-56 to 1960-61. This does not, however, take into account the additional excise duty levied on 16th May 1957. Adjustments to compensate this increase is allowed only on despatches from that day.

Based on the effect on finished steel, the incidence of the additional duty comes to Rs. 45 74 per ton, such being adjusted from the date of levy.

It was in February 1956 that the Tariff Commission fixed the retention price at Rs. 393 per ton for the five-year period 1955-56 to 1960-61. Since then, excluding the incidence of excise duty, the increase in retention price (to compensate for the rise in costs) granted to companies has been Rs. 26 per ton.

This brings the present retention price of steel to Rs. 419 per ton. If the incidence of excise duty is also taken into account, the retention price comes to Rs. 464 74 per ton.

Retention prices for tin plates were also revised during 1954 and on the recommendation of the Tariff Commission, they were fixed at Rs. 307 per ton for 1953 the same level as for 1952 and were reduced to Rs. 762 9 per ton for 1954-55.

The sale prices of pig iron was raised by Rs. 60 per ton with effect from 11th June 1956, in order to accommodate the enhanced retention prices payable to producers, to provide funds for sale at uniform prices at all rail heads, and to finance pig iron imports on a subsidised basis.

RAW MATERIALS

The important raw materials are iron ore, coking coal, manganese ore, refractories made from magnesite, dolomite, chromite, fireclay, etc. and fluxing materials like silica, limestone and fluor-spar. Sulphur is also required for the manufacture of sulphuric acid.

In regard to most of these raw materials, India enjoys a favourable position. The deposits of iron ore are plentiful and of a superior quality, the average iron content of the ore being as much as 68 per cent as compared with 40 per cent in Europe and 50 per cent in the U.S. This is also true of manganese ore, magnesite and dolomite. Known deposits of coking coal are estimated at between 1,500 and 2,000 million tons.

The principal raw materials brought from abroad are spelter for galvanising, tin for tin plates, ferro-tungsten, nickel, chromium and fluor-spar. Deposits of fluor-spar are located in Madhya Pradesh; but they are yet to be exploited.

As raw materials account for nearly 80 per cent of the cost of pig iron and 60 per cent of the cost of finished steel, they provide the explanation for the low cost of steel produced in India.

RE-ROLLING MILLS

The re-rolling mills manufacture a variety of products from blooms and billets.

In addition to these, a few are manufacturers of special products such as tin plates, wire and wire products, fish plates and spikes, bars and rods, bolts and nuts, rivets, spring steel, hoops and strips and are called "secondary producers". Their number during the First Plan was eight.

At the end of 1955, there were in existence 142 re-rollers—20 registered rollers and 122 unregistered re-rollers—with an annual capacity, on a three-shift basis, of 335,000 tons and 383,000 tons respectively. Their output has been as follows.

	Registered (Tons)	Unregistered (Tons)
1951	73,179	23,510
1952	68,636	25,426
1953	83,349	28,554
1954	109,332	37,068
1955	120,306	53,336

The existing capacity of the re-rolling mills of various categories, including secondary producers as on 1st November 1955 was about 700,000 tons per annum on one shift basis.

The Government of India has agreed to the setting up of four new steel re-rolling plants, one each in Kerala, Andhra, Assam and Bihar.

In addition, some plant and machinery have been licensed by the Iron and Steel Controller to be obtained from abroad or indigenously, mainly for replacement. There is reason to believe that most of the plant and machinery now to be arranged will have the effect of increasing the capacity of the re-rolling units. Such additional capacity has been assessed at 104,760 tons per annum and may be taken as the projected additional capacity.

While the major part of the existing capacity is based on the use of billets, quite a few units, particularly smaller units, depend on re-rollable scrap for their operation. Re-rollable scrap is not the proper material for the manufacture of quality product, but its use will be continued in mills below 8" sizes. These can operate economically on re-rollable scrap. The capacity of such units which can suitably run on re-rollable scrap is 26,500 tons per annum. The remaining capacity should be taken as based on billets. It comes to 1,325,766 tons on double shift.

The re-rollers at places like Amritsar, Jalandhar, etc. situated at considerable distance from the ports had to incur heavy freight charges which inflated their production costs. Relief was given to them from May 1954 through the fixation of a maximum freight charge at Rs. 60 per ton. Similarly in 1954-55 the Government extended the port prices to Jamshedpur and Burnpur to encourage the growth of industries in the vicinity of steel plants.

EXPANSION

The target for the Second Plan is six million tons of ingot steel or about 4.7 million saleable steel. This target will be achieved partly through the expansion of existing plants as follows:

Tata Iron and Steel from the existing 780,000 tons to 1,500,000 tons.

Indian Iron and Steel Co. from 330,000 tons to 800,000 tons.

Mysore Iron Works 30,000 tons to 100,000 tons.

And partly through the coming into operation of the three plants in the public sector now under construction:

Kourkela	730,000 tons
Bhilai	770,000 "
Durgapur	790,000 "
Total 4,680,000 tons in all.	

In all, the steel expansion programme is estimated to cost around Rs. 439 crores.

The Tata expansion plans were to take place in two stages, first to 850,000 tons, and then to 2,000,000 tons of steel ingots to be rolled into 1,500,000 tons of finished steel. About 50 per cent of the programme had been completed by April 1958.

The company obtained for this purpose two loans from the World Bank totalling 32.5 million dollars and one from the Government of India of Rs. 10 crores.

The expansion is being undertaken through agreement with Henry J. Kaiser Co of California, U.S.A.

Early in 1957 the first stage of the expansion scheme was reached when two 100-ton open hearth furnaces were put into operation.

The Indian Iron and Steel Co. has obtained from the World Bank two loans totalling 50 02 million dollars to meet the foreign exchange cost of the expansion programme. The Central Government has given a loan of Rs. 7.9 crores and a special advance of Rs. 10 crores.

The first of the two new blast furnaces went into operation in Feb. 1958 and the second was expected to go into production at the end of 1958.

(For the Mysore Iron and Steel Works see under 'Government Industrial Undertakings').

The total output of saleable steel during the Second Plan period is estimated at about 11 million tons as against the overall requirements over the five years assessed by the Planning Commission at about 17 million tons. Production will be equal to the demand only in the last year of the Plan.

To relieve shortage due to the wide gap that exists between the demand for steel and the supplies available from internal sources, there have been sizable imports of steel amounting to about 177,000 tons in 1951, 195,000 tons in 1952, 247,511 tons in 1953, 287,401 tons in 1954 and 304,000 tons in 1955. Of this, the imports of steel during the years 1952-53 and 1953-54 under the T.C.A. programme amounted to 12,326 tons and 97,784 tons respectively, while imports in 1954 totalled 119,250 tons.

The aggregate imports of steel during 1957 amounted to 15.4 lakh tons as against 18 lakh tons in 1956. Arrangements had been made with various countries, including the U.S.S.R., W. Germany, Japan, the U.K., Poland, China, Belgium and Yugoslavia, for the supply of steel during the period 1954-56.

An agreement has been signed with the Soviet Union for the supply of one million tons of steel in the first three years of the Plan period.

During 1956 about 216,000 tons of steel costing Rs. 10 crores might be imported under the agreement.

India has also asked for a loan of one million tons of steel from the U.S.A.

During the First Plan, exports of steel were mainly restricted to obligations arising from bilateral trade agreements and other inevitable commitments. With the completion of the steel development programmes, Indian steel should be available for export, especially to the whole of South-East Asia. The Second Plan envisages an export target of 2 lakh to 3 lakh tons of steel in 1960-61.

SUGAR INDUSTRY

THE sugar industry is the second largest industry in India, next only to the cotton textile industry, with a capital of about Rs. 73 crores of which about Rs. 30 crores is fixed capital and Rs. 43 crores working capital. The annual value of the industry's products for 1956-57 is about Rs. 165 crores.

On the basis of an average operating season of 120 working days and assuming a recovery of 10 per cent sugar, the rated capacity of the 168 factories existing in 1957-58 is estimated to be over 2.30 million tons of sugar per annum. This is expected to rise to 2.5 million tons in 1960-61. The target for 1958-59 is 2.2 million tons.

The labour employed in sugar factories is roughly 140,000 skilled and unskilled workers, and about 3,000 University-educated men. The total earnings of these workers represent about 5 per cent. of the national wages and salaries. The industry supports 20 million cultivators. It accounts for 12 per cent of the total value of production of major industries and contributes over Rs. 65 crores (at Rs. 13-19 per maund) in levies to the national exchequer.

A Central Wage Board for the sugar industry was appointed in December 1957.

The growth of the industry is attributable to the protection given to it in 1932. The import duty in pre-war years was as much as Rs. 9-4 per cwt., of which Rs. 2 represented the quantum of the excise duty on indigenous production. Protection was continued till 1950.

It has a considerable influence on the agricultural economy in so far as it brings additional remuneration to those who take to the cultivation of sugarcane.

The economy of Uttar Pradesh and Bihar is particularly tied with the development of this industry since 70 per cent of the sugar production is in these two States.

The industry also produces a variety of raw materials for other industries such as power alcohol, paper, paper board and straw board.

The industry has so far developed in the private sector, the only exception being some of the former Indian States in which the State Governments substantially contributed to its development by financial participation and in other ways.

The year 1952 was notable for an innovation inasmuch as the first factory was built by cane producers on a co-operative basis in the Ahmednagar District in Bombay State.

SUGAR PLANTS

Six firms are licensed to fabricate complete sugar plants in collaboration with foreign manufacturers. Foreign exchange would be released to equip the workshops of these firms.

The production of sugar machinery has been as follows: 1955: Rs. 19 lakhs, 1956: Rs. 33 lakhs, 1957: Rs. 163 lakhs, 1958: Rs. 200 lakhs, 1959: Rs. 320 lakhs (estimate).

It has been agreed that the firms would deliver 12 complete plants—four in the season 1960-61 and eight in 1961-62. All but one of these are for co-operatives.

There will be two consortiums of manufacturers—the first consisting of Messrs. Walchandnagar Industries, TRIMACO and Indian Sugar and General Engineering Corporation, and the second consisting of K.C.F. Ltd., Binny and Co. and New India Development Corporation.

Each of the plants will have a daily crushing capacity of about 1,000 tons to 1,500 tons with a provision for expansion to 1,500 tons except the one unit of Messrs. Bist Industries Corporation which will have a capacity of 2,000 tons.

The total value of the order will be Rs. 11 crores, the indigenous content of each unit will be 75 per cent.

The capacity to manufacture 12 units a year would make the country self-sufficient.

The first four co-operative societies would start production in 1960-61 and the rest in 1961-62.

Each society will raise Rs. 20 lakhs from the agriculturist share-holders. The balance will be raised as loans from the Industrial Finance Corporation, the State Apex Co-operative Banks and participation of State Governments.

Of the eleven Co-operative factories, four will be in Andhra, two each in the Punjab and Bombay and one each in Mysore, Orissa and U.P.

The Government of Bombay is giving active support and encouragement to the establishment of co-operative mills by contributing to the share capital of these concerns. In 1957 there were five units in the State. At the end of the Second Plan period there would be 18 producing two lakh tons of sugar annually.

No new licences were issued in 1958-59 for more factories. But 23 new factories with an annual production capacity of about 2.61 lakh tons went into production in Jan. 1959. Six more with an annual capacity of 72,000 tons would go into production later and seven with the same capacity in 1959-60.

It may be mentioned here that 79 factories have farms of their own—the total area of the farms being 2.28 lakh acres.

The details of sugar production are given below:—

Year Ended October	Installed capacity (Lakh Tons)	Sugar output (Lakh Tons)
1951	15.40	11.16
1952	15.40	14.97
1953	15.40	12.94
1954	15.40	10.01
1955	15.40	15.90
1956	17.40	18.62
1957	19.60	20.29
1958	21.50	22.00

PRICE

The excise duty on sugar remained unchanged at Rs. 11-25 per cwt. during the season 1957-58. With effect from 14th December 1957, sugar has, however, been subjected to the levy of an additional central excise duty of Rs. 3-31 per cwt. in lieu of the States sales tax. In converting the sales tax into excise duty thus, the Government increased the incidence by As. 3 per maund. The main features of the Sugar policy for 1957-58 were the same as those of the policy for 1956-57 and 1955-56. They were as follows:

No change in the minimum price for sugarcane Rs. 1-7 (Rs. 1-44) per maund for gate deliveries and Rs. 1-5 (Rs. 1-31) for deliveries at rail centres.

Regulation of releases on monthly quota basis.

No statutory control on price or distribution of sugar, *per and elsewhere*.

On complaints of excessive rise in ex-mill rates, after the announcement of export quota, contrary to the undertaking given by the Committee of I.S.M.A., on 30th July 1958, however, the Government of India fixed the ex-factory price for sugar at Rs. 36 per maund for U.P. and North Bihar mills and at Rs. 36-50 for mills in the Punjab. These prices apply to I.S.S.D. 20 grade sugar, with prescribed price differentials

for other grades. The Government also announced the decision to requisition and distribute sugar at stipulated prices on ex-factory basis, as well as to despatch sugar to out-station centres on freight-to-pay basis, the allotments being made at fixed f.o.r. destination prices to four important centres—Bombay (Rs. 39-00 per maund), Calcutta (Rs. 38-00), Kanpur (Rs. 36-75) and Delhi (Rs. 36-50).

The basic minimum price for sugarcane continues to be the same as that in force during the last five years, that is, at Rs. 1-44 per maund for delivery at the gates of factories and at Rs. 1-31 for delivery at rail centres. There should be a deferred payment of an amount which may be found due under the formula prescribed by the Government for linking the price for cane with that of sugar realised by the factories concerned. Announcing the above policy, the Union Ministry of Food and Agriculture observes

"The basic minimum prices are the same as have been in force during the last five years. An expert committee under the chairmanship of Mr. P. A. Gopalakrishnan, appointed to examine the price-linking formula adopted in the 1953-54 season and suggest modifications if any for the improvement, considered the formula sound in principle and recommended its application with certain modifications on a compulsory basis. The formula as recommended by the Committee has been accepted by the Government for adoption on an all-India basis unless any alternative scheme is applied in a State or region by the State Government concerned with the previous approval of the Central Government."

EXPORTS

On the 27th June 1958, the Government of India issued an Ordinance for promoting the export trade in sugar. It empowered the Government to release specified quantities of sugar for export and to fix export quotas of individual mills in proportion to their production. Provision was also made for channelling export through a single organisation with a view to avoiding competition among the sellers and to earning the best available price for sugar exported abroad.

The Government released a quantity of 50,000 tons of sugar for export during the 1958 season. All sugar factories in the country were required to deliver their export quotas to the Indian Sugar Mills Association, Calcutta, which was appointed as the export-agency for the purpose. Any factory which failed to deliver its quota in whole or part must pay an additional excise duty of Rs. 17 per maund on the quantity of sugar in respect of which default took place before the same was released for sale in the internal market. The sugar factories were paid for the quantity delivered by them to the agency at a uniform rate based on the net price realised by the Export Agency from the sale of sugar. The average loss on the export of the declared quota, it was said, might not be more than annas eight per maund on the quantity of sugar in stock with the factories.

India participated in the thirty-three-day deliberations of the International Sugar Conference convened under the auspices of the U.N. which concluded at Geneva on 24th October 1958. India joined the World Sugar Agreement as a member and has been allocated an export quota of 100,000 tons.

On 30th September 1958, the Government of India requested the Tariff Commission to make a fresh examination of the cost structure of sugar manufactured in India and to submit a report on the fair price payable to the sugar industry. The Commission was asked to submit a preliminary report within three months (that is, before 20th December 1958) on the allowances for rehabilitation charges and profits and a final report covering the other items as early as possible thereafter.

The State-wise production in the two seasons 1956-57 and 1957-58 is given below :—

States	Sugarcane crushed (1,000 tons)		Sugar produced (1,000 tons)	
	1956-57	1957-58	1956-57	1957-58
Uttar Pradesh	11,152	9,485	1,080	942
Bihar	3,327	2,770	312	275
Bombay	2,070	2,857	240	320
Andhra	1,542	1,571	142	153
Punjab	640	874	58	82
Madhya Pradesh	302	347	49	54
Mysore	465	712	42	73
Madras	710	734	65	64
Rajasthan	185	152	14	14
Kerala	134	101	12	8
Orissa	44	42	3	4
West Bengal	93	50	4	6
All India	20,504	19,704	2,029	1,975

The size of the factories operating in the country varies widely from 50 tons to over 2,000 tons of cane crushing capacity per day. It is generally accepted that factories with a minimum cane crushing capacity of 500 tons per day should be considered as economic units. On this basis, only half the number can be considered economic.

RAW MATERIALS

The principal raw material is sugarcane. Its consumption in 1957-58, was over 19.70 million tons for a production of 1.97 million tons of sugar. Cane produces just tenth of its weight in sugar. Approximately 30 per cent of cane is consumed by sugar factories.

About 90 per cent of the acreage under cane is now under improved varieties, but the yield per acre and the sucrose content in cane have not improved materially and these account for the high cost of sugar.

The following table gives the details —

Year	Acre under sugarcane (000 acres)	Total output of sugarcane* (000 tons)
1950-51	4,218	56,160
1951-52	4,722	60,640
1952-53	4,376	52,840
1953-54	3,493	43,673
1954-55	3,994	57,600
1955-56	4,563	59,420
1956-57	5,057	66,994
1957-58	5,021	63,054

The first estimate of acreage for 1958-59 is 5,022,000.

* In terms of the weight of the cane.

SUGARCANE DURING 1957-58.

The 1957-58 season witnessed a distinct setback to the sugarcane crop. The all-India final estimate of the crop places the aggregate yield of cane at 61,954,000 tons, as against 66,998,000 tons in the previous season, representing a fall of 4.5 per cent. The decline in production was due largely to the drop in the per-acre yield and partly also to the reduction in the area devoted to cane cultivation. The average quantity of cane actually raised per acre in 1957-58 was not more than 12.4 tons, as against 13.3 tons in 1956-57. The total area under cane was lower by 0.7 per cent at 5,021,000 acres, that for 1956-57 being 5,037,000 acres. The quality of the cane grown in the current year was also poorer, the average yield of gur per 100 tons of cane being less than 10 tons, as compared with 10.5 tons in 1956-57.

The decrease in production of sugarcane was reported mainly by Uttar Pradesh, Bihar, Madhya Pradesh and West Bengal States and was attributed to decrease in area as well as damage caused by adverse seasonal conditions during the growing period of the crop. The decrease in production was offset to a large extent by increases registered mainly in Bombay and Punjab States. The production estimates for 1957-58 and 1956-57 in respect of Andhra Pradesh and West Bengal (excepting Darjeeling District and merged areas) were based on the results of random crop cutting surveys.

The reduction in acreage during the current year was reported mainly by Uttar Pradesh, Bihar and Madhya Pradesh and was attributed generally to unfavourable weather conditions during the sowing period. The decrease in acreage

was offset to some extent by increases recorded mainly in Bombay, Mysore and Punjab States.

The Plan for the industry for 1958-59 aimed at a production target of 2.20 million tons, the estimated production during 1956-57 being 2.03 million tons.

Fourteen new factories were expected to go into production and eight existing units to complete this expansion during 1958-59.

CONSUMPTION

The per capita consumption of sugar in the pre-war period was 6.6 lbs. During 1950-51, on the basis of a production of 1.1 million tons of sugar being consumed by a population of 355 million, the per capita consumption worked out at about 7 lb. In addition, gur amounting to three times the quantity of sugar is also consumed in the country so that the total per capita consumption is not much behind that of other countries.

The First Five-Year Plan for cane cultivation envisaged an increased output equivalent to 700,000 tons (in terms of gur) of which Uttar Pradesh was expected to account for 410,000 tons. The additional production targets (in tons) for other States were: Bombay 80,000, Madras 80,000, Punjab 70,000, Bihar 50,000 and other States 13,000. The targets were however, not fulfilled. The net total increase in the output of cane during the plan period was only 240,000 tons.

The development schemes to increase the per acre yield, which were started during the First Plan period with a total expenditure of about Rs. 80 lakhs were extended year by year in view of the encouraging results.

During 1956-57, a quantity of 200,000 tons of sugar was allowed to be exported, the quantity actually shipped was about one lakh tons.

In 1958-59 one lakh tons would be exported. The total profits of the I.S.M.A. through export in 1957-58 was Rs. 12 lakhs.

The policy for the 1957-58 sugar season was almost the same as before, no statutory control, factories to keep 25 per cent of sugar produced as reserve, formula linking price of sugarcane to sugar, and price of cane Rs. 1-7-0 per maund at gate and Rs. 1-5-0 at rail centre.

The average All-India recovery of sugar from cane suffered some set-back, the figure for 1956-57 being 9.76 per cent, as against 9.93 per cent in 1955-56.

TEA INDUSTRY

TEA ranks as the largest item in India's export trade. It earns every year a foreign exchange of about Rs. 120 crores and a revenue of about Rs. 19 crores from export duty and Rs. 4 crores from excise.

During 1957 tea exports were valued at Rs. 121.5 crores forming 19.35 per cent of the total value of exports.

The State Governments also derive considerable revenue from the agricultural income tax on tea grown within their jurisdiction as well as from the sales tax, carriage tax, octroi, etc. on the commodity.

The industry as a whole gives employment to a labour force of almost 1.2 million.

Of the Indian plywood's total annual output of 78 million sq. ft. the tea industry alone consumed 64 million sq. ft. or 82 per cent during 1954.

During the same year the tea industry purchased 82 thousand tons of fertilisers, of

which 73 thousand tons, valued at Rs. 2.54 crores, came from within the country.

The country's transport services earned by way of freights Rs. 3.86 crores from this industry during 1954.

Unlike China, which consumes all its tea, India exports a substantial portion of tea produced in the country.

There are about 6,840 registered gardens with a total area of nearly 800,000 acres under tea. Of these, over 582,119 acres are in Assam and West Bengal, while Madras, Mysore and Kerala account for nearly 174,462 acres, and the rest are in Bihar, U.P., Tripura, Punjab and Himachal Pradesh.

There are over 700 joint stock companies engaged in the tea industry. The total paid-up capital in the industry as a whole is about Rs. 74 crores. The number of Indian companies is about 540 with a paid-up capital of about Rs. 25 crores.

The annual production of tea is about 700 million lbs. of which about 434 million lbs. are exported. India meets nearly 45 per cent of the world demand for tea.

The total production in 1954 was 644 million lbs. and that for 1955 was 663 million lbs. The production in 1956 was 667 million lbs. There was a marked rise in production to 673 million lbs. in 1957 and to 700 million lbs. in 1958.

The tea production target for the year 1960-61 is 700 million lbs. out of which 470 to 500 million lbs. of tea are expected to be exported.

With the cessation of bulk buying in April 1961 and the re-opening of London auctions, the tendency was for better types of teas to do well at the auctions.

By the end of 1961 the sellers' market was at an end and common teas, which were the worst to be affected, fetched only Rs. 1-8 a lb.

In May 1952 an official team inquired into the problems and recommended certain measures for temporary relief. These included deferred payment of excise duty, guaranteeing the banks of a portion of the loans to gardens, relaxation of provisions in the matter of advance payment of income-tax and supply of more wagons. The labour also agreed to forego certain concessions. Thus a substantial cut in production costs was effected by the end of 1952.

By this time tea prices had again begun to look up but to make sure of the recovery the industry decided to effect a voluntary cut of 8 per cent in production and pay more attention to quality. The crisis had forced the closure of over 100 estates; but as a result of the above measures, the industry managed to turn the corner.

The latter part of 1953 saw a dramatic change from the weak markets of the previous year and since then prices have boomed to record levels in the world markets. The whole of the benefit of this change of fortunes did not, however, accrue to tea plantations because apart from additional costs arising from the operation of the Plantations Act, the Government sought to take an increased share in the proceeds of the industry.

EXPORT

Under the International Regulation Scheme the export quota for India was 470 million lbs. But in 1954 the Government permitted an export of only 464.9 million lbs. The International Tea Agreement expired on March 31, 1955 and was not renewed. For the 1955-56 season the export permitted was 480 million lbs. which was about 69.3 per cent of the crop basis of estates.

The tea export quota fixed for 1956-57 was 451.3 million lbs., representing 63.4 per cent of the total estates' crop basis. For the 1957-58 season, the quota fixed was 460.98 mln. lbs. This was about 63.44 per cent of the crop basis for the year.

The tea actually exported in 1957 was 443.4 mln. lbs. valued at about Rs 123 crores. The export during Jan to Nov. 1958 was 454 mln. lbs. of about the same value as in 1957.

The rates of excise duty on tea are:—

	In nP per lb.
Loose tea	6-25
Package tea (converted from duty-paid loose tea)	18-75
Package tea	25-00

The export duty is regulated according to price, and may therefore vary from time to time. The duties as fixed are given below. The figure in brackets shows the price per lb.:

1958: January: 38 nP (Rs. 3-02); February: 38 nP (Rs. 2-90); March: 38 nP (Rs. 2-87); April: 38 nP (Rs. 2-95); May: 38 nP (Rs. 3-24); June: 38 nP (3-50); July: 38 nP (Rs. 3-41); August: 38 nP (Rs. 2-88); September: 38 nP (Rs. 3-09); October: 26 nP*; November: 26 nP*; December: 26 nP*.

The Government of India has announced the grant of tax relief to common teas.

The relief, which came into effect immediately after the notifications were issued simultaneously with the introduction of a Bill in the Lok Sabha on 27th September 1958, takes the form of a reduction in the maximum rate of export duty from 75 nP per lb. to 30 nP, the maximum rate of excise duty being 19 nP for loose tea and 21 nP plus the duty leviable on loose tea for package tea.

The tea-growing areas have been divided into three zones depending upon the weighted average price of all teas in a particular zone sold in the internal and export auctions in India.

The excise duty on all teas is fixed at 2 nP in the first zone, 4 nP in the second and 10 nP in the third.

In respect of package tea, the duty is 21 nP over and above the duty on loose tea cleared from the tea gardens.

The average rate of export duty is put at 26 nP per lb. for the present.

The refund of excise duty paid on tea exported has been withdrawn, except for package tea which is entitled to a refund of 21 nP per lb.

The effect of these charges on teas exported is indicated below:

Zone	Total incidence before	Relief granted as compared with the export duty applicable before
	nP	nP
I	28	10
II	30	8
III	36	2

It will be recalled that, on 1st June 1948, the Government of India reduced the cess on export of tea from Rs. 4 per 100 lbs. to Rs. 2 and cut the excise duty on tea not used in the manufacture of packaged tea from 6 nP to 3 nP per lb.

As a result of these changes, the revenue yield from tea was expected to be down by Rs. 1.2 crore per annum. The cut in export cess, it was stated, was only a temporary relief, effective till the Government was able to formulate a scheme of giving relief to the tea export trade on a permanent basis.

The anticipated loss in revenue as a result of the latest changes is estimated at Rs. 1.5 crore in a full year.

An export promotion drive for tea has been launched by the Indian Tea Board through the establishment of Tea Councils and frequent participation in trade exhibitions. At present Tea Councils, set up in collaboration with local tea interests, are functioning in U.S.A., Canada, West Germany, Eire and Netherlands. During 1957-58, the Tea Board participated in as many as eight major international trade exhibitions.

In August 1957, the Chairman of the Indian Tea Board paid visits to Cairo, Khartoum, Nairobi and Kericho to explore new markets for Indian tea in the countries of the Middle-East.

To ensure quality control over exported tea, the Government of India promulgated the Tea (Distribution and Export) Control Order vesting the Tea Board with powers to take appropriate action in such cases. The provisions of the Order have been brought into force with effect from the 1st April, 1958.

The following table shows the growth of the industry from 1928 to 1958:—

Year	Area under tea in thousands of acres	Production in millions of lb.	Year	Area under tea in thousands of acres	Production in millions of lb.
1928	776	404	1944	841	509
1929	788	423	1945	841	529
1930	804	391	1946	842	592
1931	807	394	1947†	772	561
1932	840	434	1948	773	568*
1933	841	384	1949	780	585
1934	841	399	1950	783	613
1935	841	394	1951	786	629
1936	842	395	1952	788	615
1937	840	480	1953	790	606
1938	841	452	1954	788	644
1939	840	466	1955	787	663
1940	840	474	1956	792	667
1941	842	503	1957	799	673
1942	842	573	1958	N.A.	700
1943	842	585			

* Prices were not fixed.

† From now on figures are for India only.

Source: International Tea Committee.

The following table shows production by area:

(In million lb.)

Year	Northern India					Northern India (Total)	South India	Total
	Assam	Darjeeling	Dooars and Tarai	Cachar and Sylhet	Other Places			
1953.. .. .	275	14	144½	41½	10½	487½	120½	608
1954.. .. .	300½	15½	148½	43	10½	516	128	644
1955.. .. .	322½	18½	142½	44½	10½	536	129	665
1956.. .. .	323.8	18.5	148.6	42.4	8.8	540.1	126.9	667.0
1957.. .. .	315.2	16.0	150.6	39.4	7.2	528.4	144.7	673.1

CALCUTTA MARKET (Leaf and Broken)

Season	Export Auction		Internal Sale	
	Chests	Average Price	Chests	Average Price
		Rs. a. p.		Rs. a. p.
1950-51	1,579,094	2 0 9	239,486	1 7 5
1951-52	2,102,920	1 11 7	112,809	1 1 8
1952-53	1,858,566	1 6 6	47,547	1 1 7
1953-54	1,635,429	1 15 10	101,775	1 12 5
1954-55	1,590,410	3 1 6	437,863	2 3 7
1955-56	2,277,550	2 0 4	134,410	1 3 3
1956-57	2,137,758	2 37 nP.	94,568	1 57 nP.
1957-58	2,127,580	2 62 nP.	103,801	1 42 nP.

Source: J. Thomas & Co. Ltd.

The following table shows tea exports by sea from the Indian Union to the chief importing countries:—

(In million lb.)

Country	1955-56	1956	1957
United Kingdom	220.87	356.83	298.61
U.S.A.	25.44	27.91	13.81
Canada	17.27	22.24	16.96
Australia	6.23	9.44	7.60
Iran	8.27	8.24	12.15
Egypt	14.68	19.45	16.00
U. S. S. R.	—	13.02	16.07
Eire	19.72	16.64	18.21
Sudan	3.03	N.A.	N.A.
Netherlands	4.05	N.A.	N.A.
Turkey	5.36	6.57	7.10

Source: Monthly accounts relating to the Foreign (Sea, Air & Land) Trade & Navigation of India.

DISPOSAL OF TEA

(In million lb.)

	1952-53		1953-54		1954-55		1956		1957	
	North	South	North	South	North	South	North	South	North	South
Exp*	507.0	113.0	444.9	120.9	513.6	128.5	540.1	126.9	523.4	144.7
Export	355.0	68.2	349.4	76.6	373.7	76.0	426.1	76.2	359.9	77.7
Balance (Internal Consumption)	152.0	44.8	95.5	44.3	139.9	52.5	104.0	50.7	163.5	60.7
Internal Consumption ..		196.8		139.8		192.4		154.7		235.6

* Trade estimates

Source: J. Thomas & Co. Ltd.

TEXTILE INDUSTRY

COTTON MILL INDUSTRY

The cotton textile industry, which is the largest single industry in the country, has made rapid strides during its existence of a century. India holds the third place among the countries of the world in its capacity for yarn and cloth based on mechanical equipment and stands second on the basis of cotton consumption.

In addition to providing means of livelihood for nearly 10 million handloom weavers, the mill industry provides direct employment to more than 400,000 workers.

The total number of mills in the country in Aug 1958 was 478, the number of spindles installed 13.05 million, of looms 201,280. The monthly average number of workers, including badli, on 1141 cotton mills during the January-August 1958 period was 905,804 and cotton consumption was at an annual rate of 4.87 million bales of 400 lbs. each.

The capital invested is estimated at Rs. 122 crores, and the annual value of the output amounts to Rs. 395 crores.

The various fiscal measures adopted by the Government and the constitution of an export promotion council are expected to assist the industry in stepping up exports. A scheme of voluntary inspection of cloth meant for export has also been instituted.

SECOND FIVE-YEAR PLAN

The programme for the development of the cotton textile industry under the Second Five-Year Plan was announced by Mr. T. T. Kriahnamachari, who was at the time Commerce and Industry Minister, Government of India, at New Delhi on June 18, 1956. By the end of 1960-61, the per capita consumption of cloth in the country is expected to reach 15.5 yards, in addition to the export target of 1,000 million yards a year. This would involve a production of 8,400 million yards. But the production of all the three sectors was then about 6,700 million yards a year. Therefore, the country would require an additional quantity of 1,700 million yards of cloth.

This quantity was allocated thus: 700 million yards for handloom industry from mill

yarn; 300 million yards for handloom industry from Ambar Charkha yarn; 200 million yards for powerlooms to be introduced in the handloom sector; 350 million yards for mill sector for export purposes, leaving an allotted balance of 160 million yards.

Automatic Looms

The quantity of 880 million yards for export and allotted to the mill sector was required to be produced through the installation of 18,000 automatic looms.

Certain conditions were laid for the allocation.

It was laid down that all the cloth produced on these looms would be earmarked for export and the allocation of looms was being made on a guarantee being given by the mills that in addition to 8½ per cent of their past exports all the cloth produced on these looms would be exported and that any cloth sold internally therefrom would be subject to penal excise duty as given below:

If the cloth diverted into the internal market from the export quota does not exceed five per cent, of the export quota, six naye paise per square yard.

If the cloth diverted into the internal market exceeds five per cent. of the export quota but does not exceed 10 per cent. thereof: On the quantity which does not exceed five per cent. of the export quota, six naye paise per square yard and, on the balance, nine naye paise per square yard.

If the cloth diverted into the internal market from the export quota exceeds 10 per cent. of the export quota: On the quantity which does not exceed five per cent. of the export quota, six naye paise per square yard; on the quantity which exceeds five per cent. of the export quota

but does not exceed 10 per cent. thereof, nine naye paise per square yard; on the balance, 12 naye paise per square yard.

Certain features of the allocation are:

1. Normal number of looms allotable for a single unit will be minimum 48 and maximum 144; in exceptional cases 300 looms might be allowed with the agreement of the unions.
2. Reed space formula currently applicable for replacement of plain looms by plain looms will also be applicable for replacement by automatic looms; and 3. Allotment of these looms will be

governed by the principles contained in the recommendations of the 15th session of the Indian Labour Conference in regard to modernisation and rationalisation.

In the selection of units a prime consideration will be the extent to which the code of Discipline had been observed.

The proposal of the Government is (Dec. 1958) that 2,500 looms should be installed annually during 1959, 1960 and 1961.

At the moment there are only 12,000 automatic looms out of a total of about 200,000.

The following table gives details about the distribution of mills in India as on August 31, 1958.

State	No. of Mills in existence	Spindles installed	Looms installed	Average No. of workers employed daily all shifts	Approximate quantity of cotton consumed	
					Cwts.	Bales of 3½ cwts.
Andhra Pradesh (a)	16	1,92,084	1,669	11,218	3,24,527	92,722
Bihar	2	27,540	747	761	20,958	5,988
Bombay	212	69,86,390	1,39,394	1,40,153	89,76,464	25,04,704
a) Ahmedabad City (a)	71	20,78,618	41,675	1,31,239	24,94,986	7,12,856
b) Bombay City & Island	65	32,12,650	64,426	2,00,446	43,83,295	12,52,370
c) Rest of Enlarged Bombay State (b)	76	16,95,122	33,293	1,08,467	20,98,173	5,99,478
Kerala	14	1,91,823	1,890	9,129	2,08,976	59,136
Madhya Pradesh	20	5,07,855	12,413	44,822	10,58,113	3,02,818
Madras	130	28,54,523	7,730	1,00,030	23,93,891	8,26,826
Mysore (a)	18	4,41,546	4,955	25,637	6,51,203	1,86,058
Orissa	4	62,843	1,024	5,945	1,11,377	31,822
Punjab	6	1,29,890	1,611	7,238	3,12,438	89,268
Rajasthan (a)	11	1,72,624	3,412	11,492	3,44,911	98,546
Uttar Pradesh (d)	29	8,59,308	13,818	53,976	12,75,393	3,64,398
West Bengal (c)	39	5,85,236	10,864	44,796	7,80,038	2,22,868
Delhi	7	1,88,356	3,954	15,794	6,08,244	1,73,784
Pondicherry	3	75,464	2,117	5,375	1,16,506	33,238
Total	511*	1,32,71,890	2,05,598	7,75,865	1,76,81,041	50,51,726

* Does not include 23 mills which have either been registered and/or are in course of erection. (a) One mill not working, (b) Eight mills not working, (c) Two mills not working, (d) Six mills not working, (e) Four mills not working.

PRODUCTION

The actual production of yarn and cloth by the mills sector is as follows:—

Year	Yarn in 000 lbs.	Cloth in 000 yards.				
		Coarse	Medium	Fine	Superfine	Total
1951	1,303,861	363,561	2,080,858	1,347,946	283,866	4,076,186
1952	1,480,000	504,000	2,709,900	1,194,000	196,000	4,602,000
1953	1,510,000	509,000	3,136,000	899,000	304,000	4,578,000
1954	1,565,000	909,110	3,565,000	461,230	350,100	5,011,000
1955	1,637,000	592,510	3,747,850	458,370	300,120	5,096,000
1956	1,671,204	719,000	3,796,156	444,033	247,295	5,306,584
1957	1,780,096	1,143,712	3,402,908	383,176	267,720	5,317,416
Jan-Aug. 1958	1,104,218	638,278	2,256,882	215,018	168,083	3,278,261

The total production of cotton cloth by all the sectors in India during 1957 was over 7,353 million yards.

Of this the mill sector accounted for 5,317 million yards, powerlooms 303 million yards, and handlooms 1,980 million yards. The output of traditional Khadi was 41.17 million yards and Amber Khadi 10.91 million yards.

The exports of cotton textiles produced by the mills, including the powerloom sector, in 1957 were higher than the exports in 1955 and 1956 but lower than those in 1954. The figure for 1957 was 844.93 million yards as against 744.23 million yards exported in 1955 and 815.49 million yards in 1956.

There was a decline in the exports of handloom cloth in 1957 when compared with the exports in the previous four years.

In the production of mill-made cloth, Bombay leads other States. Bombay accounted for about 3,585 million yards in 1957 out of the total output of 5,317 million yards and about 1,653 million yards in the first half of 1958 out of 2,461 million yards.

The production figures for the other States in the first six months of 1958 are as follows:

Madhya Pradesh about 207 million yards, Uttar Pradesh over 165 million yards, West Bengal about 133 million yards, Delhi about 81 million yards, Madras about 56 million yards, Mysore about 43 million yards, Punjab about 30 million yards, Rajasthan over 27 million yards, Orissa about 16 million yards, Pondicherry over 15 million yards, Andhra Pradesh about 15 million yards, Kerala about 10 million yards and Bihar over 3 million yards.

The total production of mill-made cloth during the first ten months of 1958 was 4,107 million yards. The production during the corresponding period in 1957 was 4,448 million yards.

During 1957 the cotton consumption by mills was 52.62 lakh bales of which Indian cotton accounted for 46.95 lakh bales and foreign cotton for 5.67 lakh bales.

The estimates of the other important raw materials are given below:—Card clothing—2,500 sets; Bobbins—425,000 gross; Shuttlings—8,300 gross; Healds—800,000 sets; Reeds—400,000 pcs.; Pickers—57,500 gross; Mutton tallow—3,600 tons; Starch—36,000 tons; Coal tar dyes—3,900 tons; Hydro-sulphite of soda—2,000 tons; Zinc chloride—3,000 tons; Caustic soda—15,000 tons.

TEXTILE ENQUIRY COMMITTEE

The Government of India announced, on 29th May 1958, the appointment of a special committee to enquire into the conditions of the cotton textile industry and to suggest the necessary remedial measures to overcome its difficulties. The Committee was presided over by Mr. D. S. Joshi, I.C.S., Textile Commissioner and consisted of Messrs. D. G. Karve, N. Majumdar, Kanhaiyalal Mehta, Padampat Singhanla, Krishnaraj M. D. Thackersey, S. R. Vasavada, R. Venkataswami Naidu and K. R. Aravamudan (Member-Secretary).

The Report of the Committee was unanimous. It was signed on 18th July 1958 and submitted to the Government thereafter.

The Government has accepted some of the principal recommendations of the Textile Enquiry Committee. In particular the Committee has recognised the need for modernisation of equipment in mills. This was one of the chief points made out by the Committee. The Government agreed with the views expressed by the Committee that "our exports will continue to

fall steeply unless we export cloth produced on automatic looms." It feels that a proper psychological climate should be created within the country in order to facilitate the introduction of automatic looms within a specified period. It is hoped that it would be possible to evolve a simple procedure for such replacement on a phased programme in an accelerated manner.

As regards the large number of mills which have ceased working, the Government has accepted the suggestion made by the Committee. The Committee pointed out that the main reason for closure of mills seemed to be the bad condition of machinery, in many cases neglected continuously without proper attendance and repairs and replacement.

In order to enable the closed mills to reopen, particular stress is laid by the Government on the need for replacing outmoded and obsolete machinery and for the proper balancing of uneconomic units.

The Government, however, is of the opinion that the managements have contributed in large measure to the present state of affairs. It expresses the hope that, in future, they will take care to see that deterioration is not allowed, thereby obviating the necessity for intervention by the Government.

As regards the major recommendation of the Enquiry Committee, namely, the establishment of an autonomous corporation to take over the management of textile mills if such a course is absolutely essential, the Government feels that such a body is neither necessary nor desirable. It is pointed out that the intention of the Government is to assist the various mills that may be in difficulties and help them to stabilise their position. The Government would have to concentrate its attention on this aspect.

Referring to the Committee's observations on the levy of sales tax on cloth, the Government states that it would not be proper to fetter the discretion of the State Governments.

The practice in regard to grant of concession on the supply of raw materials to industry varies from State to State. The Government, therefore, feels that the State Governments should maintain the *status quo* in regard to this concession.

Every possible assistance and facility would be given by the Government for the promotion of exports of cloth and yarn.

The Government constituted a committee to advise the Textile Commissioner on matters vitally affecting the industry as a whole or any unit in particular. The Advisory Committee is representative of all interests and of important textile centres.

Along with this Committee, a Rationalisation Sub-committee will also be set up which, assisted by Regional Sub-committees, will advise the Government on policies and principles governing rationalisation.

The Government has also accepted the recommendation of the Committee in respect of setting up a machinery for a more continuous and sustained study in the field of marketing intelligence and research for cotton textiles. But it is pointed out that this should be the legitimate function of the industry itself.

As regards the problem of uncleaned stocks with the mills, the Government feels that the total stocks with the entire trade have shrunk considerably. In order to facilitate normal free movement of stocks, the trade has been urged to co-operate with the industry by increasing its holdings.

At the same time, the Government has recognised the need for allowing adequate and even liberal credit facilities to the industry. It is proposed to request the banks to extend such facilities to mills.

The Government proposed (Sept. 1956) to appoint shortly a Textile Advisory Board whose functions would be to advise Government on the development of the textile industry in general and on any problem relating to the industry which might be referred to the Board from time to time.

COTTON

The statistical position of cotton in the Indian Union is summed up in the following table:—
(In lakhs of bales)*

	1954-55	1955-56	1956-57	1957-58
Opening Stock	20.0	28.7	21.54	20.10
Production	54.0	46.0	49.70	51.50
Imports	6.2	5.0	6.07	4.29
Total Supply	80.2	77.7	77.33	75.89
Mill Consumption	47.7	46.0	52.55	50.10
Exports	3.1	5.0	3.01	2.92
Extra Factory Consumption ..	2.7	2.7	2.80	3.31
Total Distribution	53.5	53.7	58.36	56.33

According to the information furnished by the trade, the total cotton supply, available in the 1957-58 season was estimated at 75.89 lakh bales, of which 68.72 lakh bales were Indian cotton, including 17.22 lakh bales of carryover with both the trade and the mills on August 31, 1957. The total mill consumption was estimated at 50.10 lakh bales (44.38 lakh bales of indigenous cotton and 5.72 lakh bales of foreign varieties). Exports amounted to 2.92 lakh bales and the extra factory consumption 3.31 lakh bales, thereby allowing a carryover for the 1958-59 season at 19.56 lakh bales.

The production of long, medium and short staple cotton was in the ratio of 40%, 42% and 18% (1957-58).

The latest trade estimates of the production of cotton in 1958-59 is 52.25 lakh bales.

Import policy during the cotton season 1956-57 was influenced, to a large extent, by the availability of foreign exchange. The acute shortage of foreign exchange forced the authorities to continue the restriction on cotton imports, especially from the sterling area.

Among the foreign cotton affected by this restriction, East African growths were the most important.

The import for 1958-59 is fixed at 6 lakh bales.

The Government of India fixed the floor and ceiling prices of Indian cotton during the 1957-58 season at the same level as those for the 1956-57 season. The floor and ceiling prices for Jarilla with stapling 25/32" are Rs 495 and Rs 820 per candy and those for Vijay with stapling 25/32" are Rs 585 and Rs 925 per candy.

Trading in the new crop contract commenced on 23rd June 1957, I.C.C. Jarilla (basis Fine Mogal 25/32") standing at Rs. 690.

For the 1957-58 season, according to the amendments effected to the By-laws of the E.I.C.A. there was only one hedge contract, called the Indian Cotton Contract. The basis of the contract was Fine M G Mogal Jarilla 25/32" staple. Delivery months are March, May and August. Trading in the new crop hedge contract was subjected to the amendments made to the By-laws of the Association and was within the floor and ceiling prices fixed by the Government for the 1957-58 season, i.e. Rs 495 and Rs 820 for Fine Jarilla 25/32" staple, the same as in the previous season.

The Government of India have decided to allow for import the following further quantities of raw cotton: 55,000 bales of 13/16" and above and 140,000 bales of 1 1/16" and above. The Cottons may be imported from any country. Half of this quantity would be earmarked for allotment under the Export Incentive Scheme.

As regards export of raw cotton, it was expected that the entire quantity of five lakh bales of raw cotton released for export during the season beginning from September 1956, would be exported.

HANDLOOM CLOTH

Under the Second Five-Year Plan, out of the additional quantity of 1,700 million yards of cloth required to meet the total estimated demand for 8,400 million yards in 1960-61, as much as 1,000 million yards have been allocated to this sector. This is in addition to the present

annual output of 1,500 million yards. Of this additional quota of 1,000 million yards, 700 million yards will be produced from mill yarn and 300 million yards from Ambar Charkha yarn.

The number of persons engaged in khadi production is about 11,30,000; and annual sale is about Rs. 8 crores.

The exports of handloom cloth in 1957 aggregated 50 million yards.

AMBAR CHARKHA†

A significant development of the year 1955-56 was the emergence of the Ambar Charkha, an improved hand operated spindle. In April 1956, the Government of India set up a special committee under the Chairmanship of Mr. S. S. Khara, Secretary, Union Ministry of Production, to investigate the economic and technological aspects of the Ambar Charkha. The Committee submitted its interim recommendations to the Government two months later and the final report was placed before the Lok Sabha on June 23, 1956. This was published in August 1956.

The Committee recommended the introduction of 75,000 Charkhas for 1956-57 and about 200,000 for 1957-58. The Government accepted the scheme for 1956-57.

As a result of the experience gained of its working during that year, the introduction of 180,000 additional Ambar Charkhas during 1957-58 was approved in principle. To begin with, funds were sanctioned for the continuation of the previous year's programme in full and in part for the expanded programme. The provisions in the budget included Rs. 311.32 lakhs as grants and Rs. 697.80 lakhs as loans.

The target for the production of cloth during 1957-58 had been fixed at 65 million yards. After a field investigation conducted by the Committee, it suggested a revision of the target from 65 million yards to 20 million yards.

The main reason for the reduction is the finding that Ambar Charkha is generally used to provide part-time occupation mostly in months when agricultural activity is not in full swing. The actual number of working days, according to the survey, averages 200 in a year instead of 300 as originally estimated and working hours per day average 4 to 6 instead of 8. The investigation further shows that only one spinner generally works on the Ambar Charkha at a time, although the Commission is now endeavouring to train more than one person from the same family so that a fuller use can be made of an Ambar Charkha set and its actual productivity increased.

For the present, however, the production per Ambar Charkha unit is estimated at about 900 hanks or 50 lbs. of 18 counts per year as against 3,600 hanks or 200 lbs. per annum estimated earlier by the Ambar Charkha Enquiry Committee, on the assumption that the Ambar Charkha would provide full-time occupation for two persons on a complete set comprising the carding unit or dhunai modia, the 'beini' or silver-making implement and the spinning apparatus or Ambar Charkha proper.

The targets originally fixed for 1957-58 for the Ambar Charkha programme, the revised targets and the achievements for the period upto November, 1957, are as under:

* Trade Estimate.

† See also under 'Cottage Industries'.

ITEM	Targets originally fixed for 1957-58	Targets as revised	Achievements between April and November 1957
Manufacture of Charkhas	180,000	115,000	56,011
Distribution of Charkhas to trained spinners	150,000	85,000	50,429
Instructors trained	4,000	3,200	1,955
Carpenters trained	2,000	1,200	751
Spinners trained	150,000	120,000	62,668
Establishment of Workshops (Saranjam karyalayas)	100	—	21
Production of yarn	18.1 m. lbs.	5.5 m. lbs.	1,586 m. lbs.
Production of cloth	65 m. yards	20 m. yards	4,604 m. yards

The revised provision for the Ambar Charkha programme in 1957-58 is Rs. 664 lakhs, comprising Rs. 230 lakhs under grants and Rs. 434 lakhs under loans. Expenditure upto the end of February 1958 was Rs. 4.01 crores.

IMPORTS AND EXPORTS

The following table gives the sea-borne export trend of all cloth :—

Year	Twist and Yarn		Cloth	
	Million lb.	Rs. in crores	Million yd.	Rs. in crores
1952-53	17.9	4.4	615.75	61.46
1953-54	23.2	4.7	765.5	63.1
1954-55	1.2	0.8	819.0	63.15
1955-56	23.1	4.21	740.0	66.60
1956 (April to Dec.)	6.92	1.50	557.08	42.71
1957	10.47	3.40	878.0	65.19
Jan-Aug. 1958	15.77	2.96	416.0	30.75

EXCISE DUTIES

The Cotton mills were heavily burdened with the accumulations of large stocks of cloth during 1957. In December 1957, the Government of India reduced the excise duty on medium counts mill cloth by 3 nP per square yard. They stated that the reduction was only temporary and would be effective upto the end of March 1958.

This step did not give much relief to the mills. About 25 mills had already been forced to close down, resulting in the unemployment of 25,000 workers. Representations were made to the Government of India urging that, if no immediate steps were taken to reduce the burden of excise duty, 40 to 50 more mills would close down, throwing as many as 50,000 workers out of employment.

The stocks of cloth with the textile mills in the country at the end of November 1958 were 5,79,800 bales as against 5,92,800 bales at the end of September 1958 and 6,01,800 bales at the end of October 1958. The unsold stocks of yarn on August 2, 1958 were 81,000 bales as against 100,000 bales in January 1958. The fall in production in 1958 was largely due to a shift in production from coarse varieties to medium and finer varieties of cloth. This shift in production had been necessitated by the consumers' preference for finer varieties.

As a sequel to these representations, the Prime Minister, Mr. Jawaharlal Nehru, announced in the Lok Sabha on 18th March 1958 reduction in excise duty on cotton piecegoods. The following were the revised rates of duty (excluding the additional excise duty and the handloom cess).

	In nP per Square Yard.	
	Revised	Before revision
COARSE		
Dhoties and Saris	3	3.125
Other sorts	6	9.375
MEDIUM		
Dhoties and Saris	7	9.375
Other sorts	9	9.375
FINE	17	18.750
SUPERFINE	22	25.000

As a result of the above reduction, the relief to the cotton mills was expected to be of the order of Rs. 15 crores per annum.

Export of cotton yarn by mills was allowed freely for the licensing period July to December, 1958. The export policy for yarn had also been announced on a long term basis, i.e. till 1961.

The excise duty on cloth piecegoods underwent further changes early in July 1958 when the Government of India announced, in pursuance of the recommendations made by the Textile Enquiry Committee modifications in the levy with a view to helping the mills to overcome the crisis facing it due to accumulation of heavy stock.

The revised rates of excise duty per square yard (excluding the additional excise duty and the handloom cess) which have been enforced with effect from the 4th inst. are as follows :

Coarse cloth : A new basic rate of excise duty on all varieties of cloth at 4 nP plus a surcharge of 1 nP, if the cloth is bleached, 3 nP if shrink-proof and 1½ nP if processed in any other way; hitherto, there was only an excise duty of 3 nP on coarse dhotis and saris and 6 nP on other varieties.

Medium cloth : A basic rate of 5 nP on lower medium cloth (counts between 17 and 25) and 6 nP on higher medium cloth (26-35 counts) plus the same surcharges as on coarse cloth for bleached (1 nP), shrink-proof (3 nP) and other processed cloth (1½ nP); the duty so far had been only at 7 nP on dhotis and saris and 9 nP on other varieties.

Fine cloth : A basic rate of 18.5 nP plus the surcharges for processing as in the case of coarse and medium; hitherto, there was only one excise duty of 17 nP.

Superfine cloth : A basic rate of 24½ nP plus the surcharges for processing on the same scale as for coarse and medium; this cloth was until recently bearing a levy of 22 nP only.

Mill made textiles have been subject to the levy of an additional Central excise duty in lieu of the States' sales tax with effect from 14th December 1957. The rates of excise duty per square yard are 13 nP for superfine, 8 nP for fine, 4 nP for medium and 3 nP for coarse varieties, the additional excise for art silk cloth 3 nP per square yard and that for woollen cloth 5 per cent ad valorem. It is estimated that, in a whole year, the additional excise on textiles will bring in a gross revenue of Rs. 21.90 crores.

During the first ten months of 1958, twelve cotton textile mills had restarted working, ten of these fully and two partially. One of the two, however, closed down after working for about four months.

The number of mills totally closed during the period was 19 affecting 28,612 works.

Export Promotion Council : The Council opened its first office in Baghdad in February 1958 and then other offices in Singapore, Lagos, Rangoon, Aden and Mombasa. Besides, it has taken part in many exhibitions—Industrial Exhibitions in New Delhi, the Leipzig Fair, the Pakistan Trade Fair and the Milan Samples Fair. It has undertaken the publication of a handbook known as *The Indian Textile Industry*. The Council has also brought about an overseas edition of its fortnightly *Bulletin*.

FIVE-YEAR PLANS

The following table summarises the programme of development of the whole industry as approved by the Planning Commission for the Five-Year Plans :—

Rated Capacity of Mill Industry	Unit	1952-53	1955-56	1960-61
Spindles	No.	11,175,283	12,051,209	13,621,209
Yarn	m. lb.	1,704.2	1,840	2,080
Looms	No.	195,849	202,901	220,901*
Cloth	m. yd.	4,778.7	4,950	5,444
Actual Output—				
Yarn	m. lb.	1,610	1,690	1,650
Mill Cloth	m. yd.	4,800	5,094	5,444
Handloom Cloth	"	1,800	1,753	3,000 to 3,500
Exports—				
Yarn	m. lb.	—	—	—
Cloth	m. yd.	1,000	878	1,000
Cotton Needed—	m. bales	4.5	4.9	6.1

* Including 18,000 automatic looms.

TOBACCO INDUSTRY

INDIA is one of the three major producers of tobacco in the world, the other two being U.S.A. and China. Tobacco is also an important item in India's foreign trade.

The area under tobacco in 1956-57 was 1,029,000 acres and the production was 685 million lbs.

The more important tobacco growing States in India are Andhra Pradesh, Madras, Bombay, U.P., Mysore and Bihar.

The tobacco plants are mainly of two varieties—*nicotiana rustica* and *nicotiana tabacum*. The first has a higher nicotine content and is used in hookahs, for purposes of chewing and in making snuff. The second has a smaller nicotine content and is used in the manufacture of cigarettes, cigars and cheroots.

There are six main tobacco producing areas in India—the Guntur area in Andhra Pradesh, the Charotar area in Gujarat in Bombay State, the Nipani area in Mysore, the southern Madras area, north Bihar and Bengal area and Uttar Pradesh and Punjab area.

The Guntur area comprises the districts of Guntur, Krishna, East and West Godavari, and the adjoining portions of Telangana. The variety grown is *nicotiana tabacum*.

The Charotar in Gujarat covers Anand, Borsad, Petlad and Nadlad talukas of the Kaira District. Here also the chief variety is *nicotiana tabacum*.

The Nipani area is made up chiefly of the District of Belgaum in Mysore State and certain areas in North and South Satara and Kolhapur districts in Bombay State. Here both the varieties are grown though *nicotiana tabacum* predominates.

In Madras State the chief tobacco growing districts are Madurai and Coimbatore.

The north Bihar area covers the districts of Muzaffarpur, Purnea and Darbhanga, and in the north Bengal area the districts of Jaipalguri, Malda, Bahampore and Dinajpur. Here both the varieties are grown.

Uttar Pradesh comprises the districts of Farukhabad, Etah and Sitapur and the Punjab area comprises the districts of Jullundur and Ferozepur. Both the varieties are grown in these areas.

The development of tobacco cultivation, marketing and research are looked after by the Indian Central Tobacco Committee with headquarters in Madras. The Committee has a tobacco research institute at Rajahmundry (Andhra Pradesh), cigar and cheroot tobacco research station at Vedaesandur (via) Dindigul (Madras), hookah and chewing tobacco research station at Pusa (Bihar), wrapper and hookah tobacco research station at Dinbata (West Bengal) and a cigarette tobacco research sub-station at Guntur (Andhra Pradesh).

Another station for cigarette tobacco was started in February 1957 at Hunsur in Mysore State where soil and climate are different from those of the Guntur area where production of fine cured Virginia cigarette tobacco is mainly concentrated.

About tobacco manufactures, there are over 4,600 bidi manufacturers, about 300 chewing tobacco manufacturers, over 300 snuff manufacturers and about 15 important cigarette manufacturers.

Export of tobacco is allowed freely without any restrictions.

There are no quantitative targets for tobacco in the Second Plan as the aim is to improve the quality of the product.

PRODUCTION OF TOBACCO (UNMANUFACTURED)

(Thousand Pounds.)

State.	1955-56.	1956-57.	1957-58.
Andhra ..	285,720	291,200	244,160
Madras ..	80,640	85,120	60,480
Bombay ..	134,400	143,360	114,240
Bihar ..	13,440	20,160	20,160
West Bengal	26,880	22,400	24,640
Other States	118,720	122,200	100,800
India ..	660,800	685,440	564,480

IMPORTS AND EXPORTS OF TOBACCO (RAW) (BY SEA AND AIR)

	1955-56		1956-57		1957-58	
	Quantity lb	Value (Rs.)	Quantity lb.	Value (Rs.)	Quantity min lb	Value (Rs.) millions
Imports	3,717,263	12,855,996	3,257,493	11,113,672	2 8	11.8
Exports	84,931,427	1,06,490,264	95,457,752	1,24,834,282	90.2	146.3

EXPORTS OF TOBACCO (RAW) BY COUNTRY (BY SEA AND AIR)

	1955-56		1956-57		1957-58	
	Quantity lb	Value (Rs.)	Quantity lb	Value (Rs.)	Quantity min lb	Value in min (Rs.)
U K ..	29,570,874	67,996,734	33,621,543	87,572,449	44 4	111 4
Russia ..			2,402,971	2,144,800	5 2	2 8
Japan ..	7,733,487	3,098,002	978,145	791,999	0 1	0 07
China ..	21,330,459	4,732,248	24,092,752	11,072,523	1 9	0 4
Aden and Dependencies	5 830,263	2,345,890	6,456,049	3,020,628	8 1	3 2

INTERNAL CONSUMPTION

The following table shows in lb the quantities of raw tobacco that was cleared for home consumption for various manufactures in India.

	1954-55	1955-56	1956-57
Hookah	116,209,871	121,393,726	1,16,949,325
Bidi	122,033,468	152,306,611	1,23,304,567
Cigarette (Fine cured Virginia)	29,901,427	32,876,646	36,875,832
Cigar and Cheroot	43,289,506	43,073,752	43,909,802
Chewing	116,945,899	118,700,286	1,22,216,971
Snuff	9,679,144	9,679,292	10,023,011

PRODUCTION OF CIGARETTES, ETC.

The following table shows the production and consumption of cigarettes, etc in India (excluding imported manufactured products)

(In Numbers)

	Production (1954)	Quantity cleared for home Consumption. (1954-55)	Production. (1955)	Quantity cleared for home Consumption. (1955-56)	Production. (1956)	Quantity cleared for home Consumption. (1956-57)
Bidis	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Cigarettes	1,963 crores	2,125.2 crores	2,283 crores	2,384.3 crores	2,616 crores	2,715.6 crores
Cigars and Cheroots	N.A.	4,38,070,900	N.A.	4,54,968,800	N.A.	4,77,640,100

In 1957 the number of cigarettes produced in crores was 2,803.

N.A.—Not available. *Notes:* Figures are subject to revision.

VEGETABLE OIL INDUSTRY

INDIA is one of the most important producers of oilseeds in the world and is consequently a large producer of vegetable oils as well as an exporter of oils and oilseeds.

The following figures show the average production of different varieties of oilseeds in recent years along with their share in world production:—

	Average Indian Production (lakh tons)	As percentage of world Production
Groundnut ..	42.00	36
Castor seed ..	1.24	30
Linseed ..	3.84	15
Sesamum ..	4.42	38
Cotton seed ..	13.00	18

The actual production of oil from the five major oilseeds has been estimated as follows: (000 Tons).

	Groundnut	Castor	Sesamum	Rape and Mustard	Linseed	Total
1953-54 ..	847	37	165	246	103	1,398
1954-55 ..	938	39	184	291	114	1,566
1955-56 ..	878	39	143	242	123	1,440
1956-57 ..	954	39	138	293	123	1,547
1957-58 ..	970	31	138	293	123	1,555

In March 1956, there were 2,097 oil mills registered under the Factories Act. The State-wise* distribution of these oil mills was as follows: Assam 73; Bihar 92; Bombay 575; Madhya Pradesh 101; Madras & Andhra 540; Orissa 7; Punjab 39; Uttar Pradesh 125; West Bengal 66; Hyderabad 298; Madhya Bharat 101; Mysore 23; PEPSU 12; Rajasthan 29; Saurashtra 120; Travancore-Cochin 56; Other States 40. The total crushing capacity of the mills in the country is estimated at 56 lakh tons per annum in terms of oilseeds.

It is also estimated that there are about four lakh village plants in the country with an annual crushing capacity of about seven lakh tons of oilseeds. Thus the total crushing capacity is estimated at 63 lakh tons in terms of oilseeds. But the total output of oilseeds in recent years is estimated at 55 to 60 lakh tons. Therefore, a part of the available capacity is lying idle.

The capital invested in the organized industry is estimated at Rs. 24.4 crores and the number of workers at 49,580. The most important oilseeds consumed in large quantities for the production of oils are groundnut, linseed, rape and mustard, castor seed and sesamum seed. Small quantities of cottonseed and mohwa seed are also crushed.

IMPORTS AND EXPORTS

The following table shows the total imports and exports of oil and of some varieties since 1957:—

	1957	(Jan.-Aug. 1958)
Imports (Total) ..	723,472	324,248
Coconut Oil ..	844,231	122,472
Linseed ..	187	Nil
Other Sorts ..	379,229	261,776
Exports (Total) ..	1,472,373	817,483
Groundnut Oil ..	33,377†	33,231‡
Linseed Oil ..	320,657‡	410,948‡
Castor Oil ..	848,914	271,923

On the basis of the minimum per capita consumption of fats in this country, the total consumption of fats of the entire population would work out at 7 million tons, as against the present estimated consumption of 1.75 million tons.

In 1954-55, about 1.14 million tons of vegetable oils (including coconut oil) and about 255,000 tons of vanaspati were estimated to have been consumed for edible purposes in the

The following table gives the actual production—in thousand tons—of oilseeds during the seasons 1956-57 and 1957-58:—

	1956-57	1957-58
Groundnut ..	4,300	4,271
Castor seed ..	124	97
Linseed ..	384	271
Sesamum ..	442	363
Rape and mustard	1,026	905
Total ..	6,176	5,907

against 5,765 tons in 1956. The rise in output was due to the commencement of operations by two more units. Thirty-two licences had been issued up to the end of 1956 under the Industries Act for the establishment of solvent extraction plants. The number of units working in 1957 was 12.

The development programme for the vegetable oil industry in the Second Plan is indicated in the following table:

	(Tons)	
	1954-55	1960-61
Production of oil:		
1) Solvent extraction from oilcakes ..	7,000	64,000
2) Cottonseed Oil ..	9,000	30,000
Total (all sources) ..	1,760,000	2,110,000
Utilisation of oil:		
For edible purposes ..	1,140,000	1,190,000
For Vanaspati manufacture ..	260,000	430,000
For other industrial purposes ..	230,000	280,000
Exports ..	140,000	210,000

VANASPATI

The Vanaspati Industry though a minor branch of the Vegetable Oil Industry is one of the most highly organised and efficient industries. Its history is interesting. It started on a small scale in 1930.

In April 1951, there were 48 vanaspati factories in India with an annual rated capacity of about 332,000 tons. In March 1956, their number had increased to 51 with a rated capacity of about 412,100 tons. Out of these, one is the Government Hydrogenation Factory at Kothikode having an installed capacity of 3,000 tons per annum. Besides, there are seven factories with an annual rated capacity of 33,000 tons. It is the Government's policy not to permit any further expansion of the industry as the present capacity is adequate to meet all the requirements of 4 lakh tons. The aggregate installed capacity of the industry in August 1958 was 440,724 tons per annum. The actual output of Vanaspati during 1957 amounted to 301,356 tons as against 255,612 tons in 1956.

The consumption of vanaspati in India has increased at an average rate of about 20,000 tons per annum during the First Plan period. It is assumed that the consumption will rise at the rate of 25,000 tons per annum during the Second Plan. On this basis, the internal consumption may be estimated at about 380,000 tons in 1960-61.

In 1956-57 the internal consumption was 280,000 tons.

The following table summarises the progress of the industry:

	(tons)		
Year	Production	Consumption	Exports
1951-52 ..	180,000	177,000	3,000
1952-53 ..	199,000	196,000	3,000
1953-54 ..	199,000	196,000	300
1954-55 ..	225,000	216,000	9,000
1955-56 ..	270,000	258,000	12,000
1956-57 ..		280,000	11,150
1957-58 ..		305,000	

In 1956-57 the exports amounted to 11,154 tons valued at Rs. 2.04 crores. The value of the exports in 1955-56 was Rs. 1.75 crores, in 1954-55 it was Rs. 1.48 crores.

There is no export duty on Vanaspati.

* Pre-organisation States.

‡ Includes hydrogenated oil

† The number is estimated at about 3,000 at the end of 1957.

‡ Includes oxidised oil.

The gap between the installed capacity and actual production has continued to remain wide as will be seen from the following table:—

Year	Installed Capacity Tons	Production Tons
1951	325,723	172,320
1952	339,223	190,812
1953	368,232	191,652
1954	368,232	225,000
1955	380,232	280,784
1956	412,020	255,612
1957	443,724	301,356

The net capital invested in the industry is about Rs. 25 crores. Besides 10,000 workers directly employed, the industry provides indirect employment for nearly 60,000 workers.

Edible Oils constitute the chief raw material of the industry.

The table below summarises the programme of development in the Second Plan:

	(Tons)	
	1955-56	1960-61
Installed Capacity	445,000	445,000
Production	270,000	400,000
Internal Consumption	255,000	375,000 to 380,000
Exports	15,000	20,000 to 25,000

WOOLLEN INDUSTRY

IN 1951 there were 44 factories including four spindles installed were 2,039 and 116,800 put up since the war and the total capital employed was estimated at Rs 7 crores. The number of factories was higher at 122 industry gave employment to about 18,000 with 3,950 powerlooms and 157,178 spindles workers. The number of powerlooms and installed on the basis of a double shift.

The regional distribution of woollen mills and their capacity at the end of 1955-56 were as follows:

State*	No. of units	Capacity (Numbers)		
		Woollen Spindles	Worsted Spindles	Powerlooms
Bombay	12	12,226	47,936	605
Saurashtra	1	2,130	7,032	84
Mysore	3	10,478		221
Uttar Pradesh	4	12,354	9,672	364
Kashmir	1	1,542	1,500	18
West Bengal	5	1,300	5,094	76
Madhya Bharat	1	516		20
Punjab	94	20,402	25,182	2,554
Delhi	1			
Total	122	61,032	98,146	3,950

* Pre-reorganization

Woollen manufactures consist of blankets, shawls, shawls, blis coating, overcoating, tweed, of coarser and heavier types of goods.

The position in respect of installed capacity and actual production during the years 1956 and 1957 as also in the first eight months of 1958 is indicated below:

	1956	1957	Jan-Aug 1958
Yarn (million lbs.)			
Capacity	19.00	20.20	20.20
Production	15.60	27.79	19.21
Fabrics (million yds.)			
Capacity	24.00	24.00	24.00
Production	16.34	15.79	12.43

The consumption of woollen goods in India is low in comparison with other countries.

IMPORTS, EXPORTS

Imports of wool and woollen goods have remained at a fairly high level, the annual value being of the order of Rs 11.12 crores in 1954-55, Rs 11.00 crores in 1955-56, Rs 10.08 crores during the period April-December 1956. The total value of imports of raw wool, wool tops, woollen yarn, woollen cloth and druggets during the year 1957 was Rs 14.36 crores. The import of wool tops accounted for nearly Rs 7.16 crores in 1954-55, Rs 7.46 crores in 1955-56, Rs 10.00 crores in 1956-57 and Rs 12.00 crores in 1957-58. Imports aggregated Rs 11.23 crores in 1957 and Rs 7.06 crores in the first eight months of 1958. The large imports of wool tops are indicative of an important gap in the structure of the industry, the combing capacity of which is considerably short of the demand for wool tops.

The exports of woollen manufactures declined from Rs. 6 crores in 1950-51 to Rs. 4.4 crores in 1953-54 and to Rs 3.87 crores in 1954-55 and to Rs 3.97 crores in 1955-56. During the nine months April to December 1956 the exports aggregated Rs 3.30 crores. The value of export was Rs 39.78 lakhs in 1957 and Rs 28.55 lakhs in the first eight months of 1958. The export of woollen yarn, which was totally banned, has been permitted since March 1954 in view of the improved supply position, but not much progress has been made. The value of woollen yarn actually exported in 1957 was no more than Rs 1.07 lakh. Export of raw wool and wool tops is placed at Rs 8.61 crores in 1954-55 and Rs 9.73 crores in 1955-56 as against Rs 5.87 crores in 1953-54. Exports during April-December 1956 were valued at Rs 7.27 crores, in the calendar year 1957 at Rs 11.74 crores and in the first eight months of 1958 at Rs. 5.98 crores. The total capital investment in the industry amounted to Rs. 10.25 crores in 1956. The labour force was 17,000 in 1955-56.

A Development Council for the Woollen Industry was constituted by the Government of India in July 1955. The Council has actively taken up export promotion of woollen fabrics.

SECOND FIVE-YEAR PLAN

Under the Second Five Year Plan the output of woollen and worsted fabrics by the organized mill sector is expected to be stepped up from the present level of about 15 million yards to about 20 million yards by 1960-61. The yarn requirements of all the sectors will be 12 million lb of woollen yarn and 15 million lb of worsted yarn per annum.

But there is no combing plant in the country to produce wool tops. So it is proposed to establish during the period a plant with a capacity of about 9 million lbs. involving a capital investment of Rs 2.25 crores.

The development programme for the woollen textile industry, mill sector, in the Second Five Year Plan is indicated below:

	1955-56	1960-61
Spindleage and Loomage		
Woollen sector-spindles	61,032	62,768
Worsted sector- "	98,416	1,23,416
Powerlooms	3,950	4,051
Annual rated capacity on double shift		
Woollen Yarn (million lb.)	17	17.5
Worsted Yarn (million lb.)	21	28
Woollen and Worsted fabrics (million yd.)	48	50
Production		
Woollen tops (million lb.)	..	9
Woollen yarn (million lb.)	10.6	12
Worsted yarn (million lb.)	11.0	15
Woollen & Worsted fabrics (million yd.)	14.9	20

HOSIERY INDUSTRY

According to the Tariff Commission, there were in 1951, 875 units, excluding four mills having a hosiery section, of which as many as 843 were in the Punjab with a capital investment of approximately Rs 3 crores. Only 66 units were, however, registered under the Factories Act and 45 used electric power.

The quantity of hosiery goods manufactured in 1956 is estimated at over 50 lakh lb.

It is estimated that about 4 million lb. of hosiery and knitting yarn are at present consumed by the Ludhiana hosiery units and about 0.5 million lb. by the hosiery units located in other States. Some of the organized mills also produce worsted hosiery goods, consuming about 0.5 million lb. of yarn. Thus the total quantity of yarn consumed by the hosiery industry is estimated at around 5 million lb.

MINES AND MINERALS

By courtesy of Mineral Economics Division (Intelligence Section), Indian Bureau of Mines, Government of India.

ALLOTMENT under the First Five-Year Plan (mineral development): Rs. 1.06 crores.

Allotment under the Second Five-Year Plan: Rs. 73 crores.

Some major facts are given below:

The total value of the mineral production in India in 1957 was Rs. 127 crores.

The production targets of coal and iron for the Second Plan are 60 million and 12.5 million tons respectively. The current production is around 44 million and 5 million tons respectively.

By the end of the Second Plan the country would have three additional steel plants, one additional aluminium plant, four additional ferro-manganese plants and thirty-six additional cement factories.

The foreign exchange earned from minerals in 1957 was Rs. 64 crores.

The country spent foreign exchange to the tune of Rs. 200 crores for buying minerals and metals from abroad.

The mineral wealth of India, as at present known, though by no means inexhaustible, comprises an adequate range of useful products necessary for industrial development.

The reserves are ample in respect of minerals essential for basic industries—coal and iron—but the country is deficient in a fairly long list of vital minerals like ores of copper, tin, lead, zinc, nickel, cobalt and in sulphur and petroleum.

Coal, iron ore, manganese ore, ilmenite, kyanite (and mica for which data are not available) are produced in quantities of real importance to industry and other sections of economy.

Of these mica, manganese ore, kyanite and ilmenite are wholly or largely exported.

The position with regard to aluminium ore, refractories, abrasives, limestone, etc., may be considered as fairly adequate while in respect of titanium and thorium ores and of mica, the country has considerable reserves.

connected with the country's hydro-electric development as well as ground water supply.

The Indian Bureau of Mines gives advice to the Government on mineral concessions, takes up exploratory work for proving of minerals and ore deposits required for various industries; undertakes research and beneficiation of low grade ores; inspects mines to ensure improvement in mining practices and conservation of minerals; advises the Government regarding mineral policy; advises the Government and other interested parties regarding the uses, occurrences and marketing of different minerals; and collects and publishes mineral production statistics.

The Atomic Energy Department looks after the development and processing of such minerals and substances as may be used for the production or use of atomic energy or for research into matters connected with it. The Central Government have declared the following substances and all their respective components as prescribed substances for atomic use:—Uranium minerals, thorium minerals, beryllium minerals, vanadium minerals, lithium minerals, radium, zirconium, graphite, deuterium, plutonium, neptunium and minerals containing the above metals and accessories ingredients, such as uraniferous allanite, triplite, columbite and tantalite.

The Coal Board under the Ministry of Steel, Mines and Fuel looks after the mining and development of collieries in the public sector and the distribution of coal to various consumers.

For the import and export of important minerals like iron ore, manganese, etc., there is now a State Trading Corporation under the Ministry of Commerce and Industry.

PRODUCTION, EXPORTS—IMPORTS

The total value of the mineral production in 1957 was of the order of Rs. 1,272 million against Rs. 1,067 million in 1956.

The increase of Rs. 185 million or 17 per cent compared to the total valuation of the previous year was mainly due to the higher production of coal, iron ore, lead and zinc limestone and salt, and the higher prices of coal, manganese ore in the first and the latter half of the year 1957.

The total exports of mineral from India during 1957 fetched foreign exchange worth Rs. 641 million as compared with Rs. 527 million in 1956.

The exports of metals in 1957 were valued at Rs. 34.5 million as against Rs. 54.4 million in 1956. The major fall was accounted for by iron and steel materials, pig iron and zinc.

The value of the imports of minerals during 1957 was Rs. 89.4 million as against Rs. 97 in 1956.

Apatite, asbestos and sulphur accounted for 70 per cent of the total value of imports during the year.

The total value of metals imported during 1957 was Rs. 1,911 million which was Rs. 305 million higher than the preceding year.

The import of non-ferrous metals also registered a marked increase during the year.

The total value of imports (other than gold and silver) in 1957 amounted to Rs. 435 million as against Rs. 354 million in 1956.

Department of Mines

The Department of Mines was formed in 1902 to administer the Mines Act, to hold enquiries into mine accidents and into cases of explosions, inundations, fires, collapses, breakdowns etc. in mines of all types, from stone to coal and gold, etc.

Specialist staff of the Department now includes a Medical Inspectorate, an Electrical Inspectorate and Mechanical Inspectorate.

MINERAL NEEDS OF INDUSTRIES

Mineral	Estimated annual consumption (1956)	Estimated requirements in 1960-61
Coal (m. tons)	25.10	60
Limestone (m. tons)	8.2	23
Gypsum ('000 tons)	836	1.97
Iron ore	3,149	10,500
Manganese ore	100	500
Bauxite	92	175
Ilmenite	Negligible	3
Sulphur	84	210
Rock phosphate	55	400
Petroleum crude (m. tons)	N.A.	N.A.
Pyrites	..	Not estimated

POLICY

As part of the national policy to ensure efficient working of known mineral deposits, a Mines and Minerals (Regulation and Development) Act was put into force on 25th October, 1949. This Act was later repealed by the Mines and Minerals (Regulation and Development) Act of 1957 which came into force on 1st June 1958.

By Section 5 of this Act the Central Government is empowered to make rules for regulating the grants of mining leases or for prohibiting grants of such leases in respect of any mineral or in any area.

By Section 6 of the same Act, the Central Government is empowered to make rules for conservation and development of minerals and by Section 7 to make rules for the modification or alteration of the terms and conditions of the leases granted prior to the commencement of this Act, so as to bring the terms and conditions of leases granted in accordance with the rules made under Sections 5 and 6.

Section 4 of the Act provides that any prospecting licence or mining lease granted after the commencement of that Act otherwise than in accordance with those rules, shall be void and shall have no effect.

The Central Government have so far issued three sets of rules: The Mineral Concession Rules, 1949; The Petroleum Concession Rules, 1949 and the Mineral Conservation and Development Rules, 1958.

In 1956 the Ministry of Steel, Mines and Fuel framed mining leases (Modification & Terms) Rules, 1956, under Section 7 of the Mines and Minerals (Regulation and Development) Act, 1948. These Rules were published in the *Gazette of India* in Part II, Sec. 3 of 15th September, 1956.

In Oct. 1957 the Government of India decided that private parties were in future to be granted

mining leases for minerals listed in Schedule A of the Industrial Policy Resolution of 1956, which is normally reserved for the public sector.

The minerals included in the Schedule 'A' of the Resolution are coal and lignite, mineral oils, iron ore, manganese ore, chrome ore, gypsum, sulphur, gold, diamond, copper, lead, zinc, tin, molybdenum and wolfram.

The step was taken by the Central Government in view of the extreme urgency of increasing India's foreign exchange earnings.

The State Governments were requested to expedite action on pending applications especially in regard to iron ore and manganese.

In 1952 the Government of India enacted the Coal Mines (Conservation and Safety) Act, for the purpose of taking under its control the regulation of coal mines to the extent as provided in the Act. The Indian Mines Act, 1923 was re-enacted after making suitable amendments in 1952 and called Indian Mines Act, 1952.

Government of India has also framed rules for atomic energy minerals and other minerals used for the production or use of atomic energy or for research. This Act is known as The Atomic Energy Act, 1948.

GOVERNMENT ORGANISATIONS

A private company has been set up by Government by name the National Mineral Development Corporation (Pvt.) Ltd. which will be responsible for the exploitation of minerals in the public sector excluding oil, natural gas and coal. It has an authorized capital of Rs. 15 crores. To start with, it will undertake the exploitation of iron ores in Kiriburu, selected for the purpose of export to Japan of two million tons of iron ore a year.

The Geological Survey of India prepares geological base maps showing mineral deposits, and also tackles the engineering problems

The Department also conducts the various examinations for Certificates of Competency for Mine Managers, Surveyors and other mine officials.

The Department publishes monthly Coal Bulletin, an annual Indian Coal Statistics (containing statistics about employment, earnings, production, accidents, mechanisation etc.), periodicals of coal and non-coal mines (containing names and address of all mines and their owners, and the situation of these mines) and an Annual Report about the working of all mines in India.

Employment

Six lakhs twenty-eight thousand and five hundred eighty-one (628,581) persons were employed in mines in 1956. Of these 60 per cent were in collieries.

The actual break-up of the persons employed in mines is given below :—

	1956	1957
Coal	352,429	370,244
Manganese Ore	109,948	110,214
Iron Ore	37,311	40,345
Mica	33,973	35,267
Gold	17,940	17,089
Others	77,040†	79,033†
Total employment in mines	628,581	651,321

†Includes salt mines.

This is exclusive of people employed in connected industries which figure is estimated around two lakhs

ACCIDENTS

The number of accidents in mines is generally 10 to 20 times more than in factories. One reason for this is that conditions change from day to day in a mine as they do not in a factory. The problem gets worse as mines go deeper and more machinery is used.

Large-scale accidents are really about a seventh of the total number of accidents. The danger that is ever present is of individual accidents affecting one or two persons.

The first Mines Act relating to the regulation of labour and safety in mines was framed in 1901 and required inter alia the appointment of qualified managers and the submission of periodical returns.

Rules made under the Act required the provision of two outlets, maintenance of plans, proper lighting and ventilation etc., and laid down precautions to be taken against noxious gases and smoke, against falling of roof and sides, inflammable gas, inundation and during winding and use of explosives etc.

The Mines Act was re-enacted in 1923, and included new provisions relating to hours and limitation of employment.

New codes of Regulations for coal and metalliferous mines were re-framed once more in 1926 to replace the old General Rules. New important provisions related to the submission of 'abandoned mine plans', the maintenance of adequate barriers between adjacent mines and the provision of detaching hooks to prevent over-winding in shafts.

The Surveyor's Certificate of Competency was also instituted at this time.

The Regulations were further amended in 1936 to 1938 to provide against dangers of inundation, premature collapses, fires, inflammable gas, coal dust, blown-out shots, etc.

A stowing fund was also created to assist schemes of stowing to prevent and control fires and collapses.

The employment of women below ground was first prohibited in 1937. In that year, provisions were also made for the establishment of Mines Rescue Stations; they were enforced in 1939. Later amendments of regulations related to the workings of contiguous seams, maintenance of joint survey plans, determination of atmospheric conditions behind sealed-off fire areas and electric shotfiring in mines, etc.

In 1952, a new Mines Act was enforced in supersession of the 1923 Act. A new code of Coal Mines Regulations was also prepared in view of the changing methods of working and advances made in other countries, and was enforced in 1957.

The safety records of mines in India compare favourably with the best performances of the mining industry in any country of the world.

Within the country itself, it has shown a consistent downwards trend despite disasters in 1954 and 1955. In spite of a considerable expansion of the industry during these years, the number of fatalities in mine accidents came down from 425 in 1951 and 463 in 1952 to 335 in 1956 and 254 in 1957.

In the early part of 1958, however, there was a severe set-back due to two major disasters in one night—an explosion at Chinakuri Colliery in West Bengal (involving 178 lives) and an inundation at Central Bhowrah colliery in Bihar (involving 23 lives).

As this gave rise to grave concern, the Government of India called a broad-based tripartite Conference on Safety in Mines to assess the present position and to suggest ways and means to promote safety in mines. The Conference met in Calcutta in August 1958 and made important recommendations, relating to training of mine workers and technicians, safety education, discipline, manufacture of safety equipment within the country, need for research in mining problems, etc.

Steps are being taken to implement the recommendations of the Conference.

FREQUENCY RATES (PER 1000 PERSONS EMPLOYED) OF FATAL ACCIDENTS IN THE COAL MINES 1955-1957.

Country	1955	1956	1957
India	0.89	0.73	0.51
Germany (Ruhr)	0.98	43.50*	1.08
Belgium	0.71	0.56	0.67
United Kingdom	2.40	2.62	2.81

*Including 262 persons killed in Merckville fire.

COAL

The most important coal fields are Raniganj in West Bengal and Jharia and Bokaro in Bihar. The Raniganj and Jharia fields contribute about 82 per cent of the total output. The best coking coal comes from Giridih, Jharia and Raniganj. Other States in which coal is found are Madhya Pradesh, Orissa, Andhra, Madras, Kerala, Bombay, Assam, Rajasthan and Kashmir.

There are about 388 coal mines working in India.

Indian coal falls mainly into two classes namely, high grade steam and low grade steam.

The Metallurgical Coal Conservation Committee placed the reserves of coking coal at 229.6 million tons in respect of selected grade, 595.7 million tons of grade I quality and 69.1 million tons of grade II quality. With stowing, washing and blending the Committee thought that a reserve of 2,000 million tons of good quality

coking coal could be obtained. The Geological Survey of India estimated the reserves of Gondwana coal and Tertiary coal at 38,116 and 4,533 million tons respectively.

The following table gives the details of output :—

Year	Production (million tons)
1948	30.12
1949	31.70
1950	32.81
1951	34.48
1952	36.80
1953	35.98
1954	36.88
1955	38.23
1956	39.28
1957	43.50
1958	45.2

Under the Mines and Minerals (Regulation & Development) Act, 1958, the period of lease to coal mines has been extended to 30 years with the option of one renewal for the same period.

Previously it was for 20 years with an option of renewal of 20 years.

The Coal Bearing Areas (Acquisition and Development) Act, 1957, (Act No. 20 of 1957) was passed by Parliament in May 1957. This Act empowers the Central Government to acquire and develop any coal bearing area in the public interest.

Mechanisation in the industry is at an early stage of development. In 1957, on an average, there were 456 coal cutting machines in about 155 mines which produced 23 per cent of the total output. Also, there were 5 mechanical loaders and about 92 mechanical conveyors in operation.

Out of the 23 million tons of additional coal to be raised by 1960-61, 12 million tons will be raised in the public sector and 10 million tons in private sector.

The existing State collieries are administered by the National Coal Development Corporation (Private) Ltd. located in Ranchi. This will also look after the collieries which will be established during the period of the Plan.

There is a wing under the Coal Production and Development Commissioner who will be the administrative head of the State collieries and the new collieries to be established during the Plan period.

The control of coal, exercised under the colliery control order regarding distribution, price, etc., and the general control over private industry has been entrusted to a separate authority, the Coal Controller.

The approximate quantity of coal consumed by some of the principal consumers in India during 1957 was in million tons: Railways 14.612; Iron and steel plants 2.658; electric supply companies 2.610; cement factories 1.074; cotton mills 1.918; paper mills 0.617; jute mills 0.423; brick burning works 1.167; chemical factories 0.959; Indian bunkers 0.221.

The target for coal production by 1960-61 has been fixed at 60 million tons. At the same time the question of conserving metallurgical coal and washing of coal up to grade 4 has been given high priority during the Second Five Year Plan. There are already three washeries in the private sector at the Jamshedpur, West Bokaro and Lodna collieries which supply washed coal to the Tata Iron and Steel Company and the Indian Iron and Steel Company.

The present production of these washeries is not adequate to meet their expanded needs. It is estimated that by the end of 1960-61 the steel industry in India would require about 9 million tons of washed coal per year.

A Government coal washery with 500 ton per hour capacity is being set up at Kargali which will be in a position to feed 1.1 million tons and 500,000 tons of washed coal respectively to Rourkela and Bhilai steel plants.

Besides this, it has been decided to set up three more State washeries of 500 ton per hour capacity each at Dugda, Patherdih and Bhorudih.

The washery at Dugda will supply generally Bhilai and Rourkela, the one at Patherdih the I. I. S. Co and the third at Bhorudih the T.I.S. Co.

In contrast for the steel plant at Durgapur, is a washery to treat Jharla coals to meet the requirements of that steel plant.

Because of the paucity of coal deposits in south India, high priority has been given to the development of the multi-purpose 'South Arcot Lignite Project' at Weyval. This plant will be producing 980,000 tons per annum of carbonised briquettes. (See under 'Government Industrial Undertakings'.)

IRON ORE

On account of the high ash of Indian metallurgical coals, it is usual in estimating the Indian iron ore reserves to accept only ores with an iron content of 60 per cent and above. (Ores below this iron content are used only in very small quantities in Indian blast furnaces.)

India possesses about one-fourth of the total world reserves of iron ore and is the biggest single country possessing such a large quantity of iron ore deposits as 21,000 million tons, though her output constitutes only 2 per cent of the total world production, compared to U.S.A. 43 per cent and U.S.S.R. 18 per cent.

The production of iron ore in 1958 was 5,24,000 as against 5,074,000 in 1957.

The quantity of the ore exported in 1957 was 216 million tons as compared to 1.98 million tons in 1956.

The whole export of the iron ore has been canalised through the State Trading Corporation from 1st July, 1957.

The principal buyers of the Indian ore are Japan, Czechoslovakia, Italy and Poland in that order of importance.

During 1957 seven major steel companies of Japan entered into contract with the State Trading Corporation of India for the import of 7.2 million tons of iron ore over a period of 5 years. Smaller contracts were also made with the buying organisations in Czechoslovakia and Poland.

Iron and steel scrap exported to Japan in 1954 was 1.05 lakh tons valued at Rs. 185 lakhs.

DISTRIBUTION

The region-wise reserves proved and indicated in the country are shown below in million tons:

HAEMATITE ORES (in million tons)

Bihar and Orissa : Singhbhum 1,047; Keonjhar 988; Bonal 648; Mayurbhanj 60; total 2,743.

Madhya Pradesh : Dhall-Rajhara 114; Balladila 610; Rowghat 740; Jabalpur 100; total 1,564.

Bombay : Ratnagiri 5; Goa 18; Chanda 22; total 45.

Andhra	41
Kashmir	5
Mysore	904
Rajasthan	5
Punjab	2
U. P.	10
Total (Haematite ores) ..	5,316 million tons.

The total possible reserves of haematite ores are 17,690 million tons.

MAGNETITE ORES (in million tons)
The reserves proved and indicated in million tons are :

Madras : Salem-Tiruchirappalli 305.

Mysore : 215.

Bihar and Orissa : 5.

Himachal Pradesh : 60.

Andhra : 20.

Total (Magnetite ores) 605 million tons.

The total possible reserves of magnetite ores are 1,610 million tons.

LIMONITIC AND SPATHIC ORES (in million tons)

The reserves proved and indicated of limonitic and spathic ores are :

Bengal : 500 million tons; and the possible reserves 2,000 million tons.

A coal bearing region 13 sq. miles in Bankura, Dist. (W. Bengal) has been discovered with reserves of 11 million tons.

The grand total of all ores proved and indicated is 6,421 million tons and the possible reserves 21,240 million tons.

Large deposits of high grade ores are limited to a few areas of which the following fields require special mention :—

(i) **Singbhum and Orissa :** In what is known as the Singhbhum Iron Belt, consisting of the Singhbhum District, in which the Tata Iron & Steel Company's Steel Works are situated, and the neighbouring areas, there exist some of the richest iron ore deposits in the world. The iron content of the ore considered usable varies from 60 per cent to 65 per cent.

The proposed Durgapur steel plant will meet the requirement from the iron ores occurring in the neighbouring regions. The Bonal ore range which is the extension of the main iron ore range will feed the Rourkela steel plant. The Indian Bureau of Mines has worked in this area for proving iron ore deposits for the Rourkela steel plant.

(ii) **Mysore :** There are big deposits of haematite and quartz—magnetite ore in Mysore but the latter are of low-grade and would require concentration before using them. The ores used in the Bhadravati Iron Works are from the Bababudan Hills and can be compared to Singhbhum ores containing about 60 per cent iron.

Limonite deposits are also known to exist but they have not been properly explored owing to transport difficulties.

(iii) **Madras :** Very large deposits, mainly magnetite, occur in Salem. They have been estimated at 305 million tons. They will, however, require concentration before use, and there may be considerable losses in the process.

(iv) **Madhya Pradesh :** Large deposits of haematite are found in the Bastar, Drug and Jabalpur districts of this State. Dhall-Rajhara, Rowghat and Balladila ranges in the Drug and Bastar districts are the major deposits in Madhya Pradesh. These three ranges are the main sources of iron ore for the Bhilai steel plant.

The exploratory work for blocking the iron ore deposits at Jharandalli in Rajhara Pahar, from where the Bhilai steel plant will draw its supplies was done by the Indian Bureau of Mines. In addition to iron ore, the Indian Bureau of Mines has also done operations in respect of limestone at Bhanpuri, dolomite at Bhanpuri, dolomite at Balapara and manganese ore at Balaghat area, in Madhya Pradesh for the requirements of the Bhilai steel plant.

(v) **Other Areas :** In Andhra the Balladila range is reported to have haematite deposits which are inaccessible and far away from coal fields.

The only source of high-phosphorus ore is in Bengal. It is poor in iron content being 35 per cent to 45 per cent and the more easily available ore in this locality has been exploited.

The deposits in the Ceded Districts in Andhra are estimated to be not less than 300 million tons.

The contribution of Mysore to iron ore production ranges between 40,000 and 60,000 tons, and the rest comes practically from Bihar and Orissa.

Production

The following is the trend of production:

Year	Qty. in '000 tons.	Value Rs. lakhs.
1952	3,926	2,68
1953	3,855	2,81
1954	4,308	2,89
1955	4,678	3,23
1956	4,898	3,99
1957	5,074	4,34

There has been a growing export trade in iron-ore as indicated below :

Year	Qty. in '000 tons.	Value in Rs. '000.
1951	197	63.44
1952	648	2,99.08
1953	1,094	5,01.75
1954	1,056	4,62.75
1955	1,287	5,61.64
1956	1,982	10,20.00
1957	2,216	11,76.04

The present yearly production of iron ore is around five million tons and the target for the Second Five-Year Plan is 12.5 million tons. Of these, 10.3 million tons are expected to be consumed in the country, and 2.2 million tons would be available for export.

MANGANESE ORE

India is rich in manganese ore. Extensive deposits occur in Madhya Pradesh, Orissa, Andhra, Bombay, Mysore, Bihar, and Rajasthan.

The total reserves of manganese ore in the country are now estimated at over 100 million tons of which 15 million tons are of high grade. It is estimated that the deposits in the main belt of Nagpur and Bhandara in Bombay State and Balaghat and Chhindwara in Madhya Pradesh alone contain reserves of the order of 80 million tons upto a depth of 500 ft. A major part of the output is exported at present.

The following is the trend of output and exports (000 tons).

Year	Production	Exports
1951	1,292	1,017
1952	1,462	1,409
1953	1,902	1,654
1954	1,413	1,082
1955	1,584	1,232
1956	1,687	1,458
1957	1,608	1,706*

* Including ferruginous manganese.

By the end of the Second Five-Year Plan period the production and export figures are expected to reach 2 million tons and 1.5 million tons respectively.

To conserve good quality ore, export has been controlled since 1948. At present the export of high grade manganese ore is allowed to the extent of two million tons including 12,000 tons of battery grade. There is no quota restriction on the export of low grade. To conserve high grade ore Government is encouraging the setting up of beneficiation plant to improve low grade coal and promote export. A heavy media separation plant for beneficiating low grade ore was set up by the Central Province Manganese Ore Co. Ltd. at Dongri Buzurg in Rhandara District in 1954. A similar plant is being set up at Garividi in Andhra.

In the private sector four ferro-manganese plants located respectively at Joga and Ravagada in Orissa, Garividi in Andhra and Dandell in Mysore have gone into production.

The Government is also encouraging the setting up of new units for the manufacture of ferro-manganese for which a production target of 160,000 tons during the Second Five-Year Plan has been proposed.

Export

Out of this 60,000 tons will be required for internal consumption and the rest will be available for export.

The Korean war in 1949 produced a buoyant effect on production, export and prices of Indian manganese ore. The f.o.b. price for 48 per cent manganese which was quoted at Rs. 44 per ton in 1947 rose to Rs. 46 in 1949 and to Rs. 190 in June, 1953.

Ore with 42 per cent manganese and 45 per cent manganese was quoted at Rs. 31.5 and Rs. 43.5 per ton in 1947 and rose to Rs. 104 for 42-45 per cent manganese in 1949 and to Rs. 146 in June 1953.

There was little demand for ore with 38 per cent manganese before 1950. This grade was quoted at Rs. 40 in the third and fourth quarters of 1950. The price rose to Rs. 105 in May 1953. Higher prices upto Rs. 125 per ton were offered for this grade during 1951 and 1952. After June 1953 prices began to soften slightly.

The Korean war ended in 1954. This resulted in a decline in the prices of manganese ore. The ores with 48 per cent manganese and 38 per cent manganese were quoted at Rs. 56 and Rs. 45 per ton respectively in July 1954 as against Rs. 190 and Rs. 100 in June 1954.

The decreasing trend in price and in export ended at the beginning of 1955. The price rose to Rs. 115 in January 1955 for 48 per cent manganese and further improved to Rs. 180 in October and again to Rs. 250 per ton in October 1956.

There was a similar rise in the price of ore with 38 per cent manganese which was quoted at Rs. 105 per ton in December 1955 and Rs. 180 in December 1956.

The prices again showed a declining trend from the beginning of 1957. This continues (August 1958).

This is mainly due to a recession in the steel industry particularly in U.S.A. which is India's principal buyer the supply of Banjar manganese ore and the entry of Russia into the world market. The prices of 48 per cent and 38 per cent manganese ore were quoted at Rs. 175 and Rs. 90 in June 1955 as against Rs. 240 and Rs. 198 in June 1957.

The Government imposed an export duty on grade basis again with effect from 1st September, 1956.

The export duty was as follows :—(i) 30% Mn. or below : Free from duty ; (ii) Over 30% Mn. and not exceeding 40% Mn. : Rs. 10 per ton ; (iii) Over 40% Mn. not exceeding 44% Mn. : Rs. 20 ; (iv) Over 44% Mn. : Rs. 30.

In February 1958 the export duty on manganese ore containing 42 to 44 per cent manganese was brought down from Rs. 20 to Rs. 10 and the duty on low grade ore containing less than 42 per cent manganese was abolished.

In Nov. 1958 the export duty on all grades of manganese ore was abolished.

In 1958 the production of manganese ore was estimated at 1.23 metric tons.

MICA

Mica has been treated as a strategic mineral and India accounts for a big slice of the world trade in it.

The principal mica deposits are concentrated in Bihar, Rajasthan and Andhra.

In Bihar the mica belt is 60 to 80 miles long and about 12 to 16 miles wide and produces "ruby" mica which is in great demand all over the world.

At present Rajasthan is responsible for about 25 per cent of the Indian production. Most of the production from Rajasthan is sent to Bihar to be split and marketed.

The mica belt in the Nellore district in Andhra is about 40 miles long and 5 to 10 miles wide. The greater portion of the Andhra output is of "green" variety.

The statistics of mica production were not reliable till 1955. It was only after the promulgation of the Mineral Conservation and Development Rules that the Bureau of Mines was able to get correct figures.

The production and export figures of Mica are given below :—

Year	Production (crude) (cwt.)	Export (all varieties) (cwt.)
1955 ..	465,014	435,791
1956 ..	560,885	424,950
1957 ..	609,082	440,472

CHROMITE

Chromite is an important strategic mineral of which India has moderate supplies.

The chief deposits are in the Singhbhum district of Bihar, the Mysore and Hassan districts of the Mysore State, the Ratnagiri and Sawant-wadi areas of Bombay State, the Krishna district of Andhra, the Salem district of Madras and the Kronghar district of Orissa.

The estimated reserves of chromite ore are as follows (tons) :

Bihar 20,500 ; Bombay 66,000 ; Madras 220,000 ; Mysore 565,000 ; Orissa 2,443,000.

The following table gives details regarding production and export of chromite ore :—

Year	Output	Exports
1952 ..	25	8
1953 ..	65	15
1954 ..	45	23
1955 ..	89	48
1956 ..	53	42
1957 ..	79	41

Export of chromite which was unrestricted till 1948 was brought under control and a ceiling of 10,000 tons was prescribed. In September 1958 the restriction on exports was removed.

MAGNESITE

Large deposits of magnesite used in the manufacture of magnesium salts, metallic magnesium and refractory bricks are known to occur in Salem (Madras), Hassan, Coorg and Mysore (Mysore), Almora (U.P.), Idar (Bombay), Durgapur (Rajasthan) and Singhbhum (Bihar).

Of these, the chief producing centres are Salem, Hassan and Mysore.

The deposits in Madras and Mysore States are known to contain 100 million tons upto a depth of 100 ft. Large deposits of magnesite have been discovered near Almora in U.P.

The existence of deposits of the order of 1-8 million tons here has been proved.

About a half of the output is used in the manufacture of refractory bricks for steel works and a considerable quantity is exported.

The output and export of magnesite from 1951 to 1957 are given below :—

Year	Output (Tons)	Exports (Cwts.)
1951 ..	117,460	981,707
1952 ..	89,041	625,851
1953 ..	92,748	850,658
1954 ..	70,507	507,236
1955 ..	87,509	492,746
1956 ..	91,711	690,920
1957 ..	88,885	428,858

The total all-India production and export of magnesite in 1956 was : production, 91,711 tons and export, 691,000 cwt.

GYPSUM

Gypsum deposits are known to exist in several parts of India. The better known gypsum bearing regions are in Rajasthan (Jodhpur, Bikaner and Jaisalmer) and in Madras (Tiruchirappalli district).

The total reserves are estimated at 95 million tons, of which more than half is located in Rajasthan.

Smaller deposits also occur in Tehri-Garhwal, Himachal Pradesh and parts of western India ; but these have not been explored.

The annual production from Indian deposits from 1950 is given below :—

Year	Output ('000 Tons)
1950 ..	206
1951 ..	204
1952 ..	411
1953 ..	586
1954 ..	612
1955 ..	690
1956 ..	852
1957 ..	922

The entire output is consumed in the country for the manufacture of fertilizers, cement and plaster of Paris. The cement industry consumes 3 to 4 lbs. of gypsum for one ton of cement produced. The annual requirements of the Sindri fertilizer factory is about 600,000 tons of gypsum.

The reserves of gypsum in India of all grades are estimated at 88 million tons of which Rajasthan alone possesses 64.6 million tons.

Recently the Sindri Fertilizers and Chemicals (P) Ltd. have carried out assessments of gypsum deposits in Rajasthan. According to them about 120 million tons of gypsum of all grades upto 30 ft. are available in Rajasthan, out of which it is indicated 25 million tons are of fertilizer grade containing 85 per cent or above CaSO₄.

The Planning Commission has estimated that by the end of 1960-61 the country will require 1.97 million tons of gypsum. The figure is based on the capacity envisaged for industries which use

this mineral. There is a proposal to set up two additional plants similar to Sindri during the Second Five-Year Plan. One of them is to be located near Bhakra-Nangal.

The present consumption of gypsum by Sindri Fertilisers and Chemicals Ltd. is of the order of 5-3 lakh tons per year and this quantity will increase by 1.5 lakh tons after they have completed their expansion programme of production.

SULPHUR

Native sulphur in deposits of large size is unknown in India though some occurrences have come to light in the hill ranges in the north of India, and small deposits of native sulphur produced by bacterial action on sulphates derived from sea-water have been found in the coastal tract of Masulipatnam and in the Barren Island.

There are occurrences in Puga and Kashmir but they are situated in a difficult terrain.

As there is no production of sulphur in India, the country's requirements are met from imports, for which the recent figures are given below :—

Year	Quantity (cwt.)
1952-53	1,474,418
1953-54	878,287
1954-55	1,519,485
1955-56	1,695,411
1956-57	1,999,142

The mineral pyrites is another source of sulphur. It is found widely scattered in Amjor (Bihar), Taradevi (Simala), Lashtial (Kashmir), Ingaldhal, Chitaldug (Mysore), Polur (Madras).

The quantity available at Ingaldhal is estimated at 1.5 million tons.

Substantial quantities of pyrites are associated with the gold deposits of Wynad in the Nilgiris District of Madras.

Copper pyrites deposits are also a source of sulphur. Some of the Indian coal e.g. Assam coal and Kewas coal are high in sulphur. It has been estimated that one ton of sulphur can be extracted from the wasting of every 100 tons of coal.

The industrial development of the country largely depends on sulphuric acid. Its production went up from 107,000 tons in 1951 to 166,000 tons in 1956. A target of 470,000 tons, representing a 300 per cent increase over the present output, has been set for the Second Plan.

COPPER

India has only a small supply of copper. The country produces on an average 7,600 tons of fine refined copper per year, which is mostly utilised in the manufacture of brass for utensils and coins. The country's entire requirement of electrolytic copper is imported.

The production of refined copper in 1956 was 7,628 tons and in 1957 it was 7,848.

The production of the ore in 1956 was 386,196 tons, and in 1957 it was 403,929.

The more recent figures of import of the copper metal are given below :—

Year	Quantity (000 cwt.)	Value in Rs. crores
1953-54 .. ..	..	..
1954-55	540	8.7
1955-56	362	8.7
1956-57	701	16.1

The only area for copper ore in India is being worked by the Indian Copper Corporation at Ghatsila, Bihar, whose smelting plant is six miles away from the place.

There are other areas in the country where the ore might be worked. The more important of these are the Singhbhum copper belt of Bihar,

Sikkim, Jalpaiguri and Darjeeling district (W. Bengal), Khetri, Daribo (Rajasthan), Tehri Garhwal (U.P.) and Jani (Andhra). Exploration conducted by the Indian Bureau of Mines is now in progress in Khetri and Daribo in Rajasthan and the results are encouraging.

SALT

The country has been not only self-sufficient in salt since 1951 but has now (1956) an exportable surplus of over 200 lakh maunds. As late as 1947 or 1948 the country had had to import about 120 lakh maunds each year to make up for the deficit.

The salt-producing areas are :

The coastal regions of Bombay, Kerala, Madras, Andhra, Orissa and West Bengal for salt from sea-brine ;

Rajasthan from lake brine as well as subterranean brine ;

Kharaghoda, Kuda, Bajana in the Little Rann of Kutch all in Bombay for manufacture from subterranean brine ;

Mandi, for rock salt, in Himachal Pradesh.

The total number of factories is 164.

The total fixed capital in the salt industry is estimated at Rs. 6.45 crores. In 1950-51 the total investment was about Rs. 5.8 crores, of which Rs. 0.9 crore were invested in the public sector. In 1954-55 the total investment was Rs. 8.3 crores, of which Rs. 1.1 crores were invested in the public sector.

The First Five-Year Plan envisaged a production of 837 lakh maunds (3.1 million tons) in 1955-56. This target was surpassed in 1953 when 861 lakh maunds (3.16 million tons) of salt were produced.

The production in 1957 was 983 lakh maunds (3.6 million tons).

The Second Plan target is 1,000 lakh maunds (3.7 million tons) in 1960-61.

The statistics of production of salt are given below (in lakh maunds) :

1946	479	1953	861
1947	516	1954	739
1948	635	1955	811
1949	586	1956	889
1950	713	1957	983
1951	744	1960-61	1,000
1952	769	(target)	

The capacity for production is unlimited. Actual production is limited by market conditions.

The total number of labourers employed per day in the salt industry in 1956 was 41,554 out of which 2,719 were employed in the public sector.

Machinery is hardly in use except in some factories in Kutch and Saurashtra where a few processes are mechanized.

There are both licensed and unlicensed manufacturers. The latter are engaged in work on areas of 10 acres and less. The number of licensed manufacturers in 1948 was 4,176.

The Salt Control Board has decided to impose control on unlicensed salt manufacture.

With the increase in production the exports have also increased. The statistics for 1955 to 1957 are as follows (in lakh maunds):

1955	66.78
1956	83.06
1957	119.40

During the period Dec. 1956 to Sept. 1957, 90,000 metric tons of salt were exported to Indonesia under a Trade Agreement between the Government of Indonesia and the State Trading Corporation of India.

Salt is subject to the levy of a cess under the Salt Cess Act of 1953. To encourage the small-scale part of this industry Government exempted it from the payment of cess with effect from 15th May 1955. The small-scale manufacture was defined as manufacture by persons whose holdings did not exceed 10 acres. Later with effect from 23rd April 1956 all manufacturers with holdings of 10 acres to 100 acres were asked to pay a cess at the rate of only one anna a maund, while those with larger holdings continued to pay cess at the rate of two annas a maund.

There are one Central Board and five regional Boards—in Bombay, West Bengal and Orissa, Andhra, Madras, Rajasthan—to advise the Government on the proper utilization of the proceeds of the salt cess and the development of the salt industry.

The Salt Commissioners prepare every year a programme of distribution to every State based on per capita consumption. The supply from the source to the consuming areas is regulated under a zonal scheme.

The Salt Department is now under the Ministry of Commerce and Industry. The head of the Department is designated Salt Commissioner; the headquarters are in New Delhi. He is assisted by four Regional Officers, one each at Sambhar, Bombay, Madras and Calcutta.

A company entitled Hindustan Salt Company (Pvt.) Ltd. has been set up by Government to take over the Government salt works at Sambhar and Didwana in Rajasthan and Kharaghoda in Bombay. The authorized capital is Rs. one crore.

To induce smaller manufacturers to join together to form co-operative societies a number of concessions are made.

The standard of edible salt has been raised from 94 per cent to 95 per cent sodium chloride content with effect from 1st January, 1957.

Ten test laboratories in the Madras region, one in the R.S.S. Division and two in the Bombay region have been opened.

Under the Second Five-Year Plan developments are proposed along the following lines: establishment of laboratories, development of works and improvement of brine and of water supply, purchase of plant and machinery, medical and educational facilities and other amenities for the staff.

An expenditure of Rs. two crores is to be incurred both in the public and private sectors.

A scheme for sinking shafts into Mandi mines has been approved. Work on this is in progress. This is expected to increase the production from 1.5 lakh maunds to 4 lakh maunds.

A Committee has been set up by the Government of India to enquire into the working of the salt industry and recommend measures for its development.

RARE METALS

What is believed to be probably the world's biggest deposits of radioactive minerals was located "somewhere in North East India" by the Indian Atomic Energy Department early in 1957.

Investigations carried out showed that the deposit had over 3.3 million tons of ore containing 300,000 tons of thorium of concentration of about 10 per cent. and 10,000 tons of uranium of concentration of 0.3 to 0.4 per cent.

The deposits also contain about 80 million tons of ilmenite. It is reported that further investigation might lead to doubling the present estimates.

The deposit is, therefore, considered more important than the famous beach deposits of Kerala, hitherto regarded as one of the world's richest deposits.

India's total reserves of uranium are reckoned at 30,000 tons and of thorium at 500,000 tons.

QUANTITY AND VALUE (a) OF MINERALS PRODUCED IN INDIA, 1956 AND 1957

Mineral	Unit of Quantity	1956		1957	
		Quantity	Value (Rs. '000)	Quantity	Value (Rs. '000)
Coal	Million Tons	30.28	640,793	43.50	813,991
METALLIC MINERALS.					
<i>Ferrous</i>					
Chromite	Tons	52,686	1,752	78,542	2,920
Iron Ore	'000 Tons	4,898	39,883	5,074	43,434
Manganese ore	'000 Tons	1,687	129,757	1,802	140,549
<i>Total Ferrous</i>			171,372		186,903
<i>Non-ferrous</i>					
Bauxite	Tons	91,225	818	96,750	915
Copper ore	'000 Tons	388	22,081	404	26,534
Gold (b)	'000 Ozs.	209	57,673	179	51,069
Ilmenite	'000 Tons	338	17,812	296	16,812
Lead (Concentrates)	Tons	3,909	978	4,880	1,210
Silver (b)	'000 Ozs.	105	438	126	605
Wolfram	Cwts.	30	9	29	9
Zinc (Concentrates)	Tons	6,880	2,316	7,469	2,532
<i>Total Non-ferrous</i>			109,023		99,686
<i>Total metallic minerals</i>			280,395		286,589
NON-METALLIC MINERALS.					
Apatite	Tons	8,785	132	9,178	190
Asbestos	Tons	1,230	411	1,706	423
Barytes	Tons	6,315	107	12,913	267
Calcite	Tons	5,672	51	4,668	48
China Clay	'000 Tons	155	2,129	181	2,281
Corundum	Tons	352	198	426	244
Diamonds	Carats	1,499	327 (c)	790	168 (c)
Emeralds (d)	'000 Carats	474	240 (c)	338	28 (c)
Feldspar	Tons	3,909	35	7,872	81
Fire Clay	'000 Tons	139	1,149	164	1,264
Gypsum	'000 Tons	854	5,108	922	5,763
Kyanite	Tons	20,135	4,714	23,504	5,468
Magnesite	Tons	91,711	1,846	88,885	1,795
Mica (Crude)	'000 Cwts	561	21,320	609	23,154
Ochre	Tons	12,612	270	15,565	336
Rutile	Tons	541	496	473	473
Salt (Rock)	Tons	3,428	192	4,235	212
Salt (Others)	'000 Tons	3,171	69,328	3,808	74,183
Sillimanite	Tons	4,697	234	7,417	444
Steatite	Tons	46,855	2,419	43,976	1,890
Vermiculite	Tons	927	28	—	—
Other minerals			245		180
<i>Total non-metallic minerals</i>			110,919		118,871
BUILDING MATERIALS.					
Dolomite	Tons	98,857	1,550	140,981	2,014
Limestone	'000 Tons	8,253	23,634	9,420	39,712
Others			10,193		11,435
<i>Total building materials</i>			45,377		53,182
Grand Total			1,087,484		1,272,613

N.B.—(a) Value is based on the pit's mouth value in the case of all minerals.

(b) Value of metals given in the absence of the value of the ore.

(c) Estimated.

(d) Figures of 1956 relate to cut emeralds while 1957 figures are mainly those of uncut but washed and cleaned emeralds.

* PRODUCTION DURING 1956

Mineral	Unit of Quantity	Production
Coal	Million Tons	45.20
Copper ore	'000 Tons	400
Gold	'000 Ozs.	166
Ilmenite	'000 Tons	328
Iron ore	'000 Tons	5,800
Lead (Concentrates)	Tons	4,212
Manganese ore	'000 Tons	1,800
Zinc (Concentrates)	Tons	5,800

* Estimated on the basis of half-yearly data so far obtained.

SECOND PLAN TARGETS

Bauxite	.. ..	175,000 tons.
Coal	.. ..	60.00 million tons.
Gypsum	.. ..	1,970,000 tons.
Iron ore	.. ..	12.50 million tons.
Limestone	.. ..	23.30 million tons.
Manganese ore	.. ..	2.00 million tons.

FOREIGN EXCHANGE EARNED BY EXPORT DURING 1957

Country	Value (Rs. Million)
France	51
Germany (West)	25
Italy	24
Japan	122
Pakistan	28
United Kingdom	62
U. S. A.	191
Other countries	138
Total	641

EXPORT OF MINERALS FROM INDIA

Mineral	Unit of Quantity	1956		1957	
		Quantity	Value (Rs. '000)	Quantity	Value (Rs. '000)
Abrasives (sized grain powder of all materials)	Lbs.	•	•	30,659	12
Aluminium Ore	Tons	4,405	333	8,490	520
Asbestos (raw)	Cwts.	2,316	302	1,420	361
Barytes (not calcined)	Tons	6,702	727	13,849	1,654
Barytes (calcined)	Tons	•	•	46	11
Bentonite	Cwts.	•	•	200	2
Bort	—	•	•	N.A.	4
Chromite	Tons	41,618	4,362	41,164	5,002
Chalk (Crude)	Cwts.	10,283‡	105‡	2,823	17
Clays :					
Ball Clay	Cwts.	•	•	900	3
Earth Clay	Cwts.	•	•	579	3
Fire Clay	Cwts.	•	•	7,961	49
China Clay	Cwts.	•	•	4,851	34
Coal	'000 Tons	1,804	51,398	1,599	49,678
Coke	Tons	23,420	1,351	71,637	3,753
Emeralds	—	•	•	N.A.	69
Feldspar (Crude)	Tons	•	•	500	58
Feldspar (Natural)	—	•	•	N.A.	19
Fuller's earth	Cwts.	•	•	175	2
Gravel (including crushed stone)	Tons	•	•	14,609	425
Gypsum	Tons	•	•	1,510	83
Ilmenite	Tons	283,201	18,821	347,212	24,861
Iron Ore	'000 Tons	1,982	102,000	2,216	117,904
Kyanite	Tons	26,564	7,685	24,456	7,525
Lime	Cwts.	•	•	466	4
Limestone (excluding building limestone)	Tons	—	—	93,147	706
Manganese ore	'000 Tons	1,458	231,100	1,625	309,031
Ferruginous Manganese Ore	Tons	52,458	3,229	81,333	6,721
Manganese peroxide ore	Tons	•	•	8,569	3,538
Magnetite (calcined)	Cwts.	•	•	300,851	2,807
Magnetite (not calcined)	Cwts.	690,920	5,921	127,907	842
Mica (splittings)	Cwts.	130,920	37,229	148,255	46,976
Mica (blocks)	Cwts.	51,162	48,977	39,390	38,554
Mica (others)	Cwts.	242,868	1,323	252,837	3,106
Marble	Tons	•	•	127	74
Ochre (yellow)	Cwts.	•	•	1,229	10
Precious stones	—	N.A.	3,793 §	N.A.	1,161
Quartz (including sands of all sorts)	Tons	•	•	647	28
Salt	Tons	256,796	3,703	375,382	6,205
Salt-petre	Cwts.	3,003	230	1,262	94
Sillimanite	Tons	5,251	1,589	5,624	1,512
Steatite	Tons	7,672	1,376	7,021	1,340
Stone	Tons	1,646 †	867 †	17,255	477
Titanium mineral (other than ilmenite)	Tons	•	•	300	21
Zinc (concentrates)	Cwts.	•	•	127,668	3,000
Others	—	—	233	—	4,251
Total Value			526,644		641,396

* Separately specified in the "Monthly Statistics of Foreign Trade of India" from January, 1957.

† Includes marble. Figures of marble in 1957 are given separately.

‡ Includes lime.

§ Includes pearls and synthetic stones.

IMPORT OF MINERALS INTO INDIA

Mineral	Unit of Quantity	1956		1957	
		Quantity	Value (Rs. '000)	Quantity	Value (Rs. '000)
Abrasives (sized grain powder of all materials)	'000 Lbs.	•	•	5,149	3,000
Antimony ore	Tons	•	•	347	432
Apatite (rock phosphate)	Tons	45,874	5,004	115,895	15,494
Asbestos (raw)	Cwts	307,826	19,011	320,633	20,898
Asphalt	Tons	128,403	28,860	6,835 ‡	1,771
Barytes (calcined)	Cwts	} 527	13	{ 498	11
Barytes (not calcined)	Cwts				865
Bentonite	Cwts				17
Borax	Cwts	86,587	2,526	1,574	34
Chalk (crude)	Cwts	•	•	74,692	2,433
				56,534	460
Clays					
Ball clay	Cwts	•	•	53,517	518
China clay	Cwts	141,278	1,416	85,676	1,304
Fire clay	Cwts	•	•	5,010	156
Earth clay	Cwts	•	•	11,373	154
Coal	Tons	405	14	507	275
Coke	Tons	1,082	659	123	142
Briquettes (of coke, coal and lignite)	Tons	•	•	143	180
Copper ore	Tons	•	•	1	•
Cryolite	Tons	•	•	590	794
Diamonds (industrial crude)	—	•	•	N A	259
Emeralds	—	•	•	N A	167
Feldspar (natural)	—	•	•	N A	9
Fuller's Earth	Cwts	•	•	10,311	310
Fluorspar	Tons	•	•	7,496	2,594
Gravel (including crushed stone)	Tons	•	•	13	5
Graphite	Cwts	16,546	643	21,763	624
Gypsum	Tons	N A	265	27,954	379
Iron ore	Tons	544	126	1,454	346
Lead ore	Tons	•	•	102	314
Lime	Cwts	•	•	3,055	59
Limestone	Tons	•	•	1,267	30
Marble (unworked)	Tons	•	•	5,292	706
Marble (worked)	Tons	•	•	244	126
Manganese ore	Tons	•	•	1,400	814
Manganese peroxide ore	Tons	•	•	162	96
Magnesite (calcined)	Cwts	•	•	4,040	81
Magnesite (not calcined)	Cwts	•	•	23,544	657
Mica (Block)	Cwts	12	55	52	109
Mica (Splittings)	Cwts	115	45	707	110
Mica (Others)	Cwts	•	•	1,210	80
Precious and semi-precious stones	—	N A	11,624 †	N A	1,440
Pumice stone	—	•	•	N A	10
Rutile	Tons	•	•	155	161
Sand including quartz	Tons	•	•	124	85
Salt	Tons	7	1	87	73
Steatite, block and powder	Cwts	•	•	2,292	70
Stone	Tons	2,967 †	1,096 †	102	62
Sulphur	Tons	41,677	21,747	106,281	30,282
Tin ore and concentrates	Cwts	•	•	4	3
Tripoli Earths	'000 Lbs.	•	•	179	45
Others	—	•	4,222	•	1,165
Total Value			97,321		89,440

* Separately specified from January, 1957 in the "Monthly Statistics of Foreign Trade of India". Figures for 1956 are not available.

† Includes marble. In 1957 the figures of marble have been given separately

‡ Pertains to natural asphalt

§ Includes pearls and synthetic stones.

IMPORT* OF METALS INTO INDIA

Metals	Unit of Quantity	1956		1957	
		Quantity	Value Rs. '000	Quantity	Value Rs. '000
FERROUS METALS					
Ferro-alloys	Tons	771	1,233	1,094	1,567
Pig and Sponge Iron	Tons	48,549	17,067	113,008	51,296
Iron and Steel materials	Tons	1,617,155	1,229,401	1,677,520	1,422,974
Total value of Ferrous metals			1,247,701		1,475,837
NON-FERROUS METALS					
Aluminium	Cwts.	280,208	49,684	464,123	82,828
Antimony	Lbs.	†	†	47,513	89
Brass and Bronze	Cwts.	77,207	16,255	130,337	23,001
Copper	Cwts.	625,506	151,592	957,121	170,333
Gold	Fine Ozs.	6,661	1,770	—	—
German Silver	Cwts.	24,189	4,637	457	237
Lead	Cwts.	326,360	27,387	290,600	22,058
Nickel	Cwts.	6,323	2,056	19,854	7,717
Platinum	Fine Ozs.	†	†	2,450	1,123
Silver	Fine Ozs.	13,867	41	2,435	21
Tin	Cwts.	83,646	39,896	127,107	48,988
Zinc	Cwts.	755,948	56,673	1,068,055	72,425
Miscellaneous Non-Ferrous Metals		—	7,438	—	6,252
Total value of non-ferrous metals			357,429		436,172
TOTAL VALUE			1,605,130		1,911,009

* Includes scrap, alloys etc.

† Separately specified in "Monthly Statistics of Foreign Trade of India" from January, 1957. Figures for 1956 are not available.

FOREIGN EXCHANGE SPENT FOR IMPORTS
OF MINERALS AND METALS DURING 1957

Country	Value (Rs. million).
Belgium	108
Canada	57
France	92
Germany West	223
Italy	112
Japan	320
Poland	38
United Kingdom	269
U. S. A.	231
U. S. S. R.	217
Other countries	343
Total.. .. .	2,000

GOVERNMENT INDUSTRIAL UNDERTAKINGS

IN the following pages we give short notes on Government industrial undertakings.

The following are under the Ministry of Commerce and Industry: Hindustan Insecticides, Hindustan Machine Tools Ltd., Nahan Foundry Ltd., National Instruments Factory, Hindustan Antibiotics, Sindri Fertilizers and Chemicals Ltd., Hindustan Cables Ltd.

The following factories are under the Ministry of Defence: Hindustan Aircraft Ltd., Bharat Electronics Ltd.

The following factory is under the Ministry of Communications: Indian Telephone Industries.

The following factories are under the Ministry of Atomic Energy: Indian Rare Earths Ltd., Thorium Plant.

The following factories are under the Ministry of Railways: Chittaranjan Locomotive Works, Integral Coach Factory.

The following factory is under the Ministry of Steel, Mines and Fuel: Hindustan Steel Ltd.

The following factory is under the Ministry of Finance (Dept. of Economic Affairs), Govt. of India: India Government Silver Refinery Project.

The following is under the Ministry of Transport:

Hindustan Shipyard (Private) Ltd.

ATOMIC REACTORS

(Trombay, Bombay 38)

APSARA, India's first atomic reactor, went into operation on August 4, 1956 at the Atomic Energy Establishment Trombay. It is designed to operate at a maximum power level of 1,000 kW and provides a strong source of neutrons.

The reactor is of the pool type with the core suspended from a movable trolley in a large pool (10 feet wide, 25 feet long and 25 feet deep) of filtered and demineralised water. The core consists of about 30 fuel elements made of an alloy of enriched uranium and aluminium and can be placed in three different positions. The water is for cooling the reactor, shielding personnel from radiation and slowing neutrons to the desired energy range. A number of channels through the 4½ foot thick concrete shielding walls of the pool, provide neutron beams for experiments in neutron physics. A thermal column filled with graphite of nuclear purity, is provided at one end of the pool again for neutron physics experiments. At the other end of the pool there is a shielding corner where the 4½ foot thick concrete wall is replaced by a thin aluminium panel thus allowing material to be placed close to the core so that the effects of radiation on different materials can be studied.

FERINA, a zero energy reactor for lattice investigations and new assemblies is being built to carry out studies relating to new fuel configurations. The component parts have been largely fabricated and will be assembled as soon as the building to house the reactor is ready in May 1957. This 100 W reactor will be very useful in the study and design of future power reactors.

The CANADA-INDIA REACTOR, India's largest research reactor, is under construction at Trombay and is a joint Ind.-Canadian project under the Colombo Plan. It goes into operation early in 1960. This reactor will be fuelled with natural uranium moderated with heavy water and cooled with demineralised water. It will have a maximum heat output of 40,000 Kilowatts.

The reactor is housed in a large steel pressure vessel 120 ft in diameter and 135 ft in height served with a 30-ton revolving crane. This steel shell is made from 4" thick steel and is designed to stand a pressure of 15 psi so that in case there is an accident it will completely contain any escape of radioactivity into the outside

atmosphere. Auxiliary equipment for the reactor, the control room etc. are housed in an annular building surrounding the shell. The core of the reactor is an aluminium tank pierced by some two hundred tubes for fuel elements. A few enlarged holes have been provided in the core to accommodate engineering test loops. Twenty-five experimental holes have been built in through the sides for various experiments.

These reactors will be used for research and training in agriculture, biology, chemistry, engineering, medicine, metallurgy, physics and for gaining experience leading to new reactor designs.

BHARAT ELECTRONICS (PRIVATE) LTD.

(Jalahalli P.O., Bangalore)

The establishment of a factory to produce electronic equipment was envisaged in April 1948 in the Industrial Policy Resolution of the Government of India. In pursuance of this policy leading radio manufacturers throughout the world were invited to prepare project reports for the establishment of a factory in India and after these reports had been examined by Indian experts, the French firm Compagnie Generale de Telegraphie Sans Fil of Paris was selected as technical advisers to the Government of India.

Bharat Electronics was registered as a private limited company in April 1954 with its headquarters at Jalahalli, Bangalore. The authorised capital of the company is Rs. 10 crores of which Rs. 5 crores have been subscribed. The entire capital is held by the Government of India.

The capital expenditure upto March 1956 was Rs. 243.48 lakhs.

The factory began production in the latter half of December 1955. The production programme included manufacture of 400 Watt HF Transmitter, HF Communication Receiver, VHF and HF Transceiver, Radio Transmitter, Broadcast Studio Consoles for All India Radio and crystals for HF and VHF equipment. These were required for Civil Aviation Department, P & T, Railways, Police, Meteorology, broadcasting and fire service organisations.

Production of the following equipment is envisaged in the future production programme: Airborne Twin Channel Transceiver, Multiplex equipment, Radars, valves etc.

Its programme takes into account the existing capacity for the manufacture of radio components of the requisite standard available in the country so as to utilize it to the maximum advantage.

The factory has so far produced general purpose high frequency receivers and medium power high frequency transmitters to meet the requirements of the Directorate General of Civil Aviation. In the course of 1956 it manufactured tools and jigs worth nearly Rs. 10 lakhs. It is also proposed to encourage the domestic radio industry.

In the manufacture of equipment maximum mechanisation is aimed at and in planning the order for machinery from abroad, every effort was made to see that the factory becomes as up-to-date as possible. This has been achieved by calling for tenders on a global basis for machinery which having been obtained from Switzerland, France, Germany and Britain, is among the best that could be made available by the suppliers.

The present strength of the employees is approximately 1,200. When the factory is in full production, it will employ about 5,000 persons and will produce electronic equipment worth Rs. 5 crores annually.

The actual production was valued at Rs. 1.47 lakhs in 1955-56, Rs. 20.42 lakhs in 1956-57 and Rs. 48.33 lakhs in 1957-58.

In 1956-57 the company suffered a loss of Rs. 2.18 lakhs.

The company is run by a Board of nine Directors.

Chairman, Board of Directors, O. Pulla Reddy, I.C.S. (Defence Secretary, Government of India).

Board of Management: H. V. Balla (Managing Director), J. P. Kachur (Controller of Finance), C. B. Cariapa (Deputy General Manager), T. T. Joseph (Commercial Manager).

CHITTARANJAN LOCOMOTIVE WORKS

(Chittaranjan, Burdwan Dt., West Bengal)

Branch Office: Hindustan Buildings, 4, Chittaranjan Avenue, Calcutta 13.

The works are under the Ministry of Railways.

Construction started on April 1, 1948 and was completed on September 30, 1952.

Production started on January 26, 1950. The first locomotive rolled out on November 1, 1950.

The total estimated cost is Rs. 14.93 crores.

The total number of workers (under Factory Act), 4,702, apprentices 410, total, 5,112 (corrected up to August 1955).

A monthly out turn of 14 W.G. locomotives has been reached since August 1956.

The revised target for the works is 200 locomotives per year.

Up to March 31, 1958, 681 locomotives had been put into service.

The out turn for the financial year 1957-58 was 164 locomotives.

It is expected that by 1961, the end of the Second Plan, it would be possible to manufacture the first all Indian locomotive. At the end of October 1958, the cost of the imported components was brought down to Rs. 1.23 lakhs per locomotive or about 27 per cent of the total cost. The items imported consisted mainly of bar frames, boiler plates, tyres and axles.

About 5,300 components go to make a complete locomotive. Only a small number is now imported and for a few of these capacity is now being developed at Chittaranjan itself. For some other parts capacity is being developed in the private sector in the country. There are a few components covered by patents which all locomotive manufacturers have to buy.

The production schedule has been as follows:

Year	No of locomotives
1951	18
1952	30
1953	54
1954	86
1955	123
1956	150
1957	164
1958 (up to August)	108

The cost of the Chittaranjan locomotive has come down progressively from Rs. 7 lakhs per engine to about Rs. 4.5 lakhs which is cheaper than the landed cost of an imported locomotive of similar type. With the progress of manufacture, the cost might come down still further.

The Chittaranjan Locomotive Works was the first State-owned undertaking in India to introduce as far back as December 1954, the modern worker incentive system of payment by results, based on time as the yardstick for measuring work and productivity.

Starting with only 275 employees under this scheme on January 1, 1955, the scheme has been extended by stages until it covered 3,206 workers on the same date in 1958.

The various stages by which the scheme was introduced and the number of staff brought

under the scheme at different stages are indicated below. The number of staff under the incentive scheme is given against the date when the scheme was introduced.

January 1, 1955 : 273; July 1, 1955 : 1,132;
January 1, 1956 : 2,642; July 1, 1956 : 3,000;
January 1, 1957 : 3,071; July 1, 1957 : 3,001;
January 1, 1958 : 3,206.

There has been a triple gain as a result of this scheme. The staff under the scheme are earning 25 to 30 per cent of their salary, on an average, as piece-work profits. More locomotives and boilers are being produced. The output in January 1955 was 10 W.G. locomotives and eight W.G. boilers. The production has been gradually stepped up to 14 W.G. locomotives and 14 boilers per month.

General Manager, K. Ramachandran.

HEAVY ELECTRICALS (PRIVATE) LTD. (Ministry of Commerce and Industry)

A factory for the manufacture of heavy electrical equipment in the country is being set up near Bhopal in Madhya Pradesh by the Government of India with the technical collaboration of Messrs. Associated Electrical Industries Ltd., of U.K.

A Private Limited Company, known as Heavy Electricals (Private) Limited, with an authorized capital of Rs. 30 crores was incorporated on 29th August 1956 to control and manage this project.

The project has been divided into three phases.

The factory is scheduled to start production in the latter part of 1960 on switchgears, transformers, control gears and capacitors, and is expected to attain full production, as envisaged in the first phase, by 1965. Production of traction motors, industrial motors and heavy rotating plant is scheduled to commence in phase II from July 1963 and full production of these items will be attained in January 1967. The third phase envisages the production of water wheel turbines and rectifiers in July 1966 achieving the full production rate by July 1970.

Two agreements (i) with a Syndicate of London Banks for long term credit and (ii) with Messrs. Associated Electrical Industries Ltd., London as our Purchasing Agents for Machine Tools and Equipment in London, have been executed to implement the rephased programme.

To man the factory with trained technical personnel, a comprehensive training scheme has been drawn up and the training was expected to commence in the latter part of December 1958, in H.E.P.I. Training School, Bhopal. Engineers, draughtsmen and artisans will be given training in different trades. The programme of training was expected to begin in December 1958 when the first batch of 900 trainees were expected to be admitted to the school.

The total estimated cost of the project is Rs. 61.00 crores. A provision of Rs. 20.02 crores has been made in 2nd Five Year Plan. Capital outlay on the 1st Phase will be Rs. 28.73 crores. Annual output of the factory expected on full production in the 1st Phase is Rs. 6.20 crores.

The factory will employ about a thousand men on reaching full development after the completion of 3 phases and about eighteen thousand men on doubling up production.

Already considerable work has been carried out at the factory site.

HEAVY MACHINERY PLANT (Ministry of Commerce and Industry)

Government have established a new company called the Hindustan Heavy Engineering Corporation (Private) Ltd. with an authorized capital of Rs. 80 crores.

This would include the Heavy Machine Building Plant, the Foundry Forge Plant and the Coal Mining Machinery Plant.

The registered office is at Ranchi.

After obtaining expert technical advice from friendly countries the Government of India have decided to set up (1) a heavy machine building plant, (2) a heavy foundry and forge plant, (3) a mining equipment plant, (4) a heavy machine tool factory, (5) a heavy structural works and (6) a heavy plate and vessel works.

The proposed heavy machine building plant, expected to be located at Hatia near Ranchi in Bihar, will have an initial capacity of 45,000 tons of machinery per year which can be raised later to 80,000 tons. With that capacity the factory would be in a position to turn out every year two steel plants which can produce one million tons of steel each, per year. The principal items to be manufactured in the initial stages will be blast furnaces, steel melting furnaces, coke ovens and by-product plants, rolling mills, cranes, etc. The estimated cost of the plant during the first stage will be about Rs. 20 crores. A contract has been entered into with Messrs. Technoexport of Moscow for the preparation of a detailed project report which was expected to be ready by the middle of 1959.

Following an understanding reached between the Government of India and Messrs. Technoexport of Czechoslovakia in January 1958 for the supply of machinery and equipment required for the foundry project on deferred payment terms, a contract was signed in August 1958 between them. The contract has provided for the payment of Rs. 10 crores by the Government of India to Technoexport in equal annual instalments, the last two of each will fall due in 1967. No payment involving foreign exchange will be due before April 1961. Under the contract Technoexport have undertaken to prepare a detailed project report and supply machinery and equipment required for the first stage of the plant. They will also supervise the erection of the machinery and equipment and provide consulting and technical services.

During the first stage of the project which is designed to meet the requirements of the heavy machine building plant, the annual production capacity of the factory will provide for 25,000 tons of grey iron casting of a maximum weight of 50 tons per piece, 14,000 tons of steel castings also of a maximum weight of 50 tons per piece, 300 tons of non-ferrous castings, maximum piece weight of 1,10th of a ton and 13,950 tons of forgings with a maximum weight of 17 tons per piece.

The plant will also be located at Hatia, near Ranchi close to the Heavy Machine Building Plant. It is expected to start production by the middle of 1962. The cost is likely to be Rs. 20 crores.

The mining machinery plant is being established at Durgapur in collaboration with the Russians. It will have an annual output of 30,000 tons per year of mining machines and equipment and will cost about Rs. 15 crores. The principal items proposed to be manufactured are coal cutters, coal loaders, conveyors locomotives, mine pumps and fans, etc. The detailed project report was expected to be received in the middle of 1959.

The foreign exchange component of the expenditure on setting up the heavy machine building plant and the mining equipment plant will be met from the 500 million roubles credit made available by the Soviet Government.

The heavy machine tool factory, which will manufacture the machine tools required by the heavy machine building plant and other heavy engineering works, will be able to make 3,500 to 4,500 tons of machine tools per year on a single shift basis. Its cost is estimated at Rs. 5 crores.

Negotiations for establishing the heavy machine tool factory, the heavy plate and vessel works and the heavy structural shop were going on (October 1958). The heavy structural shop will turn out 10,000 to 12,000 tons of structural while the plate and vessel works will produce 10,000 to 12,000 tons of plates and vessels required by heavy chemical industries.

Mr. Director, S. Sarangapani.

HINDUSTAN AIRCRAFT (PRIVATE) LTD. (Hindustan Aircraft P.O., Bangalore District, Mysore)

Tel. & Cable address : Aircraft, Bangalore.

The company is managed by a Board of Directors under the Ministry of Defence through a Board of Management.

Founded in 1940, the Hindustan Aircraft, Ltd., is the largest aircraft manufacturing, repairing and overhauling organisation in the East. It has succeeded in establishing a sound aeronautical industry in the country.

Aircraft Activities : In addition to the overhaul and converting of various types of war surplus aircraft, like the DC-3, the Liberator and their engines, H.A.L. have successfully manufactured the Percival Prentice Trainer and the De-Havilland Vampire Aircraft under licence, for the Air Force. H.A.L. have designed, developed and produced in quantity an elementary piston engine trainer designated as HT-2 for the I.A.F. and civil use.

An HT-2, accompanied by a flying instructor and an engineer, was sent to Singapore for a year to give training under the Colombo Plan. It was for the first time that India gave aeronautical engineering assistance to a foreign country.

In 1958 HAL built a new ultra-light two-seater aircraft 'Pushpak', which can rightly be claimed as the people's plane because it is not likely to cost more than Rs. 20,000. Whereas it can be employed with advantage by the Armed Forces for communication duties, artillery observation and liaison flights, the Flying Clubs can use it for the initial training of pilots and the State Governments for flying-squad duties, aerial reconnaissance and flood-relief work.

An aero-engine was also produced for the first time in India. About 95 per cent of this was manufactured indigenously. It was planned to fit the Pushpak.

The Aircraft Division has planned to produce High Speed Supersonic Jet Fighters and Jet Trainer Aircraft while the newly formed Engine Division will produce Jet Engines for installation in these Aircraft.

In 1957 the Government concluded an agreement with the Bristol Aeroplane Company, under which India obtained a licence to make the full range of Bristol-Orpheus turbo-jet engines. Licence negotiations have also been completed with the Folland Aircraft Company for the manufacture by HAL of Britain's latest jet fighter, the Gnat. A few H.A.L. engineers were deputed to England to familiarize themselves with the production aspect of the Gnat and the Orpheus. Specialists from these factories have also come to assist the H.A.L. in developing the industry and training Indian personnel. Quantity production was expected to commence shortly.

The De Havilland Enterprises have appointed HAL as their repair and service agents in India. The factory has also been approved by the Civil Aeronautical Administration of the U.S.A. for the repair and overhaul of Dakota aircraft and engines.

HAL-built Vampire jet fighters today form part of the fleet of the Air Force. The factory is also building jet trainers, thus helping the Service in its transformation into an "all-jet" fighting force.

In 1958 Dec. HAL designed and fabricated a supersonic jet fighter airframe which was awaiting trial.

Pressure of work compelled HAL to open a branch at Barrackpore (near Calcutta) in 1952 to meet the mounting demands of overhauling.

Other activities : HAL has, since 1947, been supplying all-metal third-class broad-gauge railway coaches of their own design to the Railway Board and the production rate is about 200 coaches a year. About 1,400 coaches, with several new amenities, like night-lights, electric

fans, sleeping accommodation and wash-basins, had been delivered to the Indian Railways till October 1958 and proved very popular with the travelling public. These coaches now run on all the divisions of the Indian Railways and are also being used on the popular Janata services. One of the projects undertaken under the second Five-Year Plan is the manufacture of lightweight integral coaches in collaboration with MAN, a leading German firm, the target being 300 coaches a year. HAL has also been manufacturing bus bodies and bus-body kits of its own design for several transport authorities in the country.

H.A.L. has a modern Cast Iron and Light Alloy Foundry, which not only caters for its own needs but supplies castings to Messrs. Hindustan Machine Tools, which is another Government Undertaking, manufacturing high precision lathes, milling and drilling machines. H.A.L. has set up a forge shop to cater for the aluminium alloy forgings required by its Aircraft Division.

Board of Directors:

Chairman, O. Pulla Reddy, I.C.S., Secretary, Ministry of Defence.

Directors, J. R. D. Tata; Air Marshal S. Mukerjee (Chief of Air Staff, Indian Air Force); S. Jayasankar (Financial Adviser, Ministry of Finance (Defence), Government of India); K. Narayanaswamy, I.A.S. (Director of Industries and Commerce (Mysore)); Air Vice-Marshal A. M. Engineer (General Manager and Managing Director).

Board of Management:

Chairman, Air Vice-Marshal A. M. Engineer (General Manager and Managing Director).

Members, Bahadur Murao (Finance Manager); Dr. V. M. Ghatage (Aircraft), A. Zampolno (Factory Manager), Dr. K. W. Tank (Director of Engineering), S. L. Sakre, B.E. (Deputy General Manager (Aircraft)), P. M. Reddy (Deputy General Manager (Engines)); *Asst. Production Engineer*, R. L. Kapoor; *Overhaul Manager*, Wing Commander V. N. Bhargava.

HINDUSTAN ANTIBIOTICS (PRIVATE) LIMITED

(Pimpri, Poona District)

The Government of India Penicillin Plant now known as Hindustan Antibiotics (Private) Ltd. is located at Pimpri, nine miles from Poona. It is a private limited company of the Government of India with all the shares held by the President of India and his nominees. It is being managed by a Board of Directors with Mr S. T. Raja as the Managing Director.

Starting in March 1952, the factory is now complete. It went into full production in August 1955. On 12th September 1955 the first batch of Indian penicillin manufactured at the Pimpri Plant and bottled at its Bottling Plant in Bombay was put on sale. On 11th December 1955, Rajkumari Amrit Kaur, then Union Minister for Health formally inaugurated the first bulk sales when 148,000 mega units of Pimpri manufactured penicillin were sold to leading pharmaceutical houses in India.

The factory is located on a 200-acre site in Pimpri, about nine miles from Poona on the Poona-Bombay Road. It was constructed on the basis of a tripartite agreement between the Government of India, the World Health Organisation (since transferred to United Nations Technical Assistance Administration) and the United Nations Children's Emergency Fund.

The Indian Government provided the land, the buildings, equipment procurable locally, the electric sub-station, water supply system, sewage disposal unit and quarters, at an estimated overall cost of Rs. 1.5 crores.

The UNICEF supplied equipment to the value of \$850,000. The WHO provided technical 'know-how' and training facilities abroad to Indian scientists involving an expenditure \$850,000.

The designed capacity of the plant is 9 million mega (9,000 billion) units per year; but the plant now produces at the rate of 22 million mega units per year as a result of the improvements in penicillin technology. A Pilot Plant, a workshop and all essential services have been arranged for. Large-scale bottling operations at Pimpri commenced in March 1956. In addition, the former Indian Penicillin Committee's Bottling Plant at Bombay was taken over and continued to bottle Pimpri made penicillin. This plant was shifted to Pimpri (1956) and is bottling penicillin, streptomycin and dihydrostreptomycin. The present rated capacity of the plant is 25 million mega units per year and after completion of its expansion programme it was expected to produce about 40 million mega units per year from April 1959.

In terms of finished product for clinical use the production was 17.9 million mega units in 1957 as compared with 5.2 million in 1956. The total production of penicillin, certified and passed during 1957-58 was 21.45 million mega units as against 9.9 million mega units in 1956-57 and .62 million mega units in 1955-56.

Production in 1958-59 was 34 mln. mega units.

The profit during 1956-57 was about Rs. 57,000 while that during 1957-58 (April-March) was Rs. 33 lakhs. The total gross sales during the whole of 1957-58 amounted to over Rs. 1.8 crores as against Rs. 57.8 lakhs during 1956-57.

The factory employs 786 workers including the staff at the bottling plant in Bombay, since shifted to Pimpri.

Equipped with the latest scientific equipment, a model Research Laboratory built at an approximate cost of Rs. 15 lakhs has been put alongside the factory. There are plans to develop this Research Laboratory into a sizable Research Centre on antibiotics offering large-scale research opportunities to Indians and qualified scientific men from all over the world. A quality control unit has been set up to ensure quality of the best Indian Penicillin product.

A production bonus was given at the end of 1958 as a result of satisfactory working.

Mg. Director, S. T. Raja, B.A., LL.B., Barrister-at-Law.

HINDUSTAN CABLES (PRIVATE) LIMITED

(P. O. Hindustan Cables,

Rupnarainpur, Bardwan Dt., West Bengal)

With a view to manufacturing telephone cables in this country, the Government of India have set up the Hindustan Cables Factory at a capital cost of Rs. 125 lakhs, under the technical assistance of Messrs. Standard Telephone & Cables Ltd., London. The Company is entirely owned and financed by the Government of India and is under the over-all control of the Ministry of Commerce and Industry.

The factory started regular production on Sept. 1, 1954. The present capacity of machineries installed is sufficient to turn out nearly 500 miles of telephone cables of different sizes every year which is nearly a crore of rupees in value.

The proposal to double the capacity of the factory is already in hand and when this expansion is completed, it will be possible to manufacture about 800/1,000 miles of cables annually when the country's total requirement for telephone cables would be met.

Keeping pace with the demand of the Indian Posts & Telegraphs Department embodied in the Second Five-Year Plan, the expansion of the factory for manufacture of co-axial cables is already in progress and it is expected to be completed before the expiry of the Second Five Year Plan period, and when commissioned, the factory is expected to yield about 300 miles of co-axial cables per year.

Chairman, Board of Directors, N. Subramanyam, I.C.S.

Directors, M. P. Birla; D. C. Driver; G. D. Ambekar; V. Nihantan; C. A. Corpehus; B. R. Nijhawan; B. D. Kalelkar; V. N. Rajan, I.C.S.; B. R. Murgai; K. N. R. Pillai (*Managing Director*).

HINDUSTAN HOUSING FACTORY (PRIVATE) LIMITED

(Jangpura, New Delhi)

The Hindustan Housing Factory Private Ltd. was taken over completely by the Government of India with effect from 16th August 1958.

The present Directors of the Company are:—

Chairman, K. S. Krishnaswami; *Directors*, A. P. V. Krishnan; O. V. Ramadora; J. M. Rijhwani.

General Manager, R. P. Mhatre, C.E.S.I.

Since taking over the factory fully under the control of the Government, it has made a net profit of approximately Rs. 45,000 for the period ending 31st July 1957. This profit has been made after meeting all the liabilities including depreciation on the plant, machinery and building, leased to the factory by the Government and interest on working capital, etc.

The recommendations of the Experts Committee, which was appointed to look into the feasibility of running this factory have been accepted by the Government and the factory is being run in the light of these recommendations. Under the new set-up the authorised share capital of the company is Rs. 75.00 lakhs and paid-up capital Rs. 40.00 lakhs.

For the period 1-8-1957 to 31-7-1958, the factory achieved a production of Rs. 39.5 lakhs and may make a small net profit of about Rs. 40,000. During the period 1-8-1956 to 31-7-1957, the factory made a net profit of Rs. 38,971.57. During this period the factory faced the difficulty of getting regular supplies of high tensile wire, due to restrictions on foreign exchange. The Woodwork Department of the factory could not step up its production due to the unsatisfactory position of the supply of timber. In spite of these handicaps, the factory has been able to achieve a production of Rs. 39.5 lakhs approximately.

For the year 1-8-1958 to 31-7-1959, the target of production in accordance with the budget for 1958-59 was Rs. 57.00 lakhs, as the position of supply of raw materials had improved. The factory was expecting to get during 1958 a sample order for manufacture of precast concrete railway sleepers from the Northern Railways.

During the current year commencing from August 1, 1958, production was expected to touch the figure of about Rs. 57 lakhs.

The Hindustan Housing factory at present (Nov. 1958) manufactures the following products: (i) Prestressed Concrete Departments: Transmission poles, street light poles, industrial heavy beams, precast roofs with prestressed concrete joists and precast R.C.C. slabs, fencing poles, vibrated cement concrete pipes and pavement flags; (ii) Wood work Department: Door, windows and utility furniture and (iii) Foam Concrete Department: Foam concrete or light weight concrete insulation blocks for cold storage plants and air-conditioned buildings and partition blocks for use in buildings.

The factory also contemplates taking in hand the manufacture of prestressed concrete and precast concrete railway sleepers, when it is decided by the Railway Board to use concrete sleepers for their railways.

For improving the production in the Woodwork Department, arrangement for purchase of seasoning-cum-preservation plant of timber had been made and it was expected that this plant would start working in March, 1959.

HINDUSTAN ELECTRICS (PRIVATE) LIMITED

Udyogmandal, Alwaye (Kerala).
Industrial Area, New Delhi 16.

The factory is managed by Government through a private limited company with a Board of Directors under the Ministry of Commerce and Industry. The Government of India also decided to put the second factory to be constructed at Alwaye, under the management of the same company. The company was

incorporated in March 1954 to manage the affairs of the first Government owned DDT Factory at Delhi.

Delhi Factory

This factory is situated in the industrial suburb of New Delhi and was set up with the assistance of United Nations agencies of UNICEF and W.H.O. (UNTAA). The UNICEF agreed to supply the plant and machinery at a cost of \$250,000 and the W.H.O. (UNTAA) technical assistance to the extent of \$100,000. The Government of India agreed to provide land, buildings, services, auxiliaries and the installation of plant and equipment at an estimated cost of Rs. 35,00,000. It was also agreed to utilise the output of this factory for public health purposes without any cost to the ultimate beneficiary.

The construction of the factory was started in 1953 and continued till the early part of 1955. The factory went into production in March 1955. The capacity of the plant was 700 tons Technical DDT per annum.

Expansion: For doubling up the capacity of the plant an agreement was reached by the Government of India with the UNICEF for an additional gift of equipment worth \$275,000. The designs for the expansion were prepared by the Company's technical staff and the UNTAA expert in Delhi and were approved by UNTAA in New York.

The work on expansion was started in 1956 and was completed in 1958 thus giving the Delhi plant a capacity of producing 1,400 tons of Technical DDT per annum. The factory has since achieved the rated capacity and is producing DDT to its full strength April 1958 marks the beginning of the expansion phase of the Delhi factory.

Production: Since the commencement of operations in March 1955 production has been steadily stepped up. Beginning with 10.6 tons production in April 1955 the factory has now reached the figure of 123.7 tons in August 1958. Production during the previous years was—

1955-56 1956-57 1957-58

Technical DDT 280 tons 518 tons 694 tons
Formulated DDT 401 " " "

The output of the factory till the end of September 1958 was 2,095.29 tons of Technical DDT and 2,311.73 tons of Formulated DDT.*

Distribution: Formulated DDT is distributed according to the indents placed by the Malaria Institute of India. Chipped Technical DDT below 4" mesh is also supplied to the Malaria Institute.

Alwaye Factory

With a view to augmenting the production of DDT and making the country self-sufficient in this vital insecticide the Government of India decided to instal during the Second Five Year Plan period another factory for the manufacture of 1,400 tons of Technical DDT per annum at Alwaye, Kerala State.

Global tenders were invited and after protracted negotiations the firm of Messrs. Singmaster & Breyer Inc., New York, was awarded the contracts for both Technical DDT plant and the Formulated DDT plant on a turnkey basis in the years 1954, 1957 respectively.

Erection of plant and machinery was completed towards the end of 1957. With the completion of the other services like power, steam, water, trial production began in February 1958. The plant is now in regular production.

The Company employs approximately 500 men at both the factories.

Chairman: Dr. A. Nagamja Rao.

Managing Director: S. S. Jagga.

HINDUSTAN MACHINE TOOLS (PRIVATE) LIMITED

(Jalahalli P.O., Bangalore)

This is a private limited company under the Ministry of Commerce and Industry registered in Mysore on February 7, 1953 and located in Jalahalli, Bangalore.

The authorised share capital of the company is Rs. 12 crores.

The original production plans were based on an agreement between the Government of India and Messrs. Oerlikon Machine Tool Works, Buehrle & Co., Zurich, Switzerland, concluded in April 1949 and later revised by a new agreement signed in March 1957. According to the new agreement, the capital and management participation of the Swiss Company was terminated and the shares worth Rs. 20 lakhs originally held by the Company were bought by the Government of India.

The Company produces 18 types of machine tools—H 22 High Speed Lathes of two types, milling machines—vertical, horizontal and universal in two sizes each and radial drills in 1½" to 2" sizes in 10 types. The milling machines are manufactured under a licence agreement with M/s Fritz Werner, the well-known Machine Tool Manufacturers of West Germany, while the radial drills are produced under a similar licence agreement concluded in 1958 with M/s Herman Kolb, also of West Germany.

The addition of the new types of machines will give further flexibility to the production programme of the factory and enable the country to save foreign exchange to the extent of about Rs. 2 crores per year.

The Company employs 2,770 skilled and semi-skilled workers and is expected to employ 3,000 by 1960-61.

Till the end of August 1958, the Company produced 583 lathes and 140 milling machines. The plan targets of production of the Company was 400 machines by the end of the Second Plan period i.e., 1960-61. The Company reached this target three years ahead of schedule by manufacturing 402 diversified machine tools during the financial year 1957-58. The production of 402 Machine Tools valued at over Rs. 1.55 crores by the Hindustan Machine Tools during the year 1957-58 represents two-thirds of India's output of Machine Tools. The year's profits exceeded Rs. three million.

The following table gives details about the ships built at the shipyard:

Name of ship	Date of laying keel	Date of launching	Date of completion and sailing	To whom sold
1. "Jalansha" (8,000 DWT) ..	22- 6-48	14- 3-48	15-10-48	Scindia S. N. Co. Ltd.
2. "Jalaprabha" ..	22- 8-48	20-11-48	31- 3-49	"
3. "Kutabari" (245 DWT) ..	22- 8-48	18-12-48	19- 6-49	"
4. "Jalaprabha" (8,000 DWT) ..	27- 5-48	8- 8-49	14-12-49	"
5. "Jalapankhi" ..	7- 1-49	6-12-49	31- 3-50	"
6. "Jalapadma" ..	28- 1-50	14- 9-50	14- 1-51	"
7. "Jalapanka" ..	28- 1-50	27-12-50	20- 2-51	"
8. "Bharatmitra" ..	28- 9-50	28- 3-51	28- 6-51	Bharat Line Ltd.
9. "Jalapetra" ..	28- 9-50	28- 3-51	28- 6-51	"
10. "Jagran" ..	9- 5-51	15-12-51	4- 6-52	Great " Eastern Shipping Co. Ltd.
11. "Jalapratap" ..	9- 5-51	27- 2-52	31- 7-52	Scindia S. N. Co. Ltd.
12. "Jalapushpa" ..	26-12-51	9- 7-52	30- 9-52	"
13. "Bharatratna" ..	22- 7-52	28- 8-52	21- 6-54	Bharat Line Ltd.
14. "Jalapetra" ..	22- 7-52	9-11-53	12- 8-54	Scindia S. N. Co. Ltd.
15. "Jalavihar" (7,000 DWT) ..	1- 8-53	16- 8-54	14- 6-55	"
16. "Jalavijaya" ..	30- 9-53	28- 9-55	17-12-55	"
17. "Jalavibhava" ..	16-12-53	2-11-55	18- 5-56	"
18. "State of Kutch" ..	2- 9-54	23- 3-56	1-11-56	Eastern Shipping Corporation.
19. "Andamans" (4,000 DWT) ..	11- 8-55	25- 7-56	4-12-57	Govt. of India Home.
20. "State of Orissa" (8,000 DWT)	8-12-55	16- 2-57	31-12-57	Eastern Shipping Corporation.
21. "Jalavikram" (7,000 DWT) ..	16- 4-56	23- 7-57	26- 2-58	Scindia S. N. Co. Ltd.
22. "Jalavarna" ..	4- 8-56	22-11-57	1- 7-58	"

The company is managed by a Board of Directors, as already mentioned, under the Ministry of Transport. **Chairman:** G. L. Mehta; **Managing Director:** Commodore N. B. Loh, I.N. **Members:** R. L. Gupta, I.C.S.; Tulalidas Kilachand; Michael John, M.P.; Shantikumar N. Morarjee; T. M. Goondkas; Dr. Nagendra Singh, I.C.S.; Rear Admiral Daya Shankar, I.N.; Dr. M. V. Krishna Rao; S. S. Shrivastava, I.A. & A.S.; Capt. T. B. Bose, I.N.; Jahangir P. Patel.

* Production in 1958-59: Technical D.D.T. 1,288 tons; Formulated 1,100 tons.

A new line of production has been undertaken from December 23, 1956 for producing cheaper lathes in five sizes. Negotiation is in progress with a French firm, Battignolles.

The sale price of 1,000 mm. lathe has been brought down from Rs. 36,000 to Rs. 29,500 with effect from June 1, 1958 as against the landed cost of Rs. 40,500 for imported machines of equivalent outlay.

Including pending orders for 173 machines brought forward on April 1, 1957 and orders for 438 machines booked during the year 1957-58 there were total orders for 611 machines as against the production of 402 machines.

HMT is the first industry in the public sector in the country where the scheme for labour-participation in management has been introduced on an experimental basis. A Joint Council of Management was established consequent on the signing of the Agreement between the Company and its Employees' Association on September 12, 1958.

The company has substantially expanded its welfare programme for the employees. The number of houses built upto June 1958 for the employees rose to 535 from 319 on April 1, 1957. Two well equipped dispensaries have been maintained by the Company for the benefit of workers and their families. Incentive bonus, enhanced wages and dearness allowance have been given to the employees. The entire wage structure has been rationalised and the minimum wage has been increased by 50 per cent.

Chairman, Board of Directors: Sir Raghavan Pillai.

Managing Director: M. K. Mathulla.

Directors: R. L. Kirloskar; E. W. Issacs; N. N. Wanchoo; K. Narayanaswamy; L. K. Jha; Prof. M. S. Thacker.

HINDUSTAN SHIPYARD (PRIVATE) LIMITED

(Vishakapatnam 5, Andhra Pradesh)

This is located at Vishakapatnam in Andhra Pradesh. It was originally designed by the firm of Sir Alexander Gibb and Partners.

The original design envisaged the provision of eight berths but the shipyard now has four building berths to build ships ranging from 320 to 550 ft in length and from about 5,000 tons to about 15,000 tons deadweight capacity.

A fifth berth suitable for building small craft has also been constructed.

It has a fitting out wharf 1,200 ft long.

There are about 5,000 technicians, workers and staff.

The yard is being managed by Hindustan Shipyard (Private) Limited since the 1st of March 1952 a company in which the Government of India have a controlling interest.

The Board of Directors consists of nine Government nominees including the Chairman and the Managing Director and four nominees of Scindia Steam Navigation Co. Ltd.

The authorised capital of Rs 10 crores is divided into 100,000 ordinary shares. Issued and paid-up capital is Rs 5,06,25,000 in which the Government's contribution is Rs 4,02,00,000.

Technical assistance was provided by Societe Anonyme des Ateliers et Chantiers de la Loire, Paris a French firm of ship-builders under an agreement entered into with them.

This expired on 15th July 1954.

So far (Jan. 1959) 12 steam ships of 4,000 DWT each an unbathed passenger vessel of 45 DWT five diesel ships of 7,000 DWT each two diesel ships of 8,000 DWT each and one passenger-cum cargo vessel of 4,000 DWT for the Andaman trade have been built apart from a launch and a tug.

Orders to build fourteen more ships are under execution. This number includes two naval craft for the Indian Navy.

A provision of Rs. one crore has been made for further development of the shipyard in the Second Plan.

The amount of foreign exchange spent on ships built upto November 1954 during the Second Plan period and the further amount expected to be incurred on more ships planned to be built during the rest of the Plan period were Rs. 355 lakhs and Rs. 564 lakhs respectively.

HINDUSTAN STEEL LIMITED

Board of Directors: G. Panik (Chairman), N. Padmanabha Ayyar, K. C. Mahalingam, S. K. Khanna, C. Deb, Michael John K. Sen, M. Ganapathi N. C. Shrivastava, A. Nagaraja Rao.

Hindustan Steel (Private) Limited was incorporated on 19th January, 1954 as a private limited company with an authorised capital of Rs 100 crores with the object of establishing a steel plant at Rourkela in Orissa State.

With effect from the 1st April, 1957, the Bhilai and Durgapur Steel Projects were also transferred to the management of Hindustan Steel (Private) Limited. The authorised capital was increased to Rs. 300 crores.

In March 1959 this was renamed Hindustan Steel Ltd.

The investment at the end of 1958 was Rs 266.31 crores. Out of this Rs 20.70 crores was by way of loan and Rs 245.61 crores by way of equity capital.

The loan would bear interest at a rate not exceeding one per cent over the bank rate.

When in full production each of the three plants will produce one million tons of ingot steel or in finished salable products 0.72 million tons at Rourkela, 0.77 million tons at Bhilai and 0.75 million tons at Durgapur.

The Rourkela steel plant was formally opened by the President on Feb. 3, 1949 and the Bhilai on Feb. 4 when they started producing iron. They will begin to produce saleable steel in Oct. 1959 when Durgapur will begin to produce iron.

About the cost of these plants the present (Jan. 1959) estimates provide for an expenditure of Rs 439 crores for the three plants proper

—for Rourkela 170 crores, for Bhilai 131 crores and for Durgapur 138 crores.

These estimates do not include the cost of townships or mines and quarries land prospecting and designing development of sources of water supply, power supply facilities upto the perimeter of the plant, personnel required for operation including the cost of training railway works outside the perimeter of the plant, personnel employed directly by the project, customs duty expenditure on medical services, office expenditure and such other ancillary expenditure.

A provision of Rs. 120 crores has been made for these items but again the increase in the cost due to escalation have not been taken into account.

The total estimated outlay at the moment is thus Rs 559 crores.

The estimates for some of the ancillary items are (in Rs. crores): Three townships 42.0; Ore mines and quarries for Rourkela and Bhilai 20.0; Fees to Consultants 8.0; Cost of Soviet staff for supervision 4.3; Other expenditure on prospecting works undertaken by the project outside the perimeter of the steel plant customs duty etc. 45 to 46.

The original estimates for the steel plants on the basis of which provision was made in the Second Plan were:

	(Rs. crores)
Rourkela	124
Bhilai	110
Durgapur	115

Including the production of the three steel plants in the private sector the total production of net saleable steel would be about six million tons by the end of the Second Plan. All internal requirements of steel would be met and there will be a small surplus for export.

A preliminary contour survey for India's fourth steel plant at Bokaro in the public sector has been done. A sum of Rs. 4 lakhs was expected to be spent before the end of March 1959.

Raw Materials

The principal raw materials for the production of iron and steel are iron ore, coal and limestone. For the Rourkela steel project iron ore will be drawn from mines which are being developed in Barso about 50 miles away.

For Bhilai iron ore will be drawn from Rajhara about 60 miles away.

For Durgapur iron ore will be obtained from new mines being developed in Bolani in Orissa.

For Rourkela coal will be drawn from Kargall, Bokaro and Jharla fields.

For Bhilai it is expected that besides Kargall, Bokaro and Jharla the new fields of Korba which are being developed will also supply coals.

As a measure of conservation of the limited resources of metallurgical coal coals from Kargall, Bokaro will be washed in a washery which has been built in Kargall. To wash the coals from Jharla a washery is under construction in Dugda near the coalfields. Until this washery is ready unwashed coals from the Jharla fields will be selected and used for the operation of the Rourkela and Bhilai steel plants.

Korba coals will not be washed.

For the Durgapur steel plant, metallurgical coals of Jharla will be blended with the high volatile semi-caking coals of Barakar. Jharla coals will be washed in a washery which is being put up as a part of the main steel plant in Durgapur.

Limestone for both Rourkela and Durgapur will be obtained from the Birmitrapur-Hathibari area. A preliminary project report prepared for the opening of quarries in Hathibari (Purnanandi) shows that beyond a certain stage, it might be more economic to look for other sources of limestone even if they were somewhat more distant. For Durgapur limestone will be drawn partly from this quarry and partly from existing market sources in Birmitrapur next door.

For Bhilai, limestone will be drawn from the Nandini deposits about 12 miles from the steel works. The quarries in this place are being developed with the assistance of Soviet experts

and until plant and machinery are installed for mechanised mining manual quarrying has been undertaken.

Water, Power

The Mandira Dam built across the river Sankh will provide an unfailing supply of water to the Rourkela steel plant.

A system of reservoirs will supply industrial water to Bhilai. A new coagulation tank connected with the permanent drinking water supply has been brought into use relieving considerably the water works in Bhubaneswar which will supply the new steel township and the old town of Bhubaneswar.

Durgapur will get its water from the river Damodar through a channel which is being constructed by the Damodar Valley Corporation.

With the adoption of the L. D. process large quantities of surplus gases would be available in Rourkela. To utilise these and to have near at hand a source of power supply which would be reliable and responsive to fluctuations, a power plant of 75,000 kW is constructed within the steel works. During peak hours additional power would be obtained from the Hirakud hydro electric system.

For the Bhilai steel plant the main source of power would be the thermal station which is under construction in Korba. In addition, 24,000 kW of power would be generated within the steel works in the thermal station.

In Durgapur the Damodar Valley Corporation is putting up a 150,000 kW thermal station primarily to supply the steel works. Because of the proximity of this the stand by station within the steel works will only be of 15,000 kW.

Training, Personnel

For each of the steel plants it is estimated that on an average about 670 engineers and higher supervisory staff and 6,000 skilled workers and operatives will be required.

256 engineers were sent for training to the U.S.A. Of these 221 have returned after training and no difficulty is anticipated in completing the training of a total of 686 men according to schedule.

A large number of engineers of the Rourkela and Durgapur steel projects will be trained in the U.S.A. The first batch of 110 engineers has returned after training in the U.S.A. The second batch of about 100 is under training in that country (Jan. 1959).

Arrangements have been made under the Colombo Plan for the training of 300 engineers of the Durgapur steel project in the U.K. 68 engineers are now in that country (Jan. 1959).

5 engineers have returned after training in Australia and one in Canada. Canada and Australia have agreed to provide further training facilities for 14 and 12 men respectively.

72 engineers of the Rourkela steel project have been trained in West Germany. Another 23 are under training in that country (Jan. 1959).

A large training establishment is being run at Jamshedpur at which every young engineer is first given preliminary training before going abroad.

A certain number of highly skilled operatives who have to have specialist experience of steel plants, are also to be trained abroad. 261 operatives were sent to the U.S.A. of whom 134 have returned after training. 32 have gone to West Germany.

Arrangements have been made with the existing steel works in India to train 1,800 operatives in about four years. Over 50 engineering firms have agreed to train 1,600 skilled workers at a time. It is hoped that by the time all the three steel plants go into full production, about 13,000 skilled workers would have been trained at these centres.

Engineers, operatives and skilled workers returning from training abroad are engaged in erection, the designing offices and in planning for operation.

* Started producing coke on 23rd Feb. 1959.

Although ultimately there would be only about 7,500 engineers, operatives and skilled workers in each plant, the number of engineers and workers employed in construction is many times more.

At present, there are 10,000 workers employed by the Rourkela project direct and 46,000 by the contractors in Rourkela. In Bhilai, there are 26,000 departmental workers and 38,000 contractors' workers. In Durgapur, there are about 2,000 workers employed by the project and 25,000 by the contractors.

Houses would generally have to be built for all the engineers, skilled workers and most of the semi-skilled and non-industrial workers required for operation. In addition to these, there will be a number of people engaged in sales, town administration, water and power supply facilities, etc. Accommodation would also have to be provided, to some extent, for a few shop-keepers, barbers, washermen and such like who are essential for the life of a community. At the same time, it could be expected that a number of these people might live outside the steel town proper.

Taking in view all these factors, each of the townships will have 7,500 houses with a hospital, health centres, schools, shopping centres and the like.

In Rourkela, over 3,000 houses have been built and another 3,000 are under construction. In Bhilai, over 2,700 houses have been built and another 2,300 are under construction. In Durgapur, 1,400 houses have been built and a further 1,400 are under construction.

In addition, temporary accommodation has been provided to large numbers of construction staff and workers (Jan. 1959).

The company is entirely owned by the Government of India and has a Board of Directors of which the Secretary, Ministry of Steel, Mines & Fuel (Department of Iron & Steel), is the Chairman.

Rourkela: The annual output expected at Rourkela is about one million tons of steel ingots capable of being turned into about 720,000 tons of finished plates, sheets, strips, and tinplate.

The capacity of the plant can be expanded with a few additions to 1.3 million tons. The layout provides for an ultimate expansion to two million tons.

The plant will consist of 3 coke oven batteries of 70 ovens each, a By-Products Plant and 3 Blast Furnaces each producing 1,000 tons of iron a day. The steel melting side consists of 4 Open Hearth Furnaces (of 40 tons capacity) and 3 L.D. Converters which will produce 250,000 tons and 750,000 tons of ingot steel, respectively.

When all the departments of the steel plant are in commission, Rourkela will produce 200,000 tons of plates, 470,000 tons of hot and cold rolled sheets of various gauges and 50,000 tons of tinplate, besides about 50,000 tons of foundry iron.

The by-products plant will deal with 130 tons of tar per day and produce benzol, cresosote, naphthalene and other products.

In addition, a fertilizer plant is being put up to use the surplus nitrogen from the oxygen plant. This will produce 580,000 tons of nitro-limestone. The fertilizer plant will, therefore, be as big as Sindri.

The present (Jan. 1959) estimated cost of the plant is Rs. 170 crores.

Rourkela is in Orissa, 257 miles from Calcutta on the main Calcutta-Bombay railway line.

Resident Director: M. Ganapati; **Technical Advisor:** Dr. H. Kilar; **Chief Engineer:** B. R. Malhotra.

Bhilai Steel Project: An agreement was entered into between the Governments of India and the U.S.S.R. on 2nd February 1954, providing for technical and economic assistance in the erection of an integrated steel plant at Bhilai in Madhya Pradesh. The plant is designed to produce about 750,000 tons of

heavy and medium structural steel and 300,000 tons of foundry pig iron.

At the Bhilai plant again, there will be 3 coke oven batteries but with 65 ovens each and a By-Products Plant. The 3 blast furnaces have a rated capacity of 1,135 tons per day. In addition to producing iron for steel furnaces, 300,000 tons of foundry quality pig iron would also be made.

Iron will be converted into steel in 6 open-hearth furnaces of 250 tons capacity each.

The Rolling Mills will consist of one Blooming Mill, one Rail and Structural Mill, one Continuous Billet Mill and one Merchant Mill.

The production will be 200,000 tons of rails and sleeper bars, 160,000 tons of heavy structurals and 280,000 tons of medium structurals, besides 150,000 tons of billets for re-rolling industry and 300,000 tons of iron for the foundry industry.

The by-products plant in Bhilai will deal with 130 tons of tar per day and produce the same coal tar products as in Rourkela.

The capacity of the plant can be expanded with a few additions to 1.25 million tons. The layout provides for an ultimate expansion to 2.5 million tons.

A Project Division of the Ministry of Steel, Mines and Fuel, Government of India, under the charge of a General Manager, is looking after the construction of this Project.

The estimated cost is about Rs. 131 crores exclusive of the cost of township, one mine, and such other ancillary expenditure. In 1957-58 about Rs. 63.33 crores were spent on the project as against an expenditure of Rs. 9 crores in 1956-57.

Bhilai is in Madhya Pradesh, 156 miles from Nagpur on the main Calcutta-Bombay line.

Gen. Manager: N. C. Shrivastava.

Dy Gen Manager: M. K. K. Nayyar.

Chief Engineer: K. N. Subbaraman.

Durgapur Steel Project: The Steel Plant at Durgapur in West Bengal is the third one in the public sector (besides Bhilai and Rourkela). This will produce about 750,000 tons of light and medium section and bars, in addition to about 350,000 tons of pig iron.

There is room in the layout for expansion of the plant to produce 2.5 million tons per year. The contract for the construction of the steel plant was signed on the 31st October, 1956 with Messrs. Indian Steel Works Construction Co. Ltd., London and the work is in progress. The pilot plant furnace is expected to go into production by October 1959 and the entire project will be completed by the end of July 1961.

At Durgapur also there are 3 coke oven batteries of 78 ovens each and a By-Product Plant.

There will be 3 Blast Furnaces each of a capacity of 1,250 tons per day, which will produce all the iron required for the Steel Melting Shops and also 350,000 tons of pig iron for sale.

The steel-making plant consists of 9 basic Open Hearth Furnaces of which 8 will be of 200 tons capacity.

The Rolling Mills consist of a Blooming Mill, Intermediate Mill, Continuous Billet Mill, Medium and Merchant Section Mills and a Sleeper Bar Plant.

These will produce 100,000 tons of forging blooms and billets, 240,000 tons of Merchant Sections, 200,000 tons of light structurals, 60,000 tons of sleeper bars, 150,000 tons of billets for sale. The wheel and axle plant will make 40,000 tons of wheels and axles.

The estimated cost of the plant is about Rs. 138 crores.

In 1957-58 about Rs. 81.69 crores were spent as against 15.48 crores in 1956-57.

This Project also is being managed by a Chief Project Officer under the direct control of the Ministry of Steel, Mines and Fuel, Government of India.

General Manager: K. Sen, I.C.S.

Dy. General Manager: A. N. Banerjee.

Chief Engineer: Hukam Singh.

WASHERIES

The requirements of washed coals for the three new steel plants in the public sector and the expanded steel plants in the private sector are estimated at about nine million tons.

The washery at Kargali, set up by the National Coal Development Corporation, will supply 1.1 million tons to Rourkela and 0.5 million tons to Bhilai.

Two washeries owned by Tata, one at Bokaro and the other in Jamadoba would, after certain improvements, supply 1.5 million tons of washed coals. The washery at Lodna, which supplies the Indian Iron and Steel Works, has an output of 0.22 million tons.

With the establishment of the washery at Kargali and the improvements to the Tata Washerries, capacity has to be set up only for the balance of about five and a half million tons. A washery is included in the contract for the steel plant at Durgapur to wash Jharia coals to meet the requirements of that plant. The balance about 4.8 million tons—is proposed to be met from three washeries to be put up, one in Dugda, another in Bhojudih and the third in Patherdih.

The washery in Dugda will supply washed Jharia coals to Bhilai and Rourkela, the one in Bhojudih to the Tata Iron & Steel Works and the Patherdih washery to Indian Iron & Steel Works.

INDIA GOVERNMENT SILVER REFINERY PROJECT

47, Strand Road, Calcutta 7.

This project is under the Ministry of Finance (Department of Economic Affairs), Government of India. Erection and installation of the plant and machinery were nearly completed (October 1958) and commissioning was expected to commence shortly.

A sum of Rs. 88 lakhs was initially estimated to cover capital expenditure.

The number of persons employed (October 1958) was about 200. The project is expected to operate in three shifts round the clock with officers and staff numbering about 600.

The project is intended for the extraction and refining of silver from the Q.A. cut and defaced coins and recovery of copper as by-product.

The process of refining is a new patented process, the joint authors of which are late Mr. O. C. Mitter, formerly Master, Assay Deptt. and Silver Refinery Project and Messrs. Demang Elektrometallurgie G.m.b.H., W. Germany.

Master, Assay Deptt. and Silver Refinery Project, Benoy Kumar Bose.

INDIAN RARE EARTHS (PRIVATE) LIMITED

Udyogamandal P.O.

(Alwaye, Kerala)

This factory is owned jointly by the Government of India and the Government of Kerala.

The subscribed capital is Rs. one crore, of which the Government of India's share is 64 per cent and of the Kerala Government 36 per cent.

The factory started production in July 1952. The Plant has a rated capacity to process 1,500 tons of Monasite per annum. The main products are Cerium Compounds, etc., Mixed Rare Earths Chloride, Mixed Rare Earths Carbonate and Crude Cerium Hydroxide. Cerium Oxide and Cerium Naphthenate are also manufactured in small quantities. Tricadium Phosphate is obtained as a by-product.

The Cerium Compounds are exported for use in the manufacture of Misch Metal, Nuclear Cast Iron, Alloys for Jet Engines, Pyrophoric alloys, Enamelling of Cast Iron and Steel, Polishing of Optical Glass, Tinting of Optical Glass, Lenses for aerial photography cameras, Tanning of leather, Carbon for arc lamps, etc.

The Trisodium Phosphate has multiple uses and is being used in textile, paper and other mills and industries for dyeing, bleaching, softening of industrial water in boilers and for general cleaning purposes in mills, factories, hospitals homes, etc.

The Company also operates the Thorium Plant of the Government of India at Bombay where Thorium Compounds are manufactured from raw material obtained at the Alwaye Plant.

Thorium Compounds are sold by the Company on behalf of the Department of Atomic Energy, Government of India.

Chief Administrative Officer, G. Rajagopal Menon.

Works Manager, H. N. Sethna.

Deputy Chief Administrative Officer, K. V. N. Nayar.

Deputy Works Manager, C. M. Mani.

INDIAN REFINERIES (PRIVATE) LTD. New Delhi

A private limited company under the Companies Act 1956 under the name and style of "Indian Refineries Private Limited" was registered in Delhi on August 22 1958, with an authorised capital of Rs 30 crores to control and manage the two oil refineries to be established by the Government.

The company will be managed through a Board of Directors to be appointed by the President. The number of Directors will for the present be 10.

Mr Feroze Gandhi, M.P. has been appointed as the chairman and Mr J. M. Shrinagesh I.C.S., as the Managing Director of the Company.

INDIAN TELEPHONE INDUSTRIES (PRIVATE) LIMITED

(Duravani Nagar P.O., Bangalore Dt., Mysore State)

Railway Station - Krishnarajapuram
(Southern Railway)

City Office: No. 5, Kensington Road, Bangalore.

Tel. Address: "Phonindustry."

Telephones: 5111 (4 lines).

Regional Offices, Sales & Services National Insurance Bldg., 1st floor, 27, Beanton Road Bombay 1 22 Chittaranjan Avenue, United India Life Assurance Bldg., Calcutta 13, 12 B, Fais Bazar, Daryaganj, Delhi, No. 2, Armenian Street, Catholic Centre 1st floor, Madras 1 () The High Commission of India in U.K., India House, Aldwych, London W.C. 2

Total Investment

Authorised Capital... .. Rs. 4 Crores.
Subscribed and Paid-up Capital... .. " 4 Crores.

Bankers: State Bank of India, Central Bank of India.

Board of Directors

M. M. Philip I.C.S. (Chairman), R. C. Vaidya, J. J. Eades I.C.S. Tod (Alternate Director), M. A. Shrivastava, M. V. Ramakrishna Rao, T. Shamanna, Jagdish Prasad (Managing Director)

Administration

General Manager, N. V. Shenoi
Joint General Manager, K. D. Vaidya
Financial and Accounting Manager, V. T. Srinivasan

Secretary, D. V. M. Rao.

The I.T.I. (Private) Ltd., the first industrial concern in the public sector after achieving independence, was originally started as a Government department in 1948 under the Ministry of Communications. On February 1, 1960 it was converted into a private limited company with the Government of India as the major shareholder.

The Company has acquired about 372 acres of land and has got its own railway siding. It is the sole agent for its associate—the Automatic Telephone & Electric Co., Ltd., Liverpool, England.

Facts and Figures

Present Production per annum: Telephones - 84,000, exchange lines - 84,000, single channel carrier systems - 131, 3-channel systems - 24, 12-channel systems - 51 bays, co-axial equipment - 72 bays. In addition other telecommunication equipment such as transmission measuring set, voice frequency repeaters, ultraphones, etc. are produced in considerable quantities. Paper condensers and precision screws of various types and sizes are also manufactured surplus quantities of which are supplied to other industries.

The factory normally works two shifts from 6-15 A.M. to 2-30 P.M. and 2-30 P.M. to 10-30 P.M. in addition to the general shift between 8-45 A.M. & 5-15 P.M. The shift system has been introduced to rationalise transport facilities as most of the workers live in Bangalore, six to ten miles away from the factory. Around the factory, a township (Duravani Nagar) has been developed and residential quarters for more than 1,000 families have already been provided. The township has got all modern amenities such as hospital, hostel, school, playgrounds, children's park, bank, market place, cricket and sports stadium, guest house and club.

A Joint Works Council of management and labour was inaugurated on 7th April 1959.

Number of persons employed: 5,500

Amenities

Three fully equipped canteens and two lunch sheds are provided for the benefit of the workers and staff. The canteens are run by the Employees' Co-operative Society. The Society also runs a provision shop for the benefit of the residents of Duravani Nagar.

All the employees are covered by the Employees State Insurance Scheme for purposes of medical treatment. In addition, a well equipped 40 bed hospital and a separate first aid centre have been provided for their benefit.

Other amenities include a well-organised sports club, a joint library and reading room,

a Fine Arts Society, publication of the I.T.I. Magazine, separate rest room for female employees, a crèche for the children of female employees, supply of free milk to employees doing hazardous work, supply of overalls to factory workers at 80 per cent of the cost, free film shows at frequent intervals, etc.

The employees themselves have organised a voluntary fund for giving financial aid to needy employees in emergencies.

In co-operation with the Hindustan Aircraft (Private) Ltd., transport facilities have been provided for about 3,000 employees at very low rates.

INTEGRAL COACH FACTORY Perambur, Madras.

The Integral Coach Factory Project at Perambur, a suburb of Madras on the Madras-Bombay line, is Asia's largest Coach Building Unit and perhaps one of the largest of its kind in the world. It is an important endeavour of the Ministry of Railways included in the first Five-Year Plan, and is a significant step forward in the attainment of self-sufficiency in rolling stock. The factory when in full production will produce coaches worth about Rs. 4 crores per annum and will thus result in a considerable saving in foreign exchange.

The factory structures, which cover an area of 850,000 sq. ft. and concrete roadways totalling 3.5 miles in length are very modern and have been designed and constructed by Indian engineers with an eye to provide the worker ideal working conditions.

Construction started in the latter half of 1952. During the construction stage of the project covering about three years, employment was provided for 3,000 men. The factory, when in full production, will have a labour strength of over 4,000 men in the various categories. The first coach was turned out in October 1955.

The factory has been equipped with the latest machine tools.

The yearly target of railway coaches to be manufactured in the factory during full production is 350 coaches. This was originally planned to be achieved in the course of five years after October 1955, when production was inaugurated in the factory. The target date has been advanced in the light of experience gained. Details of the actual production and targets are given in the table below.

Period	Target as per agreement with the Swiss firm	Revised targets	Actual output
April 1955-March 1956	8	12	12
April 1956-March 1957	48	72	85
April 1957-March 1958	248	174	223
April 1958-March 1959	255	312	148 (upto August 1958)
April 1959-March 1960	331	350	—

Simultaneously the Integral coach factory is planning to work the factory on double shift in order to attain an output of 800 coaches a year.

As against the planned overall procurement of 3,516 B.O. passenger coaches during the Second Plan, a total of 1,822 coaches have been entrusted to the Integral Coach Factory, Perambur, for production. Out of these 601 coaches had actually been turned out from this factory by the end of Sept. 1958 including 179 turned out during the first six months of 1957-58.

The type of coach to be manufactured in the factory called the "Integral coach" is of a modern design developed by a Swiss firm, Messrs. Swiss Car and Elevator Manufacturing Corporation Ltd., Schlieren, Zurich. As compared to the

conventional coach consisting of a wooden body secured to a steel frame, in the Integral coach the all-steel body and frame form one piece, one being welded to the other, becoming a rigid body of tubular design. This type of construction results in the forces sustained by the coach being taken by the entire body, including the skin. The ends of coaches are specially designed to prevent telescoping, a potential source of loss of life, in train accidents. Particular care has been given to ensure smooth running and affording of greater comfort to the travelling public. These coaches are also lighter in weight compared to conventional coaches and this enables a larger number of coaches being attached to a train leading to the easing of congestion.

The factory has begun to manufacture third-class-cum-luggage vans. The factory is also

planning to produce postal vans and first class coaches.

A Technical Aid Agreement was entered into with the Swiss firm for successfully establishing production of this new type of coach and imparting the "know-how" to the Indian personnel. This work has since been completed and all the Swiss engineers and technicians have left for their country. The factory is now managed entirely by Indian personnel.

Technical training: A Technical School to train all the skilled workmen of the factory was established in March 1964, 18 months ahead of production.

The first batch of 70 apprentices was available on the Shop floor by the end of 1964.

A hostel to accommodate 250 boys was completed on 1st August 1966.

A proper theoretical Training School was completed subsequently and has been functioning since November 1956.

Furnishing Unit: Due to the increased load thrown on the Railway Workshops it was considered necessary by the Government of India that a furnishing Annex should be attached to the Integral Coach Factory for furnishing the body shells. Necessary arrangements are being done to expedite bringing the furnishing unit into full production and also to have additional coach building capacity.

The construction of a furnishing Annex to the factory is well under way. In the meanwhile the factory has started furnishing its own shells in the temporary furnishing arrangements inside the workshops of the shell factory as well as in the interim furnishing sheds constructed for the purpose. Up to the end of August 1966, 135 integral coach shells produced by the factory have been furnished. It has been so planned that when the furnishing Annex is ready to start production work, skilled personnel, machinery etc. may be shifted to the Annex from the temporary arrangements. The peak production capacity of furnishing 350 shells could, as per present plans, be attained in the first production year itself viz. 1960-61.

Technical Assistance to Indigenous Industries: The purchases of the Integral Coach Factory have gone up from Rs. 14.71 lakhs in 1952-53 to Rs. 529.66 lakhs in 1957-58 and by 1960-61 it is expected that the purchases will go up further to Rs. 7 crores. These purchases include production tools, pneumatic tools, small tools, and hand tools, raw materials such as steel for coaches, coach components like axle boxes, wheels and axles, roller bearings, steel tubes, draft castings, M. I. castings, brake blocks, vacuum brake cylinders and reservoirs, interior fittings, stainless steel screws, bright screws and nuts, etc. 500 different firms in the country have benefited from these purchases. Several industries are developing in the country to meet Integral Coach Factory requirements. A department has also been organised to give technical assistance to such firms as are anxious to make supplies to I.C.F.

Design Drawing Office: Vigorous efforts put in during the preceding years for the establishment of a Design Office for introducing new designs of Integral Coaches have borne fruit with the completion of the designs of the T.L.R. (i.e. third class, luggage and brake-van) in the Factory Design Office. The manufacture of the prototype coach in the Factory was nearing completion (October 1966). Modifications to the existing bogies to improve their riding qualities were also being tackled and the design of a first class coach of integral type was expected to be taken up very shortly.

Cost of the Coach: With increased outturn and improvement in the skill and technical know-how of the staff, the cost of production of coaches has from the first batch onwards registered a systematic downward trend. The latest cost of production of an indigenous manufactured shell is only Rs. 89,000. This cost, apart from being considerably below the landed cost of the complete Schlieren shell, i.e. Rs. 1,87,000, is also lower than the ex-works

price of a similar coach obtainable in the continent which is Rs. 1,02,000. It may also be mentioned that the I.C.F. built coach incorporates certain additional fittings and necessitates certain additional operations at an aggregate cost of Rs. 8,000 per coach.

Amenities: A Colony of more than 400 quarters has been provided to accommodate the essential staff. All the modern amenities are included in this Colony, which has a Primary School, a Children's Park, a Recreation Club and a Co-operative Store.

For the Furnishing Annex a colony of 200 quarters has been sanctioned. This colony is being planned contiguous to the ICF Colony and suitable expansions of amenities by way of Children's School, Recreation area, Marketing area and so on are also being contemplated.

It has been the aim of this administration to provide good working conditions for workmen in the factory. Lighting and ventilation of the shops have been given special attention. Staff Canteens run on a co-operative basis have been provided near the main entrance as well as in the office. Water coolers to supply cooled drinking water have been installed in the shops. Bathing places and lavatories have been provided at convenient places.

The total number of employees (permanent and temporary) on the rolls as on 31st March 1966 was 4,779 as against 2,542 as on 31st March 1957.

Chief Mechanical Engineer: K. Swarup; **Deputy Financial Adviser and Chief Accounts Officer:** M. Sundar Raj; **Deputy Chief Mechanical Engineer (Furnishing):** K. M. Alana; **Deputy Controller of Stores:** R. K. Tandon.

NEYVELI LIGNITE CORPORATION (PRIVATE) LTD.

(Ministry of Steel, Mines and Fuel, Government of India.)

In view of the importance of developing an economic source of fuel and power for south India which is at present handicapped by limited hydro resources, a high degree of priority has been given in the Second Five Year Plan to the mining, utilisation and processing of the extensive lignite deposits which occur at Neyveli in the South Arcot District of Madras.

Preliminary investigations of these deposits were undertaken first by the Madras Government and then by the Central Government from January 1, 1956, in consultation with Messrs. Powell Duffryn Technical Services Limited, a U.K. firm of technical consultants, whose services were made available to the Government of India under the Colombo Plan.

These preliminary investigations, including large-scale pumping tests, having proved the feasibility of economic mining and utilisation of the Neyveli lignite, Government have accepted, in principle, the execution of the Integrated Lignite Project at an estimated cost of about Rs. 75 crores and have sanctioned the mining part of the Project at a cost of about Rs. 17 crores.

The Integrated Project envisages the mining of 8.5 million tons of lignite per annum to be utilised for:

- production of 250,000 kW of power in a thermal power station using lignite as fuel;
- production of fertilisers with a nitrogen content of 75,000 tons per annum, in the form of urea; and
- manufacture of 714,000 tons of raw lignite briquettes per annum to be processed in a low temperature carbonising plant to yield 380,000 tons of carbonised briquettes per annum for use as domestic and industrial fuel, 49,000 tons of char dust, 6,400 tons of motor spirit, 51,300 tons of tar and 1,033 tons of phenol.

A detailed mine plan involving an estimated expenditure of Rs. 17 crores for the development and production phases of the mine submitted by the technical consultants was sanctioned by the Government. The scheme was inaugurated

by the Prime Minister on April 20, 1957. Messrs. P.D.T.S. Ltd. have been appointed consultants for the Mining Scheme. Orders for Rs. 5.6 crores worth of conventional and specialised machinery required for removing the overburden and developing the mine for full production have been placed.

All the conventional equipment have already arrived at site and items of specialised mining machinery are beginning to arrive. The estimated cost of production of lignite has been worked out at Rs. 8 to Rs. 10 per ton which compares favourably with the price at which coal is available in south India. In accordance with the time schedule for the mining project, the mine will be in full production by December 31, 1960.

The total quantity of overburden removed till the end of Dec. 1956 was 5.99 million cubic yards against a target of 5.66 million.

The Central Water and Power Commission have drawn up the Project Report for the 200 MW. thermal station, the most important constituent scheme in the Integrated Lignite Project. The Thermal Station Scheme is one of the schemes to be financed from the credit offered by the U.S.S.R. in respect of which an agreement was signed in Delhi in 1957.

The Project Report for the Fertilizer Unit has also been drawn up. The total capital cost of the scheme has been estimated at Rs. 21 crores.

Tests conducted on bulk samples of Neyveli lignite in West German laboratories have established that the lignite is of a high quality, capable of yielding satisfactory briquettes, both raw and carbonised on a commercial scale.

Further tests on a pilot plant scale are to be conducted at Neyveli with the help of pilot plant equipment, provided under the T.C.M. aid, for determining the optimum conditions under which the lignite should be briquetted and carbonised. Thereafter the question of the type of press to be used and the choice of consultants will be considered.

This component of the project is estimated to cost Rs. 10 crores and will be commissioned in accordance with the time-schedule by December 31, 1961.

Key officers of the Project have returned from a study tour abroad.

A railway siding about four miles long is being laid (Dec 1958) from Omandalam Railway Station three miles away from Neyveli, to facilitate easy transport of materials and machinery to the work spot during the constructive stage and the transport of finished products during the production stage. The sub-graded work has practically been completed and the super-grade work, now in progress, is expected to be completed in the latter half of 1958.

An insulator manufacturing factory, one of the allied industries of the lignite project, was expected to go into production early in 1959. The insulator factory's capacity would be 720 ton of h.t. insulators and 420 tons of i.t. insulators per year.

A new township consisting of 30 sectors with all modern amenities like parks, schools, shops, hospital etc., has been planned, to accommodate offices, factories, staff and workers of the different units of the Integrated Project. It is to be constructed according to a phased programme. Construction work has already started.

Pending construction and development of the new township, a minimum number of temporary buildings have been constructed in the area south of the railway line, to meet the requirements of office and residential accommodation and to provide amenities on a modest scale.

As the mining gains momentum, the labour force of Project will go up. A full time labour welfare officer has been appointed to look after the interests of the workers. An Information Officer has also been appointed.

The Corporation has opened a middle school and an elementary school for the benefit of the children of its employees. There is a dispensary at Neyveli with facilities for maternity cases.

When the township is constructed, there will be a fully equipped hospital.

The ownership, management and administration of the Neyveli lignite project has been entrusted to a Government of India-owned private limited company, Neyveli Lignite Corporation (Private) Ltd., which started functioning on 8th December 1956 and has its registered office at 151, Lloyds Road, Madras 14.

(Chairman, Board of Directors, C. R. Pattabhiraman, B.A., LL.B. (Lond.), Bar-at-Law, M.P.

Managing Director, T. M. S. Mani, I.C.A.

MACHINE-TOOL PROTOTYPE FACTORY, AMBERNATH

The Machine-tool Prototype Factory at Ambernath near Bombay was set up in 1953 by the Ministry of Defence, Government of India under the Director-General, Ordnance Factories, in collaboration with a Swiss firm. It was a pioneer project to design and develop ordnance weapons as well as machine tools.

Since its inception the factory has established production of several types of precision machine tools of its own design, and supplied these to various Government establishments and industry. Further development programmes were in hand (September 1958).

To overcome the shortage of skilled artisans necessary for the production of armaments, a Training School has been attached to M.T.P.F. since its inception. The school helps to meet the requirements of other ordnance factories also.

NAHAN FOUNDRY (PRIVATE) LTD.

(Nahan, Sirmur District, Himachal Pradesh).

This was started in 1875 and has been continuously expanded.

The authorised capital is Rs. one crore and the paid-up capital Rs. 40 lakhs. The number of persons employed is about 500 at Nahan and about 150 in the agencies.

Production consists of improved type of cane crushers, bullock and power driven; centrifugal pumps in different sizes; paddy threshers; ploughs; corn-sheller machines (a new patented machine for separating maize corn from their cobs); chain-cutters of different types; boiling pans; flour mills, power and bullock driven; and miscellaneous items.

The company has a network of about 90 agencies in north India which cater to the needs of the cultivator in the villages in respect of machines, and also undertake repairs at site.

It is managed as a private limited company (which took over on Jan. 1, 1953) with the President holding all the shares. The affairs are looked after by a Board of Directors appointed by the President of India and is under the administrative control of the Ministry of Commerce and Industry. It is a pioneer industry in northern India for the manufacture of cane crushers and "Sultan" is a speciality all over India.

General Manager, C. S. Shukla.

NANGAL FERTILIZER—HEAVY WATER PROJECT

(Ministry of Commerce and Industry, Government of India).

The factory which will be located at Nangal on the right (western) bank of Sutlej, can be divided into three major units: a) silos, b) electrolysis and rectifier plant and c) ammonia and other allied plants. It will produce nitro lime stone fertilizer with an annual capacity of about 3.95 lakh tons. It will also produce 12 to 15 tons of heavy water for the use of the Department of Atomic Energy. The factory which is likely to cost about Rs. 27.5 crores, is expected to go into production early in 1960.

The Nangal Fertilizer Heavy Water Project will be the first factory in India to produce ammonium nitrate, a fertilizer with high percentage of nitrogen content.

The control and management of the Project were formally transferred to Messrs. Nangal

Fertilisers and Chemicals (Private) Limited, a company entirely owned by the Government of India, on April 20, 1956. The authorised capital of this company is Rs. 30 crores.

Messrs. Vitro Engineering Division of New York (U.S.A.) have been engaged as Technical Consultants for the project.

The contract valued at over Rs. 3.63 crores for electrolysis, which constitutes the first large section of the plant, was given to an Italian firm in March 1957.

Another contract was given in 1957 to a French firm for the supply, erection and commissioning of the fertilizer group of plants for the project. Half of the fertilizer plants are due to be erected and put into commission by the end of 1959 and the remaining half by the end of March 1960.

A contract was given to a British firm Messrs. English Electric Company in December 1957 for the supply of electrical equipment for the project. The equipment is estimated to cost about Rs. 2.24 crores. The order for the supply of accessories and auxiliaries for the electrolysis plant has been placed with an Italian firm. Satisfactory deferred payment terms have been agreed to by the suppliers for all these.

Orders for the heavy water plant was under examination (1958) by the Government and was expected to be placed at any time.

The first consignment of the electrolysis comprising 25 per cent of the entire plant arrived at the factory site and the second consignment comprising another 25 per cent was shipped from Italy in August 1958. Construction work on the buildings for the electrolysis, nitric acid and ammonia plants and empty bag storage building has commenced. (Nov. 1958).

The contract for the entire factory (civil works) has been given. Construction of quarters in the permanent township in the first phase of construction is making steady progress.

The laying of the railway track from Nangal Dam railway station, including Nangal Dam bridge, up to the factory entry point is almost complete. The laying of the track from this point to the site of electrolysis plant building is progressing. Electrical equipment were expected to start coming in from the beginning 1959.

A detailed programme of recruitment of engineering and technical personnel for the project has been chalked out. It has been arranged to train at the Sindri Factory, 95 apprentices for the project in different branches of engineering.

The power requirements which will be of the order of 160,000 kW are to be supplied by the Bhakra Dam Project.

NATIONAL INSTRUMENTS (PRIVATE) LTD.

(15, Wood Street, Calcutta 16 and Raja Subodh Mullick Road, Jadavpur, Calcutta 32)

Total investment Rs. 1.16 crores. Value of production and repair for 1957-58 Rs. 30.01 lakhs. Number of persons employed 1,074.

This is a Government owned Company under the Ministry of Commerce and Industry.

It is one of the oldest if not the oldest factory in India engaged in the manufacture and repair of scientific and mathematical instruments in India.

It manufactures prismatic compasses, theodolites, levels and other survey instruments, prismatic binoculars, telescopes, thermometers and hydrometers of various types, excise apparatus, barometers and other meteorological instruments, profile projectors, students' microscopes, pantagraph, pressure and vacuum gauges, demonstration eyepieces, sextant, drafting machines and other drawing office equipment and also repairs all types of scientific and aircraft instruments.

The Planning Commission had provided Rs. 180 lakhs for the first plan period to reorganize the factory including construction of its own building at Jadavpur (on the outskirts of Calcutta), the first phase of reorganisation being complete. The major portion of the factory

had been shifted to its new building at Jadavpur and the rest was expected to be shifted by the beginning of 1959.

Under the Second Five-Year Plan, the manufacture of the following has been included: Special microscopes, medical diagnostic instruments, recording instruments and cameras.

Practical training facilities have been provided to the various categories of trainees.

The development plans of this factory are so planned that this factory may serve as a nucleus in future for the manufacture of instruments, precision and scientific, which are at present imported.

Managing Director, S. D. Joshi, B.Sc. (Hons.), P. Edy Tech. (I.K.)

Works Manager, L. M. De, B.Sc. (Eng), AMIE Prod. EXAMINER.

Secretary, S. Natarajan, B.A.

OPTICAL AND OPHTHALMIC GLASS FACTORY

(Ministry of Commerce and Industry).

The Government of India have selected Durgapur in West Bengal as the site for setting up the optical glass plant. The proposed plant will manufacture 10 tons of optical glass and 200 tons of ophthalmic glass per year.

A contract has been entered into with Messrs. Techno-export of Moscow for the preparation of a detailed project report. Foreign exchange expenditure on this project will be met from the credit extended by the Government of the U.S.S.R. The National Industrial Development Corporation is currently making the necessary arrangements for the work relating to the project.

The scheme is likely to be completed by 1961-62 and an expenditure of Rs. 2.30 crores is estimated to be incurred on the project.

SINDRI FERTILIZERS AND CHEMICALS (PRIVATE) LIMITED

(Sindri, Bihar)

This is a State-owned and State-managed private limited company under the Ministry of Commerce and Industry, Government of India, in which all shares are held by the Government of India. The Company was registered on December 18, 1951.

Authorized share capital—Rs. 50 crores; paid-up—Rs. 17 crores. A further sum of Rs. 7.5 crores was invested by the Government as a loan at 4½ per cent interest.

The factory went into production on 31st October 1951; gas plant started 13th April 1951; production of anhydrous ammonia started 28th August 1951; marshalling yards completed 20th August 1951; bagging plant commissioned 4th February 1952; bags of ammonium sulphate went out of the factory 7th February 1952.

The gross profits for the year 1957-58 amounted to Rs. 3,52,11,246. After providing Rs. 1,96,11,230 for depreciation and utilising Rs. 13,18,167 in paying interest on the loan to the Government of India and adding Rs. 20,40,240, the amount brought forward from last year's account, the balance available was Rs. 163,31,109. Out of this amount, Rs. 33,30,722 has been provided as reserve for repairs and renewals, Rs. 25,00,000 as taxation reserve and Rs. 85,00,000 as dividend to the shareholders. This leaves Rs. 20,00,387 to be carried over to the account for 1958-59.

Sindri has set up a record for efficient production and successful working. The total production of ammonium sulphate during 1957 was 3,32,031 against the target of 330,000 tons. A record production of 82,891 tons was achieved during December 1957 giving a record daily average of 1,061 tons, the highest ever achieved.

The fertilizer despatches to the various States during 1957-58 were 3,29,829 tons.

The factory consists of coke oven, gas, ammonia, sulphate plants; power from 80,000 kW Power House; water (some 12 million gallons a day under full production condition). Adequate arrangements have been made to ensure this large supply of water from the Damodar river for the factory and connected activities.

A barrage has also been thrown over the Gomal, a tributary of the Damodar, impounding about 1,000 million gallons of water as a stand-by.

Then there are a bagging plant, marshalling yards and 12-mile railway track.

The Coke Oven Plant built at a cost of Rs. 2.81 crores and designed to produce 600 tons of coke per day and other important by-products of industrial importance, went into production on September 1, 1954.

The cement factory built by the A.C.C., with an installed capacity of 600 tons of cement a day for the utilisation of Sindri's by-product—chalk sludge—went into production on 1st September 1955.

Sindri's Rs. 13 crore expansion scheme for the production of 70 tons of urea and 400 tons of double salt per day, is nearing completion (November 1958). Practically all the plants have been erected and initial testing of equipment has started.

The township sprawls over an area of 1,700 acres, has six groups of composite and self-sufficient colonies, all modern amenities (electricity, water supply, sanitary services, roads).

There are also a 100-bed modern hospital, four branch dispensaries, one first-aid post,

two high schools for boys and girls, one middle school, three primary schools and one Kindergarten school, three post offices, three recreation centres and several shopping centres.

The Government of India, according to the annual report, sanctioned during the year 1957-58 an ad hoc ex-gratia payment of Rs. 16 lakhs for the staff. Out of this amount, Rs. 12 lakhs were distributed in cash and a sum of Rs. 4 lakhs was being utilized for making an appropriate addition to the provident fund of all employees drawing upto Rs. 500 and having more than one year's service on 31st October 1957.

The per capita expenditure on workers' welfare works out to Rs. 173.8 against Rs. 167 during 1956-57.

Sindri has developed into an important training centre for young engineers and technicians. Sindri has already provided several trained technicians and engineers for other industries recently set up by the Government. During 1957-58 there were 70 graduate apprentices and 63 trade apprentices under training. In addition there were 60 graduate apprentices under training for the Nangal Factory and 43 trainees for the Hindustan Steel. Training facilities are being expanded with a view to training more technical personnel to man supervisory posts as a result of Sindri's expansion and the setting

up of new fertilizer factories during the Second Five-Year Plan period.

At present only about 55 per cent of the requirements of fertilizer of the country is met by Sindri.

Price—The selling price to the Central Fertilizer Pool is Rs. 280 per ton.

Board of Directors:

Chairman, Sir Shri Ram.

Members, J. J. Ghandy; S. R. Vasavada; B. C. Mukherji, I.C.S.; Dr. A. Nagaraja Rao; T. C. Furl, I.C.S.; K. L. Ghel; Digvijaya Narain Singh, M.P.; K. Raman, I.C.S.; Dr. Hussain Zahir.

Mg. Director, V. Nilakantan.

THORIUM PLANT

(Trombay, Bombay 38)

The plant went into production in August 1955.

It produces a few hundred tons of thorium and a few tons of uranium a year which is equivalent in fuel value to roughly 1,000 million tons of coal. This is about thirty times the present annual production of coal in India.

(See also under 'Research'.)

STATE-OWNED OR STATE-AIDED

GOVERNMENT CEMENT FACTORY

Churk, Mirzapur, U.P.

The Government Cement Factory was established at Churk in Mirzapur District at an initial cost of Rs. 4.5 crores. The factory went into production in September 1954. Its installed capacity is 700 tons per day. The factory employs over 2,000 persons.

In 1957-58 the cement production in the factory was 2,39,633 tons as against 1,96,350 tons in 1956-57. The factory supplied over 40,000 tons of cement for the construction of Rihand Dam during 1956-57.

The expansion programme, costing Rs. 275 lakhs, has made considerable headway. Orders for the purchase of plant and machinery costing over Rs. one crore, have been placed with a Czechoslovakian firm and the expansion unit is expected to go into production in 1960. With the completion of the expansion programme the factory will start producing 1,400 tons of cement per day.

GOVERNMENT PRECISION INSTRUMENTS

FACTORY
Lucknow, U.P.

The factory was established in 1950 at Lucknow, for the manufacture of water meters, microscopes and other precision instruments and went into production in 1952, when the turnover was nearly 300 water meters per month. The present production of water meters and microscopes is 3,000 and 25 per month respectively. Till October 1958 in all 97,614 watermeters and 654 microscopes had been produced most of which was sold in various parts of the country.

Besides the established lines of production of water meters and microscopes, manufacture of various types of surgical instruments has also been started. In addition, the Government of India have granted licence for the manufacture of pressure gauges in the factory.

The factory, now a self-supporting economic unit, showed a net profit of Rs. 1,24,596 in 1957-58 as against the corresponding figure of Rs. 91,601 for the year 1956-57.

KOLAR GOLD MINING UNDERTAKINGS

Kolar Gold Fields, Mysore State.

Total investment: Rs. 180.29 lakhs.

No. of Mines and their location: 3, all located in K.G.F.

Total annual output and average value: Gold (1957-58): 1,63,123 five ounces, Sale proceeds: Rs. 474.98 lakhs.

No. of workmen: About 25,000.

Names of companies taken over: (1) The Mysore Gold Mines; (2) The Champion Reef Gold Mines; (3) The Nandydroog Mines.

During November 1956, the gold mines in Kolar Gold Fields, established in 1880, passed from the private sector to the public sector under the provisions of the Kolar Gold Mining Undertakings (Acquisition) Act, 1956. The total compensation fixed under the Act is Rs. 164 lakhs, a major portion of which has already been paid to Messrs. John Taylor & Son, the former company.

Board of Management appointed by the Government of Mysore: The Chief Minister (Chairman); S. Munianappa (Vice-Chairman); G. Mathias, Finance Secretary; T. P. Krishnachar, Director of Geology and Mines; a representative of Messrs. John Taylor & Son who continue their association with the mines as Consultant Engineers.

THE MYSORE IRON AND STEEL WORKS

(Bhadraavathi, Shimoga Dist., Mysore State).

This Mysore State Government project for the establishment of the industry was worked out during the years 1914-18, and the basic industrial enterprise started operations in 1923.

The present total investment is Rs. 6.1 crores.

The works produce pig iron, cast iron pipes, plate sleepers, general foundry castings, merchant steel sections, steel castings, portland cement, ferro-alloys. The turn-over amounts to over Rs. four crores per annum.

The manufacture by electric process is a noteworthy feature.

The annual production of pig iron is 90,000 tons; of cement about 78,000 tons; of ferro-silicon 5,000 tons; of steel about 30,000 tons.

The production in the General Foundry is about 2,500 tons of general castings; 600 tons of grinding bodies and 4,500 tons of plate sleepers a year.

The annual output of the Rolling Mill is about 30,000 tons of mild steel sections.

The Rod and Strip Mills produce 40 to 45 tons of rods or 30 to 35 tons of strips per day.

The Electric Steel Furnace produces annually about 4,500 tons of ingots and 900 tons of rough castings of which 300 tons are machined castings. The output of the Structural Shop is about 100 tons a month.

In the expanded scheme of the works, there is a Cast Iron Spun Pipe Plant for manufacture of pipes upto 12" diameter.

Production of ferro-manganese in 2 Fuelde Furnaces with a capacity of 1,500 tons per year commenced during 1956-57.

The works have their plans for the Second Five-Year Plan period, to increase the steel ingot capacity from 30,000 tons to 1,00,000 tons and ferro-silicon production to 20,000 tons. A scheme for the manufacture of tool and alloy steel, stainless steel sheet and silicon steel is under consideration.

The labour employed: monthly rated about 1,800 and daily rated about 6,500.

Director and Vice-Chairman, M. D. Shivanappa, I.A.S.

General Managers: T. Krishnappa, M.Sc. (Met); B. Seshadri Sharma, B.E.

THE NATIONAL NEWSPRINT AND PAPER MILLS LIMITED

(Nepanagar, Nimar Dist., Madhya Pradesh).

The mills are situated on the main line Bombay-Itarsi, about 27 miles from Khandwa and 17 miles from Burhanpur.

The Company is a limited concern with about 10,000 shareholders. The major portion of the investment, however, has been raised by way of loans from the Government of M.P. and the Central Government through the M.P. State Government.

It has now been decided to convert the greater portion of these loans to share capital.

The construction of the mill started in 1948, and the installation of the Paper Machine and Ground Wood Mill was completed by January 1955. The mill had a trial run on 11th January 1955 for the first time manufacturing newsprint from indigenous groundwood pulp and the imported chemical pulp.

The Chemical Plant was put into commission and newsprint manufactured from cast per cent indigenous raw materials on 29th December 1955.

The rated capacity of the plant is 100 tons per day. Present production is 77 tons a day. Production is being gradually stepped up with a view to reaching the target production.

The production during 1957-58 was 14,244 tons.

The total revenue from sales during 1957-58 was Rs. 129.35 lakhs.

The Project has cost about six crores of rupees. Total loss upto March 31, 1957: Rs. 1,40,00,000.

1,141 workers are working on monthly wages.

At the head is a Board of Directors who are elected at the annual general meeting of the Company by the shareholders.

Chairman, Board of Directors, Sir A. Ramaswami Mudaliar.

Managing Director, S. L. Visvanathan.
Works Manager, S. R. Krishnaswami.

SIRPUR PAPER MILLS LTD.

(Sirpur-Kaghasnagar, Central Railway, Andhra Pradesh).

The managing agents are Messrs. Birla Brothers (Private) Ltd., 8, India Exchange Place, Calcutta; and the registered office is at Ali Villa, Somaiguda, Hyderabad.

Production started in 1942. The total capacity of the mill is 18,000 tons per year and actual

production in 1956-57 was 17,400 tons. The mill employs about 2,100 workers. The authorized capital of the company is Rs. 8.85 crores, issued capital Rs. 2.91 crores and the paid-up capital Rs. 2.59 crores.

For the year ended 30th June 1957, the profit was Rs. 33.59 lakhs.

The Company had on hand plans to raise production capacity to 100 tons a day by the end of 1958.

Chairman, Board of Directors, G. P. Birla.

THE SIRSILK LTD.

(Sirpur-Kaghasnagar, Central Railway, Andhra Pradesh).

The managing agents are Messrs. Birla Brothers (Private) Limited, 8, India Exchange Place,

Calcutta; and the registered office is at Ali Villa, 6-3-655, Somaiguda, Hyderabad.

The authorized capital is I. G. Rs. 10.80 crores, issued and subscribed capital I. G. Rs. 3.20 crores, and called and paid-up capital I. G. Rs. 3.02 crores.

The profit and loss account for the year ended September 30, 1957 shows a gain of Rs. 49,370. The working of the year 1959 has also shown an improvement.

The capacity is five tons of yarn at present (September 1958) and the company has obtained a licence to raise the capacity to ten tons. Out of the 480 looms received, 470 were installed and were working on double shift (September 1958).

Chairman, Board of Directors, G. P. Birla.

ANDHRA PRADESH

THE ANDHRA PAPER MILLS (Rajahmundry)

The capital investment was Rs. 25 lakhs and production capacity is 10 tons a day. The Government proposes to increase the present production capacity of the Mills from 2,000 tons to 8,000 tons of paper a year at a total capital cost of Rs. 190 lakhs during the Second Five-Year Plan period. It has also been proposed to manufacture better quality of paper. A sum of Rs. 20 lakhs was provided in the State plan for 1958-59 for the purchase of equipment required to increase the production.

THE GOVERNMENT CERAMIC FACTORY (Gudur, Nellore Dist.).

The Government Ceramic Factory, Gudur is at present confined only to the production of crockery and sanitary ware. It is proposed to expand the factory during the 2nd Plan period at a total cost of Rs. 12.60 lakhs in order to take up the manufacture of Electrical Insulators as additional line of production, to meet the requirements of the Government Electricity Department, etc.

The construction of additional buildings has been completed. The tunnel Kila which comprises the most important item has been imported from the United Kingdom and is being erected.

HYDERABAD TANNERIES LTD. (Hyderabad).

The investment is Rs. 13 lakhs. The production is temporarily suspended. The issue of reorganisation is under active consideration for hitting the targeted production envisaged in the tannery.

PRAGA TOOLS CORPORATION (Hyderabad).

The authorised capital is Rs. 1.35 crores. The Union Government has agreed to invest another Rs. 75 lakhs to Rs. one crore for expanding the production which includes setting up of a modern foundry and a heavy forge shop.

It produces machine tools and accessories, precision tools, automobile parts, diesel parts, railway duplicates and accessories.

The present production is about Rs. 60 lakhs. The target for 1959 is Rs. 90 lakhs. The investment would be: Andhra: Rs. 47.57 lakhs; public: 18.35 lakhs; India Government: Rs. 70 lakhs.

THE SRI VENKATESWARA STRAWBOARD MILLS (Tirupati).

This was originally a private company which the State Government has purchased. It has been proposed to start the Sri Venkateswara Strawboard Factory at Tirupati as a State enterprise at an estimated cost of Rs. 10.35 lakhs during the Second Plan period with a production capacity of 10 tons of strawboard per day.

The Government have sanctioned Rs. 16,000 towards repairs to the existing buildings and Rs. 96,000 for the construction of new buildings.

A sum of Rs. 1,23,000 has also been sanctioned towards purchase of part equipment.

ASSAM

GOVERNMENT SHELLAC FACTORY

(Chaparmukh, Nowgong).

The factory was started in 1954 as a relief measure for the Mikir tribesmen growing lac. The capital outlay is Rs. 2.5 lakhs. It handles 2,000 maunds of raw lac a year and provides work for 30 labourers with five on the establishment side. The target is 15,000 maunds a year.

BIHAR

BIHAR STATE SUPERPHOSPHATE FACTORY

(Sindri).

The factory went into production in April 1954.

Capacity of production: Single superphosphate—15,000 tons per annum.

Installed capacity of plants: (i) 240 tons superphosphate per day; (ii) 25 tons sulphuric acid 98 per cent per day.

Total investment: Rs. 65 lakhs.

No. of workers expected to be employed: About 100.

At present State-owned, but may be made a private limited company.

The factory is capable of producing 240 tons of superphosphate per day or about 70,000 tons per annum of 300 working days, provided an additional 50-ton per day capacity sulphuric acid plant is installed. There is provision for the establishment of an acid plant utilising pyrites in the Second Five Year Plan. Most of the super-

phosphate produced in the first stage will be consumed within Bihar, but supplies are also being made to neighbouring States.

The First Five-Year Plan had an allotment of Rs. 54.55 lakhs for the factory. The Second Five-Year Plan has allotted Rs. 20 lakhs for the expansion of the factory.

Works Manager, B. A. Sundara Moorthy, B.E., A.M.I.E. (Ind.); *Senior Works Chemist*, R. Jagannathan, M.A., A.R.I.C., A.M.I.Chem.E.; *Chief Engineer*, S. Kumar, B.Sc. (Eng.).

JAMMU & KASHMIR

GOVERNMENT DRUG RESEARCH LABORATORY

(Canal Road, Jammu).

The Laboratory was started in 1943. Total investment is Rs. 18 lakhs. The number of persons employed is 300. The present production is valued at Rs. 12 lakhs and the Second Five-Year Plan target is Rs. 15 lakhs.

GOVERNMENT DRUG RESEARCH LABORATORY

(Raj Bagh, Srinagar).

The Laboratory was started in 1956. Total investment is Rs. 10 lakhs and the number of

persons employed is 100. The present production is valued at Rs. 3 lakhs and the Second Five-Year Plan target is Rs. 15 lakhs.

GOVERNMENT SILK WEAVING FACTORY (Raj Bagh, Srinagar).

The factory was started in 1938-39 with 33 looms and 1,872 spindles. It is now equipped with 124 looms and an up-to-date Throwing Plant of 5,616 spindles.

Total investment: Rs. 12.94 lakhs odd. The factory employs 559 persons (479 labour and 74 establishment).

The present production is four lakh yards per annum. The target for the Second Five-Year Plan is six to seven lakh yards.

GOVERNMENT WOOLLEN MILLS

(Srinagar, Kashmir).

The mill was started on 7th December 1950. The total investment is Rs. 18,49,534. The number of persons employed is 500. The average monthly production on the basis of 1957 working is—cloth 12,566 yards and yarn 83,798 lbs. The Second Five-Year Plan target is 1 lakh lbs. of yarn per year.

KERALA

GOVERNMENT CERAMIC CONCERNS

(Kundara, Quilon Taluk).

The factory was started in 1940 and has been functioning under direct management of Government. The factory consists of two sections, viz. (1) The mining and refining of China Clay and (2) The manufacturing section.

China clay is mined in the vicinity by open cast system from a deposit averaging upto 60 ft. from the ground level. There are very few places in India where such superfine china clay of equally good quality is available. China clay produced at Kundara is being supplied mainly for use in textile, paper, pottery and rubber industries, throughout India.

In the manufacturing section a good variety of electrical goods, refractories, pipes, etc. are being produced.

Total investments: Present factory—Rs. 13,40,329 (at the end of 1955-56); New factory—Rs. 32,43,865 (at the end of 1955-56).

The factory produces porcelain, crockery goods, refractories, etc.

GOVERNMENT HYDROGENATION FACTORY

The work on the building was started in 1949 and completed in 1953. An expenditure of Rs. 17,63,400 has been incurred for the factory. The production capacity of the plant is 15 tons per day.

GOVERNMENT OIL FACTORY

(Kozhikode).

Regular operation of this factory started from the year 1948. The capital invested by the Government comes to about Rs. 4,55,541-15-8. The Oil Chemist is in immediate charge of this Institute. The Director of Industries & Commerce has the overall control. Various types of oils as Seagold Adamine, Stayit are manufactured here.

KERALA SOAP INSTITUTE

(Kozhikode).

Regular operation in this institute began in the year 1923. The institute manufactures several varieties of toilet soaps including the Kerala Sandalwood, Rose soaps etc. as also Wash-well and other varieties of bar soaps. The work of training of students in soap making is also undertaken.

The capital investment alone comes to Rs. 7,10,856-0-5.

The capacity of the factory is about 450 tons per annum. But it is now being increased. The Oil Technologist is in immediate charge of the Institute. The Director of Industries & Commerce has an overall control. Agents have been appointed in all parts of India.

S.K.V.G.A. PHARMACY

(Trichur).

S.K.V.G.A. Pharmacy, Trichur, functions as a commercial concern under the Director of Indigenous Medicines.

Main products manufactured in the pharmacy are Ayurvedic Medicines, viz. Asavams, Arishtams, Thylams, Lahyams, Ghritams, Pills and Choorams, etc., etc.

SHARK LIVER OIL FACTORY

(Trivandrum).

This factory was started by the University of Travancore and was functioning from the end of 1950. Government has invested Rs. 2 lakhs in the factory. The main products manufactured in the factory are: (1) First Grade Shark Liver Oil (Sharliverpill) 5,000 units per gram; (2) Second Grade Shark Liver Oil 2,000 to 3,000 per gram; (3) Stearine and fish oil soap.

The factory has an installed capacity of 10,000 gallons and production is being increased by new methods of manufacture.

KERALA GOVERNMENT CERAMICS

This is a new factory commissioned in January 1957. The capital invested is about 35 lakhs. This is a scheme completed under the First Year Plan of the State. The production of white ware hitherto attended by the Ceramic Factory has been taken over by the new Concerns. The latest type of Electric Double Tunnel Kiln has been installed in this factory, and quality goods, mainly tea sets are being produced.

PALLATHRA BRICKS & TILES LTD.

(Kottayam District, Kerala).

(A Kerala State Government Company under section 617 of the Companies Act.)

Capital: Rs. 11 lakhs (51 per cent of the share capital to be subscribed by Kerala Government).

Labour: About 350 workers.

Probable date of commencement of production: Beginning of 1959.

Initial target: 20,000 bricks per shift of 8 hours in one unit. Only one unit is proposed to be started now.

TRAVANCORE MINERALS PRIVATE LTD.

Head Office: Quilon, Kerala State.

Works: Chavara, Quilon Dt., Kerala State.

Date when started: January 1952—successors of Travancore Minerals Company, a private limited company incorporated in England; fully nationalised in June 1949. Pioneers in beach mineral dressing.

Total investments: Rs. one crore.

Present production: Ilmenite—800 tons and two tons rutile per day. Also monasite.

The present set-up of the Company consists of a Board of three Directors, one representing the Government of India, one the Kerala State, and the Chairman being nominated by the Government of India.

This new set-up commenced functioning in May 1957. The Company is being administered by a Chief Administrative Officer, Lt.-Col. J. N. Satchi, formerly of the Defence Department,

Government of India. A reorganisation of the industry has recently been undertaken by the present Board of Directors.

Second Five-Year Plan target: No scheme for the expansion of the production schedules of ilmenite and monasite is included in the Second Five-Year Plan. A scheme for the production of rutile with the latest type machinery is however included in the Plan with a physical target of 7,000 tons at an estimated expenditure of Rs. 12.86 lakhs. A High Tension Electro-Static Separator from Florida, U.S.A., has been received.

TRAVANCORE PLYWOOD INDUSTRIES

This is a factory started as a Public Company with Government support. Finally in 1947, Government purchased all the shares of the company and became sole proprietor. The Capital investment in buildings and machinery is about Rs. six lakhs. The factory is now mainly producing plywood for tea chests. The installed capacity of the machinery for the production of plywood is 3 million a ft. of 4 m m. plywood a year. The soft wood logs required for the manufacture of plywood are being delivered to the factory by the Forest Department. The tea chest panels now produced in the factory find ready sales. Commercial plywood also is in good demand.

TRAVANCORE RUBBER WORKS

(Chackal, Trivandrum 7).

The factory was started on 17th August 1935 as Travancore Govt. Rubber Factory (later leased to the Travancore Cables & Rubbers Ltd. from January 1937 to March 1938). Subsequently the factory was working on partnership basis between the Travancore Government and Sir Chinubhai Ranchodlal Madhwalal from 10-2-1940 to 8-10-1949. The concern was finally taken over by the Govt. of Travancore-Cochin on 9-10-1949.

The capital investment by the Government as per balance sheet on 31st March 1957 is Rs. 8,60,700. The factory consumes about half to three quarter ton of raw rubber per day and the production capacity is about two tons of goods worth Rs. 4,000 to Rs. 5,000 per day.

The factory employs about 271 persons: Staff 51 including officers and peons. Watchmen 8. Workers 212 (26 on monthly wages and 186 on daily wages).

The production capacity of the factory is 25,00,000 lbs. per year.

The main products manufactured in the factory are cycle tyres and tubes, sheeting pure single and double insertion and mottled, hoses armoured, suction, plain, radiator, bent, etc. of different specifications, tubing, valve tubes, rings, bushes, abonite, rods, sheets, etc., latex sponge and latex foam cushions.

Under the Second Five-Year Plan there are two schemes: 1. A cycle rim plant is under construction. 2. A scheme of modernisation of the present equipment and expansion of production programme of cycle tyres, tubes, sheetings, hoses, latex goods, moulded goods, etc., has also been taken up. Increased output of up-to-date finished goods and increased profits are expected by the mechanization and modernization.

MYSORE

THE GOVERNMENT CENTRAL INDUSTRIAL WORKSHOP

(Post Office Road, Bangalore).

Established : 1897.

Capital invested : Rs. 16,77,176 (including additional capital under expansion schemes)

No. of persons employed : 210.

Annual outturn : Rs. 4,30,721

The process of shifting the factory to new premises and amalgamating the mechanical department of the Government Electric Factory with it is under way. The scheme is estimated to cost Rs. 9.5 lakhs. The shifting was expected to be completed by the middle of 1954. A production target of Rs. 16 lakhs per annum is expected to be reached by the end of the Second Five-Year Plan.

GOVERNMENT ELECTRIC FACTORY

(Mysore Road, Bangalore).

Established : 1939.

Capital invested : Rs. 140 lakhs

No. of persons employed : 1,014.

Annual outturn : Rs. 40 lakhs

A scheme is under way to expand the factory during the Second Five-Year Plan and a sum of Rs. 125 lakhs has been granted by the Centre under the Central Aid Scheme. Negotiation for collaboration of the factory with a famous engineering firm, Messrs. A. E. G. Germany, has been concluded. The expansion scheme envisages (1) production of transformers of capacities up to 10,000 KVA and of voltage rating up to 66,000 volts, recording an annual output of 200,000 KVA. (2) restarting the manufacture of electric motors with a capacity up to 250 hp and the ultimate annual output of 60,000 hp and (3) manufacture of switch-gear like the iron clad switches, a variety of fuse

cartridges, group operated isolators, oil circuit breakers, etc. up to a rupturing capacity of 250,000 KVA and voltage rating up to 33 KV.

GOVERNMENT PORCELAIN FACTORY

(Malleswaram, Bangalore).

Established : 1932.

Capital invested : Rs. 70,70,600.

No. of persons employed : Regular 520, Casual 500.

Annual outturn Rs. 1,30,967 ; Electro-porcelain : 300 tons ; Crockery : 24 tons.

The Government Porcelain Factory is the only State-owned industry of the type in India. In order to meet the growing demand for insulators, bushings, etc., an expansion scheme estimated to cost about Rs. 84 lakhs is under way in technical collaboration of Messrs. Nippon Gaiishi Kaisha Ltd., Nagoya, Japan. This scheme envisages an output of 2,500 tons of production per annum. Since this scheme could not be completed within the end of the First Five-Year Plan, it had to be included in the Second Five-Year Plan.

GOVERNMENT SANDALWOOD OIL FACTORY

(Mysore South & Shimoga Town).

Established : 1916

Capital : Rs. 24,12,000

Number of persons employed : About 166

Annual output : 1,40,000 lbs of sandalwood oil Rs. 1,36,463

A programme of replacing the existing equipment and machinery by up-to-date and modern ones is in hand. Details are being worked out. It is also proposed to develop the factory at Shimoga into a full-fledged and self-contained unit

GOVERNMENT SOAP FACTORY

(Rajajinagar, Bangalore).

Established : 1918.

Capital invested : Rs. 19,15,000.

No. of persons employed : 166.

Annual outturn : Rs. 32,59,348.

The factory shifted to its new premises at Rajajinagar, Bangalore's industrial suburb, in March 1957 ; is expected to produce 1,500 tons of soap per year which can be further increased to 3,000 tons. A glycerine recovery plant and a rectification plant are also being erected in the new premises. This will have an output of 75 tons of chemically pure glycerine a year.

MYSORE GOVERNMENT SILK WEAVING FACTORY

(Mysore).

Established : 1932.

Capital invested : 11,41,823.

Number of persons employed : 212.

Annual outturn : Rs. 9,74,079.

MYSORE IMPLEMENTS FACTORY

(Hassan).

Established : 1939.

Capital invested : Rs. 16,54,000.

No. of persons employed : 254

Annual output : Rs. 941,000

A scheme for mechanisation and development of the factory with a capital cost of Rs. 14 lakhs is being executed

INDIA'S FOREIGN LIABILITIES AND ASSETS

THE following section presents the results of a survey made by the Reserve Bank of India in 1956 and 1957

The results of a more detailed survey made in

1955 are given in the second half of this article in several respects. But they do provide a broad indication of the trends during the year. It should be noted that reliable estimates of foreign investments can be provided only for 1956. The available data for 1957 are incomplete. Below we give three tables which sum up the position as at the end of 1956

INDIA'S OVERALL INVESTMENT POSITION*

(Rupees crores)

	Liabilities			Assets			Net Position		
	1955	1956	1957	1955	1956	1957	1955	1956	1957
Private (Non-Banking)	470	506	555†				(-) 470	(-) 506	(-) 555
Banking	57	61	48	55	52	62	(-) 2	(-) 9	14
Official	209	220	455	1,171	955	725	971	735	270
TOTAL	727	787	1,058	1,226	1,007	787	499	220	(-) 271

* The figures are not strictly comparable with those published in the Report on the Survey of Foreign Liabilities and Assets, 1955. For the private (Non-Banking) sector, no estimates have been made for foreign liabilities (other than business investments), and for foreign assets. This does not perhaps affect the overall position significantly as these two items are probably of the same magnitude and thus cancel out each other. The figures for banking and official sectors cover the position both on short-term as well as long-term account

† A tentative estimate

NON-BANKING FOREIGN BUSINESS INVESTMENTS AS AT THE END OF 1946

(Lakhs of Rupees)

	DIRECT INVESTMENTS			PORTFOLIO INVESTMENTS			Total Business Investments
	Foreign Branches	Controlled Indian Companies	Total	Equity	Creditor	Total	
MANUFACTURING							
Automobiles and Accessories		23	23	82	23	1,05	1,28
Buildings and Building Materials	2,13	3,12	5,25	24	9	33	5,58
Cement				1,32	5	1,37	1,37
Cigarettes and Tobacco		24,87	24,87	14	2	16	25,03
Electrical Goods	5,06	9,03	14,09	1,55	14	1,69	15,78
Engineering—Mechanical	2,13	23	2,36	38		38	2,74
Engineering—Steam and Hydraulic		23	23	4	1	5	28
Food Products including Vegetable Oils		2,52	2,52	62	8	70	3,22
Heavy and Light Chemicals	4	50	54	73	18	91	1,45
Iron and Steel Products		5,09	5,09	1,71	11,73	13,44	18,53
Jute and Coir Goods	8,97	68	9,65	2,66	58	3,24	12,89
Machinery and Machine Tools	27	86	1,13	3,31	11	3,42	4,55
Matches		2,27	2,27				2,24
Medicines and Pharmaceuticals	1,43	5,43	6,86	92	51	1,43	8,29
Mineral Oils and Products	9,95	25,36	35,31		15	15	35,46
Paints and Varnishes		1,69	1,69	13	29	42	2,11
Printing Inks		25	25	1	3	4	29
Printing and Publishing	49	13	62	6		6	68
Railway Equipment and Stores		78	78	27	2	29	1,07
Rubber Goods		6,96	6,96	50	16	66	7,62
Ship Building including Marine Equipment	31	1,80	2,11	22		22	2,33
Soap		5,86	5,86	4	6	10	5,96
Stationery and Office Fixtures	1	1,05	1,06	39	59	98	2,04
Woolen and Silk Textiles		45	45	25	5	30	76
Others	5,40	9,24	14,64	9,30	44	9,74	34,38*
Total	36,19	108,63	144,82	25,68	15,52	41,20	186,02
TRADING							
Automobiles and Accessories		8	8	24		24	32
Cotton Goods	33	2	35	17		17	52
Electrical Goods	1,56	78	2,34	2		2	2,36
Exporters and Importers	2,94	2,13	5,07	18	40	64	5,71
Food Products including Vegetable Oils	1,11	9	1,20				1,20
Heavy Chemicals		1,35	1,35	5		5	1,40
Iron and Steel Products	8	96	99	3		3	1,02
Jute and Coir Goods	32	23	55	3	1	4	59
Machinery and Machine Tools	4,83	1,46	6,29	58	70	1,28	7,57
Medicines and Pharmaceuticals	55	9	64	5		5	69
Mineral Oils and Products	78,94	1,43	80,37	12	4	16	69
Motion Pictures	26	1	27	4		4	31
Railway Equipment and Stores		18	18				18
Stationery and Office Fixtures	55	31	86	5		5	91
Soap		4	4				4
Watches and Clocks		15	15				15
Others	4,77	76	5,53	49	7	56	6,09
Total	98,19	10,07	108,26	2,05	1,28	3,33	109,59
UTILITIES AND TRANSPORT	48,55	2,43	50,98	2,96	5,57	8,53	59,51
MINING							
Coal	2,24	2	2,26	1,14	9	1,23	3,49
Gold		2,15	2,15	1		1	2,16
Others	4,32	34	4,66	52		52	5,18
Total	6,56	2,51	9,07	1,67	9	1,76	10,83
FINANCIAL (excluding Banking)							
Holding Companies	1	1,14	1,15	1,26	73	1,99	3,14
Life Insurance	4,93		4,93	45		95	5,88
Others (mainly Investment Cos.)	76	11,06	11,82	7,22	8	7,30	19,12
Total	5,70	12,20	17,90	9,43	81	10,24	28,14
PLANTATIONS							
Tea	81,07	68	81,75	5,73	10	5,83	87,58
Other Plantations	9	4	13	44	7	51	64
Total	81,16	72	81,88	6,17	17	6,34	88,22
MISCELLANEOUS							
Managing Agency	1,95	15,86	17,81	3,06	2,05	5,11	22,92
Professions and Services	4	10	14	1		1	15
Travel, Steamship, etc. Agents	5	8	13	2		2	15
Others				53	24	77	77
Total	2,04	16,04	18,08	3,62	2,29	5,91	23,99
GRAND TOTAL	276,39	152,60	428,99	51,58	25,73	77,31	506,30

* Includes 8,27 for 'Cotton Goods' and 3,42 for 'Sugar'.

NON-BANKING FOREIGN BUSINESS INVESTMENTS AS AT THE END OF 1966 COUNTRY-WISE/TRADE GROUP-WISE

(Lakhs of Rupees)

	Manufacturing	Trading	Utilities & Transport	Mining	Financial	Plantations	Miscellaneous	Total
United Kingdom								
Direct Investments								
(a) Foreign Branches ..	31.53	67.03	48.51	6.54	4.11	31.14	3.01	240.87
(b) Controlled Indian Cos. ..	87.57	7.44	2.27	2.62	7.97	78	14.98	123.21
Portfolio Investments ..	17.58	2.31	1.84	1.47	8.40	5.38	5.03	48.00
Total	136.68	76.78	52.62	10.63	20.18	87.30	21.99	404.08
United States								
Direct Investments								
(a) Foreign Branches ..	4.13	25.24	..	1	20	..	-1	29.57
(b) Controlled Indian Cos. ..	13.69	58	..	..	..	-1	10	14.86
Portfolio Investments ..	1.32	24	5	5	64	7	54	2.91
Total	19.14	26.06	5	6	84	6	63	48.84
Switzerland								
Direct Investments ..	2.26	3.38	..	..	8	..	-1	5.71
Portfolio Investments ..	2.46	..	1	2	-1	3	..	2.51
Total	4.72	3.38	1	2	7	3	-1	8.22
Germany								
Direct Investments ..	66	..	-1	..	..	-1	..	64
Portfolio Investments ..	2.12	..	..	..	..	..	..	2.12
Total	2.78	..	-1	..	..	-1	..	2.76
Other Countries								
Direct Investments ..	4.98	2.61	20	..	5.85	-2	1.01	14.63
Portfolio Investments ..	17.72	75	6.64	22	1.20	86	37	27.77
Total	22.70	3.37	6.64	22	7.05	84	1.38	62.40*
GRAND TOTAL	186.02	109.59	59.51	10.83	28.14	88.22	23.99	506.30

* Includes 16 from Japan, 4.17 from Pakistan, 14.82 from IBRD, 38 from Australia, 12 from Burma, 26 from Ceylon, 1.67 from Canada, 1.14 from Malaya and 20 from New Zealand.

FOREIGN LIABILITIES AND ASSETS OF THE BANKING SYSTEM 1955 TO 1967

(Lakhs of Rupees)

	As at the end of									Net inflow (+) or outflow of capital (-)	
	1955			1956			1957				
	Assets	Liabilities	Net Assets	Assets	Liabilities	Net Assets	Assets	Liabilities	Net Assets	1956	1957
U.K.*	23.33	24.30	9.03	31.83	29.89	1.94	35.39	14.20	21.19	+ 7.09	-19.25
U.S.A.	8.30	1.06	7.24	7.35	1.24	6.11	8.90	1.50	7.40	+ 1.13	- 1.29
Canada	38	99	- 61	26	32	- 6	44	30	14	- 55	- 20
Switzerland ..	17	1.77	- 1.60	56	50	6	41	1.79	- 1.38	- 1.66	+ 1.44
Japan .. ..	..	4	- 4	..	4	- 4	..	1	- 1	..	- 3
Germany	23	10	13	23	1	27	23	27	- 4	- 9	+ 31
Australia	15	7	8	11	9	2	25	7	18	+ 6	- 16
New Zealand ..	2	6	- 3	1	2	- 1	2	8	- 1	- 2	..
Pakistan	2.33	2.03	30	2.23	1.83	39	2.22	1.87	35	- 9	+ 4
Malaya	2.14	3.02	- 88	1.45	3.79	- 2.31	3.25	7.37	- 4.12	+ 1.43	+ 1.81
Ceylon	1.09	1.63	- 54	92	1.41	- 49	1.17	1.36	- 19	- 5	- 30
Burma	62	2.65	- 2.03	48	2.82	- 2.34	71	91	- 20	+ 31	- 2.16
Other Countries	6.33	19.29	-12.96	6.13	19.24	-13.11	6.54	18.07	- 9.53	+ 15	- 3.55
TOTAL	55.14	57.00	- 1.86	51.63	61.20	- 9.57	61.53	47.75	13.78	+ 7.71	-23.55

Sources :—Exchange control returns for all component items excepting for the following :

(a) export bills outstanding, (b) non-resident holdings of shares in Indian joint stock companies, (c) profit and loss account balances and fixed assets of branches of foreign companies and (d) fixed assets held abroad by Indian joint stock companies. For items (b) and (d) an estimate based on the Survey of Foreign Liabilities and Assets 1955 has been incorporated. Item (a) is based on returns obtained from banks in respect of outstanding foreign bills, etc; the country-wise breakdown is, partly estimated. Item (c) is derived from the annual Balance Sheets of branches of foreign companies.

* Investment 1956 : 150 million dollars. Average return : 12.8 per cent.

POSITION DURING 1956 AND 1957

During 1956, there was a net inflow of foreign business investments amounting to Rs. 38.4 crores in non-banking activities. This included Rs. 12.1 crores of IBRD loans utilized by steel and power companies in the private sector. Capital obtained from foreign private sources thus amounted to Rs. 24.3 crores.

This rate was more or less equal to the average annual inflow during July 1948-December 1953 and was higher than the average annual inflow of about Rs. 16 crores during 1954-55.

As in the past the inflow was mostly of the direct investment category (Rs. 23.7 crores), branches and subsidiaries of foreign companies receiving over 90 per cent of the capital. This amounted to Rs. 23.7 crores.

Petroleum and manufacturing activities continued to attract a major portion of the new investments.

The main investing countries, as before, were the U.K. and the U.S.A.

Available data indicate a net inflow of Rs. 48 crores during 1957. This figure is arrived at after allowing for Rs. 32 crores of IBRD loans and Rs. 3.5 crores of outflow connected with the nationalization of life insurance. Excluding these two items the inflow during 1957 would be Rs. 19 to 20 crores.

While this shows a reduction as compared to 1956, it is somewhat higher than the average annual rates for 1954 to 1955.

Movements in banking capital, which are mostly of a short-term character, recorded an inflow of Rs. 7.7 crores in 1956 but this trend was reversed in 1957 when there was a large outflow of Rs. 23.4 crores.

The movements in banking capital during 1956 and 1957 mainly affected the position *vis-à-vis* the U.K. Between 1956 and 1957 bank liabilities to the U.K. decreased by Rs. 15.7 crores while bank assets increased by Rs. 3.6 crores.

An easing of money conditions in India during the latter half of 1957 and increased cost of borrowing of foreign funds as a result of the high U.K. bank rate appear to have contributed to the substantial outflow of banking funds during 1957.

The years 1956 and 1957 witnessed major shifts in India's international investment position as a result of large payment deficits financed for the most part by drawings on the country's exchange reserves and by official borrowings from abroad.

At the end of 1955, India was a net creditor abroad to the extent of about Rs. 500 crores;

this was the net result of a *creditor* position of about Rs. 970 crores in respect of the official sector and a *debtor* position of Rs. 470 crores in respect of the non-official sector.

During the two years 1956 and 1957 the official sector's creditor position was reduced by about Rs. 700 crores, while the non-official sector's debtor position increased by Rs. 70 crores.

As a result of these changes, India's net creditor position of about Rs. 500 crores at the end of 1955 was converted into a *debtor* position of Rs. 270 crores.

INFLOW OF NON-BANKING BUSINESS INVESTMENTS (Country-wise 1956)

(Rupees crores)

U.K.	..	..	..	..	15.4
U.S.A.	..	..	..	..	7.1
Switzerland	..	..	..	..	1.6
Germany	..	..	..	..	0.2
Canada	..	..	..	..	0.3
Pakistan	..	..	..	..	(- )0.2
Malaya	..	..	..	..	(- )1.1
I.B.R.D.	..	..	..	..	12.1
Other countries	..	..	..	..	1.0
TOTAL	..	..	..	..	36.4

NET INFLOW OF NON-BANKING FOREIGN BUSINESS INVESTMENTS DURING 1956

(Lakhs of Rupees)

Activities	Branches	Controlled Joint-stock companies			Other companies	Total	
		Subsidiaries	Other controlled companies	Total		Controlled companies [Col (1) + Col. (4)]	All Companies
Manufacturing							
Automobiles and Accessories .. .. .	..	..	8	8	40	8	48
Cement .. .. .	..	9	..	9	32	9	32
Cigarettes and Tobacco .. .. .	..	63	-29	34	5	9	9
Electrical Goods	76	63	..	34	5	1,10	1,15
Food Products including vegetable oils .. .. .	..	-8	..	-8	8	-8	..
Heavy and light chemicals .. .. .	..	26	1	27	14	27	41
Iron and steel products .. .. .	..	41	49	90	8,20	90	9,10
Matches .. .. .	..	5	..	5	..	5	5
Medicines and Pharmaceuticals	17	47	2	49	-2	66	64
Mineral oils and products	1,22	5,83	..	5,83	..	7,05	7,05
Rubber Goods .. .. .	..	82	..	82	..	82	82
Soap .. .. .	..	34	2	36	..	36	36
Sugar	20	..	..	..	49	20	69
Others	46	96	16	1,12	-4	1,58	1,54
Total	2,81	9,78	49	10,27	9,62	13,08	22,70
Trading							
Exporters and Importers	64	2	6	8	..	72	72
Food Products including vegetable oils .. .. .	..	..	1	1	..	1	1
Iron and steel products	3	11	..	11	..	14	14
Jute and cuir goods	9	..	2	2	..	11	11
Mineral oils and products	5,10	-6	-1	-7	..	5,03	5,03
Others	1,10	17	-5	12	6	1,22	1,26
Total	6,06	24	3	27	6	7,23	7,29
Utilities and Transport							
Mining	2,31	..	22	22	3,93	2,53	6,46
Financial	1,28	1	-2	-1	-6	1,27	1,21
Others	-2	5	7	12	-49	10	-39
Plantations							
Tea	1,50	1	-11	-10	-8	1,40	1,32
Others	-25	..	-5	-5	..	-30	-30
Total	1,25	1	-16	-15	-8	1,10	1,02
Miscellaneous							
Managing Agency	13	-1,64	3	-1,61	-22	-1,48	-1,70
Others	-2	-10	..	-10	-8	-12	-30
Total	11	-1,74	3	-1,71	-30	-1,60	-1,90
TOTAL CAPITAL INFLOW							
	14,70	8,35	66	9,01	12,68	23,71	36,39

RESERVE BANK SURVEY OF 1955

The following section presents the main results of a Survey conducted by the Reserve Bank of India of the country's foreign liabilities and assets as at the end of 1955. Like the two previous enquiries in this field viz., Census of foreign liabilities and assets as on 30-6-1948 and Survey of foreign liabilities and assets as on 31-12-1953, this Survey provides an indication of the country's international investment position on long-term and short-term accounts as at the end of 1955 and an analysis of business invest-

ments from abroad, particularly in foreign-controlled enterprises.

This is a much more detailed and comprehensive survey than was attempted in 1948 or 1953 the results of which are outlined above.

Some 1,700 companies filed returns under the Survey. The data were supplemented by informa-

tion obtained from official agencies including the departments of the Bank.

India's total liabilities and assets at the end of 1955 amounted to Rs. 766.3 crores and Rs. 1,251.8 crores respectively, indicating a net creditor position of Rs. 485.5 crores.

This net creditor position was wholly due to the official sector, which had a net creditor position of Rs. 960.8 crores, the non-official sector showing a net debtor position to the extent of Rs. 475.3 crores.

TABLE 1.—INDIA'S INTERNATIONAL INVESTMENT POSITION (SUMMARY)

(Crores of Rupees)

Period	Liabilities			Assets			Net Position
	Short-term	Long-term	Total	Short-term	Long-term	Total	
OFFICIAL SECTOR							
30th June 1948	55.5	122.6	178.1	1,208.8	730.8	1,939.6	+ 1,761.5
31st December 1953	16.0	223.6	249.6	433.8	772.8	1,206.6	+ 957.0
31st December 1955	16.6	193.3	209.9	455.8	714.9	1,170.7	+ 960.8
NON-OFFICIAL SECTOR							
30th June 1948	38.4	287.7	326.1	11.5	57.6	69.1	- 257.0
31st December 1953	35.4	441.4	476.8	11.4	66.0	77.4	- 399.4
31st December 1955	50.0	506.4	556.4	16.4	62.7	81.1	- 475.3

The country-wise details show that India was a net creditor with respect to both the United Kingdom (Rs. 408.5 crores) and Pakistan (Rs. 289.5 crores), while it was a net debtor with respect to the U.S.A. (Rs. 104.7 crores) and most of the other countries. India's position vis-a-vis Burma was changed from that of a net creditor as at the end of 1953 to that of a small net debtor mainly on account of the settlement of Burmese debt of Rs. 48 crores during 1954-55.

TABLE 2.—INDIA'S INTERNATIONAL INVESTMENT POSITION (COUNTRY-WISE)

A fuller table appears below.

(Crores of Rupees)

Country	30th June 1948			31st December 1953			31st December 1955		
	Liabilities	Assets	Net Position	Liabilities	Assets	Net Position	Liabilities	Assets	Net Position
U.K.	298.2	1,501.2	+1,203.0	396.0	830.4	+434.4	443.6	852.1	+408.5
U.S.A.	20.2	15.3	- 4.9	125.9	43.7	- 82.2	140.6	35.9	- 104.7
Pakistan	64.8	323.5	+ 258.7	56.0	321.7	+265.7	50.7	330.2	+ 289.5
Burma	8.8	54.2	+ 45.4	4.9	51.6	+ 46.7	5.5	3.9	- 1.7
I.M.F./I.B.R.D.* ..	14.9	11.6	- 3.2	69.5	19.3	- 50.2	29.3	19.3	- 10.0
Others	95.3	13.7	- 81.6	74.2	17.3	- 56.9	96.6	20.4	- 76.2
Total	504.2	2,008.7	+1,504.5	726.5	1,234.0	+507.5	766.3	1,251.8	+ 485.5

Between 30-6-1948 and 31-12-1955, India's net creditor position was reduced by Rs. 1,019 crores as a result of a fall in assets of Rs. 757 crores and an increase in liabilities of Rs. 282 crores.

Most of this change occurred during the period prior to 1953. India's creditor position was reduced only to the extent of Rs. 72 crores between 31-12-1953 and 31-12-1955 as a result of a fall in assets of Rs. 32 crores and an increase in liabilities of Rs. 40 crores.

A large part of the decline in the net assets

of the country between 30-6-1948 and 31-12-1955 was accounted for by the official sector; its assets declined by Rs. 789 crores while its liabilities increased by Rs. 32 crores. At the same time, the net debtor position of the non-official sector increased by Rs. 218 crores; its foreign liabilities increased by Rs. 230 crores while its foreign assets showed a small rise of Rs. 12 crores.

Though India emerged as a net creditor country at the end of 1955 it is very likely that by the end of 1957 it has already become a net

debtor country as a result of the large reduction in the country's sterling assets and substantial additions to its liabilities to the U.S.A., the I.M.F. and the I.B.R.D.

The official sector comprises the Central Government, State Governments, port trusts, improvement trusts, local authorities and statutory corporations including the Reserve Bank of India.

The table on next page gives a comparative picture of the long-term official liabilities and assets as at the end of 1955 and 1953.

* Capital contributions in rupee securities have been omitted from both sides.

TABLE 2.—LONG-TERM LIABILITIES AND ASSETS OF THE OFFICIAL SECTOR

(Crores of Rupees)

Head	Assets*		Liabilities*	
	1953	1955	1953	1955
1. Government securities	246.5	244.7	41.5	39.7
2. (a) Loans (excluding (b) below) ..	—	—	117.6	114.5
(b) Dollars purchased from the I. M. F. out-	—	—	—	—
standing	—	—	47.6	6.0
3. Liabilities in respect of goods purchased abroad	—	—	0.3	7.0
4. Inter-Government debt due from Burma ..	48.2	—	—	—
5. Gold and dollar subscriptions to the I.M.F. and I.B.R.D.	16.9	16.9	—	—
6. Claim on the U.K. under the 1955 pensions settlement	53.3†	48.0	—	—
7. Others	7.9	5.3	5.9	5.4
Total	472.8	414.9	215.0	172.7

* Assets exclude Rs. 300 crores of partition debt due from Pakistan; Liabilities exclude Rs. 20.6 crores due to the U.K. by way of World War I loan, liability of which remains suspended. Both these items figure in Tables 1 and 2. † Claim as on 1st April 1955.

Two important changes have taken place during this period. On the assets side the inter-Government debt of Rs. 48.2 crores due from Burma was liquidated following certain arrangements reached with Burma in 1954. The debt was in the first instance scaled down to Rs. 20 crores, of which Rs. 15.6 crores was repaid by Burma in the form of rice shipments to India; the balance of Rs. 4.4 crores was treated as India's aid to Burma under the Colombo Plan.

As regards liabilities, India repurchased its currency from the I.M.F. to the extent of Rs. 41.6 crores. The balance of Rs. 6 crores outstanding on 31-12-1955 was repurchased in April 1956.

It may be recalled that this liability was incurred in 1948-49 when India purchased from the I.M.F. \$100 million in order to ease the pressure on its reserves. In accordance with the principle of maintaining the revolving character of the I.M.F.'s resources, India commenced repurchase transactions in March 1954 and completed the repurchase in five instalments.

Another item showing a significant change in the position as compared to 1953 was the increase in the outstanding credits in respect of goods purchased from abroad, to the extent of Rs. 6.7 crores.

TABLE 4.—LONG-TERM FOREIGN LIABILITIES OF BUSINESS ENTERPRISES AS ON 31ST DECEMBER 1955

(Trade-wise Summary)

(Crores of Rupees)

Head		BUSINESS INVESTMENTS							MISCELLANEOUS LIABILITIES							Total Business Investments
		Direct Investments				Total Direct Investments	Portfolio Investments			Loans and Advances			Insurance liabilities	Total	Total Business liabilities	
		Controlled Joint-stock companies					Equity Capital	Creditor Capital	Total Portfolio	Subsidiaries	Other controlled companies	Other companies				
		Branches	Subsidiaries	Other controlled	Total											
Manufacturing	.. ..	33.4	91.1	7.3	98.4	121.7	24.1	7.5	31.6	11.5	0.4	3.4	..	15.2	178.5	163.3
Trading	.. ..	89.2	7.8	2.1	99.0	99.0	2.0	1.3	3.3	0.9	0.8	0.1	..	1.8	104.1	102.8
Utilities and transport	.. ..	46.2	..	2.2	48.5	48.5	3.0	1.6	4.6	..	..	..	..	..	63.1	53.1
Mining	.. ..	5.3	1.7	0.8	7.8	7.8	1.7	0.1	1.8	..	..	..	..	..	9.7	9.6
Financial	.. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(a) Banking	.. ..	15.4	..	..	15.4	15.4	4.7	..	4.8	..	..	..	..	..	20.2	20.2
(b) Others	.. ..	3.7	8.4	3.7	15.8	8.4	9.6	1.1	10.7	..	0.1	0.2	23.0	23.2	42.4	19.1
Plantations	.. ..	70.9	0.6	0.3	71.8	80.8	6.3	0.2	6.4	..	..	..	..	..	87.2	87.2
Miscellaneous	.. ..	1.9	9.8	7.9	19.6	19.7	3.9	2.3	6.2	0.6	0.1	0.2	..	0.9	26.8	25.9
Total	.. ..	267.7	119.4	24.2	411.3	411.3	55.3	14.1	69.4	13.0	1.3	3.9	23.0	41.2	521.9*	480.6

* This would be equal to the long-term liabilities of the Non-official sector shown in Table 1 plus direct investment under "Banking" which for the purpose of Table 1 is treated as short-term liabilities.

TABLE 5.—LONG-TERM FOREIGN LIABILITIES OF BUSINESS ENTERPRISES AS ON 31ST DECEMBER 1955

(Country-wise Summary)

(Crores of Rupees)

Head	U.K.				U.S.A.				Switzerland				Germany				Other Countries			
	Direct	Portfolio	Miscellaneous	Total	Direct	Portfolio	Miscellaneous	Total	Direct	Portfolio	Miscellaneous	Total	Direct	Portfolio	Miscellaneous	Total	Direct	Portfolio	Miscellaneous	Total
Manufacturing	111.0	17.3	7.1	135.4	13.5	1.3	4.1	18.9	2.1	2.3	0.6	5.0	0.6	2.0	0.1	2.6	4.7	8.7	3.2	16.6
Trading	71.8	2.3	1.3	74.9	23.1	0.3	0.1	23.4	2.1	..	..	2.1	..	..	..	..	2.5	0.7	0.4	3.7
Utilities & Transport	48.2	1.8	..	50.1	..	0.1	..	0.1	..	..	..	..	..	..	..	..	0.2	2.7	..	2.9
Mining	7.8	1.5	..	9.3	..	0.1	..	0.1	..	..	..	..	..	..	..	..	..	0.2	..	0.2
Financial	9.4	12.6	0.9	22.9	1.6	0.7	..	2.3	0.1	..	0.1	0.2	..	..	..	..	13.8	2.3	22.2	37.3
Plantations	80.8	5.5	..	86.3	..	0.1	..	0.1	..	..	..	..	..	..	..	..	..	0.9	..	0.9
Miscellaneous	17.4	5.2	0.9	23.5	0.1	0.5	..	0.6	..	..	..	..	..	..	..	..	2.2	0.4	..	2.7
Total	345.8	46.2	10.2	402.2	38.3	2.9	4.2	45.4	4.2	2.4	0.8	7.4	0.6	2.0	0.1	2.6	22.4	15.9	23.9	64.3

Data in respect of foreign liabilities of business enterprises in India comprise (a) the net position of branches of foreign-incorporated companies which is a composite of short-term and long-term obligations, (b) all the long-term obligations of Indian joint-stock companies such as shares, debentures and loans and advances.

These liabilities have been classified under three heads, viz., direct investments, portfolio investments and miscellaneous obligations.

Where foreign investments are accompanied by control and direction of the enterprises by foreign investors, such investment may be said to belong to the direct category.*

Portfolio investments comprise ordinary shares held by non-residents, other than those treated as direct-controlled, as well as preference shares and debentures held by all non-residents.

Miscellaneous obligations represent loans and advances, including inter-company, inter-branch balances, and liabilities to non-residents in respect of life and non-life insurance policies.

The combined total of direct and portfolio investments is regarded as business investments.

Total liabilities of business enterprises (*vide* table 4) as at the end of 1955 aggregated Rs. 522 crores of which business investments amounted to Rs. 481 crores.

The latter was predominantly in the form of branch investments and equity holdings while creditor capital amounted to only about 3 per cent of the total.

The bulk of the investments was of the direct category, portfolio obligations being less than 15 per cent of the total.

There are some striking differences with regard to the distribution of each type of business investment among the different business activities. The foreign branches have largely invested their capital in trading, utilities and transport, and plantations. Direct-controlled joint-stock companies, especially the subsidiaries, have concentrated their investments mainly in the manufacturing sector.

Britain continued to occupy the predominant position amongst creditor countries (*vide* table 5). Liabilities to the U.K. at the end of 1955 exceeded Rs. 400 crores or 77 per cent of the total of foreign business liabilities.

The U.S.A. accounted for some Rs. 45 crores of capital a large part of which was invested in petroleum activities.

The remaining countries taken as a whole provided Rs. 74 crores of which nearly one-half represented financial liabilities.

The long-term foreign assets of the Indian joint-stock companies as on 31-12-1955 amounted to Rs. 54 crores.

The banking and insurance companies accounted for Rs. 15 crores of this total, while other joint-stock companies had invested abroad Rs. 39 crores.

The holdings were mainly in the form of ordinary shares and immovable property (Rs. 19.2 crores), Government securities (Rs. 18.9 crores) and inter-company balances and loans and advances, etc. (Rs. 12.8 crores).

A considerable portion of the assets represented claims on the U.K. (Rs. 20.0 crores) and Pakistan (Rs. 17.6 crores); the rest of the assets

were distributed among a large number of countries.

Comparing the figures compiled under the present Survey with those under the Survey for 1953 it will be seen that foreign-held business investments in India showed an increase of Rs. 61 crores during the two years, and stood at Rs. 481 crores on 31st December 1955 (*vide* table 6). Since during this period some valuation changes have also taken place, the difference of Rs. 61 crores mentioned above does not correspond to the net movement of capital. Such valuation changes can affect the balance sheet values of both fixed and floating assets.

In the recent period valuations were largely confined to the tea companies. During 1954-1955, the tea companies resorted to revaluation of their fixed assets to an unusual extent and as a result, the foreign investments in this sector were written up by as much as Rs. 20 crores. The revaluation of the fixed assets in the other industries, however, appears to be of a small order to the extent of not more than Rs. 2 crores at the most.

Valuation changes in respect of the floating assets are likely to be significant only during times of substantial price movements. The years 1953 to 1955 were a period of price stability, at any rate, for raw materials and manufactured goods, which constitute the bulk of the floating assets of business concerns. It appears that the valuation changes in respect of floating stocks are unlikely to have influenced the changes in the levels of foreign business investment to any significant extent between 1953 and 1955.

TABLE 6.—FOREIGN BUSINESS INVESTMENTS

The following table shows the position for 1948 as on 30th June and for 1953 and 1955 as on 31st December.

	(Crores of Rupees)		
	1948	1953	1955
Manufacturing	72.0	135.7	163.3
Trading	64.4	94.8	102.3
Utilities & Transport ..	31.2	50.5	53.1
Mining ..	11.5	8.4	9.6
Financial			
(a) Banking ..	31.7	16.2	20.2
(b) Others ..	6.9	14.7	19.1
Plantations ..	52.3	71.5	87.2
Miscellaneous ..	17.7	27.7	25.9
Total ..	287.6	419.6	480.6

Adjusting for valuation changes, the net change in the foreign business investment would be of the order of Rs. 39 crores as against the unadjusted figure of Rs. 61 crores. Excluding from the total some Rs. 4 crores of banking capital, which is mostly in the nature of liquid and floating assets, the non-banking business investments would amount to Rs. 35 crores.

The available data do not permit an accurate estimation of the gross movements of capital in respect of non-banking business enterprises. However, a rough estimate of the cash transfers inward and outward, and net accumulation of earnings by foreign investors in India has been made; deducting this estimated figure from the total figure for the investments in the non-banking enterprises an estimate mainly of investments in kind has been obtained.

Cash transfers on account of repatriation of foreign investments are estimated at Rs. 10 crores while inward remittances for investment purposes amounted to about Rs. 8 crores giving a net outflow of funds of Rs. 2 crores. As regards the retained earnings, it would appear that there was a net inflow of foreign capital of Rs. 23 crores; the residual capital inflow in investments in kind etc. must therefore have been of the order of Rs. 19 crores.

Table 7 compares the 1954-1955 pattern of capital inflow with the corresponding pattern relating to the period July 1948-December 1953.

TABLE 7.—PATTERN OF CAPITAL INFLOW (Crores of Rupees)

	July 1948 to Dec. 1953	1954 and 1955
Total change in business investments ..	132	61
Estimated revaluation of assets ..	-12 to 15	-22
Change in banking investments ..	16	-4
Estimated non-banking capital inflow ..	133-136	35
(a) Cash transfers (net) (excluding transfers of accumulated earnings) ..	-15 to 20	-7
(b) Retained earnings (net) ..	70	23
(c) Investments in kind, etc. (derived) ..	85	19

Table 8 presents a classification of the changes in the foreign investments, under main business activities in a form slightly different from that given earlier.

Petroleum activities appear in the table as a separate group and are excluded from the groups 'Manufacturing' and 'Trading', with a view to showing the importance of this field of investment during the two periods.

TABLE 8.—NON-BANKING BUSINESS INVESTMENTS

	(Crores of Rupees)	
	July 1948 to Dec. 1953	1954 and 1955
Petroleum: trading	+ 46.1	+ 8.1
Petroleum: manufacturing	+ 8.7	+ 18.7
Manufacturing ..	+ 55.1	+ 8.9
Trading ..	- 15.7	- 0.6
Utilities and Transport ..	+ 19.3	+ 2.5
Mining ..	- 3.1	+ 1.2
Financial ..	+ 7.8	+ 4.4
Plantations ..	+ 19.3	+ 15.7
Miscellaneous ..	+ 10.0	- 1.6
Valuation changes ..	- 12.0 to 15.0	- 22.0
Total ..	+ 132.5 to 135.5	+ 35.2

As in the past direct investments continued to occupy a predominant position in 1954-1955 also. Even as regards direct investments, investments in the Controlled joint stock companies were much larger than those in branches of foreign incorporated companies.

* The branches of foreign companies, the ownership and direction of which are wholly in the hands of foreign owners are the obvious instance of direct investments. The following types of Indian Joint Stock Companies are also treated as direct controlled viz., (i) subsidiaries of foreign parent companies, (ii) with a few exceptions, companies 40 per cent or more of the shares of which are owned by non-residents belonging to one country, (iii) companies managed by foreign-controlled managing agents in terms of managing agency agreements and (iv) companies 25 per cent or more of whose shares are owned by another foreign-controlled company in India. Only ordinary shares are taken into account for computing direct investments in Indian joint-stock companies.

TABLE 9

	July 1948 to Dec. 1953	1954-55
Direct Invest- ments		
(a) Branches ..	+ 73.4 to 76.4	+11.8
(b) Controlled Joint Stock Companies	+ 33.1	+24.5
Total	+111.5 to 114.5	+36.3
Portfolio invest- ments ..	+ 21.1	- 1.1
Total capital in- flow	+132.5 to 135.5	+35.2

This trend is in contrast with the one witnessed during the earlier period when investment through the branches was much more important.

The available information shows that a large part of investments during 1954-55 was in companies established after 30-6-1948. As shown in the table below, petroleum-manufacturing companies accounted for most of the investment in the new companies during 1954-1955.

TABLE 10
(Crores of Rupees)

	New com- panies	Old com- panies	All com- panies
Petroleum: trad- ing	—	8.1	8.1
Petroleum: manu- facturing ..	19.5	-0.8	18.7
Manufacturing (other than petro- leum)	3.4	5.5	8.9
All others ..	1.0	-1.5	-0.5
Total	24.0	11.2	35.2

A greater part of the investments in the old companies was concentrated in the petroleum trading companies.

The manufacturing investments (other than Petroleum) in the old companies at Rs. 5.5 crores were also somewhat larger than in new companies. In other activities, there was on the whole some repatriation of funds by the old companies as compared to an investment of Rs. 1 crore in new companies.

The foregoing estimate of the foreign business investments does not take into account certain other capital movements, affecting the joint stock companies.

These represent capital receipts and payments associated with (a) the borrowings abroad by way of loans and advances and (b) the acquisition of foreign assets of various kinds by the joint-stock companies.

Such data have been obtained only for obligations with a maturity of more than a year. The inter-company advances as well as other loans and advances obtained by the companies resulted in a capital-inflow of Rs. 5 crores part of which represented advances secured by the petroleum refining companies.

Foreign assets of the companies showed hardly any significant changes between 1953 and 1955.

Since the loans and advances obtained by the companies appear to be mainly connected with the financing of fixed capital, they are

to be included while arriving at the total figure for the long-term capital obtained from abroad by the companies. Including this inflow, therefore, the foreign investments in the non-banking business enterprises in India during 1954-1955 would be of the order Rs. 40 crores.

The average annual rate of capital inflow would be Rs. 20 crores during 1954-1955, as against Rs. 25 crores during the period July 1948 to December 1953.

A country-wise breakdown of the change in business investments during the middle of 1948 to the end of 1955 shows certain interesting features.

The industrially advanced countries have, over the period, added to their investments substantially. Four industrial countries, viz., the U.K., the U.S.A., Western Germany and Switzerland increased their investments by nearly Rs. 175 crores (Rs. 135-140 crores during July 1948 to December 1953 and Rs. 36 crores during 1954-1955).

In addition, resources provided by the I.B.R.D. to private companies (representing capital provided by industrial countries) amounted to about Rs. 3 crores.

The other countries, taken as a whole, reduced their investments by Rs. 7 crores. Pakistan, Ceylon and Burma were among the countries whose investments showed a considerable reduction during this period.

TABLE 11.—CHANGES IN NON-BANKING
BUSINESS INVESTMENTS (COUNTRY-WISE)

(Crores of Rupees)		
Country	July 1948 and Dec. 1953	1954 and 1955
U.K.	+131.7	+45.0
U.S.A.	+ 18.9	+ 9.7
Germany ..	.. ..	+ 2.5
Switzerland ..	+ 0.6	+ 0.6
Pakistan ..	- 4.3	+ 0.2
I.B.R.D. ..	—	+ 2.7
Other countries	+ 0.6	- 3.6
Less valuation changes ..	-12.0 to 15.0	-22.0
Total	+132.5 to 135.5	+35.2

The U.K. maintained its position as the leading investor of capital during 1954-1955; however, its investment during this period was much smaller than that during the earlier period.

Adjusting for the revaluation of assets, the increase in the U.K. investments during 1954-55 was around Rs. 23-24 crores or Rs. 11 to Rs. 12 crores a year. The average annual inflow during the earlier period at Rs. 21-22 crores, however, was almost double the size of the inflow during this period.

On the other hand, there was a considerable stepping up of the rate of investment from the U.S.A. from the average of Rs. 3.4 crores (during July 1948 to December 1953) to Rs. 4.9 crores during 1954-1955; the U.S. investment during 1954-1955 however was mainly under petroleum activities.

The German investments also showed marked increases during 1954-1955, though Germany's total investments still are not very significant.

STATEMENT 1
FOREIGN BUSINESS INVESTMENTS
Trade-wise

(Lakhs of Rupees)		
	30-6-1948	31-12-1955
Manufacturing		
Mineral Oils and Products ..	1.01	28.41
Electrical Goods	4.77	14.63
Matches ..	1.78	2.29
Cigarettes and Tobacco ..	6.17	24.94
Medicines and Pharmaceuti- cals ..	45	7.65
Iron and Steel Products ..	5.48	9.43
Food Products including Ve- getable Oils ..	1.82	3.22
Others ..	50.52	72.75
Total ..	71.95	163.32
Trading		
Mineral Oils and Products ..	21.32	75.50
Iron and Steel Products ..	3.62	89
Jute and Coir Goods ..	2.64	48
Food Products including Ve- getable Oils ..	3.49	1.19
Others ..	33.28	24.24
Total ..	64.35	102.30
Utilities ..	18.61	41.26
Transport ..	12.62	11.79
Mining ..	11.46	9.62
Financial		
Banking ..	31.74	20.15
Others ..	6.97	19.11
Total ..	38.61	39.26
Plantations		
Tea	50.31	66.26
Others ..	1.94	94
Total ..	52.25	87.20
Miscellaneous		
Managing Agency	14.40	24.62
Others ..	3.32	1.27
Total ..	17.72	25.89
GRAND TOTAL ..	287.57	480.64

STATEMENT 2
FOREIGN BUSINESS INVESTMENTS
Country-wise

(Lakhs of Rupees)		
	30-6-1948	31-12-1955
Australia ..	17	39
Burma ..	3.00	13
Canada ..	51	1.45
Ceylon ..	2.59	28
Germany ..	35	2.54
Japan ..	22	2.46
Malaya ..	2.13	2.15
New Zealand ..	46	20
Pakistan ..	12.16	5.17
Switzerland ..	5.76	6.62
United Kingdom ..	209.95	391.99
United States ..	17.96	41.16
Other Countries ..	32.31	26.10
Total ..	287.57	480.64

STATEMENT 3

CHANGES IN FOREIGN BUSINESS INVESTMENTS BETWEEN JUNE 30, 1948 AND DECEMBER 31, 1955

Increase +	Decrease -										(Lakhs of Rupees).
	DIRECT INVESTMENTS						PORTFOLIO INVESTMENTS		TOTAL BUSINESS INVESTMENTS		
	Foreign Branches		Controlled Indian Companies		Total		1948-53†	1953-55°	1948-53†	1953-55°	
	1948-53†	1953-55°	1948-53†	1953-55°	1948-53†	1953-55°					
Manufacturing											
Mineral Oils & Products ..	+ 8,51	- 79	+ 5	+ 19,48	+ 8,56	+ 18,69	+ 12	+ 3	+ 8,68	+ 18,72	
Electrical Goods	+ 2,09	- 0	+ 4,46	+ 1,79	+ 6,55	+ 1,73	+ 69	+ 89	+ 7,24	+ 2,62	
Matches .. .. .		..	+ 1,08	+ 4	+ 1,08	+ 4	+ 41	+ 97	+ 1,49	+ 98
Cigarettes & Tobacco ..	+ 54	..	+ 18,76	- 55	+ 19,30	- 55	+ 18	- 16	+ 19,48	- 71	
Medicines & Pharmaceuticals ..	+ 71	+ 43	+ 3,66	+ 1,11	+ 4,37	+ 1,54	+ 71	+ 58	+ 5,08	+ 2,13	
Iron & Steel Products ..	- 2	..	+ 1,23	+ 1,29	+ 1,21	+ 1,29	- 1	+ 1,46	+ 1,30	+ 2,75	
Food Products including Vegetable Oils			+ 1,91	- 91	+ 1,91	- 91	+ 24	+ 16	+ 2,15	- 75	
Others	+ 2,95	+ 3,11	+ 10,91	+ 39	+ 13,86	+ 3,50	+ 4,59	+ 23	+ 18,45	+ 3,75	
TOTAL	+ 14,78	+ 2,69	+ 42,06	+ 22,64	+ 56,84	+ 25,33	+ 6,98	+ 2,27	+ 69,77	+ 27,60	
Trading											
Food Products including Vegetable Oils	+ 57	+ 60	- 3,28	+ 1	- 2,69	+ 61	- 22	..	- 2,91	+ 61	
Iron & Steel Products ..	- 2,50	+ 1	- 14	+ 16	- 2,44	+ 17	- 29	+ 8	- 2,93	+ 30	
Jute & Cane Goods ..	- 1,98	- 5	- 2	- 9	- 2,00	- 14	+ 18	- 20	- 1,82	- 34	
Mineral Oils & Products ..	+ 44,68	+ 8,49	+ 1,50	- 22	+ 46,18	+ 8,17	- 10	- 7	+ 46,08	+ 8,10	
Others	- 11,02	- 1,63	+ 2,75	- 27	- 8,27	- 1,99	+ 28	+ 84	- 7,99	- 1,05	
Total	+ 29,75	+ 7,43	+ 83	- 51	+ 30,58	+ 6,92	- 15	+ 60	+ 30,43	+ 7,52	
Utilities & Transport ..	+ 19,84	+ 2,51	+ 42	- 10	+ 20,26	+ 2,41	- 95	+ 10	+ 19,31	+ 2,51	
Mining	- 3,84	+ 1,72	+ 1,09	- 11	- 2,75	+ 1,61	- 33	- 37	- 3,06	+ 1,24	
Financial											
Banking	- 14,11	+ 3,50	..	..	- 14,11	+ 3,50	- 1,43	+ 45	- 15,54	+ 2,95
Others	+ 3,00	+ 2,17	- 4,03	+ 2,48	- 1,03	+ 4,65	+ 5,96	- 24	+ 7,93	+ 4,41	
Total	- 11,11	+ 5,67	- 4,03	+ 2,48	- 15,14	+ 8,15	+ 7,43	+ 21	- 7,71	+ 8,36	
Plantations											
Tea	+ 20,94	+ 16,93	- 1,57	- 1	+ 19,37	+ 16,92	+ 49	- 83	+ 19,86	+ 16,09	
Others	- 12	- 24	- 24	+ 1	- 26	- 23	- 25	- 16	- 61	- 39	
Total	+ 20,82	+ 16,69	- 1,81	..	+ 19,01	+ 16,69	+ 24	- 99	+ 19,25	+ 15,70	
Miscellaneous											
Managing Agency ..	- 49	- 32	+ 6,14	+ 1,02	+ 5,65	+ 70	+ 6,15	- 2,28	+ 11,90	- 1,58	
Others	- 51	- 7	- 1,80	+ 3	- 2,11	- 4	+ 31	- 21	- 1,80	- 25	
Total	- 1,00	- 39	+ 4,34	+ 1,05	+ 3,34	+ 66	+ 6,46	- 2,49	+ 10,00	- 1,83	
GRAND TOTAL ..	+ 69,24	+ 36,32	+ 43,10	+ 25,45	+ 112,34	+ 61,77	+ 19,63	- 67	+ 131,97	+ 61,10	

° Between December 31, 1953 and December 31, 1955.

† Between June 30, 1948 and December 31, 1948.

STATEMENT 4

INDIA'S INTERNATIONAL INVESTMENT POSITION

By Type of Obligation

(Lakhs of Rupees)

	LIABILITIES		ASSETS		NET POSITION*	
	30-6-1948	31-12-1955	30-6-1948	31-12-1955	30-6-1948	31-12-1955
Deposits ..	94,35	36,47	46,36	46,99	- 48,49	+ 10,52
Loans & Advances including Inter-Company Balances ..	67,96	175,14	5,41	15,87	- 62,55	- 159,47
Securities ..	57,37	54,07	1,567,46	796,19	+ 1,510,09	+ 742,12
Shares Debentures & Branch Investments ..	291,55	465,25	4,49	13,70	- 257,06	- 451,55
Residual Items ..	22,49	35,40	394,96	379,34	+ 362,49	+ 343,94
Total ..	504,22	766,33	2,008,70	1,251,79	+ 1,504,48	+ 485,46

* Excess of assets over liabilities is indicated by a + sign, while excess of liabilities over assets is indicated by a - sign.

STATEMENT 5
INDIA'S INTERNATIONAL INVESTMENT POSITION
Country-wise

(Lakhs of Rupees)

	LIABILITIES		ASSETS		NET POSITION*	
	30-6-1948	31-12-1955	30-6-1948	31-12-1955	30-6-1948	31-12-1955
Australia	45	56	53	73	+	16
Burma	8,84	5,52	54,19	8,90	+	1,62
Canada	28	8,31	86	8,30	+	11
Ceylon	30,14	9,79	1,23	4,13	—	5,66
Germany	3,16	7,17	1,07	12	—	7,05
Japan	3,16	2,86	1,84	17	—	2,69
Malaya	8,39	8,85	1,80	2,82	—	6,03
New Zealand	38	38	1	11	—	27
Pakistan	66,77	50,67	323,30	320,30	+	269,58
Switzerland	6,85	9,48	..	27	—	9,31
U.K.	296,16	443,56	1,591,19	862,13	+	405,55
U.S.A.	20,30	140,61	15,31	25,89	—	104,72
IMF & IBRD	14,90	29,27	11,75	19,29	—	9,98
Other Countries	67,64	54,28	7,28	8,84	—	45,44
Total	504,33	798,33	2,008,70	1,281,79	+	485,46

* Excess of assets over liabilities is indicated by a + sign, while excess of liabilities over assets is indicated by a — sign.

STATEMENT 6
INDIA'S INTERNATIONAL INVESTMENT POSITION
As on 31-12-1955. By Type of Obligation.

(Lakhs of Rupees)

	OFFICIAL							NON-OFFICIAL						
	SHORT-TERM		LONG-TERM		TOTAL			SHORT-TERM		LONG-TERM		TOTAL		
	Liabi- lities	Assets	Liabi- lities	Assets	Liabi- lities	Assets	Net Position	Liabi- lities	Assets	Liabi- lities	Assets	Liabi- lities	Assets	Net Position
Deposits	2,23	23,36	..	2,77	2,23	31,03	+ 28,75	34,19	15,54	..	42	34,19	15,96	— 18,23
Loans & Advances in- cluding Inter-Company Balances .. .. .	..	..	141,12	..	141,12	..	— 141,12	15,76	2,89	18,36	12,73	34,02	15,67	— 18,35
Securities	14,33	427,53	39,74	344,73	54,07	772,26	+ 718,19	..	..	..	23,92	..	23,92	+ 23,92
Shares, Debentures & Branch Investments .. .. .	..	..	..	17	..	17	+ 17	..	..	465,25*	13,54	465,25	13,54	— 451,71
Residual Items .. .. .	..	..	12,44	367,30	12,44	367,30	+ 354,78	..	..	22,96	12,04	22,96	12,04	— 10,92
Total	16,61	455,79	193,30	714,37	209,31	1,170,66	+ 960,75	49,95	18,43	506,47	62,70	556,42	81,13	— 475,29

* This would be equal to Total Business Investments less net position of Branches of Foreign Banks. The latter comprises mainly Short-term Obligations and Claims. With the help of Exchange Control Records, information in regard to Banking Liabilities and Assets have been obtained on a gross basis and entered appropriately under different heads.

STATEMENT 7
INDIA'S INTERNATIONAL INVESTMENT POSITION
As on 31-12-1955.

(Lakhs of Rupees)

	SHORT-TERM							LONG-TERM						
	Official		Non-official		Net Position			Official		Non-official		Net position		
	Liabi- lities	Assets	Liabi- lities	Assets	Official	Non- official	Total	Liabi- lities	Assets	Liabi- lities	Assets	Official	Non- official	Total
Australia .. .. .	..	..	6	11	..	5	+	9	17	41	44	+	3	+
Burma	41	..	2,63	9	—	2,54	—	79	37	1,69	2,44	—	1,75	+
Canada .. .. .	..	2,51	1,00	28	+	2,51	+	33	8	1,98	33	—	1,65	—
Ceylon	1,09	..	1,49	10	—	1,09	—	2,37	3	4,84	4,00	—	84	—
Germany .. .. .	..	..	49	..	..	49	—	4,03	..	2,65	12	—	2,53	—
Japan .. .. .	..	..	2	..	..	2	—	2,66	7	18	10	—	8	—
Malaya .. .. .	..	..	3,00	1,68	..	1,32	—	23	10	5,82	1,04	—	4,58	—
New Zealand .. .. .	..	..	8	..	..	8	—	13	2	20	9	—	11	—
Pakistan	19,65	43	1,65	1,15	—	13,43	—	25,00	300,79	10,17	17,83	+	275,79	+
Switzerland .. .. .	..	..	1,78	..	..	1,78	—	30	6	7,42	23	—	7,19	—
U.K.	1	422,04	18,58	10,04	+	422,08	+	25,00	392,81	396,69	27,24	+	364,81	+
U.S.A. .. .. .	..	30,81	1,06	2,66	+	30,81	+	95,00	98	43,95	79	—	94,97	—
IMF & IBRD	29	..	..	..	..	29	—	25,29	19,29	2,99	..	—	7,00	—
Other Countries	98	..	17,86	1,32	—	96	—	7,48	47	27,98	7,05	—	7,01	—
Total	16,61	455,79	69,86	18,43	+	438,13	+ 407,66	199,36	714,37	506,47	62,70	+	438,13	+ 407,66

COLOMBO PLAN

COLOMBO Plan Bureau, P.O. Box No. 596, Colombo.

Director: R. H. Wade; **Information Officer:** R. K. Chatterjee; **Asst. Information Officer:** L. P. Goonetilleke.

Present Plan period: 1951-51.

Original Plan period: 1951-57.

Members of the Colombo Plan:

Australia, Burma, Cambodia, Canada, Ceylon, India, Indonesia, Japan, Laos, Malaysia, Nepal, New Zealand, Pakistan, Philippines, Thailand, United Kingdom (with Brunei), North Borneo, Sarawak, Singapore), U.S.A., Viet-Nam.

The Colombo Plan Organization consists of the Colombo Plan Consultative Committee and the Colombo Plan Council for Technical Co-operation in South and South-East Asia. The Consultative Committee which meets once a year in one of the member countries takes note of the progress of the Plan and the role which external assistance plays in the development of the area and makes recommendations for being dealt with by member countries. The Colombo Plan Council, located at Colombo, supervises the operation of the Colombo Plan Technical Co-operation Scheme and the dissemination of information on the Colombo Plan.

External assistance provided under the Colombo Plan under both public and private auspices, has played an important role in the economic development of the countries of South and South-East Asia.

Since the inception of the Colombo Plan to the middle of 1958, this assistance amounted to about \$ 5,000 million. During 1957-58 alone, the value of the assistance rendered was of the order of \$ 1,000 million.

Assistance has been given primarily in three forms—financial assistance and equipment for development projects, food and other commodity assistance as contribution towards economic stability and growth, and technical assistance to increase the number and range of skills and strengthen the economic and social institutions. The major part of the assistance under the

Colombo Plan has come from member countries from outside the area. Internally, in the area, mutual assistance has progressively increased in recent years.

1957-58 AID

Brief details of some of the major items of assistance rendered by the donor countries during 1957-58, as recorded in the Seventh Annual Report of the Colombo Plan Consultative Committee are given below:

Australia. A \$ 27.3 million (includes diesel motors and railwagons, and equipment to All-India Radio); **Canada.** (upto 1958-59) \$248.2 million. Assistance to Kundah Project and the Canada-India Atomic Reactor in India; **Japan.** \$20 million yen; **New Zealand:** £ 8.3 million till 1958-59. Assistance to the All India Institute of Medical Sciences and several dairy development schemes in India; **United Kingdom:** Includes release of sterling balances of which about £ 200 million was utilised during 1957-58; Government assistance in the form of credits and aid which from 1951 to end of June 1958 amounted to £ 123.25 million. The Federation of Malaysia, Singapore, Sarawak and North Borneo received about £ 60 million since 1952; A credit to India of £ 15 million for the Durgapur Steel Project, £ 3.71 million under the Technical Co-operation Scheme till the end of June 1958; **United States of America:** \$ 4,000 million from 1950 to middle of 1958 of which a sum of \$ 900 million was provided during 1957-58; **India:** Till March 1957 capital aid mainly to Nepal amounted to Rs. 54 million. During 1957-58 India contributed to the economic development of Nepal Rs. 7.5 million, International Bank for Reconstruction and Development. Provided loans amounting to \$ 816 million to the countries of the area during the Colombo Plan period.

From 1951 upto June 1958 about 1,002 experts were made available to Asian countries and training facilities were provided for 6,886 selected trainees. During 1957-58 alone, 1,264 training places and 210 experts were provided; special equipment for the training and use of experts valued at over £2 million was also provided under the scheme.

By December 1957, the total value of technical assistance provided under the scheme by the member countries amounted to about \$9.8 million as against a total of about £6.8 million till December 1956, constituting an increase of almost £3 million in the calendar year 1957.

Expenditure on the provision of training has maintained a progressive rise and amounted to £1.56 million in 1957 as against £0.85 million in 1956 and £1.36 million in 1956. Training facilities and services of experts provided under the Scheme cover all the major fields of development, and include Engineering, Administration, Food, Agriculture and Forestry, Education, Medical and Health, Industry and Trade, Transport and Communications, Banking, Finance and Accountancy, Power and Fuel, Statistics, Social Services, Co-operatives, Fisheries, and Journalism.

It was agreed at the Singapore meeting that the Colombo Plan be extended from July 1957 to June 1961. The question of the continuation of the Plan beyond 1961 was expected to be taken up at the meeting of the Consultative Committee in 1959.

DEVELOPMENT EXPENDITURE

During the period (1951-57) national income in the region has continued to rise at a rate slightly in excess of the rate of population growth. Much effort went into this achievement as the population of the area is rising at a rate of 10 million annually.

The countries have made advances both in the planning and implementation of development programmes. India completed her first Five-Year Plan with encouraging overall results and a second Five-Year Plan has been adopted. In Pakistan, a new Five-Year Plan has been prepared.

The countries of the area are also investing more and more on development. Fifteen Colombo Plan countries of South and South-East Asia incurred an estimated expenditure of nearly £ 1,700 million on development in the public sector in 1957. The budgeted expenditure for 1958 is over £ 1,400 million.

Expenditure on development in the public sector (£ million at a constant rate of exchange):

£ million

	1956-57 or 1956, Actual or Revised Estimates	1957-58 or 1957, Estimates	1957-58 or 1957, Revised Estimates	1958-59 or 1959, Budget Estimates
Burma	31.4	32.7	32.3	33.3
Cambodia	—	—	11.2	13.7
Ceylon	37.4	Not available	34.6	41.1
India	570.7	725.0	963.5	1,015.6
Indonesia	49.0	55.0	136.2	172.6
Laos	6.3	9.1	8.0	10.4
Nepal	0.8	1.1	1.5	1.3
Federation of Malaysia	20.8	30.6	61.8	70.0
Pakistan	78.6	112.51	211.3	226.5
Philippines	16.5	Not available	148.9	146.7
North Borneo	4.8	6.8	2.6	2.7
Sarawak	7.3	9.6	3.0	4.9
Thailand	25.0	33.3	15.2	18.8
Singapore	14.9	17.1	26.4	33.0
Viet-Nam	20.5	23.7	43.3	25.6
Total	884.0	1,056.51	1,699.3	1,815.2

During 1957, significant progress continued to be made in furthering the development of the Colombo Plan region. The rate of progress was, however, somewhat less than in previous years. The rate of growth in *per capita* real income in the region mentioned in previous reports was not maintained. In some countries of the region, adverse weather and a decline in food production, inflationary pressures and heavy imports accompanied by a decline in export earnings, and other factors, occasioned setbacks. Progress continued to be made at a substantial rate in such vital economic sectors as industrial capacity and

improvement of basic facilities, including roads, irrigation, and land reclamation.

The development expenditure is met in each country largely from internal resources and by valuable assistance received from external sources.

TECHNICAL ASSISTANCE

Australia, Canada, Ceylon, India, Japan, New Zealand, Pakistan, Malaysia and Singapore and United Kingdom are contributing £12.7 million to finance the Colombo Plan Technical Co-operation Scheme.

Technical assistance consisting of provision of facilities for training, supply of experts and provision of equipment for training and research institutions, is also offered under various programmes of the United States and the United Nations and its Specialised Agencies.

Till 30 June, 1958, 15,573 places have been found for men and women of the area to receive training outside their own countries. Not all the training is arranged outside South and South-East Asia; some Asian countries are helping others in training facilities.

In the same period, 1,002 experts had served in the area under the Technical Co-operation Scheme of the Colombo Plan; and 4,886 under the Expanded Programme of the United Nations and the Specialized Agencies. As of 31 March 1958, I.O.A. technicians of the U.S.A. employed in the area numbered 2,261. A number of countries have established technical schools and polytechnics in special fields such as textile and nursing education. Many countries are using the services of consultants in preparing general development plans and specifications for particular projects. Ideas are also being canvassed for the establishment of workshops, for small scale industries and also of new regional training centres, or the expansion of existing facilities, so that more than one country may benefit from institutions available for the study of common problems.

The future holds out great opportunities for technical training so essential to economic development. The United Kingdom has announced a contribution of £7 million towards the provision

of technical assistance for the seven years beginning April 1956. The Canadian Government has provided a NRX atomic reactor to India. This type of reactor is a high-powered research and experimental unit. In accepting the offer the Indian Government has indicated its willingness to allow accredited foreign scientists, including those from other Colombo Plan countries in South and South-East Asia, to work with this reactor. The United States has also offered to locate an atomic research centre in South and South-East Asia.

Japan agreed to assist India by making available \$ 8 million for the procurement of machinery, equipment and other material from Japan for the development of iron ore mining in the Bouriela area. She is also assisting the Government of India with funds for the establishment of a technical centre attached to an industrial estate near Calcutta. The Japanese Export Import Bank has made arrangements to supply a special line of credit amounting to 10,000 million yen to the Government of India or parties recommended by it.

Under the Technical Co-operation Scheme of the Colombo Plan, 1,002 experts and 6,886 training places had been provided to the countries of South-East Asia till June 1958. Their distribution is as follows:

	Training Awards	Experts
Australia	2,225	284
Burma	10	—
Canada	940	170
Ceylon	46	2
India	718	26
Indonesia	12	—
Japan	156	115
Malaya	28	—
New Zealand	552	89
Pakistan	78	1
Singapore	34	—
Thailand	10	—
United Kingdom	2,077	315
Total	6,886	1,002

The following table gives the accounts of expenditure by supplying country and type of assistance, Technical Co-operation Scheme July 1950 to December 1957. (Pound Sterling)

Country	Actual				Firm Forward Commitments				Actual plus Commitments
	Trainees	Experts	Equipment	Total	Trainees	Experts	Equipment	Total	
Australia	1,984,334	578,933	130,811*	3,321,721	1,040,000	128,000	360,000	1,528,000	4,849,721
Canada	1,139,705	612,062	109,251	1,861,018	210,458	131,163	33,456	375,077	2,236,095
Ceylon	10,369	1,108	104,911	116,388	532	—	—	532	116,920
India	303,533	91,403	5,314	400,250	21,300	3,283	2,625	27,188	427,438
Japan	52,543	87,316	5,223	145,087	24,948	69,794	804	95,546	240,633
New Zealand	422,989	216,295	45,962	685,246	—	—	—	—	685,246
Pakistan	16,674	—	8,717*	25,391	—	—	—	—	25,391
United Kingdom	1,261,856	910,890	1,047,088	3,219,834	298,336	276,663	351,936	926,935	4,146,769
Malaya	1,179	—	—	1,179	—	—	—	—	1,179
Singapore	729	—	—	729	—	—	—	—	729
Total	5,193,911	2,496,007	2,086,925	9,776,843	1,595,574	608,883	746,821	2,953,278	12,730,121

* Contribution towards the cost of Bureau excluded.

* Cost of buildings and equipment, etc.

INDIA

India has offered both economic and technical assistance to the countries of the region. Economic assistance has been given primarily to Nepal, upto Rs. 54 millions till March 1957. This assistance was for development of roads and communications, construction of an air-field, mapping and air survey work, construction of Trisuli Project and minor irrigation works.

During 1957-58 India contributed to the economic development of Nepal a sum amounting to Rs. 7.5 million. India has agreed to assist to the extent of Rs. 37.5 million in the construction of the Trisuli Hydro-Electric Project in Nepal.

A loan of Rs. 20 crores had been advanced to the Government of Burma for the economic development of that country. Another loan of Rs. 4.58 lakhs had been given to the Government of Indonesia for training Indonesian air force personnel. This sum had been given out of an agreed loan of upto Rs. 50 lakhs.

In the technical field, India has provided 896 scholarships and fellowships to students of South-East Asia in various technical subjects at the Indian Universities, Scientific and Research Institutes and in other projects since the beginning of the Colombo Plan Technical Co-operation Scheme. Of this number 587 were to Nepal, Ceylon (117); Philippines (48); Pakistan (39); Burma (31); Thailand (16); Indonesia (16); Singapore (9); Malaya (8); Japan (5); New Zealand (1); North Borneo (2); Viet-Nam (6); and Australia (1).

The break-up figures given below are for the previous year: The largest number of places were provided in the field of Engineering (147); followed by Statistics (129); Education

(123); Industry & Trade (72); Food, Agriculture and Forestry (65); Transport and Communications (54); Medical and Health (51); Administration (20); Co-operatives (16); Banking, Finance, Accountancy, Taxation and Insurance (7); Journalism, Press Photography and Printing (4); Fisheries (2); Social Services (2); and Miscellaneous (6).

The training in statistics has been provided by the International Statistical Education Centre, Calcutta, which is jointly sponsored by the International Statistical Institute and the Indian Statistical Institute in collaboration with UNESCO.

Training facilities available in the various research laboratories of India such as National Chemical Laboratory, Poona; Central Drug Research Institute, Lucknow; Fuel Research Institute, Digwadih; National Physical Laboratory, Delhi; National Metallurgical Laboratory, Jamshedpur; Central Glass and Ceramic Institute, Mysore; and Central Leather Research Institute, Madras, have been offered for junior scientists from the countries of South and South-East Asia.

Training facilities in dredging river survey, port traffic operations and management, harbour engineering works, etc. have been offered on the major ports of Bombay, Calcutta, Madras, Cochin, and Kandla and also pre-sea training in the Mercantile Marine Training Institutes in India.

To give random examples of the sort of assistance India is receiving:

Canada assists in nuclear research. About 80 nuclear scientists from India are being trained in connection with India's second research

reactor which Canada is helping to build at Trombay, near Bombay.

An Australian expert is advising on the best types of boats and gear for training local fishermen of West Bengal.

For a million-ton steel plant under construction by a British consortium at Durgapur, West Bengal, 300 engineers and technicians are to be trained.

Britain has also sent two missions of experts to India, one to advise on the establishment and siting of a second ship-building yard and the other on reducing port congestion.

Mutual Aid: Mutual aid in the region is an important aspect of the Colombo Plan, and with the progress of development in the region, mutual aid is increasing. Nine countries of the area have now become donors of assistance. These are Burma, Ceylon, India, Indonesia, Malaya, Pakistan, Sarawak, Singapore and Thailand. Of the 6,886 training facilities provided under the scheme, 936 places representing about 14 per cent of the total, were given by the 8 countries of the area, the donors being: India 718; Pakistan 78; Ceylon 46; Singapore 34; Malaya 28; Indonesia 12; Burma 10; Thailand 10.

India, Ceylon and Pakistan have also supplied experts.

25 Indian experts helped Burma, Ceylon, Indonesia, Singapore and Viet-Nam in several fields of development including potato-growing, tractor engineering, timber research, small savings, sugar technology and use and maintenance of H.T. aircraft. India has provided on loan an H.T. aircraft to the Government of Singapore for the use of the Singapore Flying Club.

The following table shows the number of training places by subject and receiving country, provided from July 1950 to June 1953 under the Colombo Plan Technical Co-operation Scheme:—

Subject	Australia	Brunei	Burma	Cambodia	Ceylon	India	Indonesia	Japan	Laos	Malaya	Nepal	North Borneo	Pakistan	Philippines	Sarawak	Singapore	Thailand	Viet-Nam	Total
Education	1	—	24	7	104	92	170	—	—	95	114	43	132	50	26	46	34	26	941
Medical and Health	—	1	41	4	172	172	51	—	1	128	68	10	43	25	16	23	68	9	846
Food, Agriculture and Forestry	—	1	59	4	154	252	81	—	4	36	50	5	159	49	9	3	33	61	960
Power and Fuel	—	—	6	—	7	146	4	—	—	—	1	—	37	2	—	—	8	211	960
Engineering and Industry	—	2	69	3	102	180	256	—	6	96	131	23	114	29	18	51	21	24	1,135
Transport and Trade	—	—	110	3	105	142	26	—	6	19	2	—	118	16	1	—	11	3	566
Communications	—	—	44	—	39	103	46	3	—	28	57	2	71	11	4	10	10	21	451
Administration	—	3	109	—	84	84	167	—	—	43	19	3	251	41	17	27	34	3	980
Social Services	—	—	21	—	28	15	21	—	—	3	—	1	15	11	1	4	7	—	127
Statistics	—	—	21	—	19	17	14	—	—	2	8	—	40	20	4	3	15	—	168
Fisheries	—	—	1	—	9	17	11	—	—	2	—	—	6	—	4	10	4	—	71
Co-operatives	—	—	14	1	6	16	13	—	—	9	12	—	3	—	—	3	—	1	78
Banking, Finance, Accountancy, Taxation and Insurance	—	—	46	3	54	19	20	—	—	12	9	6	46	8	—	—	7	2	232
Journalism, Press, Photography and Printing	—	—	4	—	14	6	17	—	—	6	2	1	5	2	—	1	—	—	56
Miscellaneous	—	—	2	—	8	9	8	—	1	3	5	—	13	3	7	1	—	—	64
TOTAL	1	7	571	26	605	1,263	916	3	13	438	478	109	1,153	257	103	146	255	143	4,898

Number of training places and experts provided, by subject and supplying country, under the Technical Co-operation Scheme, July 1950 to June 1953.

Subject	SUPPLYING COUNTRY																Total	
	Australia	Burma	Canada	Ceylon	India	Indonesia	Japan	Malaya	New Zealand	Pakistan	Singapore	Thailand	United Kingdom	Trinidad	Trinidad			
Education	442	40	21	1	123	4	4	1	150	23	1	—	187	31	941			
Medical and Health	317	143	115	9	61	—	6	1	87	20	1	—	250	50	846			
Food, Agriculture and Forestry	261	31	178	3	65	3	30	37	93	13	—	8	202	11	960			
Power and Fuel	23	—	72	6	—	—	1	—	10	—	—	—	104	8	211			
Engineering and Industry	436	30	133	6	147	11	24	16	122	4	1	10	266	47	1,135			
Transport and Trade	186	11	74	6	73	5	31	24	37	5	2	—	168	43	566			
Communications	117	12	56	4	64	1	23	2	20	5	—	—	108	34	451			
Administration	288	4	109	1	20	—	3	—	17	—	—	—	57	17	980			
Social Services	71	—	9	—	2	—	1	—	15	—	—	—	22	4	127			
Statistics	4	—	13	—	129	—	—	—	4	—	—	—	11	4	168			
Fisheries	1	2	23	—	2	—	25	2	1	—	—	—	13	—	71			
Co-operatives	3	—	34	1	16	—	2	—	—	—	—	—	—	—	78			
Banking, Finance, Accountancy, Taxation and Insurance	49	5	43	—	7	3	3	—	23	3	—	2	102	15	232			
Journalism, Press, Photography and Printing	24	5	10	—	4	—	—	—	3	—	—	—	14	3	56			
Miscellaneous	17	1	3	—	6	—	3	—	4	—	—	—	25	3	64			
TOTAL	3,235	284	940	43	718	23	143	115	593	59	78	1	2,077	315	4,898			

* Figures do not include aid given by the United Kingdom under Colonial Development Welfare Acts to Malaya, Singapore, North Borneo and Sarawak.

Number of trainees and experts provided, by applying and supplying country, under the Technical Co-operation Scheme, July 1960 to June 1968.

SUPPLYING COUNTRIES

Applying Country	Australia		Burma		Canada		Ceylon		India		Indonesia		Japan		Malaya		New Zealand		Pakistan		Singapore		Thailand		United Kingdom		Total	
	Trainees	Experts	Trainees	Experts	Trainees	Experts	Trainees	Experts	Trainees	Experts	Trainees	Experts	Trainees	Experts	Trainees	Experts	Trainees	Experts	Trainees	Experts	Trainees	Experts	Trainees	Experts	Trainees	Experts	Trainees	Experts
Australia	7	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—
Brunei	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Burma	214	8	—	—	67	12	15	—	36	2	10	—	2	—	12	—	30	3	21	—	16	—	2	—	137	25	571	1
Cameroon	—	—	—	—	11	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ceylon	179	48	—	—	66	80	—	—	116	15	2	—	49	—	2	—	73	23	10	—	—	—	—	—	496	104	905	17
India	264	18	—	—	270	20	—	1	—	—	—	—	37	—	11	—	65	9	19	—	—	—	—	—	615	106	1,233	219
Indonesia	501	23	—	—	133	8	7	—	11	4	—	—	32	—	1	—	79	23	3	—	1	—	—	—	133	7	616	66
Japan	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Kenya	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Malaya	272	62	—	—	16	15	1	—	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Myanmar	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
North Borneo	72	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pakistan	240	43	—	—	4	18	2	—	439	8	—	—	—	—	—	—	33	10	—	—	—	—	—	—	22	1	478	2
Philippines	100	3	—	—	254	4	—	—	30	—	—	—	8	—	6	—	62	15	—	—	9	—	—	—	—	—	189	19
Sri Lanka	—	—	—	—	—	—	—	—	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Thailand	143	37	—	—	3	4	3	—	9	4	—	—	—	—	7	—	25	3	3	—	8	—	—	—	101	—	237	15
Taiwan	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	50	6	—	—	87	2	1	—	14	1	—	—	38	—	—	—	18	2	—	—	—	—	—	—	69	—	186	47
Total	2,325	284	10	46	940	170	46	2	718	26	12	156	115	28	592	89	78	1	34	10	2,077	215	1,002	9,886	2,975,712	2,975,712	2,975,712	2,975,712

* Figures do not include aid given by the United Kingdom under Colonial Development Welfare Aids.

Expenditure incurred on equipment in each year, by donor country, Technical Co-operation Scheme, July 1960 to December 1967.

£ Sterling

Donor Country	1960-June '63		1963-64		1964-65		1965-66		1966-67		1967-68 †		Total 1960-68 †	
	Trainees	Experts	Trainees	Experts	Trainees	Experts	Trainees	Experts	Trainees	Experts	Trainees	Experts	Trainees	Experts
Australia	29,659	—	75,813	—	114,805	—	62,457*	—	46,949*	—	21,375*	—	130,811*	—
Canada	—	—	116	—	48,384	—	167,125	—	167,730	—	74,103	—	629,643	—
Ceylon	—	—	39,707*	—	56,305*	—	28,020	—	28,400	—	15,121	—	109,231	—
India	—	—	—	—	—	—	—	—	—	—	—	—	104,911*	—
Japan	—	—	—	—	—	—	—	—	—	—	—	—	5,214	—
New Zealand	—	—	—	—	—	—	—	—	—	—	—	—	5,223	—
Pakistan	—	—	—	—	—	—	—	—	—	—	—	—	1,877	—
United Kingdom	23,751	—	100,575	—	234,445	—	231,653	—	272,115	—	184,549	—	1,047,088	—
Total	64,146	—	218,977	—	466,085	—	493,280	—	529,508	—	303,507	—	2,975,712	—

* Includes cost of buildings and equipment provided for Colombo Plan trainees in Australia.

† Half-year figures up to 31st December 1967.

U. S. AID TO INDIA

MAJOR Items of American aid to India, Governmental and private, can be tabulated as follows:

	Millions of dollars
1. Technical Assistance and Economic Aid administered by TCM (up to Dec. 31, 1958) ..	433.3
2. Export-Import Bank Loan of 1958 ..	150.0
3. Develop. Loan Fund Loans (June & Sept. 1958) ..	175.0
4. Wheat Loan of 1951 ..	190.0
5. PL 480 Agreements (loans & grants only): Aug. 1958 \$288.1 million; June 1958 \$49.3 million; Sept. 1958 \$210.1 million ..	547.5
6. Agr. commodities distributed through voluntary agencies (as of June 30, 1958) ..	65.2
7. Flood Relief Aid, 1956-57 ..	4.9
8. Planned Programming for TCM up to June 30, 1959 ..	17.6
9. Ford Foundation Grants ..	27.9
10. Rockefeller Grants ..	6.0
11. Voluntary Agencies' aid under Indo-US Agreement ..	5.5
12. American Red Cross contributions ..	0.8
13. Other private aid (estimate as of Dec. 31, 1957) ..	50.0
	1,673.7

(Rs. 797 crores)

Of the above, \$680.8 million (Rs. 324 crores) has been outright grants (including \$90.2 million private aid); \$652.7 million (Rs. 311 crores) is loan repayable optionally in dollars or rupees; and only \$340 million (Rs. 162 crores), comprising the wheat loan of 1951 and the Export-Import Bank loan, is repayable in dollars.

TECHNICAL ASSISTANCE

Below we give a summary of the assistance provided under the Indo-American Technical Assistance Programme. The position is as on June 30, 1958.

	(In 000's of dollars)
I. Agriculture and Natural Resources	
Acquisition & Distribution of Fertilizer ..	17,200
Acquisition & Distribution of Iron & Steel ..	10,790
Plant Protection & Locust Control ..	562
Determination of Soil Fertility & Fertilizer Use ..	901
Expansion & Modernization of Marine & Inland Fisheries ..	2,347
Groundwater Irrigation ..	18,462
Agricultural & Home Science Extension & Training ..	1,752
Groundwater Exploration ..	4,099
Training in Agricultural Machinery Utilization ..	172
Agricultural Education & Research ..	6,647
Modern Storage of Foodgrains ..	1,409
Augmenting Fertilizer Supply ..	10,647
Livestock Improvement ..	505
Agricultural Information, Production & Training ..	353
Agricultural Economics Research ..	214
Water Resources Survey and Minor Irrigation Works ..	480
Crop Production & Development ..	373
Farmers' Organisation ..	160
Dairy Development ..	627
Citrus Fruit ..	17
Cooperative Marketing and Warehousing of Agricultural Produce ..	7
Calcutta Milk Scheme ..	357
Assistance to Ministry of Food & Agriculture ..	33

	(In 000's of dollars)
U.P. Agricultural University ..	148
Cooperative Membership Education ..	21
Technicians* (American) ..	3,803
Participants* (Indian trainees) ..	438
Total Agricultural & Natural Resources ..	92,023

II. Industry and Mining

Development of Forest Research & Desert Afforestation ..	599
River Valley Development ..	8,004
Exploratory Lignite Excavation & Development ..	605
Building Materials Development ..	224
Augmenting Steel Supply ..	41,055
Training Construction Equipment Operators & Mechanics ..	680
Rihand Valley Development ..	6,078
Improvement of Rajasthan Power Facilities ..	1,065
Industrial Research & Technical Service Organisations ..	3,115
Technical Education Institutions ..	4,688
Provision of Industrial Technical Services ..	2,337
Electric Distribution Systems ..	290
Maintenance Training Centres ..	290
Minerals Survey and Development ..	1,655
Flood Control ..	260
Technical Services in Water Resources & Power Development ..	632
Technical Assistance to Irrigation Research Institute ..	98
Small Industries Development ..	761
Steel Standards ..	140
Telecommunications Development ..	103
Marketing Conference & Study Tour ..	5
Machine Tool Industry Development ..	18
National Productivity Council ..	56
Delhi Thermal Plant ..	4,000
Geological Survey of India ..	279
Oil & Gas Commission ..	41
Lime Industry ..	13
Fuel Research Institute ..	25
Coal Industry ..	10
Indian Institute of Technology, Kanpur ..	89
Council of Scientific & Industrial Research ..	38
Orissa Iron Ore Development ..	20,000
Survey of the Expansion of the Sindh Fertilizer Plant ..	27
Rural Electrification ..	3,000
Tubewell Casing ..	2,000
Cement Manufacturing Equipment ..	7,500
Foundry Training ..	212
Technicians* ..	514
Participants* ..	195
Technical & Engineering Services to Central Water & Power Commission ..	100
Engineering Services to Damodar Valley Corporation ..	95
Steel Industry ..	19
Total Industry and Mining ..	110,588

III. Transportation

Railway Rehabilitation and Expansion ..	75,129
Expansion of Aviation Ground Facilities ..	2,837
Technical Assistance to Civil Air Transport ..	38
Highway Transportation ..	30
Indian Airlines ..	13
Technicians* ..	8
Participants* ..	111
Total Transportation ..	78,061

	(In 000's of dollars)
IV. Labour	
Establishment of a Central Labour Institute ..	84
Study of the Effects of Thermal Environment Conditions ..	64
Trades Training ..	668
Foreman Training ..	87
Industrial Safety ..	24
Technicians* ..	137
Participants* ..	228
Total Labour ..	1,237

V. Health and Sanitation

Malaria Control ..	27,699
National Water Supply & Sanitation Programme ..	6,457
Medical Colleges & Allied Institutions ..	1,118
Control of Filaria ..	2,431
Veneral Disease Control ..	6
Medical Education ..	329
General Nursing ..	112
Health Education ..	55
Assistance to Official Health Agencies ..	27
Malaria Institute ..	31
Malaria Eradication ..	11,994
Health Instruction Training Centres ..	27
Technicians* ..	702
Participants* ..	324
Total Health & Sanitation ..	51,304

VI. Education

Home Science Education and Research ..	1,027
Extension Training Programme for Secondary School Teachers ..	1,512
Educational Administration ..	118
School Building Improvement ..	45
Rural Institutes ..	25
National Institute of Basic Education ..	21
Training in Adult Education ..	25
Central Institute of Education ..	15
Audio-Visual Education ..	168
Assistance to Ministry of Education ..	31
National Professional Education Centre ..	300
Teacher Training in Engineering Education ..	409
Technicians* ..	388
Participants* ..	75
Total Education ..	4,154

VII. Public Administration

Economic Planning ..	35
Improved Operating Statistics & Reports ..	22
Indian Statistical Institute ..	11
Training in Public Administration ..	27
Investment Promotion & Tax Study ..	9
Procurement Consultation Services ..	10
Participants* ..	7
Total Public Administration ..	121

VIII. Community Development, Social Welfare & Housing

Community Development Programme ..	14,086
Demonstration of Improved Methods of Low Cost Housing ..	82
Social Welfare ..	441
Technicians* ..	612
Participants* ..	28
Total Community Development, Social Welfare and Housing ..	15,019

<i>IX. General and Miscellaneous</i>	(in 000's dollars)
Mass Communications Training	55
Nuclear Engineering	99
Nuclear Research	670
Banking & Investment	54
Technicians*	406
Participants*	2
Total General and Miscellaneous ..	1,286

*Represents obligations for FY'52 through FY'55, not distributed by projects.

A REVIEW *

U.S. assistance to India has taken many forms as can be seen from the above tables, but the most important part has been directly allied to economic development under the Five-Year Plans. Technical and developmental aid provided by the U.S. Government totalled \$435,800,000 (Rs. 206.33 crores) as of December 31, 1958, and is administered by the U.S. Technical Co-operation Mission (TCM).

TCM assistance to India is primarily technical and developmental and comprises a five-pronged approach: (1) the use of technicians or experts who demonstrate new techniques or methodology under the various projects; (2) the specialised training of Indian technicians abroad, who upon their return to India carry forward work already undertaken by American counterparts; (3) the procurement of demonstration equipment not available within India for pilot projects; (4) the payment of costs for contracted services; and (5) substantial assistance (in prior years) in the form of foodstuffs, steel and capital equipment.

The Indo-American programme dates from the signing of the General Agreement for Technical Co-operation between the Governments of India and the United States on January 5, 1952.

Up to Dec. 31, 1958, the two countries had jointly undertaken a total of 156 separate projects in eight major activity fields in support of India's First and Second Five-Year Plans. These projects have been developed by the appropriate ministries of the Government of India, and approved by the Ministry of Finance, Department of Economic Affairs, and by the TCM representing the U.S. International Co-operation Administration.

Contributions of the Government of India to the joint effort—rupee expenditures—are mainly in payment of local construction costs, project sites, transport and handling charges within India of U.S.-contributed commodities, a portion of the within-India support costs for U.S. project technicians, as well as salaries and other costs of Indian personnel who are sent to the U.S. and other countries for training.

More than 950 American technical specialists in various fields have been assigned to India under the programme during the past seven years, each one of them at the specific request of the Indian Government.

Another vital component of the Indo-American technical co-operation programme is the specialised training of Indian technicians and scientists abroad, who upon their return to India carry forward work already initiated by American counterparts. As of June 30, 1958, 568 Indian technicians had completed their advanced training in the United States or other countries and returned to India to carry on work in their particular fields; 83 remained in training in the U.S.; and another 272 were in final process for further study there.

EDUCATION

TCM is also actively assisting India in the gigantic programme of reorienting, strengthening and expanding education in India.

Aid is also being given to several technical education institutions, to the extension training programme for secondary school teachers, and for home science education and research.

Forty-eight Indian universities and other research centres throughout India are being assisted under a provision of the India Emergency Food Aid Act of 1951 setting apart the first \$5 million (Rs. 2.35 crores) paid by India as

interest on the 1951 Wheat Loan for assistance to higher education in India and, to a minor extent, in the United States. American books, scientific and teaching equipment, and services of American educational experts are being provided to these Indian institutions under this programme, which is now in its fourth year.

The Ford Foundation, America's outstanding philanthropic organisation, has also aided education in India in a large way, including the training in the United States of nearly 300 engineers for India's growing steel industry with the active collaboration of seven leading American steel producers and several universities.

Under the Fulbright and Smith-Mundt scholarship programmes, over 350 Indian students, teachers and research scholars have received travel grants and fellowships for higher studies in the U.S., and more than 250 American scholars have come to India for study and research.

AGRICULTURE

In the early years of the Indo-American technical co-operation programme, emphasis was laid on development of agriculture, which occupied top priority in India's First Five-Year Plan. Accordingly, technical and commodity assistance stressed such activities as purchase and distribution of more than 300,000 tons of fertilisers and 135,000 tons of steel for agricultural implements; drilling of more than 3,000 tubewells for irrigation, soil fertility surveys, locust control, training in the use of agricultural machinery, modern storage of food grains, livestock improvement and dairy development. U.S. contributions to 27 joint projects in the field of agriculture and natural resources have totalled \$92,023,000 (Rs. 43.82 crores).

INDUSTRY

In recent years, however, increased attention has been devoted to assistance in tackling the problems of industrial development. Import of steel for industrial uses and for railroads has been the largest project in this field. A large part of the rupee proceeds from the sale of TCM-supplied steel in India has been loaned to the Industrial Credit and Investment Corporation which makes available credit to private industry. Other major projects include assistance for several river valley projects, improvement of power facilities in Rajasthan and Delhi, rural electrification, small industries development, heavy equipment training, the Indian National Productivity Council and the Resinane Corporation.

An outstanding TCM project in the field of industrial development is technical and economic aid to India's National Productivity Council. The Indian Government became interested in these programmes, and sent a team to visit various productivity centres and industries in Europe, the U.K. and the U.S. As a result of this visit, financed by TCM, the National Productivity Council was set up in India in 1958.

Expansion plans call for the establishment of 30 local productivity councils by 1961.

Under the productivity council programme, teams from various industries are organised and sent to whatever country seems to have the best productivity record in that industry. Each team is composed of representatives of management, labour and the Government. Each team is required to write a report on their findings of a particular tour so that the whole industry, labour unions and government can benefit from their observations.

Up to December 31, 1958, forty joint Indo-American projects had been under way in the field of industry and mining, with a total U.S. contribution of \$110,589,000 (Rs. 52.65 crores).

For the modernisation and expansion of India's vast railway network, TCM has financed the supply of 100 locomotives, 8,730 goods wagons, 255,000 tons of steel and 4,000 tons of rail. Other projects in the field of transportation have provided for the services under contract of a Railway Survey Team, for improvement and expansion of aviation ground facilities, and for technical assistance to civil air transport and highway transportation. TCM aid in the trans-

portation field totalled \$78 million (Rs. 37 crores) as of Dec. 31, 1958.

SOCIAL WELFARE

Aid totalling \$55,704,000 (Rs. 26.5 crores) has been extended by TCM for 14 projects in the field of health and sanitation. These include malaria control and eradication, village water supply and sanitation, filaria control, and medical, nursing and health education.

India's well-known Community Development Programme has been largely an Indian programme, but TCM has played a vital catalytic role by providing technical specialists, transportation equipment such as jeeps, station wagons and trailers, and demonstration equipment including 1,000 film projectors, at a total cost of \$14,068,000 (Rs. 6.7 crores). Other projects include social welfare education and demonstration of improved methods of low-cost housing.

TCM has provided assistance for six joint projects in the field of public administration for a total contribution of \$121,000 (Rs. 5.76 lakhs).

In addition to the above, joint projects under the Indo-American Technical Co-operation Programme have included mass communications training, nuclear engineering, nuclear research, and banking and investment.

PRIVATE AID

Several American educational, philanthropic and religious organisations and foundations and voluntary relief agencies also have extended aid to India during the last decade. Under the so-called American Voluntary Agencies Programme, several of these charitable groups distribute free to needy persons milk, flour and other agricultural commodities which are supplied to them by the United States Government. The total value of these commodities distributed in India under this programme up to June 30, 1958, was \$65.2 million (Rs. 31 crores), and the agencies themselves spent \$5,500,000 (Rs. 2.62 crores) on the programme.

The Ford and Rockefeller Foundations have sizeable aid programmes in India. For grants to India totalled \$27.9 million (Rs. 13.3 crores) as of December 1958, mainly in the fields of rural development, training of village-level workers, development of small industry, advancement of education, strengthening of public administration and cultural interchange.

Rockefeller grants, mainly for public health, medical education and biological and medical research, totalled \$6,000,000 (Rs. 2.85 crores) in the decade ended June 30, 1958. Between 1920 and 1947, the Rockefeller Foundation had extended aid to India totalling \$1,485,004 (Rs. 70.7 lakhs).

Other private American aid to India, including gifts in kind or cash, scholarships and technical assistance, has been estimated to total \$50 million (Rs. 23.81 crores).

1958

Indo-American economic and technical co-operation and U.S. assistance to India reached a peak level during 1958. America extended credits to India during the year exceeding \$600 million (Rs. 285 crores)—more than one-third of all aid earmarked for India since independence.

The major portion of U.S. assistance to India has been extended in the form of long-term loans as desired by the Government of India, and much of it has been for agricultural commodities which India has needed to meet shortages and hold down internal prices. Including the \$190 million (Rs. 90 crores) Wheat Loan of 1951, nearly 7,000,000 tons of American wheat alone has been delivered to India, while another 3,000,000 tons of wheat and other foodgrains will be supplied under 1958 agreements.

A substantial portion of American aid during 1958 was for large capital expenditures to execute development projects under the Second Five-Year Plan in the face of growing foreign exchange needs. Two U.S. Government agencies extended credits to India for the first time—the Export-Import Bank and the Development Loan Fund. The Bank extended credits totalling \$150 million (Rs. 71.43 crores) and the Fund \$175 million (Rs. 83.3 crores).

* 1959 March : gift of 7,000 machine tools (Rs. 7 crores).

The Export-Import Bank credit is for the purchase in the United States of capital goods for projects in the fields of irrigation and reclamation, power development, coal and iron ore mining, road transportation, communications and industrial development. Bank loans are to be repaid in dollars over a period of 15 years.

Development Loan Fund money will be used by India to finance capital equipment purchases for projects in both the public and private sectors—such as railways, transportation, mining, chemicals, cement, jute and mechanical engineering industries. DLF loans may be repaid in rupees and can be spent by the Government of India on world-wide tenders and not necessarily in the United States.

Another major item of American assistance during 1956 was the signing of two agreements totalling \$295 million (Rs 141 crores) for importing U.S. agricultural commodities, mainly wheat. These agreements were signed under U.S. Public Law 480, which permits the sale of agricultural commodities to foreign countries in their own currencies. Most of the rupee proceeds from the sale of these agricultural commodities in India are either loaned or given as grants to the Government of India for executing economic development projects. These agreements not only enable India to meet food shortages and hold down internal prices, but obviate an otherwise huge drain on her limited foreign exchange resources and provide large rupee funds for executing development projects.

The first of these agricultural commodities agreements was signed in August 1956 for a total of \$36.1 million (Rs. 171.5 crores). All the commodities under the 1956 agreement, including nearly four million tons of wheat, and 300,000 tons of rice, had been delivered to India by early 1959.

* Agreement signed on March 18, 1959 covers Rs. 100 crores in loan and grant to 14 public sector river valley projects—arising from PL 480 signed on Aug. 29, 1956.

The first loan agreement for utilization of the P.L. 480 Rupee Fund, signed on July 29, 1958, provided Rs. 26 crores to the Indian Refinance Corporation for extending credits to medium-sized industries in the private sector. Under this programme, Indian business men have to arrange for loans for expansion schemes through their regular banks as normal commercial transactions, and the Refinance Corporation in turn lends its funds to these banks reimbursing them for such industrial loans.

The P.L. 480 agreement signed in September 1958 for \$238.8 million (Rs. 118.7 crores) includes a provision that the rupee equivalent of \$60 million (Rs. 28.5 crores) be set apart for lending to private concerns in India by the U.S. Export-Import Bank.*

Also in 1958, the United States advanced to India a loan of \$20 million (Rs. 9.5 crores) for the Orissa Iron Ore Project to develop the resources of that State in collaboration with Japan. Another major item was a \$10 million (Rs. 4.76 crores) grant for the malaria eradication programme.

In addition, the United States during 1958 agreed to defer dollar repayments on the \$190 million (Rs. 90 crores) Wheat Loan of 1951 for nine years. These deferrals total approximately \$68 million (Rs. 32.3 crores) and when payments resume no additional interest will be charged on the money due.

American business men are taking increasing interest in India's economic development. The World Bank and Fund meetings in New Delhi in October 1958 were attended by more than 70 of America's leading bankers, investment specialists and industrialists in addition to the official delegation. They travelled around the country and later reported they were tremendously impressed by India's progress.

Indian business men are also interested in joint ventures with Americans as revealed by the leader of the U.S. Trade Mission after a two-month tour of North India in late 1958 and a month of consultations at the U.S. Small Industries Exhibit in New Delhi. Mr. Nathaniel Knowles, leader of the mission, told a press conference that 117 definite proposals for joint ventures between American and Indian businesses had been received during the mission's stay in India.

Similar visits by other U.S. trade missions are scheduled for Calcutta, Madras, and Bombay in conjunction with the showings of the U.S. Small Industries Exhibit in these cities.

Another development in fostering participation by American private capital in India's economic growth was the signing in 1958 of the Investment Guarantee Agreement between the governments of India and the United States. The agreement assures American private capital of convertibility and repatriation in case of nationalization, expropriation or war. India is one of several countries which have signed similar Investment Guarantee Agreements with the United States, in an effort to attract private capital.

Recognition and appreciation in America of India's objectives, aspirations and problems reached a new peak in 1958 with the adoption by the U.S. Senate of a bipartisan resolution expressing U.S. interest in India's development plans and noting the importance of providing continuing assistance to India "to complete successfully its current programme for economic development."

As a matter of fact, ever since the first year of India's existence as a sovereign republic, the Government and people of the United States have been partners in this country's efforts to achieve economic freedom.

U. N. AID TO INDIA

Programmes: TAA 22; ILO 36; FAO 9; UNESCO 12; WHO 91.

Subjects in which technical assistance was offered were

TAA: Statistics (Quality Control, Mathematical Statistics, Installation Engineers of various types of equipment), Earth Moving Equipment, Power Distribution, Mining, Dam Designs, Bhakra, DDT and Penicillin, Glass Moulds, Time and Motion Study, Lighthouse Engineering, Town Planning, Housing Documentation, Demography.

ILO: Manpower Organization including Vocational Training, Employment Information, Occupational Classification, Apprenticeship, Instructor Trainers Productivity and Industrial Relations.

FAO: Irrigation Evaluation, Land Reform, Aerial Survey, Rinderpest, Dairy Husbandry, Sheep and Wool, Livestock, Hides and Skin, Agricultural Statistics, Fisheries (in various branches such as Fish Marketing, Fish Training, Fish Technology, Naval Architects, Harbour Specialists and Fleet Managers), Logging, Resin Tapping, Soil Conservation, Food Technology, Dietetics, Home Economics.

UNESCO: Photo-elasticty, Electronics, Silicate Technology, Dam Construction, Civil and Electrical Engineering, Chemical Engineering, Technology of Inorganic, Industrial Electronics, Switchgear Design, Refrigeration, Fuel Technology, Machine Tool, Metallurgy and Technology of Iron and Steel.

ICAO: Check Pilots and Link Training.

ITU: Railway Electrification.

WHO: TB Demonstration and Training Centres: Madras, Nagpur, Hyderabad, Vital and Health Statistics, MCH Nursing, Donorship Nursing and Midwifery, Health Education, Public Health, Environmental Sanitation, Preventive and Social Medicine.

Among the institutions that benefited were: Indian Statistical Institute, Calcutta; Roorkes

University; National Building Organization; Central Training Institute, Koni Bilaspur; Indian Agricultural Research Institute, Central Bureau of Vocational Guidance, National Physical Laboratory; Banarus University; Engineering College, Poona; Institute of Radio Physics and Electronics, Calcutta; Indian Institutes of Technology, Bombay and Kharagpur; All India Institute of Hygiene and Public Health and All India Institute of Medical Sciences.

Some of the fields of activity in which the United Nations technical assistance programme co-operated with India during 1957 are:

A former United States Army Corps of Engineers, one of the ninety odd U.N. experts working in India, advised the Government on the Bhakra Nangal Dam. A Dutchman is one of the group of technicians working on certain phases of India's livestock situation while another from the United Kingdom is helping improve village pastures. Close to the roof of the world another expert from the Netherlands is working with a group of Indian horticulturists to start a prosperous fruit industry.

Fisheries specialists from Norway, Japan, Iceland, Belgium and Sweden are working in India to set up a modern fishing industry. This team has been to different parts of the country—to Bombay State, Madras, Cochin and West Bengal, advising on modernization of boats, equipment and harbour facilities, adapting their suggestions to the needs of each region.

Experts from other countries have helped in setting up maintenance shops for transport vehicles and application of modern techniques of industrial engineering.

Russian and American experts are working on the staff of India's higher institutes of technology.

Specialists from many countries are participating in public health, malaria eradication and nurse training programmes of the country.

DURING 1956 the sum of money allotted to India for the Expanded Programme of Technical Assistance was U.S. dollars 2,344,600 and the sum contributed by India was U.S. dollars 600,000.

The total cost of the projects under the expanded technical assistance programme in 1957 in U.S. dollars was 1,906,613.

Indian contribution to T. N. (1958): Rs. 50.98 lakhs.

The contributions pledged by the Governments for the entire Expanded Programme of Technical Assistance for 1957 and 1958 were U.S. dollars 20,837,537 and \$2,623,756 respectively. Indian contribution for this period, \$500,000 and \$ 525,000 respectively. In addition the Government contributed \$224,512 towards the local living expenses of experts.

The total amounts obligated during 1957 classified under different agencies are as follows (Figures in U.S. dollars).

UNTAA: 698,660; ILO: 100,212; FAO: 413,444; UNESCO: 308,953; ICAO: 12,231; WHO: 371,283 and ITU: 1,850; Total: 1,906,613.

During 1957 one hundred and thirty-seven experts were engaged under the Expanded Programme and 51 under the Regular Programme: 27 by UNTAA; 10 by ILO; 46 by FAO; 29 by UNESCO; 2 by ICAO; 73 by WHO and 1 by ITU.

During the same period 117 Indian nationals were recruited by the various agencies under the Expanded and Regular Programmes: UNTAA 20; ILO 6; FAO 29; UNESCO 25; ICAO 4; WHO 30, ITU 1; WHO 2.

The total fellowships awarded to Indians both under the expanded and regular programmes during the year were 162: TAA 88; ILO 15; FAO 9, UNESCO 6; ICAO 1; and WHO 32.

In addition 14 fellows went under the regional projects of the Expanded Programme.

India gave facilities to 171 fellows from various countries under the Expanded and Regular

FOREIGN AID TO INDIA

THE total external assistance authorised to India between August 1949 and January 1959 by the I.B.R.D. (International Bank of Reconstruction & Development) and some of the foreign Governments and institutions totalled Rs. 1,482 crores. Among the countries from which assistance was obtained were the U.S.A., the U.K., Canada, Australia, New Zealand, W. Germany, Japan, the U.S.S.R. and Norway (See tables attached).

I.B.R.D.—From August 1949 to January 1959, the I.B.R.D. authorised 17 loans for Rs. 241.6 crores—Rs. 150.4 crores to the public sector and the remainder to the private sector (Table II). Drawings till the end of September 1958 amounted to Rs. 143.4 crores, the share received by the public sector being of the order of Rs. 73 crores.

U.S.A.—Total assistance from the U.S.A. authorised between 1951 and January 1959 amounted to Rs. 759.7 crores. Of this Rs. 523 crores was authorised during the Second Plan period (upto January 1959). Of the total U.S. aid authorised to India, Rs. 313.4 crores was under the P.L. 480 Programme, Rs. 176.7 crores under the Indo-U.S. Technical Aid Programme, Rs. 71.4 crores from the 'Exim Bank' and Rs. 88.8 crores under the D.L.F. Programme.

Though in the initial stages of the Indo-U.S. aid programme, the entire aid was offered by the U.S. as a grant, it was agreed in 1954-55 that a major part of the aid should be in the form of a loan and that 50 per cent of the development assistance (as distinct from Technical Assistance since that year) should be taken in the shape of U.S. surplus agricultural commodities.

Some of the loans are repayable in foreign currencies and some may be repaid in rupees. The wheat loan, the Exim Bank loan and the U.S. Banks' credits to A.I.I. belong to the first category, the T.C.A. loan and loans from the Development Loan Fund and the Asian Economic Development Fund belong to the second. As at the end of January 1959, loans repayable in foreign currencies (excluding P.L. 480) amounted to Rs. 167 crores and those repayable in rupee currency Rs. 155 crores. As regards P.L. 480 assistance, the rupee equivalent of the dollar cost of the U.S. surplus agricultural commodities plus 50 per cent ocean freight costs are deposited in the U.S. Government Title account in India. Of this a part is to be retained by the U.S. Government for its expenditure in India and the rest will be utilised for making grants and loans to the Government of India for mutually agreed projects.

The U.S. aid under the T.C.A. programme is being utilised on mutually agreed projects such as imports of fertilisers, iron and steel for agricultural and industrial use, construction of tube wells and supply of essential items of equipment

like locomotives and wagons for the railways, vehicles, agricultural implements and visual aid for community projects. Of the total U.S. aid committed, it is estimated that India utilised Rs. 413 crores upto September 1958. (See also article U.S. Aid to India.)

Canada—Total aid allocated by Canada from 1951-52 to 1957-58 amounted to about Rs. 64.2 crores. This has been used for a wide variety of projects such as the purchase of wheat, trucks and buses (for the Bombay State Transport Corporation), locomotives and locomotive boilers for Indian railways, heavy equipment for hydro-electric projects at Umtru, Mayurakshi and Kundah, diesel generating sets, locomotives, plant projection and aeromagnetic survey for oil prospecting in Rajasthan.

Since April 1958, Canada has allocated to India a total sum of Rs. 12.3 crores out of which Rs. 4.19 crores will be received as a wheat loan.

U.K.—Till recently, assistance from the U.K. has been offered mainly for research and demonstration equipment for the technical institutes under the Technical Co-operation Scheme of the Colombo Plan. During the year 1956-57, the U.K. Government granted a loan of Rs. 20 crores towards the erection of the Durgapur Steel Plant (also called the first Export Credit Guarantee Department Loan). Besides this the Indian Steel Consortium, London also arranged for bank credits of Rs. 15.3 crores with Messrs. Lazard Bros. & Co. Ltd. for purchases of equipment for the Durgapur Plant. Out of the two credits, nearly Rs. 12 crores is estimated to have been utilised upto September 1958. In September 1958, the U.K. Government authorised a further loan of Rs. 38 crores (the Second E.C.G.D. Loan) to meet the country's pressing foreign exchange commitments.

Australia—The total economic assistance allocated by Australia between 1951 and 1957 is of the order of Rs. 10.8 crores. In the first two years, the funds were utilised to purchase wheat and flour as well as construction equipment for the Tungabhadra Project and electrical equipment for the Ramagundam Project in Hyderabad. The allocations for the subsequent years are being used for the supply of radio equipment and diesel cars and wagons for railways.

During 1958-59 an allocation of 9,000 tons of wheat (worth about Rs. 30 lakhs) has been received.

New Zealand—Total assistance allocated by the Government of New Zealand since the inception of the Colombo Plan upto the 31st March, 1958 totalled \$2.1 million (Rs. 2.8 crores). Of this a cash grant of \$1 million was for the All India Medical Institute towards meeting

a part of its capital cost and \$0.8 million for the Delhi Milk Scheme. The other allocations were mainly for equipment for dairy schemes in India.

U.S.S.R.—A credit of Rs. 83 crores has been received from the U.S.S.R. for the establishment of a steel plant at Bhilai. Of this Rs. 34.4 crores crores were utilised upto September 1958.

Further credits to the tune of about Rs. 60 crores have been authorised by the Soviet Government as a loan for financing industrial projects included in the Second Plan, such as heavy machine building works, mining machinery plant, power station at Neyveli, optical glass factory and development of Korba coal fields.

Norway—Total grants from Norway amounted to Rs. 1.7 crores. Of this, Rs. 0.7 crore (Krs 10 million) was granted in 1953 for a pilot project of fishery development in Kerala. In 1956-58 an additional sum of Rs. 1.0 crore was offered to expand the activities of the same project as well as to develop a new fishery centre at Cochin. By March 1958 a large part of this amount was utilised.

Ford Foundation—From September 1951 upto September 1958 the Ford Foundation extended aid totalling Rs. 9.6 crores towards the training of personnel for rural development, small scale industries, education, research and training and cultural interchange. The amount utilised out of this grant upto September 1958 was Rs. 4.9 crores.

Japan—In February 1958, Japan agreed to make available Yen credits of Rs. 24 crores. Also Japan agreed to provide a loan of Rs. 3.8 crores for the iron ore project in Orissa. Japan has agreed to contribute a further \$10 million following the I.B.R.D. conference in August 1958.

West Germany—The total aid authorised by West Germany in respect of the Rourkela Steel Project amounted to Rs. 78 crores. Of this, Rs. 29.3 crores were utilised upto September 1958. Germany agreed in January 1959 to loan a further sum of Rs. 20 crores for our import of capital goods.

Technical Assistance—India has received substantial technical assistance from Australia, Canada, New Zealand, the U.K., the U.S.A., West Germany and from the United Nations and its specialised Agencies. Under the Technical Co-operation Scheme of the Colombo Plan, the Commonwealth countries undertook to provide books and equipment worth Rs. 0.6 crore for technical institutes and research centres.

Training facilities for Indians overseas are also provided by the U.S., the Colombo Plan countries, West Germany and also under the U.N. Technical Assistance Programme. (See articles 'Colombo Plan' and 'U.N. Aid to India.')

TABLE-1.
External Assistance—Authorised and Utilised (1949-59)

	Aid authorised before the 1st Plan	Aid authorised during the 1st Plan	Utilisation upto the end of 1st Plan	Balance available for utilisation during 2nd Plan	Aid authorised from 1-4-1956 to 31-1-1959	Total available during 2nd Plan	Estimated utilisation* from 1-4-1956 to 30-9-1958	Total authorisation upto January 1959 (1+2+5)	Total estimated utilisation upto September 1958 (3+7)	Balance available for utilisation at beginning of October 1958@
A. Loans & Credits to be repaid in foreign currency										
I. I.B.R.D. Loans	27.00	30.00	83.83	23.86	183.76	207.62	109.56	241.45	143.39	98.06
II. Loans from foreign countries	—	158.88	90.31	63.07	255.70	318.77	83.35	400.08	178.69	235.39
III. Other Loans	—	—	—	—	92.09	92.09	5.33	92.09	5.33	86.76
Total A	27.00	188.88	174.14	86.93	531.55	618.48	198.27	742.62	327.41	420.21
B. Loans & Credits to be repaid in Rupees										
Total	—	30.28	—	30.28	115.48	154.76	35.42	154.76	35.42	119.34
C. P.L. 480 Assistance	—	—	—	—	313.42	313.42	179.41	313.42	179.41	134.01
D. Grants	—	154.84	87.19	67.15	57.84	124.99	65.43	212.18	152.62	57.56
Grand Total (A+B+C+D)	27.00	373.99	261.33	184.36	1,018.29	1,211.65	478.53	1,482.98	690.86	733.12

* Figures in regard to this are upto the end of September 1958.

@ This does not take into account aid made available after September 1958, firm details of which are not available.

† The Bank has decided to give \$5 million dollars for the Koyana project (Apr. 1959).

TABLE-2.
I.B.R.D. Loans.

Year of Loan Agreement.	Principal Amount* (Net of cancellations).	Purpose.	Period (In years).	Interest.	Commencement of Amortisation.
1. 1949 August ..	33.8 (15.6)	Railway rehabilitation†	15	4 %	1950
2. 1949 September ..	7.2 (3.4)	Agricultural Development†	7	3½ %	1952
3. 1950 April ..	18.7 (8.0)	Electric Power Development (Damodar Valley Corpn.)†	20	4 %	1955
4. 1952 December ..	20.0 (14.3)	Expansion of iron and steel production facilities (India Iron & Steel Co.)	15	4½ %	1959
5. 1953 January ..	10.5 (5.0)	Electric Power Development, Flood Control & Irrigation (Damodar Valley Corporation)† ..	25	4½ %	1956
6. 1954 November ..	14.0 (6.6)	Electric Power Development (Tata Hydro, Andhra and Tata Power Companies for Trombay plant) ..	20	4½ %	1958
7. 1955 March ..	10.0 (4.8)	Foreign Exchange for Development of private industry (Industrial Credit and Investment Corporation of India)	15	4½ %	1961
8. 1956 June ..	75.0 (35.7)	Expansion of steel production (Tata Iron & Steel Co.) ..	15	4½ %	1959
9. 1956 December ..	20.0 (9.5)	Steel expansion (IISCO II)	11	5 %	1960
10. 1957 March ..	5.6 (2.7)	Purchase of aircraft (AIIT)†	9	3½ %	1964
11. 1957 May ..	9.8 (4.7)	Electric power development (Trombay II) ..	18	5½ %	1960
12. 1957 July ..	20.0 (12.8)	Railway improvements†	15	5½ %	1961
13. 1957 November ..	32.5 (15.5)	Expansion of steel production (TISCO II) ..	13½	6 %	1960
14. 1958 June ..	29.0 (13.8)	Calcutta port improvements (a)	20	5½ %	1963
15. 1958 June ..	14.0 (6.7)	Madras Port improvements (a)	20	5½ %	1963
16. 1958 July ..	25.0 (11.9)	Electric Power Development (Damodar Valley Corpn.) (a)	20	5½ %	1961
17. 1958 September ..	86.0 (40.8)	Railway improvements (a)	20	5½ %	1963
Total	507.1 (241.5)				

† Public Sector

* Figures are in million dollars. Those in brackets are in Rs. Crores

REPAYMENT OF LOANS

A statement was made in the Lok Sabha on March 13, 1959 by the Finance Minister on estimated repayment of foreign loans (both principal and interest) on Government account from 1959-60 to 1963-64

The statement is given below

(Rs. lakhs)															
	1959-60			1960-61			1961-62			1962-63			1963-64		
	Cap	Int.	Total	Cap	Int.	Total	Cap	Int.	Total	Cap	Int.	Total	Cap	Int.	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
A. Repayable in Foreign Currency															
(i) * Foreign Loans	7.03	12.64	19.67	23.96	20.31	44.27	47.11	25.59	72.70	43.35	23.78	67.13	51.28	22.16	73.44
(ii) ** I.M.F. Drawings	—	2.50	2.50	1.52	2.43	36.95	60.71	2.36	63.07	—	—	—	—	—	—
(iii) *** Deferred Payment Liabilities (Public Sector) (As on 1-10-58)	2.54	—	2.54	4.51	—	4.51	6.42	—	6.42	5.43	—	5.43	1.19	—	1.19
Total 'A'	9.57	15.14	24.71	62.99	22.74	85.73	114.24	27.95	142.19	48.78	23.78	72.56	52.47	22.16	74.63
B. Repayable in rupees :															
Foreign Loans	2.83	2.86	5.19	3.12	5.56	8.68	4.29	6.53	10.82	5.42	8.68	14.10	6.12	9.37	15.49
Total A & B	11.90	18.00	29.90	66.11	28.30	94.41	118.53	34.48	153.01	54.20	32.46	86.66	58.59	31.53	90.12

Note.—The above statement includes loans formally authorised but not yet fully drawn and has been prepared on the basis of an estimated rate of drawing.

* This includes foreign loans granted to non-government agencies in the public sector (e.g. Madras Port, Calcutta Port, Air India International) under guarantee of the Government of India.

** The interest charges on I.M.F. drawings, which are normally payable in gold, become payable partly or wholly in Rupees depending upon the level of the country's monetary reserves at the time each payment falls due.

*** Figures in respect of Deferred Payments are inclusive of interest charges.

EDUCATION

Note: Educational statistics are provided in a series of tables at the end of the article.

SINCE August 15, 1947 Education at the Centre has been constituted into a separate Ministry of Education. The State Governments are fully autonomous in regard to educational matters except in respect of educational development programme for which they receive grants-in-aid from the Central Government. Each programme has to be approved by the Central Government who have to examine whether it is in accord with the All-India approved educational policy.

The Ministry has offices in London, Washington, Nairobi and Bonn.

It is responsible for the four Central Universities of Aligarh, Banaras, Delhi and Visva Bharati, and some institutions of higher learning. Other departments that come within the purview of the Ministry are: UNESCO, Indian Wheat Loan Education Programme, National Book Trust, Social Welfare, Youth Welfare, Sports and Games, National Discipline, Child Welfare Scholarship Schemes, Propagation and Development of Hindi, National Archives, Indian Historical Records Commission.

The work of the Ministry is distributed among eight Divisions: Elementary and Basic Education, Secondary Education, Higher Education and UNESCO, Hindi, Social Education and Social Welfare, Physical Education and Recreation, Scholarships, and Administrative.

The Central Advisory Board of Education meets every year usually in January to review the progress of education in the various States. It consists of 43 members with the Union Minister of Education as Chairman. All the State Education Ministers, Members of Parliament, representatives of Inter-University Board and other specialised bodies and prominent educationists are represented on the Board.

The Board has 5 Standing Committees to deal with various educational problems. These are: Basic Education Committee, Social Education Committee, Secondary Education Committee, Higher Education Committee and General Purposes Committee.

Some of the other educational bodies associated with the Ministry are:

All-India Council for Elementary Education, All-India Council for Secondary Education, All-India Council for Technical Education* and the University Grants Commission.

In the States the Secretary, Department of Education, is the permanent head of the Department and the Director of Education acts as an expert Adviser to the Minister in charge of Education. The Director controls the inspecting staff and the teaching staff of the Government institutions. In some States the functions of Director are discharged by the Educational Officer, in others by the Education Secretary.

The authority of Government in controlling the system of public instruction is in part shared with and in part delegated to Universities, and Boards of Secondary and Intermediate Education as regards secondary education, and to local bodies as regards elementary education in some States.

The control over higher education is exercised through the University Grants Commission.

At the beginning of 1959 there were 41 universities and 13 Boards of Secondary Education.

Certain forms of Technical Education are under the technical departments concerned and come within the purview of the Minister in charge of those Departments.

Institutions under private management are controlled by Government and by local bodies by "recognition" and by the payment of grants-in-aid, with the assistance of the inspecting staff employed by Government and by local bodies.

During 1956-59 the total Central assistance on States' schemes was Rs. 11.81 crores. State-wise the amounts sanctioned in Rs. lakhs were: Andhra 60, Assam 51, Bihar 100, Bombay 160, Kashmir 17, Kerala 67, M. P. 74, Madras 108, Mysore 70, Orissa 84, Punjab 58, Rajasthan 50, U.P. 130, W. Bengal 155.

The average annual cost per student in primary, secondary and higher education was respectively Rs. 25.4, Rs. 68.2, Rs. 496.1. The Government of India incurred Rs. 5.4, 0.9 and 12.8 respectively out of the above costs.

The real problem of Indian education is finance with which is tied up the quality of teaching at all levels and the pay-scales and service conditions of teachers.

Some specific problems are lack of school buildings, of trained teachers, short supply of teachers especially in basic, science, technology, lack of equipment, under-staffed Directorates and Inspectorates.

Questions over which the public mind is agitated are how to hasten free and compulsory elementary education for 6-14 age-group, how to make basic work on a mass scale, how to convert as quickly as possible secondary schools into multi-purpose and higher secondary schools with adequate trained staff and equipment, the medium of education and the language formula, the place of Sanskrit, better system of examination, the problem of limiting admission to Universities, the three-year degree course, and student indiscipline.

One of the problems which will bear a longer note because it is concerned with the whole ideology on which the education system is based—this problem is one of inculcating a sense of national cohesion and emotional integration in schools and colleges.

Questioned on this subject the Minister of State for Education said in Parliament that this was really the problem of building up national character and was therefore a process of evolution over a long period of time.

However, the Ministry was taking general measures to re-orient the approach and background of teaching.

One of the major steps taken in this connection is the acceptance of the basic system of education as the national pattern of education. Under this system, school children of all castes, creeds and classes are brought together without distinction of any kind. It is hoped that in the course of time this system of education will help establish a classless society based on co-operation and non-violence.

In the new syllabus for the higher secondary schools, the old subjects of history, geography, civics have been combined under the general heading of "Social Studies", the aim of which course is to prepare the students for an intelligent and effective participation in group and national life. During the final year of the higher secondary course, the students have to study as one of the topics the problems of national reconstruction.

Another major step is the holding of Youth Festivals every year in which all Universities participate. In this manner, college students of both the sexes from all parts of the country are brought together and get an opportunity of community living.

The National Bank Trust of India is publishing certain books, the purpose of which is to inculcate the sense of national cohesion and emotional integration among students and the public.

National Discipline Scheme

Yet another step in this direction was taken when the National Discipline Scheme was sanctioned as a part of the educational development programme under the Second Five Year

Plan. The scheme aims at infusing in the younger generation a sense of discipline and citizenship and inspiring them to moral and spiritual values which are the accepted common cultural heritage of this country.

This Scheme is in operation in the Punjab, Bombay, West Bengal, Delhi, M.P., Kashmir and a few schools in U.P. The State Governments have their own schemes under the general supervision of the Central Ministry.

The total number of children trained by Central Government Instructors was 2,46,000 in Feb. 1959.

The number of schools where training was being imparted was as follows:

Delhi 19, Punjab 57, M.P. 4, U.P. 12, Bombay 139, Kashmir 20, W. Bengal 40, Total 292.

The total number of children on rolls was 1,68,792 broken up as follows: Delhi 18,208, Punjab 35,715, M.P. 2,842, U.P. 4,902, Bombay 66,714, Kashmir 12,678, W. Bengal 21,632.

These figures are exclusive of those under training in State schemes.

The scheme was started in 1954 in Delhi, Faridabad, Rajpura and Uthmanagar—actually in an institution for displaced persons, Kasturba Niketan, in Delhi. It gives physical training by means of drills, parades and sports. During vacation children are encouraged to join excursions and community work. There are lectures, demonstrations and tours. Through all these a sense of discipline and tolerance is inculcated.

PRIMARY EDUCATION

No. of primary schools on 31st March 1957: 287,318.

Total enrolment on 31st March 1957: 23,914,356.

Basic education is now accepted as the pattern of national education.

The aims have been: to provide free and compulsory education to all children upto the age of 14 as quickly as possible; second, to convert as many primary schools as possible into Basic schools; third, to enrich the curriculum by introducing creative activity and improve the quality of text-books.

The statistical position about Basic education is shown in the tables at the end of the article.

A national programme of orienting elementary non-Basic schools towards the Basic pattern is under implementation. The steps suggested do not require either large funds or fully trained personnel. They are concerned about the introduction of activities of a cultural, recreation and social nature.

Established in February, 1956, the National Institute of Basic Education carries on its various programmes of research, training and publication of literature. State Governments are given 100 per cent, and voluntary organisations 60 per cent, financial assistance towards improving the existing post-Basic institutions or starting new Basic schools at Secondary or post-Basic level. The establishment of a Central Basic School at New Delhi to demonstrate what an urban Basic school can achieve under proper conditions is under way. In addition to the schemes of 'Prize Contests for Books for Children', 'Organisation of Sahitya Rashmikalas for Training Writers of Children's Books' and 'Production of Model Books for Children', a scheme has been adopted for the production of suitable literature on Basic education in the form of guide books, monographs, supplementary reading material and source books.

An All-India Council for Elementary Education plans and organizes studies pertaining to elementary education and assists in the production of suitable literature.

* This is under a different Ministry.

SECONDARY EDUCATION

No. of secondary schools in 1957 : 35,828.

Enrolment in secondary schools : 93,84,167.
No. of multi-purpose schools end of March 1958 : 1,143.

Second Plan target : 1,304.

No. of Higher Secondary Schools end of March 1959 : 1,033.

Second Plan target : 1,197.

Plan allotment for reorganization of secondary education : Rs. 51 crores.

Central assistance for 1958-59 : Rs. 3.33 crores.

Allotment for 1959-60 : Rs. 4 crores.

Central assistance for increased pay of teachers 1967-68 : Rs. 42.61 lakhs.

The Centre bears half the increased cost of all schemes.

The accepted pattern of education comprises eight years of elementary (Basic) education; three years of secondary education with diversified courses to give it a vocational bias and make it a terminal point for entry into trade or profession; and three years of university education leading to the first degree.

At the secondary stage, a child should in addition to the core curriculum which would include languages, social studies, general science and one compulsory craft—a child should opt for one of the following diversified courses to be provided in reorganised multi-purpose schools :—humanities, science, technical, commerce, agriculture, fine arts or home science.

Except science, humanities and commerce the groups are relatively new to secondary schools. Multi-purpose schools are schools in which these have been introduced.

This new scheme for the conversion of high schools into multi-purpose schools was launched in 1964 along with a number of ancillary schemes, such as the training of teachers in new subjects, improvement of teaching facilities particularly in science, of school libraries, the introduction of craft in middle schools, and also other miscellaneous schemes like teachers' seminars, training of career masters, etc.

The formula about language teaching now generally accepted is formed of three items :

1. Mother-tongue ; or regional language ; or mother-tongue and regional language ; or mother-tongue and classical language ; or regional language and classical language.
2. English or a modern European language.
3. Hindi for non-Hindi areas ; or modern Indian language for Hindi areas.

In the matter of reform of examination the proposals which hold the field have not so far been put into effect. These are improvement of the essay type of examination, inclusion of objective type tests as part of school examination, introduction of cumulative record cards, and the assignment of a certain percentage of marks in the final examination to the work done during the year.

Early in 1957 an American expert held six five-day work-shops for secondary school teachers to train them in the preparation of test material, and another for teachers of training colleges.

Copies of a programme of action accepted by a conference of representatives of Boards of Secondary Education and of Universities conducting the matriculation examination held in April 1957 and the recommendations of a conference of representatives of State Boards of Secondary Education held in Sept. 1958 were sent to all Governments for necessary action.

Among the recommendations are : Every State should set up an Examination Unit before 1961 ; the All India Council should produce a large pool of test material ; arrangements for the training of extra evaluation personnel should be made ; Schools should be notified in advance of the proposed changes.

The provision of diversified courses has given rise to the need for educational and vocational guidance on the part of teachers and school administrators. Accordingly it was recommended that Bureau of Educational and Vocational Guidance should be established in every State. Bureaus now exist in Andhra, Assam, Bombay, Bihar, Kerala, Orissa, U.P. and Madhya Pradesh.

At the Centre there is a Central Bureau of Educational and Vocational Guidance. This was established in Oct. 1954. It has been engaged in the preparation of notes on group guidance in the classroom and the organisation of training courses and seminars for counsellors. Five such courses were held at different places—Ferozpur, Meerut, Bangalore, Surat, Agra—in 1958. A ten-month course for counsellors and directors was also organised.

About text-books, the Secondary Education Commission had recommended the formation of special text-book committees to examine the problem.

The following States have taken measures to nationalise the production of text books partially or wholly : Andhra, Assam, Bihar, Bombay, Kashmir, Kerala, M.P., Punjab, Rajasthan, U.P. and West Bengal.

The Central Government's Central Bureau of Text-book Research—established in 1954—has framed criteria for the evaluation of text-books. It prepares syllabi and gives general guidance as well.

It has prepared a combined Basic and non-Basic syllabi for English, Hindi, Mathematics, Social Studies and Science for primary and middle grades. Twenty-four try-out lessons in science and social studies were also prepared.

A pamphlet entitled 'Hints on Text-Book Production for Authors and Publishers' is under preparation.

To strengthen science teaching science clubs are organised. Up to the end of 1957-58 more than 130 science clubs were started. At the end of the Second Plan two per cent of the secondary schools in every State will have science clubs—about 330 in all.

For the promotion of research in subjects of importance to secondary education there is an allotment of Rs. 1.64 lakhs for 1958-59. Much of the research is conducted in teachers' training colleges and Departments of education in universities, the provision for 1959-60 is Rs. 1.80 lakhs.

The Central Institute of English at Hyderabad for research in English teaching and training started functioning in November 1958.

For the promotion of Gandhi's teaching and way of life a selection of suitable books is being made for primary, secondary and university levels.

There is an All-India Council for Secondary Education set up in August 1955 to help implement the recommendations of the Secondary Education Commission.

It is an autonomous body with 22 members. Among the more important problems which it has tackled or is tackling are syllabi for the new subjects in multi-purpose schools. The draft syllabi have been distributed among recognized educational bodies. A second task is the reform of examination for the study of which the Council has established a unit. The Council is also organising refresher and training courses in evaluation for practising teachers. Teachers have been sent abroad—10 in Feb. 1958 to U.S.A.—for training.

A committee set up to review the work of the council reported in Dec. 1958. It has recommended that the Council should be reorganised to make it more representative and that it should be converted into a Directorate of the Ministry with advisory and executive functions. This proposal would probably be implemented in 1959.

The budget allotment for the council for 1958-59 was Rs. 29.80 lakhs and for 1959-60, Rs. 27.95 lakhs.

Multipurpose Schools

Below we describe the position in regard to the reorganisation of secondary education in the various States and indicate some of the problems that multipurpose schools face.

Eight States and two Union Territories (Andhra Pradesh, Kerala, Madhya Pradesh, Mysore, Orissa, Punjab, Rajasthan, West Bengal, Delhi and Tripura) have already introduced the revised pattern of Secondary Education. Two States (Madras and Himachal) propose to introduce it from 1959-60, while Bombay has not yet taken a final decision except for the Vidharbha Division which follows the new pattern. However it is hoped that Bombay will fall in line with the proposal in due course, since six of the eight Universities in that State have already accepted the three-year course. There is no information from Assam, while Uttar Pradesh has taken a decision against the scheme.

With regard to the progress of reorganisation, West Bengal has converted about a quarter of its High schools, while Madhya Pradesh and Delhi hope to complete the necessary upgrading by 1961. Madras, Punjab and Himachal Pradesh are expected to do so by 1963 and Assam by the end of the Fourth Plan. No definite replies have been received from the other States.

In Andhra, Madhya Pradesh, Madras, Rajasthan and West Bengal, students passing out of multipurpose schools are eligible for admission into professional institutions and Arts and Science colleges. In other States there are variations. In Bombay, the Nagpur University admits such students directly to the three-year course. In the Punjab, the students are eligible for admission to the pre-professional course but not directly to an Engineering College. Uttar Pradesh continues the old relationship between the Intermediate and B.A. classes. In Kerala and Mysore the entire question is still under investigation. In Orissa, the first batch from multipurpose schools will not be out until 1960 and in Assam not until 1962.

The new courses are fairly popular and the State Governments do not experience any special difficulties in attracting students. The popularity of the courses, however, varies from State to State. Thus, Agriculture does not seem to be popular in Kerala and Mysore—the average figures for the 9th class are 10 and 9. Commerce suffers a similar fate in Madras and in Kerala, while the same is true of Fine Arts and Home Science in Madras and Punjab. In Uttar Pradesh the crafts appear to be unpopular, while West Bengal has commented on the slump in the study of the Humanities. Science is reported to be popular everywhere.

The teacher remains the key for the successful implementation of any important educational reform. In the First Plan, assistance was given to 7 States (Assam, Andhra, Punjab, West Bengal, Orissa, Madras and Hyderabad) for setting up schools for training teachers in practical subjects, particularly Crafts, and to 8 States (Assam, Andhra, Bihar, Bombay, Punjab, Madhya Pradesh, Madras and Hyderabad) for expanding and improving training facilities in the existing institutions.

However, the magnitude of the problem is so great that shortages of teaching personnel continue all round. In the vocational subjects, teachers are not available in the scales of pay offered. In certain subjects adequate training facilities do not exist at the University or other levels. This may be due to the preoccupation of the existing institutions with the present backlog of untrained teachers or to the fact that schools have not always found it possible to spare teachers for training courses when substitutes are not easily available.

Some assistance in this field was given by the All India Council for Secondary Education which, during 1957 and 1958, organised nine seminar-cum-training courses at various places in the country to train teachers in all the effective (practical) Subjects.

At present all the State Governments except Punjab, Jammu and Kashmir, Mysore and Madras have established their Bureau of Educational and Vocational Guidance, but the position in the multipurpose schools is not very satisfactory. The States Bureau have not yet succeeded in reaching the schools to any large extent and a majority of secondary institutions, specially in Andhra, Madhya Pradesh, Kerala, Orissa and Rajasthan, are without any kind of guidance facilities. Nor have they taken up any training programmes for counsellors.

In the circumstances, such guidance as is being given is based on the cumulative record cards (wherever they exist), performance in achievement tests, examination marks and consultations between the heads of institutions and the subject teachers.

While no scientific study has been made of the reaction of parents to guidance, available information suggests that the parental reaction varies from place to place. In Bombay and Madras there has been no noticeable resistance. In West Bengal, Uttar Pradesh, Punjab and Mysore, however, experience seems to be different. Mysore and Uttar Pradesh have reported that parents have preconceived notions about the suitability of their wards for certain courses and will not easily give them up.

Equipment: The paucity of suitable textbooks is acutely felt. There are hardly any books written in accordance with the syllabus prescribed. The teachers have, therefore, to work hard to collect suitable matter from different sources. In the absence of textbooks the pupils are required to take down notes copiously. This leaves very little time at their disposal for self study. It has been experienced that as a result of this the prescribed courses cannot be adequately completed in the time available.

Rajasthan, Orissa and Madhya Pradesh seem to be already in possession of books in English and/or Hindi or the regional language. In West Bengal, which has prescribed no textbooks, books on all courses are available in English and on most courses in Bengali as well. In Bombay textbooks on agricultural subjects are available in the regional languages, textbooks in Commerce are under preparation while the question of preparing books in Fine Arts and Home Science is under consideration. Other States like U.P., Punjab and Madras are still examining the matter.

The All India Council for Secondary Education has brought out an important Handbook of suggestions for teaching Home Science and similar Handbooks for General Science and Social Studies are under preparation. The Council also expects to call expert committees soon for the preparation of instructional material in the practical subjects.

The position with regard to the buildings seems to be reassuring in many States. Madhya Pradesh, Rajasthan and Uttar Pradesh have either completed their construction programmes or are about to do so. Madras, Orissa and Punjab hope to reach completion by 1959-60. Mysore and Assam a year later. The position in Andhra Pradesh, Himachal Pradesh and Kerala is indefinite. Bombay and West Bengal blame the slowness of progress on the paucity of funds and building materials. Mysore blames dilatory government procedures and the non-availability of contractors willing to take up work in the sparsely populated areas.

Bombay, Madhya Pradesh, Madras, Orissa, Rajasthan and Uttar Pradesh do not experience much difficulty in equipping their institutions. Kerala, however, thinks that equipment of the right quality has been in short supply owing to the import policy of the Government of India. Mysore and Punjab find that local firms are not always able to deliver the equipment whereas foreign exchange difficulties stand in the way of direct import. West Bengal also complains of short supply.

UNIVERSITY EDUCATION

Position on 31st March 1957:

No. of Universities: 41 (March 1956).
No. of Colleges: 812.

No. of Technical and Professional Colleges: 531
Total no. of students: 7,98,101.
Second Plan allotment: Rs. 27 crores.

The policy in regard to university education is largely the one recommended by the Indian University Education Commission which made a report in 1949. (This report is summarised in a previous edition.)

There is now a University Grants Commission. (See also the note below.) Its duty is to take such steps as it thinks fit for the promotion and co-ordination of university education and for the determination and maintenance of the standards of teaching, examination and research.

Universities

There were in all 41 universities in India in December, 1956. The names of the universities with the names of the Vice-Chancellors are given below:—

The Central Universities are four: Aligarh, Banaras, Visva Bharati and Delhi.

It may be mentioned here that for purposes of employment under the Central Government the degrees of 8 institutions besides the universities mentioned below are recognised.

The institutions are: Gurukul University, Kangri, Haridwar; Jamia Millia Islamia, Delhi; Kashi Vidyapeeth, Varanasi; Gujarat Vidyapeeth (degrees awarded during 1950-52); Tilak Maharashtra Vidyapeeth, Poona (degrees awarded prior to 1932); Tata Institute of Social Sciences, Bombay; National Council of Rural Higher Education; and Qaumi Vidyapeeth, Lahore (degrees awarded upto 1927).

Agra University.—Lt.-Col. K. P. Bhatnagar, M.A., LL.B.

Aligarh University.—Col. B. H. Zaidi, B.A. (Cantab.), Bar-at-Law.

Allahabad University.—Dr. Shri Ranjan, M.Sc. (Cantab.), D.Sc. (France).

Andhra University.—(Waltair).—Dr. V. S. Krishna, B.A. (Oxon.), Ph.D. (Vienna).

Annamalai University (Annamalainagar).—T. M. Narayanaswamy Pillai, M.A., B.L.

Banaras Hindu University.—Dr. Veni Shanker Jha, Ph.D. (London).

Baroda University.—Dr. Jyotindra M. Mehta, M.A. (Oxon), Ph.D. (Lond.), Barrister-at-Law.

Bihar University (Patna).—Dr. Dukhan Ram, B.Sc., M.B., D.L.O., D.O.M.S. (Lond.).

Bombay University.—T. M. Advani, M.A., LL.B.

Calcutta University.—Professor N. K. Sidhanta, M.A. (Cantab.).

Delhi University.—Dr. V. K. R. V. Rao, M.A., Ph.D. (Cantab.).

Gauhati University.—S. K. Bhuyan, M.A., B.L., Ph.D. (Lond.), D.Litt. (Lond.).

Gorakhpur University (Gorakhpur, U.P.).—Dr. B. N. Jha, B.Ed. (Edin.).

Gujarat University (Ahmedabad).—Maganbhai P. Desai, Shataksa Parangala (Guj. Vid.).

Indian Agricultural Research Institute (New Delhi).—B. P. Pal, M.Sc., Ph.D. (Cantab.), (Director).

Indian Institute of Science (Bangalore).—S. Bhagwantham, M.Sc. (Madras), D.Sc. (Andhra), (Director).

Jabalpur University (Jabalpur).—Pandit K. L. Dubey, B.A., LL.B.

Jammu & Kashmir University (Srinagar).—A. A. A. Fyso, M.A. (Cantab.).

Jadavpur University (Calcutta).—Dr. T. Sen, Eng. (Munich), (Rector).

Karnatak University (Dharwar).—D. C. Pavate, M.A. (Cantab.).

Kerala University (Trivandrum).—Dr. John Matthai, B.A. B.L. (Madras), B.Litt. (Oxon.), D.Sc. (Lond.).

Kurukshetra University (Kurukshetra).—Dr. A. C. Joshi, D.Sc., F.R.I.

Lucknow University.—Prof. K. A. Subramania Iyer, M.A. (Lond.).

Madras University.—Lt.-Col. Diwan Bahadur Sir A. Lakshmanaswami Mudaliar, B.A., M.D., LL.D., D.Sc., F.R.C.O.G., F.A.G.S.

Marathwada University (Aurangabad).—S. R. Dongerkerry, B.A., LL.B.

Mysore University.—K. V. Pattappa, M.A., D.Litt.

Nagpur University.—Justice G. B. Badkar, M.A., LL.B.

Orissa University (Hyderabad).—D. S. Reddy, M.A. (Oxon.).

Patna University.—Dr. Balbhadra Prasad, D.Sc. (Lond.).

Poona University.—D. G. Karve, M.A.

Punjab University (Chandigarh).—Dr. A. G. Joshi, D.Sc., F.R.I.

Rajasthan University (Jaipur).—G. C. Chatterjee, M.A. (Punjab), B.A. (Cantab.).

Roorkee University.—A. N. Khosla, I.R.E. (Retd.).

Sardar Vallabhbhai Vidyapeeth (Vallabh Vidyarnagar, Kaira Dist., Bombay).—Babubhai J. Patel, B.A., LL.B.

Sanskrit University (Varanasi).

Saugor University.—Dr. Dwaraka Prasad Mishra, B.A., LL.B., D. Litt.

S. N. D. T. Indian Women's University (Bombay).—Dr. Premilla V. Thackersey, D. Litt. (Banaras).

Sri Venkateswara University (Tirupati, Andhra).—S. Govindarajulu, M.A., LL.B. (Cantab.), B.L., Bar-at-Law.

Uttal University (Cuttack).—Dr. P. K. Parija, M.A. (Cantab.), I.R.E. (Retd.).

Vikram University (Ujjain).—Dr. Mata Prasad D.Sc., F.R.I.C., F.R.I.

Visva Bharati University (Santiniketan).—Kshitis Chandra Chaudhuri, M.A.

The Banaras Hindu University Enquiry Committee revealed a disquieting state of affairs. The President promulgated the Banaras Hindu University Amendment Ordinance, 1958, which was replaced by an Act of Parliament which came into force on 20th Sept. 1958. Certain reforms have been introduced as an interim measure. The recommendations of the Committee are under the consideration of the Ministry which is also in touch with the Banaras University authorities, the U. G. C. and the U. P. Government. It is proposed to make suitable amendments in the Banaras Hindu University Act.

University Grants Commission

(C.S.I.R. Building, New Delhi)

The members and staff of the Commission are given below.

Members: C. D. Deshmukh (Chairman), Pandit H. N. Kumar, Dr. K. S. Krishnan, G. G. Chatterji, Dr. A. Lakshmanaswami Mudaliar, Prof. N. K. Sidhanta, K. G. Salyidatta, N. N. Wanchoo, Dewan Anand Kumar.

Secretary, Samuel Mathai; **Asst. Secretary,** N. N. Ayengar.

*Deemed to be universities under Sec. 8 of the U. G. C. Act.

The statement given below shows the grants paid to the universities during 1957-58:

CENTRAL UNIVERSITIES.—	
Allgarh Muslim University.	Rs. 51,54,418-97
Banaras Hindu University.	54,24,780-80
Delhi University ..	42,24,866-68
Viveka Bharati University.	16,71,322-84
Total	1,64,75,399-29
Constituent Colleges of Delhi University ..	18,04,355-00
STATE UNIVERSITIES.	
Aliahabad University.	41,000
Andhra University ..	2,94,270
Agra University ..	3,10,800
Annamalai University.	6,40,337-15
M. S. University of Baroda.	10,11,076-57
Bombay University*	14,61,785-32
Bihar University ..	66,880
Calcutta University*	21,22,100-87
Gauhati University ..	7,48,640
Gujarat University ..	3,17,398-53
Jadavpur University ..	14,19,721-35
Karnatak University ..	5,20,000
Lucknow University.	36,900
Madras University*	23,50,480-75
Mysore University ..	30,000
Nagpur University ..	1,73,050-52
Omanah University ..	3,81,628-98
Patna University ..	2,32,500
Poona University ..	2,26,200
Punjab University ..	11,50,611
Rajasthan University ..	5,02,202
Sagar University ..	99,525
Kerala University ..	700
Roorkee University ..	8,46,140
Utkal University ..	5,17,100
Sri Venkateswara University ..	3,70,000
S. V. B. Vidyapeeth ..	36,586
S. N. D. T. Women's ..	4,92,322-50
Total	1,63,77,905-54
Total for Central Universities, Constituent Colleges of Delhi University and State Universities ..	
Grants paid by adjustments:—	
Non-Plan: 10,38,482 76	
Plan: 25,80,065 05	
Total: 36,18,547-81	3,46,57,659-81

* This includes centenary grants also.

Provision for 1958-59: Rs. 4-32 crores
Provision for 1959-60:—

Plan: Rs. 4-58 crores

Non-Plan: Rs. 2-06 crores.

Three-Year Course

The following 20 Universities have introduced the three-year degree course:

Delhi, Jadavpur, Sagar, Madras, Baroda, Karnatak, Kerala, Omanah, Viveka Bharati, Mysore, Vallabhbhai Vidyapeeth, Nagpur, Andhra, Allgarh, Annamalai, Sri Venkateswara Vikram, Poona, Marathwada and Rajasthan.

The following nine universities will introduce the course as from the year shown against each:

Bihar, Jabalpur, Patna and S. N. D. T. Women's as from 1959-60; Utkal and Calcutta as from 1960-61; Banaras and Punjab as from 1961-62; and Gauhati from 1962-63.

The other universities have agreed in principle to introduce the course (Agra, Aliahabad, Gujarat, Kashmir, Kurukshetra, Lucknow) except Bombay which has rejected it on academic grounds. Gorakhpur is still considering the scheme (March 1959).

It is estimated that the cost of implementing the scheme during the Second Plan is Rs. 15 crores. The Central Government and the State Government or the private management will share the expenditure equally. Thus the shares will be Central Government Rs. 5 crores, U. G. C. Rs. 2-5 crores and State Governments Rs. 7-5 crores. The U. G. C. will be concerned with the non-Government Colleges.

The allotments for 1958-59 are as follows:

Central Govt. for State Govts.: Rs. 35 lakhs.

Central Govt. for U. G. C. Rs. 35 lakhs.

U. G. C. for non-Govt. Colleges: Rs. 80 lakhs.

The allotments for 1959-60 are as follows:

Central Govt. for State Govts.: Rs. 25 lakhs.

Central Govt. for U. G. C.: Rs. 95 lakhs.

U. G. C. for non-Govt. Colleges: Rs. 120 lakhs.

The changing of all the High Schools into Higher Secondary Schools will take time and will cost a good deal of money. It has, therefore, been decided that the reform of education at the university stage need not wait till the Higher Secondary School has been universally introduced. As an interim measure it has been proposed that a student leaving School after Matriculation should be admitted to what is known as "a pre-university" class run by the university and, after successful completion of that course of one year, be admitted to the university in the Three-Year Degree Course.

It may be argued that with the introduction of the pre-university class all that happens is that the total period of four years is divided slightly differently and that the change is not worth the trouble and expense; but this would not be correct. The reforms contemplated are not merely in design and structure. The expectation is that the pre-university class will be used (as it has been used in the Delhi University since 1941) as a preparatory year giving a grounding in General Education and a special stress on the study of languages particularly English to enable students to follow teaching through that language.

The course of study for the three years is conceived as an integrated whole and planned at a somewhat higher level than was possible when the degree course was only two-year long.

Pay Scales—The U. G. C. has prepared a scheme for raising the pay scales of teachers by which the U. G. C. will bear 50% of the increased expenditure in the case of men's colleges and 25 in the case of women's colleges.

The following typical scales were fixed: Principals Rs. 600-40-800, Heads of Departments Rs. 400-25-700, Lecturers Rs. 200-15-320-20-500, tutors and demonstrators Rs. 150-200.

The Universities of Poona, Calcutta, Bombay and Omanah have agreed to the scales fixed.

About the subject, General Education, material for this is being prepared at Allgarh University and experiments are in progress in one or two colleges.

Examination Reform—About reform in examination, the universities were requested in 1955 to examine the desirability of reducing the burden of the final examination, distributing the work of the students uniformly throughout the course, instituting tutorial work and trying out experiments in the use of objective tests. The Allgarh University, which was given grants to conduct research in the system of examination at the university stage, established a psychometric unit to experiment with the comprehensive examination of achievement in selected subject fields. The achievement tests devised by this unit are under statistical examination.

The University Grants Commission is examining the methods of educational and achievement testing of students through methods other than examination. The Commission has also sent its officers to various foreign countries to study this problem; and have set up a committee to examine the question. Dr. Bloom, the American expert, conducted four seminars for the university teachers during July-August 1958, in this context.

Another problem is over-crowding at universities. It is hoped that the acceptance of the three year-course would help to regulate the numbers to some extent. It is a condition of financial assistance that colleges should agree to a phased reduction. The maximum strength suggested is 800 to 1,000 for a college.

Medium of Instruction:—In regard to the medium of instruction, except for Sagar University no university has switched to Hindi as the sole medium of instruction. Agra, Aliahabad, Banaras, Baroda, Bihar, Delhi, Lucknow, Nagpur, Omanah, Rajasthan and Sardar Vallabhbhai Vidyapeeth have decided to introduce Hindi as the medium of instruction by stages upto the bachelor's degree and in certain cases upto the M.A. stage. Patna University will adopt Hindi as the medium of instruction for non-language subjects from 1959. Certain universities in the non-Hindi-speaking regions are considering the question of introducing the regional language as the medium of instruction. No University, however, appears to have taken a final decision in the matter so far.

The University Grants Commission has suggested that the change from English to an Indian language should not be hastened and that it should be preceded by adequate preparatory measures. Even after the change, English should continue to be studied by all university students.

RURAL HIGHER EDUCATION

To look after the interests of higher education in the rural areas a National Council for Rural Higher Education was set up in 1956.

There exist ten Rural Institutes whose aim is to do for the rural areas what the universities do for the urban areas. These Institutes are to provide courses in rural services, rural and civil engineering and agricultural science.

These Institutes will confer diplomas after a three-year course preceded by a higher secondary examination. The details of the preparatory matriculation course are also being worked out.

The ten Institutes are:

Gandhigram Rural Institute, Gandhigram; Ramakrishna Mission Vidyalyaya Rural Institute, Coimbatore; Lok Bharati Rural Institute, Banars; Rural Institute, Amravati; Mouni Vidyapeeth Rural Institute, Garhota; Vidya Bhawan Rural Institute, Udaipur; Balwant Vidyapeeth Rural Institute, Bichpuri, Agra; Rural Institute Jamia Millia, New Delhi; Institute of Rural Higher Education, Sriniketan, West Bengal; Rural Institute of Higher Studies, Birouli, Bihar.

Proposals for starting Rural Institutes in each of the States of Punjab and Madhya Pradesh, in addition to the ten Rural Institutes already functioning are under consideration. The Three-Year Diploma in Rural Services offered by the Rural Institutes has been recognized as equivalent to the first degree of a recognized University by the Government of India for a period of five years in the first instance—till Nov. 3, 1963. The question of recognition by the universities is under the consideration of the Inter-University Board.

The Institutes are assisted financially to the extent of 75 per cent of the non-recurring and 50 per cent of the recurring expenditure by the Central Government except the ones at Sriniketan and Jamia Nagar which receive a full grant.

The training is so fashioned as to make the students into effective leaders of the community to which they belong.

Today, these Institutes have developed into something more than mere schools of higher learning. They are fulfilling a variety of vital functions. In the first place, they have succeeded to a significant extent in putting a stop to the process which resulted in a continuous migration of talented youth from rural areas to towns in search of learning and work. Besides, they are acting today as clearing-houses for ideas in rural areas. They undertake research and experiments in development planning and encourage and guide pilot projects in selected

villages. The time is not far when these Institutes will develop into key centres of development planning in rural communities.

They also play a part in removing the gulf between the opportunities that exist for education in the urban and rural areas.

TECHNICAL EDUCATION

In 1947 India produced only 980 graduates in engineering and 820 graduates in technology and about 1,450 diploma holders. In 1957 the total output of graduates in this field was over 4,000 and of diploma holders about 5,000.

When the relevant schemes under the Second Plan are implemented technical institutions will be in a position to admit every year about 12,915 students for degree courses and 24,547 students for diploma courses.

Every State except Jammu and Kashmir has at least one engineering college and one polytechnic.

Below we show the progress made in this field—the number of institutions in existence; the intake of students and the out-turn of students:

		1951	1956	1957	1960-61 (estimate)
Institutions	Degree	53	70	74	90
	Diploma	89	109	129	187
Intake	Degree	4,788	6,367	9,778	12,915
	Diploma	6,216	9,899	15,995	24,547
Out-turn	Degree	2,683	4,293	4,290	—
	Diploma	2,628	4,075	5,034	—

In March 1958, there were 83 colleges offering first degree courses in engineering and technology and 149 polytechnics offering diploma courses with an annual admission capacity of 11,000 and 19,400 students respectively.

About 5,000 persons are being trained abroad of whom 40 per cent are engineers. About one-third of these return every year.

Since it takes at least four to five years to train a competent engineer and still longer to establish a fully developed technological institution some shortage during the Second Five-Year Plan is unavoidable.

Mining engineers and petroleum technologists are and will for some years continue to be in short supply. There is also a general shortage at the top levels of design and research engineers, research scientists, teachers and medical specialists.

At the other end, there is also a short supply of machine operators, surveyors, draftsman-engineers and geological drillers.

About 40,000 craftsmen are to be trained by the end of the Second Plan. For this purpose over 20,000 additional seats are to be established in industrial training institutions. Construction of buildings to house the institutions were to be completed by 1959-60. Equipment worth Rs. 75 lakhs has been offered by the U.S.

A number of schemes have been instituted for the training of teachers for technical institutions. It has been decided to create a pool of trained

teachers for the various technical institutions. For this purpose, teaching fellowships will be instituted, and the selected persons will be apprentices to senior professors to give them teaching experience. On the completion of apprenticeship fellowships holders will form a pool and the technical institutions will be invited to select from the pool, teachers for their requirements.

The training period will last from two to three years.

During the training period, graduates are paid fellowships of Rs. 350-25-400 and diploma holders fellowships of Rs. 200-20-240.

It is proposed to select in the first year of the scheme 75 graduates and 50 diploma holders for the training. The number will be increased gradually in subsequent years.

The Central Government now bears 50 per cent of the expenditure for schemes for undergraduate courses and 100 per cent for post-graduate and specialised and research courses.

An open door policy is also now adopted for the establishment of technical institutions by private agencies. This has helped in the development of technical education.

Foreign Help

Foreign assistance is in the form of scientific and workshop equipment, foreign experts as professors at Indian institutions, training facilities for Indians abroad.

The assistance received from various agencies upto 30th June 1958 is shown below:

	Equipment Rs. lakhs	Foreign Experts	Fellowships Abroad
T. C. M. (U.S.A.)	33.04	43	57
Wheat Loan Programme (U.S.A.)	3.44	—	3
Colombo Plan (U.K. & Australia)	8.65	6	13
UNESCO AND UNTAA	23.42	28*	15
Total	68.55	77	88

* Includes 13 Soviet experts, one American expert and three Russian translators.

An agreement was signed with the U.S.S.R. in Dec. 1955. This provided for free equipment worth Rs. 36 lakhs, the training of 60 Indian engineers in the U.S.S.R., for Soviet professors on deputation in India, publication in India of Russian text books in engineering and their translation into English.

A new agreement with the U.S.A. under T.C.M. for 1958-59 was signed in Sept. 1958.

This provides for 26 U.S. experts on deputation here, training of 20 Indians abroad, and free equipment worth \$80,000. The U.S.A. has also offered in addition to train 60 Indian engineers.

Institutes of Technology

The establishment of the Indian Institute of Technology at Kharagpur in West Bengal as the first in a chain of four regional higher technological institutes, and the development of the Indian Institute of Science at Bangalore as a centre of advanced technology mark a new trend in the field of technological education in this country.

The Indian Institute of Technology provides facilities for education to over 1,800 students in the undergraduate courses and to 400 in post-graduate courses and research work.

By an Act of Parliament the Institute has been made an autonomous body. While the Central Government will finance it, its administration will be in the hands of a Board of Governors.

The Institute in Bombay has started functioning, while two—in Madras and Kanpur—are in the process of establishment.

Each Institute when completed will provide for the education of over 1,800 students in the undergraduate and 400 in the post-graduate courses.

Thus by 1961 there will be over 10,000 places for advanced engineering courses in the country and 21,000 for diploma.

The Institute in Bombay has secured technical assistance from the U.S.S.R. under the UNESCO Expanded Technical Assistance Programme. Thirteen Soviet experts have already arrived. Equipment worth Rs. 3 lakhs has also been received. More equipment is expected in the near future.

For a fuller note on the Indian Institute of Science at Bangalore see under Bangalore District, Mysore State.

The All-India Council for Technical Education was set up by the Government of India in November 1945 to advise them on all matters relating to the co-ordination and development of technical education in the country after the high school stage. Its personnel has been drawn from Government of India Departments, State Governments, Parliament, industry and commerce, professional and educational bodies.

The Council has appointed four Regional Committees—one each for the eastern, western, southern and northern regions of the country to survey the facilities of their region, determine regional needs, foster liaison between industry and technical institutions, assist and advise on co-ordinated development.

SCHOLARSHIP SCHEMES

In order to promote fundamental research in various branches of Science and Technology in Universities and other Educational Institutions, grants-in-aid are paid to individual research workers who experience difficulties in the pursuit of their research work.

Between 1952 and 1958 grants amounting to Rs. 14,97,550 were sanctioned for payment to individual research workers through the Universities concerned.

Pursuant to the recommendation of the Scientific Manpower Committee, a Research Training Scholarships Scheme was started in 1949-50 with the twin objective of promoting scientific and technological research in Universities and other educational institutions and training research workers required for various national development programmes.

These scholarships are awarded to candidates possessing M.Sc. or equivalent qualification and who are engaged in research of doctorate standard in basic sciences or to graduates in engineering or technology who are doing post-graduate research.

At present there are about 680 scholarships each of the value of Rs. 200 per month, in force. Each scholarship is tenable for a period of three years for a candidate and after every three years the scholarship is rewarded to a new candidate.

The scheme for the award of National Research Fellowships was initiated by the Government of India in 1955-56 to encourage brilliant young scholars of the highest possible standard in science or technology who promise to do research at any recognised University or Research Institution. Each fellowship is of the value of Rs. 400 per month.

A grant of Rs. 1,000 per year is also given to each fellowship for any special apparatus or equipment required for research. The tenure of the award is three years extendable up to five years in special cases.

The total number sanctioned so far is 80, which is the target for the Second Plan.

The Practical Training Stipend Scheme was formulated to give post-institutional practical training in industrial establishments to selected students qualifying from engineering and technological institutions. There are two categories of stipends, namely senior stipends of the value of Rs. 150 per month and junior stipends of the value of Rs. 100 per month which are awarded to graduates and diploma-holders in engineering and technology respectively. The stipends are instituted in selected Government establishments and industrial concerns who offer training under proper supervision and assume responsibility for it.

There are over 1,000 training places.

Allied Courses

The importance of training in business management and industrial administration are well recognized, and a comprehensive scheme on an all-India basis prepared.

Courses in Management Studies are now offered at the Indian Institute of Technology, Kharagpur; the Delhi School of Economics, Delhi; the Department of Economics, Madras University, Madras; the School of Economics and Sociology, Bombay University, Bombay; the Indian Institute of Science, Bangalore; and the Institute of Social Welfare and Business Management, Calcutta.

An Administrative Staff College in India on the lines of the Administrative Staff College, Henley-on-Thames, England has been established at Hyderabad. The College is a joint enterprise of the Central Government, private industry and commerce. It is an autonomous organisation, and functions as a registered Society under the Societies Registration Act. The administration and management of the affairs of the College is entrusted to a Court of Governors.

The first course was started in Dec. 1957. The maximum intake is 60 students.

Four regional schools of printing at Madras, Bombay, Calcutta and Allahabad have started functioning.

Each school is a joint enterprise of the Central and State Governments and is designed to train 200 candidates every year.

A fifth school is proposed to be started in Delhi as part of the Delhi Polytechnic.

A School of Town and Country Planning has been set up by the Central Government as a joint enterprise with the Institute of Town Planners (India) to provide facilities for training in Town and Country Planning.

Second Plan

The Second Five-Year Plan of Technical Education as prepared by the All India Council for Technical Education includes proposals for projects which are estimated to cost Rs. 80 crores. The Plan envisages development of technical education at all levels in addition to the improvement and development of the existing institutions. The Plan provides for the establishment of three Higher Technological Institutions in the western (Bombay), northern and southern regions. The Plan also provides for the establishment of 29 new polytechnics, 8 engineering colleges and about 61 junior technical schools. Further, there is a provision for starting refresher and summer courses for teachers, schemes for training of technical personnel.

Of the eight engineering colleges one each will be established in Andhra, Kerala, Madhya Pradesh, Orissa and Punjab and two in Assam.

Of the 29 polytechnics, six will be established in Mysore three in Andhra, one in Kerala, one in Pondicherry, five in Bombay, three in Madhya Pradesh, two in Rajasthan, two in Uttar Pradesh, one in Jammu and Kashmir, two in West Bengal, one in Tripura and one in Assam.

The junior technical schools will be located as follows: 18 in Kerala, 10 in Bihar, seven in West Bengal, six in the Punjab, five in Madhya Pradesh, four each in Rajasthan and Jammu and Kashmir, two each in Bombay and Orissa and one each in Assam, Himachal Pradesh and Tripura.

The establishment of these institutions will result in an intake of 12,915 into degree courses and 24,547 in diploma courses by the year 1960-61.

For the establishment of these institutions and for the development of the existing institutions the State and the Central Plans provide for a total outlay of Rs. 58 crores.

SOCIAL EDUCATION

The new concept of social education is embodied in a five point programme: literacy, education in health and hygiene, training for trade, profession or calling, citizenship, and healthy recreation.

It is also directed to arouse interest in the development plans in Community Project areas and to provide leadership.

The Central Government guides, co-ordinates and helps with finance, but the actual burden of implementing the schemes lies with the State Governments.

The programme is based on the report of a committee called the Saksena Committee which was adopted in 1949 and a target for the attainment of 50 per cent literacy in the five subsequent years was recommended.

Since the inception of Community Projects in 1952, the concept of Social Education has been oriented to arouse the people's interest in different developmental activities under Five Year Plans, to strengthen social harmony and social solidarity and to bring home to them the knowledge essential for a healthy social life, and to generate village leadership. The Central Government guides, co-ordinates and helps with finance but the actual burden of implementing the schemes lies mostly with the State Governments. Some voluntary organisations as also other Ministries of the Government of India, Ministry of Community Development in particular, are also doing good work in the field of social education.

The programme of Social Education is put through literacy classes, Community Centres, Youth Clubs, including Gram Sakshas Dal, Farmers' Clubs and Mahila Samities and libraries which are an essential agency of mass education.

The number of State Central and District Libraries has steadily increased. At present (1959) there are 23 State Central and 172 District Libraries, in the country.

Radio listening and Discussion Groups, demonstrations and excursions have been effectively used. Besides radio, visual aids and printed literature have served as means of imparting education to the masses.

To have suitably trained personnel for the implementation of Social Education programmes, the Government of India have established 25 Janata Colleges for the training of village leaders. The Ministry of Community Development conducts a number of Social Education Organisers Training Centres under their scheme. A National Fundamental Education Centre has been set up to train District Social Education Organisers. The Centre, also conducts research and evaluation of social education programmes. So far 117 District Social Education Organisers have been sanctioned by the Government of India. Some States have also appointed Assistant/Deputy Director of Social Education to effectively supervise, and guide social education work.

To encourage production of suitable literature for neo-literates and social education workers, the Ministry has organized a number of schemes, including the award of prizes to authors, and the bulk purchase of good books.

The Ministry has its own programme of publishing literature for social education workers and neo-literates. Particular mention in this connection may be made of "Teachers Handbook of Social Education", "Social Education" and the Popular Encyclopedia in Hindi (Gyan Sarovar), meant for neo-literates as follow-up literature, two volumes of which have already been published.

A school of librarianship is being set up under the administrative control of the Delhi University to organise training courses for librarians from States and conduct research in librarianship.

To evolve a suitable curriculum for adults schools an experiment is being conducted through the agency of the Research, Training and Production Centre or the Jamia Millia, New Delhi.

The Government of India have set up a Library Committee and a Rural Education Committee to review the position in these fields.

A pilot Workers' Institute is proposed to be set up in a town which has a large labour population.

With a view to properly organise social education in urban areas, Co-ordinating Councils are proposed to be set up in a few cities.

FREE AND COMPULSORY EDUCATION

At the end of the First Five Year Plan the position was as follows:—

The percentage of children of the age-group 6-14 attending school was 49 per cent.

Compulsory education for the age-group 6-11 (approximately) was introduced in selected areas of the various states, comprising 1,093 towns and 39,376 villages.

There were 46,218 schools in these areas, with an enrolment of 60,67,412 students.

Free education for the children in the age-group 6-11 has been introduced in many states.

The aim is now to achieve free and compulsory education by the end of the Third Plan, that is, 1960-61. It is believed that even this is difficult to achieve as it would require about Rs. 300 crores.

The statistical position is given under the tables at the end of the article.

The position about free education is as follows:

Assam: Primary education is free for children in the age-group 6-11.

Bihar: Education is free for children in the age-group 6-11.

Bombay: Primary education is generally free.

Jammu and Kashmir: Education in the State has been made free from primary to college level.

Madras: Primary education is generally free in the State.

Mysore: In the areas of the former Mysore State, education upto the age of 14 is free. In Bombay-Karnatak, Hyderabad-Karnatak and Madras-Karnatak areas primary education is free in the schools controlled by the Government and the local bodies. The aided schools in these areas, however, charge fees.

Orissa: Education is free for all children upto the age of 11.

West Bengal: Primary education is free upto the age of 11 in rural areas of the State and also in certain municipalities of the State.

Uttar Pradesh: Education is free in classes 1 to 8.

Delhi: Free primary education is imparted upto the age of 11 years. Concession of free education upto the age of 14 years has also been extended in all senior basic schools in rural areas of the territory.

Laccadives, Minicoy and Amindivi Islands: Primary education is free.

Tripura: Education is free in all Government schools.

Andaman and Nicobar Islands: Primary education is free.

Complete information was not available from the Governments of Andhra Pradesh, Madhya Pradesh, Kerala, Punjab and Rajasthan and the administrations of Manipur and Himachal Pradesh at the time of writing.

WOMEN'S EDUCATION

The National Committee on Women's Education appointed in May 1955 under the chairmanship of Mrs. Durgabai Deshmukh submitted a report on Jan. 8, 1959.

The other members of the Committee were: Miss S. Panandikar, Mr. P. N. Mathur, Shrimati Kulkarni Sayani, Mr. J. P. Naik, Shrimati Zera Ahmed, Shrimati O. C. Srinivasan, Kumari S. Rajan (Secretary).

Among the recommendations were: Women's education should be regarded as a major special problem. Special machinery should be created to deal with it. The Centre should assume full responsibility, both financially and for setting the targets. In the States there should be State Councils, and a Woman Joint Director of Education in special charge. An extra fund of Rs. 10 crores should be earmarked for the rest of the Plan period. Plans should be prepared and the entire financial responsibility should be taken by the Centre. In the Third Plan there should be a special programme and a sum of Rs. 100 crores allotted. The U. G. C. should set aside Rs. one crore for the rest of the Plan period. There should be an increase in the remuneration of women teachers and an old-age pension scheme. Extra amenities should be provided to induce women teachers to take jobs in rural areas. Part-time teaching by women should be encouraged. All discrimination between Government and non-Government agencies in the matter of grants should be abolished.

SCHOLARSHIP SCHEMES

(See under Students' Guide).

FIVE-YEAR PLANS

In the First Five-Year Plan about Rs. 169 crores were provided for the development of education—Rs. 44 crores at the Centre and Rs. 125 crores in the States.

More than half of this amount was provided for Elementary (including Basic) Education and the rest for the improvement of Secondary education, University education, Technical and Vocational education, Social education, etc.

The operative years of the First Five-Year Plan, in fact, started from 1953-54 and in that sense it was a Three-Year Plan in which an attempt was made to fulfil, so far as possible, the achievement of the objectives formulated.

The estimated actual expenditure during the Plan was Rs. 152 crores—Centre Rs. 35 crores, States Rs. 117 crores.

The Second Plan allotment was Rs. 307 crores—Rs. 95 crores for Central Schemes and Rs. 212 crores for States Schemes.

But after the re-appraisal this was reduced to Rs. 275 crores—Centre Rs. 68 crores, States Rs. 207 crores.

The distribution of the provision between different fields of education in the First and Second Five-Year Plans is set out below :—
(Rs. in crores)

	First Five-Year Plan	Second Five-Year Plan
Elementary education	92	92
Secondary education	22	31
University education	15	45
Technical and Vocational education ..	23	52
Social education ..	5	5
Administration and Miscellaneous ..	11	30
Total ..	169	275

The estimated expenditures during the First Plan under different heads were: Elementary Education 85, Secondary Education 20, University Education 13, Technical and Vocational 20, Social Education 5, Administration and Miscellaneous 9, Total 152.

As a result of the implementation of the First Plan, the enrolment in classes I-V, VI-VIII and IX-XI increased from 1.92 crores, 0.81 crores and 0.12 crores respectively in 1950-51 to 2.52 crores, 0.48 crores and 0.20 crores in 1955-56 respectively. Although the proportion of girls availing of educational facilities increased to a great extent there were considerable disparities between boys and girls.

As a result of the steps taken during the First Plan, the development of Basic Education became an integral part of the programme of improving elementary education and in different degrees almost all the States advanced in this direction.

Towards the end of 1954-55, the Central Ministry of Education sponsored a programme for establishing 500 multi-purpose schools, assisting 900 existing schools with better facilities in the teaching of science, providing libraries in 500 multi-purpose schools and 1,500 ordinary secondary schools and introducing the teaching of crafts in 2,000 middle schools along with necessary supporting programmes for training of teachers, organisation of seminars, etc.

During the First Plan period, the number of university students increased from 3,96,745 to about 7,50,000; the number of universities from 23 to 32 and the number of colleges from 695 to 965.

The University Grants Commission began to function in 1954 with the specific purpose of assisting the universities and taking steps, in consultation with the universities for the promotion and co-ordination of university education, determination and maintenance of standards of teaching, examinations and research.

Second Plan

During the Second Plan, the intention is to expand the educational facilities at the elementary stage, reorganise the pattern of secondary education and improve the quality of education at the collegiate level.

The major physical targets aimed at under the Second Five-Year Plan are :—

	From 1955-56	To 1960-61
(1) Percentage of children of age-group 6-11 to be brought under instruction to total population of the age-group ..	52.1%	63.4%
(2) Percentage of children of age-group 11-14 to be brought under instruction to total population of the age-group ..	16.3%	19.7%
(3) Percentage of children of age-group 14-17 to be brought under instruction to total population of the age-group ..	8.1%	10.4%
(4) Number of Primary/Junior Basic schools ..	278,135	330,947
(5) Number of Junior Basic schools ..	11,073	33,513
(6) Number of Middle/Senior Basic schools ..	21,780	25,185
(7) Number of Senior Basic schools ..	4,842	10,768
(8) Number of High or Higher Secondary schools ..	10,838	12,863
(9) Number of High schools to be upgraded to Higher Secondary schools ..	47	1,197
(10) Total number of Multi-purpose schools to be established ..	367	1,304
(11) Universities ..	32	39

The plan for the compulsory education of 6-11 group will call for 14,000 additional teachers on the basis of one additional age-group for every year, and one teacher for every 35 students.

Whether the State Governments can carry through their plans depends on the availability of finances of the order of Rs. 300 crores during the eight years 1958-66.

NON-AFFILIATED INSTITUTIONS FOR DEGREE OR DIPLOMA ENGINEERING, TECHNOLOGY, COMMERCE

[Note: For Colleges see under Universities in each State.]

ANDHRA

Andhra Polytechnic, Kakinda.
Government Ceramic Institute, Gudur.
Vuyyur Polytechnic, Vuyyur.
Central Crafts Institute, Malapally, Hyderabad.
Government Technical College, Hyderabad.
Government Technical Training Centre, Nizambad.
Government College of Fine Art, Hyderabad.
Warangal Polytechnic, Warangal.

ASSAM

Assam Civil Engineering Institute, Gauhati.
H.E.H. Prince of Wales Technical Institute of Engineering and Technology, Jorhat.

BIHAR

Indian School of Mines and Applied Geology, Dhanbad.

Jamshedpur Technical Institute, Jamshedpur.
Ranchi School of Engineering, Ranchi.
Tirhut School of Engineering, Munshapur.
Chaibasa Technical School, Chaibasa.
Dehri Technical School, Dehri.
Ranchi Technical School, Ranchi.
Sindri School of Engineering, Sindri.

BOMBAY

Birla Vishwakarma Mahavidyalaya, Anand.
College of Engineering, Poona.
Government Leather Working School, Bandra (Greater Bombay).
Government Tanning Institute, Bandra (Greater Bombay).
L. D. College of Engineering, Ahmedabad.
Nautical and Engineering College, Bombay.
Radio Electric Institute, Bombay.

E. C. Technical Institute, Ahmedabad.
St. Xavier's Technical Institute, Bombay.
Sir Osrow Wadia Institute of Electrical Technology, Poona.

S. N. Parulkar Parul Polytechnic, Surat.
Victoria Jubilee Technical Institute, Bombay.
Deccan Education Society's Technological Institute, Poona.

Aurangabad Polytechnic, Aurangabad.
Lukhdhrij Engineering College, Morvi.
Shri A. V. Parikh Technical Institute, Rajkot.
Sir Bhavsinhji Polytechnic, Bhavnagar.

DELHI

Delhi Polytechnic, Delhi.

KERALA

Kerala Polytechnic, Kozhikode.

MADHYA PRADESH

Central Technical Institute, Gwalior.
Govindram Saksaria Kala Bhawan, Indore.
Polytechnic Institute, Bhopal.
Government Polytechnic, Ujjain.
Polytechnic Institute, Nowgong.

MADRAS

Arthur Hope Polytechnic, Coimbatore.
Central Polytechnic, Madras.
C. N. Technical & Industrial Institute, Vepery, Madras.
Institute of Leather Technology, Madras.
Madras Institute of Technology, Madras.
P.S.G. and Son's Charity Industrial Institute, Coimbatore.
Ramakrishna Mission Technical Institute, Madras.
Seshasayee Institute of Technology, Tennur, Tiruchirappalli.
Tamilnad Polytechnic, Madurai.

MYSORE

D. R. R. Occupational Institute, Davangere.
Indian Institute of Science, Bangalore.
National Institute of Engineering, Mysore.
Occupational Institute, Chintamani.
Silver Jubilee Technical Institute, Bhadravati.
School of Engineering, Bangalore.
S.L.V. Occupational Institute, Hassan.
Sri J. Occupational Institute, Bangalore.
Sri K. Silver Jubilee Technological Institute, Bangalore.
Rayalaseema Polytechnic, Bellary.
Dharmaprakas C.P.C. Occupational Institute, Mysore.
B.V. Bhoomrati College of Engineering and Technology, Hubli.
Gulbarga Polytechnic, Gulbarga.
Karnatak Polytechnic, Mangalore.

ORISSA

Orissa School of Engineering, Cuttack.

PUNJAB

Engineering College, Ludhiana.
Government Hosiery Institute, Ludhiana.
Government Institute of Dyeing & Calico Printing, Ludhiana.
Government School of Engineering, Nilokheri.
Government Tanning Institute, Jullundur.
Government Technical Institute, Ambala.
Guru Nanak Engineering College, Ludhiana.
Mehar Chand Technical Institute, Jullundur.
National Institute of Engineering, Hoshiarpur.
Polytechnic, Nilokheri.
Punjab Institute of Textile Technology, Amritsar.
Shri Vashwakarma Polytechnic, Phagwara.
Surgical Instruments Centre and Development Laboratory, Sonapat.
Tara Karan S.D. Technical Institute, Balj Nath (Kangra).
Technological Institute of Textiles, Bhiwani.

RAJASTHAN

M. B. M. Engineering College, Jodhpur.

UTTAR PRADESH

Chandhry Mukhtar Singh Government Polytechnic, Meerut.
Civil Engineering School, Lucknow.
Government Wood Working Institute, Allahabad.
Government Central Textile Institute, Kanpur.
Government Central Weaving Institute, Banaras.
Government Central Woodworking Occupational Institute, Bareilly.
Government Polytechnic, Allahabad.
Government Polytechnic, Dehra Dun.
Government Polytechnic, Jaunpur.
Government Polytechnic, Ghazipur, Lucknow.
Government Technical Institute, Gorakhpur.

Government Technical Institute, Jhansi.
Government Technical Institute, Lucknow.
Harcourt Butler Technological Institute, Kanpur.
Hewett Engineering School, Lucknow.
I. D. Technical Institute, Bahjoi.
Indian Institute of Sugar Technology, Kanpur.
Prem Mahavidyalaya Engineering College, Mathura.
Technical College, Dayalbagh, Agra.
Government Leather Working School, Kanpur.
Government Technical Institute, Ghazipur.

WEST BENGAL

Air Technical Training Institute, Dum Dum.
Bengal Ceramic Institute, Calcutta.
Bengal Tanning Institute, Calcutta.
Bengal Textile Institute, Serampore.
Berhampore Textile Institute, Berhampore.
Calcutta Technical School, Calcutta.
College of Aeronautical Services, Dum Dum.
Hooghly Institute of Technology, Hooghly.
Indian Institute of Technology, Kharagpur.
Institute of Jute Technology, Calcutta.
Jaipalguri Polytechnic, Jaipalguri.
Kanchrapara Technical School, Kanchrapara.
K. G. Engineering Institute, Viahnupur, Bankura.
Directorate of Marine Engineering Training, New Taratala Road, Calcutta.
M. B. C. Institute of Engineering & Technology, Burdwan.
R. K. Mission Shiba Mandir, Belur, Howrah.

AGRICULTURE

Indian Agricultural Research Institute, New Delhi; Indian Dairy Research Institute, Bangalore; Government Agricultural Institute, Bulandshahr (U.P.); Government Agricultural Institute, Chirgaon (U.P.); Government Agricultural Institute, Gorakhpur; Agriculture Institute, Laxmipur, Panna, Madhya Pradesh.

BANKING, COMMERCE AND CO-OPERATION

Co-operative Training College, Poona; Delhi Polytechnic, Delhi; Government College of Commerce, Hyderabad; Co-operative College, Trivandrum; Sanatan Dharam College, Alleppey.

DOMESTIC SCIENCE

Lady Irwin College, New Delhi; Domestic Science Training College, Hyderabad; Girls' Vocational Institute, Aurangabad; Girls' Vocational Institute, Gulbarga; Girls' Vocational Institute, Warangal; Girls' Vocational Institute, Hyderabad; Girls' Vocational Institute, Secunderabad.

FORESTRY

Southern Forest Rangers College, Coimbatore; Indian Forest College, Dehra Dun; Northern Forest Ranger College, Dehra Dun.

MARINE TRAINING

Training Ship "Dufferin", Bombay.

MUSIC AND FINE ARTS

Gandharva Mahavidyalaya Mandal, Poona; Madhava Music College, Gwalior; Central College of Karnataka Music, Madras; Government School of Arts, Simla; S.S.T. Academy of Music, Trivandrum; Bhatkhande (Marrie) College of Hindustani Music, Lucknow; Kamboj Sapt-kala Niketan, Meerut; Prayag Sangit Samiti, Allahabad; Sangeet Vidyalaya, Almora; All India College of Music, Arts and Crafts, Dhakuria (24, Parganas); Aryya Sangeet Vidyaapeeth, 199, Landsdowne Road, Calcutta; Bengal Music College, 4, Hindustan Road, Calcutta; Government College of Art and Craft, 28, Chowringhee Road, Calcutta; Ram Saran College of Music, Vishnupur, Bankura; Art College, Gwalior; Art College, Indore; Laxmi Kala Bhawan, Dhar; M. S. Bhand's School of Arts, Gwalior; Music College, Indore; Gita Bitan Sikshayatan, 155, Russa Road, Calcutta; Harishikesh Sangeet Vidyalaya, Nabadwip, Nadia; Ajmer Music College, Ajmer.

ORIENTAL LEARNING AND THEOLOGY

Swadhyaya Mandal, Killa-Pardi (Dist. Surat); Government Sanskrit College, Gwalior; Sanskrit Mahavidyalaya, Indore; Maharaja's Sanskrit College, Mysore; Sanskrit College, Melkote (Mysore); Sanskrit College, Siddaganga (Mysore); Sri Chamarajendra Sanskrit College, Bangalore; Bidyabhushan Sanskrit College, Bolangir (Orissa); Maharaja's Sanskrit College, Parlakimedi (Orissa); Sadasiva Sanskrit College, Puri; Birla Sanskrit College, Pilani; Government Sanskrit College, Alwar; Government Sanskrit College, Jodhpur; Government Sanskrit College, Sikar (Rajasthan); Government Sanskrit College, Udaipur; Maharaja's Sanskrit College, Jaipur; Rishikul Brahmancharya Ashram Sanskrit College, Lakshmi Garh (Rajasthan); Sanskrit College, Nathdwara (Rajasthan); Shri Dadu Mahavidyalaya, Jaipur; Shri Digambar Jain Sanskrit College, Jaipur; Shri Ramanuj College, Didwana (Rajasthan); Shri Sardul Brahmancharya Ashram Sanskrit College, Bikaner; Shri Vithal Nath Sanskrit Mahavidyalaya, Kotah; Allia Oriental College, Rampur; Darul-Uloom, Deoband (U.P.); Darul-Uloom Nadwatul Uloom, Lucknow; Government Sanskrit College, Banaras; Gurukul University, Kangri (Dist. Saharanpur, U.P.); Gurukul Vrindaban, Mathura; Kashi Vidyapith, Banaras; Mashar-Uloom, Saharanpur; Calcutta Madrasah, 21, Wellesley Square, Calcutta; Prachyavani (Institute of Oriental Learning), 3, Federation Street, Calcutta; Serampore College, Serampore, Hooghly; Bhajan Das Sanskrit Pathshala, Nayan (Rajasthan); Chamariya Sanskrit Mahavidyalaya, Fatehpur (Rajasthan); Choukhanil Sanskrit Pathshala, Beengua (Rajasthan); Dhuleshwar Sanskrit Pathshala, Manoharpur (Rajasthan); Ganga Sanskrit Pathshala, Bikaner; Goenka Sanskrit Pathshala, Doondalod (Rajasthan); Govardhan Sanskrit Pathshala, Khadagada (Rajasthan); Government Sanskrit Pathshala, Bundi; Hanumat Sanskrit Vidyalaya, Sardarshahr (Rajasthan); Harimukh Raya Sanskrit Vidyalaya, Ramgarh (Rajasthan); Jangid Vedic Vidyalaya, Fatehpur (Rajasthan); Khandal Vipra Vidyalaya, Jaipur; Mangal Dutta Mahavidyalaya, Ratangarh (Rajasthan); Matribhasha Vidyapeeth, Karauli (Rajasthan); Pareek Vidyalaya, Merta City (Rajasthan); Beengata Sanskrit Vidyalaya Bagar (Rajasthan); Sakseriya Sanskrit Vidyalaya, Chirawa (Rajasthan); Sanskrit Mahavidyalaya, Chittor; Saraswati Vidyapeeth, Kotah; Sarvajank Sanskrit Vidyalaya, Baran (Rajasthan); Shridhar Sanskrit Pathshala, Brahmipuri, Jaipur; Kanya Gurupal, Dehra Dun (U.P.); and Sanskrit Pathshalas at Amarsar, Banwara, Bharatpur, Bonli, Chak, Cheethwari, Chomu, Dausa, Dholal, Ganora, Kaladera, Kausali, Karauli, Khorli, Lalot, Muchkund Dolpur, Neemkathana, Niwai, Paota, Samode, Talabgaon all in Rajasthan.

PHYSICAL EDUCATION

Andhra Training College of Physical Education, Vijayawada; College of Physical Education, Muzaffarpur (Bihar); Government College of Health and Physical Education, Patna; Kalvayadhasa S.Y.M.Y. Samiti, Lonavla (Bombay); Training Institute for Physical Education, Kandivli (Bombay); Academy of Physical Education of Sri Hanuman Vyamshala, Hyderabad; Physical Training College, Shivpur (M.P.); Hanuman Vyayam Prasarak Mandal, Amravati; Y.M.C.A. College of Physical Education, Saidapet, Madras; Physical Training College, Trivandrum; Government College of Physical Education, Rampur; Government College of Physical Education, 30, Ramkrishna Samadhi Road, Calcutta.

RURAL STUDIES

Shri Shivaji Lok Vidyapitha, Amravati.

SOCIAL SCIENCES

Tata Institute of Social Sciences, Chembur, Bombay.

STATISTICS

Statistical Branch of Indian Council of Agricultural Research, New Delhi; Indian Statistical Institute, Calcutta.

TEACHERS' TRAINING

Basic Training College, Turki (Bihar); B.N.E. Training College for Women, Patna; Women's Training College, Musaffarpur (Bihar); Teachers' Training College, Ranchi; Training College, Bhagalpur; Graduates' Basic Training Centre, Dhulia (Bombay); Graduates' Basic Training Centre, Rajpipla (Bombay); Graduates' Basic Training Centre, Dharwar; Jamia Training Institute, Jamia Millia Islamia, Jamianagar, Delhi; Lady Irwin College, New Delhi; Domestic Science Training College, Hyderabad; C. T. College, Jaora (M.P.); Government Teachers' College, Dewas (M.P.); Nal Talim Bhawan, Sevagram; Government Secondary Training School, Berhampur (Orissa); Secondary Training School, Cuttack; St. Bedes College, Simla; A.P. Mission Higher Secondary School, Dehra Dun; Baiwant Rajput College, Agra; D. A. V. College, Kanpur; Dharam Sama College, Aligarh; Gorakhpur University Foundation Society, Gorakhpur; Government Basic Training College, Lucknow; Government College of Home Science for Women, Allahabad; Government Constructive Training College, Lucknow; Government Junior Basic Training College, Allahabad; Government Junior Basic Training College, Lucknow; Government Junior Basic Training College, Musaffarnagar; Government Nursery Training College, Allahabad; Government Training College for Women, Allahabad; Government Training College for Women, Lucknow; Kishori Raman College, Mathura; K. P. Training College, Allahabad; Lucknow Christian College, Lucknow; Meerut College, Meerut; Queen Victoria Higher Secondary School, Agra; Tilak Dhari College, Jaunpur; Women's Training College, Dayahagh, Agra; Government Central Pedagogical Institute, Allahabad; Government School of Arts and Crafts, Lucknow; St. Mary's Convent Training College for Anglo-Indians, Allahabad; Training College for Teachers for Schools for Defectives, Lucknow; Basic Training College, Banipur (24 Parganas, West Bengal).

VETERINARY SCIENCE

Indian Veterinary Research Institute, Isatnagar (U.P.); Indian Veterinary Research Institute, Murkeshwar (U.P.); Bengal Veterinary College, Calcutta.

EDUCATIONAL STATISTICS (1955-57)**1. INSTITUTIONS, ENROLMENT, EXPENDITURE**

State	Number of Institutions for		Enrolment in Institutions for		Expenditure (in Rs.) on Institutions for	
	Boys	Girls	Boys	Girls	Boys	Girls
Andhra ..	32,394	731	29,94,788	1,23,611	13,70,34,543	1,00,89,698
Assam ..	14,460	1,023	10,87,622	87,353	4,44,60,028	41,22,692
Bihar ..	36,995	3,606	25,35,089	1,87,655	12,98,13,809	78,60,148
Bombay ..	60,658	5,621	56,50,273	7,79,399	33,55,40,593	4,37,23,534
Jammu & Kashmir ..	2,108	381	1,76,548	36,135	1,00,47,046	17,55,769
Kerala* ..	9,647	202	24,55,844	1,10,079	6,92,69,476	71,20,521
Madhya Pradesh ..	26,103	2,196	16,98,007	1,88,831	9,81,25,682	1,13,89,033
Madras ..	25,932	323	33,42,240	1,04,323	17,75,01,610	1,64,33,259
Mysore ..	25,896	1,986	19,95,814	2,49,326	9,70,46,096	1,03,44,873
Orissa ..	19,415	400	16,23,749	26,123	4,34,09,073	19,72,623
Punjab ..	12,804	2,324	14,89,592	3,63,321	9,46,12,248	1,87,32,399
Rajasthan ..	11,296	965	7,55,203	92,358	5,32,67,972	60,82,090
Uttar Pradesh ..	36,713	4,005	37,71,275	4,28,808	25,10,89,807	2,65,72,995
West Bengal ..	31,925	2,061	31,58,262	3,07,630	20,56,75,983	2,80,18,308
A. & N. Islands ..	42		3,434		3,51,104	
Delhi ..	716	387	2,29,469	1,07,905	4,95,57,017	1,08,66,388
Himachal Pradesh ..	1,162	30	94,675	5,043	61,00,142	3,52,767
L. M. Islands ..	18		1,651		26,739	
Manipur ..	1,215	50	99,210	6,585	26,40,061	1,34,760
Tripura ..	1,419	66	91,225	4,841	71,33,715	5,46,915
N.E.F.A. ..	143		6,331		13,72,895	
Pondicherry ..	253	47	22,658	7,331	20,88,941	1,20,448
India ..	3,51,314	26,404	3,25,62,909	32,16,657	1,81,61,54,580	20,62,39,220

* Figures pertain to 1955-56.

A. & N. Islands—Andaman & Nicobar Islands, L. M. Islands—Laccadive, Minicoy and Amindivi Islands.

2. INSTITUTIONS

State	Number of Institutions for		
	Boys	Girls	All Persons
Andhra ..	32,394	731	33,125
Assam ..	14,460	1,023	15,483
Bihar ..	36,995	3,606	40,601
Bombay ..	60,658	5,621	66,279
Jammu & Kashmir ..	2,108	381	2,489
Kerala* ..	9,647	202	9,849
Madhya Pradesh ..	26,103	2,196	28,299
Madras ..	25,932	323	26,255
Mysore ..	25,896	1,986	27,882
Orissa ..	19,415	400	19,815
Punjab ..	12,804	2,324	15,128
Rajasthan ..	11,296	965	12,261
Uttar Pradesh ..	36,713	4,005	40,718
West Bengal ..	31,925	2,061	33,986
A. & N. Islands ..	42		42
Delhi ..	716	387	1,103
Himachal Pradesh ..	1,162	30	1,192
L. M. Islands ..	18		18
Manipur ..	1,215	50	1,265
Tripura ..	1,419	66	1,485
N.E.F.A. ..	143		143
Pondicherry ..	253	47	300
India ..	3,51,314	26,404	3,77,718

* Figures pertain to 1955-56.

3. PRIMARY SCHOOLS

State	Number of Institutions for		Enrolment of		Expenditure in Rs. on	
	Boys	Girls	Boys	Girls	Schools for Boys	Schools for Girls
Andhra ..	28,458	490	15,79,329	9,02,000	6,02,20,181	20,56,367
Assam ..	11,936	737	5,15,531	2,80,689	1,04,14,872	6,60,037
Bihar ..	26,735	2,950	13,41,537	3,12,455	2,35,68,187	18,29,577
Bombay ..	39,044	1,979	25,42,308	13,35,112	10,14,77,228	1,62,74,503
Jammu & Kashmir ..	1,779	302	85,650	14,097	21,38,523	3,50,784
Kerala* ..	7,403		10,12,567	8,71,912	2,53,75,550	
Madhya Pradesh ..	21,142	1,620	10,44,476	2,26,900	3,42,35,638	33,33,418
Madras ..	22,608		17,09,300	9,65,296	7,05,08,183	
Mysore ..	19,786	1,250	9,67,594	5,68,175	3,49,92,486	46,51,507
Orissa ..	14,880	214	5,07,489	1,71,206	1,13,97,006	2,81,744
Punjab ..	10,635	1,721	6,60,853	2,62,079	2,19,70,082	47,27,054
Rajasthan ..	8,833	556	3,95,656	68,594	1,38,09,724	18,16,664
Uttar Pradesh ..	30,322	2,999	23,96,485	5,18,801	6,17,48,097	50,80,874
West Bengal ..	24,307	934	15,30,503	7,90,893	5,02,09,969	47,75,726
A. & N. Islands ..	39		1,110		94,099	
Delhi ..	370	172	71,229	48,415	64,87,737	6,35,872
Himachal Pradesh ..	819	15	44,934	7,779	21,69,809	58,342
L. M. Islands ..	9		1,234		10,853	
Manipur ..	901	42	58,543	18,387	10,14,825	48,098
Tripura ..	987	7	42,221	17,224	26,61,749	9,092
N.E.F.A. ..	110		3,714		4,07,971	
Pondicherry ..	193	34	15,441	9,234	12,09,468	14,010
India ..	2,71,296	16,022	1,65,22,713	73,91,643	52,61,22,237	4,71,03,664

* Figures pertain to 1955-56.

4. SECONDARY SCHOOLS

State	Number of Institutions for		Enrolment of		Expenditure in Rs. on	
	Boys	Girls	Boys	Girls	Schools for Boys	Schools for Girls
Andhra	921	143	3,74,500	95,384	2,84,41,923	50,19,097
Assam	1,652	199	2,27,178	76,897	1,34,63,690	19,44,407
Bihar	4,192	220	6,65,420	72,613	3,29,98,327	28,50,550
Bombay	6,102	638	14,48,755	5,48,882	9,97,15,985	1,67,62,953
Jammu and Kashmir	303	71	83,581	21,756	38,72,756	10,29,694
Kerala*	1,515	126	3,44,484	2,53,995	1,98,83,284	36,95,976
Madhya Pradesh	1,760	258	4,07,943	89,565	2,44,42,513	45,47,575
Madras	1,165	189	4,43,483	1,73,606	3,44,92,643	67,17,238
Mysore	1,990	312	4,16,230	1,44,088	2,34,62,943	42,48,827
Orissa	938	63	1,16,404	15,958	81,87,746	7,04,489
Punjab	1,748	459	6,66,434	1,88,675	3,57,75,073	91,50,834
Rajasthan	1,112	187	2,59,420	50,714	1,97,02,404	28,50,760
Uttar Pradesh	4,534	785	9,32,759	1,70,495	7,36,09,482	1,48,33,746
West Bengal	2,953	547	6,12,498	1,62,623	4,77,43,080	1,19,94,313
A. & N. Islands	3	..	1,120	507	1,42,529	..
Delhi	197	105	1,17,469	71,695	1,25,51,004	50,88,759
Himachal Pradesh	151	14	32,011	10,245	28,82,109	2,41,035
L. M. Islands .. .. .	..	..	..	..	..	..
Manipur	115	8	19,361	4,112	8,27,736	83,122
Tripura	106	11	15,600	4,583	11,42,483	1,96,065
N. E. F. A.	16	..	1,297	152	2,62,787	..
Pondicherry	14	6	2,913	782	1,92,086	30,975
India	31,487	4,341	71,88,860	21,45,307	48,34,87,473	9,17,89,455

* Figures pertain to 1955-56.

5. UNIVERSITY EDUCATION

State	Number of Universities for		Number of Arts and Science Colleges (including Research Institutions) for		Number of Technical, Professional and Special Education Colleges for		Total number of Colleges for	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Andhra	3	..	49	5	35	3	87	8
Assam	1	..	19	4	6	..	26	4
Bihar	2	..	54	5	33	1	89	6
Bombay	6	1	92	11	92	2	190	14
Jammu and Kashmir	1	..	10	2	7	6	18	8
Kerala*	1	..	80	10	19	1	50	11
Madhya Pradesh	1	..	55	6	38	3	94	9
Madras	2	..	41	15	45	3	88	18
Mysore	2	..	45	4	42	9	89	13
Orissa	1	..	13	1	9	..	23	1
Punjab	2	..	68	11	26	4	96	15
Rajasthan	1	..	45	9	32	1	78	10
Uttar Pradesh	6	..	66	9	43	10	115	19
West Bengal	3	..	88	19	39	4	130	23
A. & N. Islands .. .. .	..	..	..	..	..	..	..	..
Delhi	1	..	15	3	9	3	25	6
Himachal Pradesh .. .. .	..	..	3	..	1	..	4	..
L. M. Islands .. .. .	..	..	..	..	..	..	..	..
Manipur .. .. .	..	..	2	..	1	..	3	..
Tripura .. .. .	..	..	2	..	1	1	3	1
N. E. F. A. .. .. .	..	..	..	..	..	..	..	..
Pondicherry .. .. .	..	..	1	..	2	..	3	..
India	33	1	698	114	480	51	1,211	166

* Figures pertain to 1955-56.

6. STATISTICS OF UNIVERSITY EDUCATION (ENROLMENT)†

State	General Education		Technical and Professional Education††		Total	
	Boys	Girls	Boys	Girls	Boys	Girls
Andhra	35,301	4,041	14,435	926	49,736	4,967
Assam	11,204	1,978	2,438	74	13,642	2,052
Bihar	43,544	2,938	12,421	310	55,965	3,248
Bombay	58,491	15,871	23,436	2,551	81,927	18,422
Jammu and Kashmir	4,556	912	238	168	4,724	1,080
Kerala*	24,804	8,187	4,187	552	28,991	8,739
Madhya Pradesh	12,227	2,544	9,376	886	21,603	3,430
Madras	31,732	6,094	12,735	1,340	44,467	7,434
Mysore	24,316	4,730	9,091	389	33,407	5,119
Orissa	5,295	634	1,603	96	6,898	730
Punjab	34,527	6,522	5,689	1,593	40,106	8,115
Rajasthan	12,172	2,178	8,919	153	21,091	2,331
Uttar Pradesh	1,41,683	10,978	25,900	1,747	1,67,583	12,725
West Bengal	75,285	18,427	23,075	2,371	98,360	20,798
A. & N. Islands .. .. .	..	..	..	..	..	..
Delhi	8,414	2,504	4,014	1,000	12,428	3,504
Himachal Pradesh	354	79	23	..	377	79
L. M. Islands .. .. .	..	..	..	..	..	..
Manipur	1,187	108	191	11	1,328	119
Tripura	1,187	116	139	..	1,326	116
N.E.F.A. .. .. .	..	..	..	..	..	..
Pondicherry	144	22	24	4	168	26
India	5,26,153	94,863	1,62,914	14,171	6,89,067	1,09,034

* Figures pertain to 1955-56.

† Includes enrolment in attached classes.

†† Includes enrolment in special colleges.

7. UNIVERSITY EDUCATION (DIRECT EXPENDITURE)

(in Rs.)

State	University Arts and Science Colleges (including Research Institutions)		Colleges for Technical and Professional Education†		Total	
	Boys	Girls	Boys	Girls	Boys	Girls
Andhra	1,42,70,467	7,15,172	46,68,589	54,303	1,89,39,056	7,69,475
Assam	89,85,923	1,79,806	12,66,067	..	52,51,990	1,79,806
Bihar	1,27,12,724	5,09,700	49,60,110	44,538	1,76,72,834	5,54,238
Bombay	3,46,82,657	11,75,173	1,73,60,863	1,95,216	5,20,43,520	13,70,389
Jammu and Kashmir	14,63,741	1,64,993	2,15,534	78,123	16,79,275	2,43,116
Kerala††	74,51,591	9,55,123	13,45,492	28,341	87,97,083	9,83,464
Madhya Pradesh	88,11,852	4,49,904	50,81,116	2,25,800	1,38,92,968	6,75,704
Madras	1,40,25,925	18,48,324	74,15,129	1,86,442	2,14,41,054	20,34,766
Mysore	95,77,159	4,37,544	36,27,845	1,49,216	1,32,04,504	5,86,760
Orissa	31,83,553	1,03,735	9,30,863	..	41,14,416	1,03,735
Punjab	1,63,85,878	9,15,323	49,52,670	1,55,851	2,13,38,548	10,71,174
Rajasthan	81,37,872	8,77,075	27,72,648	3,719	1,09,10,520	8,80,794
Uttar Pradesh	5,34,17,935	6,88,593	64,36,726	4,34,053	5,98,54,661	11,22,651
West Bengal	2,50,97,260	17,53,300	1,86,99,766	1,83,609	3,37,97,026	19,36,909
A. & N. Islands .. .. .	..	..	..	..	..	..
Delhi	1,12,95,250	9,87,575	31,60,076	23,23,573	1,47,55,326	33,11,148
Himachal Pradesh	2,17,326	..	24,540	..	2,41,866	..
L. M. Islands .. .. .	..	..	..	..	..	..
Manipur	1,52,498	..	12,576	..	1,65,074	..
Tripura	2,27,075	..	38,145	7,220	2,65,220	7,220
N.E.F.A. .. .. .	..	..	..	..	..	..
Pondicherry .. .. .	..	..	2,16,785	..	2,16,785	..
India	22,50,96,686	1,17,81,140	7,84,85,040	45,70,009	30,35,81,726	1,63,51,149

* Not available.

† Includes expenditure on special colleges.

†† Figures pertain to 1955-56.

8. TECHNICAL AND VOCATIONAL EDUCATION (SCHOOLS)*

State	Number of Schools for		Enrolment		Expenditure in Rs. on Institutions for	
	Boys	Girls	Boys	Girls	Boys	Girls
Andhra	214	32	19,128	2,381	37,54,361	2,94,712
Assam	64	16	5,379	703	19,90,352	97,037
Bihar	141	27	13,363	1,528	41,41,085	2,50,870
Bombay	489	333	52,252	22,395	99,21,333	34,33,710
Jammu & Kashmir	8	..	697	9	2,52,074	..
Kerala	291	49	14,136	10,793	15,97,411	97,416
Madhya Pradesh	113	18	7,665	1,054	24,72,235	2,54,925
Madras	475	77	39,037	11,630	40,40,042	10,16,357
Mysore	193	20	22,321	3,461	34,11,470	1,81,975
Orissa	72	14	4,441	405	11,46,895	62,572
Punjab	62	30	12,344	4,194	23,03,511	4,68,453
Rajasthan	27	2	3,256	165	13,31,803	94,700
Uttar Pradesh	148	45	16,202	2,823	60,35,072	9,10,121
West Bengal	207	76	25,781	7,926	55,45,281	8,76,440
A. & N. Islands .. .. .	..	..	..	..	..	..
Delhi	5	5	1,490	525	5,82,021	2,71,055
Himachal Pradesh	3	..	274	38	1,33,172	..
L.M. Islands .. .. .	..	..	..	..	..	..
Manipur	3	..	193	31	16,281	..
Tripura	17	2	301	332	98,073	28,264
N.E.F.A.	2	..	92	1	98,201	..
Pondicherry	2	1	75	150	30,280	180
India	2,536	747	2,38,426	70,549	4,89,04,953	83,48,787

* Includes enrolment in attached classes.

† Figures pertain to 1955-56.

9. VOCATIONAL AND TRAINING INSTITUTIONS

Type	SCHOOLS				COLLEGES			
	Number of Institutions	Number of boys	Number of girls	Expenditure in Rs.	Number of Institutions	Number of boys	Number of girls	Expenditure in Rs.
Agriculture	92	5,993	27	31,57,651	25	7,195	41	67,97,233
Arts and Crafts	417	4,482	14,807	19,41,266	..	..	..	..
Commerce	940	77,586	12,317	34,04,380	28	60,796	441	32,02,801
Engineering	59	27,588	23	69,30,383	50	19,768	28	2,29,86,106
Forestry	4	134	..	1,00,109	3	427	..	6,83,704
Law .. .. .	..	..	..	..	28	20,328	422	17,66,693
Marine Engineering	4	1,755	..	13,52,050	..	..	..	..
Physical Education	36	3,210	295	4,43,273	9	349	66	4,82,593
Medical	109	3,906	3,563	25,75,351	99	22,913	4,600	2,84,60,085
Teachers' Training	963	70,134	27,015	2,00,08,515	136	10,880	4,572	82,44,669
Technology and Industry	651	42,198	12,502	1,68,19,798	7	2,727	18	11,17,355
Veterinary	7	1,066	..	2,00,290	13	4,526	11	39,53,570
Others	1	374	..	3,20,674	6	3,291	198	6,15,598
India	3,283	2,38,426	70,549	5,72,53,740	404	1,53,190	10,397	7,83,10,407

10. TECHNICAL AND PROFESSIONAL EDUCATION (COLLEGIATE)

State	Number of Colleges for		Enrolment		Expenditure in Rs. on	
	Boys	Girls	Boys	Girls	Boys	Girls
Andhra	23	1	13,874	722	44,25,997	39,302
Assam	5	..	2,397	74	12,58,646	..
Bihar	26	1	11,969	285	47,49,094	44,538
Bombay	82	1	27,938	2,236	1,65,26,044	54,395
Jammu & Kashmir	3	..	214	59	1,66,374	..
Kerala*	12	1	3,519	431	11,89,031	28,341
Madhya Pradesh	31	2	8,794	538	47,96,632	54,231
Madras	29	3	11,433	1,000	70,91,962	1,86,442
Mysore	35	9	8,655	345	38,98,281	1,49,216
Orissa	6	..	1,116	84	8,53,261	..
Punjab	26	4	5,538	1,575	49,52,670	1,55,851
Rajasthan	15	..	8,220	187	23,84,426	..
Uttar Pradesh	34	10	24,088	1,326	60,30,226	4,34,058
West Bengal	31	1	21,597	1,025	1,31,66,683	85,168
A. & N. Islands .. .. .	..	..	..	..	..	..
Delhi	8	2	3,523	555	32,91,269	25,20,799
Himachal Pradesh	1	..	23	..	24,540	..
L. M. Islands .. .. .	..	..	..	..	..	..
Manipur .. .. .	..	..	99	1	..	..
Tripura	1	..	139	..	38,146	..
N. E. F. A. .. .. .	..	..	..	..	..	..
Pondicherry	2	..	24	4	2,16,785	..
India	369	35	1,58,910	10,397	7,45,55,066	37,55,341

* Figures pertain to 1955-56.

11. TEACHER TRAINING INSTITUTIONS (NUMBER) †

State	Colleges		Schools	
	Basic	Non-Basic	Basic	Non-Basic
Andhra	1	6	37	55
Assam .. .. .	..	..	19	15
Bihar	3	2	62	26
Bombay	4	14	118	71
Jammu & Kashmir .. .. .	..	2	8	..
Kerala* .. .. .	..	4	18	69
Madhya Pradesh	7	5	37	4
Madras .. .. .	..	14	82	56
Mysore	2	22	23	8
Orissa	1	1	6	39
Punjab	8	7	28	..
Rajasthan	3	..	24	..
Uttar Pradesh	5	16	94	..
West Bengal	2	4	14	40
A. & N. Islands .. .. .	..	..	..	..
Delhi .. .. .	..	1	2	1
Himachal Pradesh	1	..	2	..
L. M. Islands .. .. .	..	..	..	..
Manipur .. .. .	..	..	1	1
Tripura	1	..	..	1
N.E.F.A. .. .. .	..	..	1	..
Pondicherry .. .. .	..	..	..	1
India	38	98	576	387

† Only non-technical and non-professional education.

* Figures pertain to 1955-56.

12. TEACHER TRAINING INSTITUTIONS (ENROLMENT, EXPENDITURE)

State	TRAINING SCHOOLS				TRAINING COLLEGES			
	Enrolment		Expenditure in Rs.		Enrolment		Expenditure in Rs.	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Andhra	7,768	1,890	15,55,485	2,71,470	648	149	4,60,312	89,302
Assam	1,650	297	8,66,531	48,740	77	28	..	..
Bihar	6,375	975	18,91,298	1,95,532	501	91	2,66,478	44,538
Bombay	11,989	6,542	26,64,633	14,72,530	1,191	570	11,84,315	54,395
Jammu & Kashmir	697	9	2,52,074	..	169	59	1,48,146	..
Kerala*	4,402	2,819	7,38,962	58,716	336	245	1,57,345	28,341
Madhya Pradesh	4,365	425	11,46,877	1,16,467	1,082	316	8,92,476	54,231
Madras	11,074	7,370	12,20,333	8,65,427	918	259	5,11,373	1,86,442
Mysore	3,924	1,369	10,99,995	1,13,727	487	124	7,38,041	1,49,216
Orissa	2,367	108	3,39,438	26,824	111	16	82,231	..
Punjab	6,542	2,515	4,34,868	1,38,448	2,507	1,295	6,88,304	1,55,851
Rajasthan	2,005	148	10,73,691	94,700	313	24	2,56,977	..
Uttar Pradesh	5,190	815	19,62,081	5,61,935	1,666	826	9,18,187	4,15,970
West Bengal	1,356	515	3,71,415	1,64,870	700	450	4,05,224	88,168
A. & N. Islands .. .. .	..	..	..	..	..	..	..	..
Delhi	30	138	29,400	90,483	130	119	2,56,121	..
Himachal Pradesh	160	38	57,361	..	23	..	24,540	..
L. M. Islands .. .. .	..	..	..	..	..	..	..	..
Manipur	137	10	16,281	..	..	..	..	..
Tripura	68	23	7,291	..	27	..	38,145	..
N. E. F. A.	27	1	58,080	..	..	..	..	..
Pondicherry	18	8	4,552	..	..	..	..	..
India	70,134	27,015	1,57,80,646	42,17,869	10,880	4,572	70,28,215	12,16,454

* Figures pertain to 1955-56.

13. SOCIAL EDUCATION

State	Number of Schools		Enrolment		Expenditure in Rs.†	
	Boys	Girls	Boys	Girls	Boys	Girls
Andhra	2,646	30	78,366	4,197	4,65,467	6,831
Assam	648	46	25,529	2,585	1,39,629	6,384
Bihar	5,367	400	2,12,860	22,195	9,80,868	85,650
Bombay	14,376	2,497	2,76,363	55,460	7,93,245	1,92,783
Jammu & Kashmir .. .. .	..	..	..	..	..	..
Kerala††	279	12	8,103	410	50,703	7,370
Madhya Pradesh	2,819	246	54,894	4,331	5,95,335	82,180
Madras	1,560	..	37,899	5,346	3,64,725	..
Mysore	3,609	384	65,521	5,837	98,068	8,937
Orissa	2,201	96	65,769	4,793	2,54,769	8,279
Punjab	254	97	10,354	3,624	1,81,448	63,402
Rajasthan	1,131	209	20,944	4,477	3,04,139	81,657
Uttar Pradesh	392	137	9,955	3,285	73,855	13,944
West Bengal	3,305	433	1,72,032	21,490	8,92,275	1,48,249
A. & N. Islands .. .. .	..	..	..	..	..	..
Delhi	110	95	3,272	3,562	2,35,763	1,99,237
Himachal Pradesh	180	..	3,052	541	35,699	..
L. M. Islands	9	..	130	..	900	..
Manipur	110	..	1,960	669	24,778	..
Tripura	271	42	12,061	1,899	3,54,810	81,802
N. E. F. A.	15	..	555	..	34,545	..
Pondicherry	34	4	784	78	8,060	1,200
India	39,306	4,728	10,59,903	1,44,789	58,89,059	9,37,855

† Refers to direct expenditure only.

†† Figures estimated and pertain to 1955-56.

14. BASIC SCHOOLS

State	Number of Schools	Number of Pupils	Number of Teachers	Direct Expenditure in Rs.
Andhra	1,045	1,25,369	4,268	37,52,839
Assam	1,023	89,317	2,723	18,49,307
Bihar	2,297	1,87,519	7,760	61,49,782
Bombay	7,080	14,29,067	40,821	4,05,37,342
Jammu and Kashmir .. .. .	..	..	..	..
Kerala†	428	80,779	3,202	15,69,343
Madhya Pradesh	1,832	1,65,263	6,213	46,70,995
Madras	1,930	2,53,034	8,351	68,89,202
Mysore	1,737	2,98,328	8,739	78,48,311
Orissa	385	25,252	995	9,83,502
Punjab	509	58,409	1,487	16,59,406
Rajasthan	783	52,594	2,235	32,14,842
Uttar Pradesh	33,321	29,15,286	80,396	5,68,28,971
West Bengal	770	81,099	2,930	22,51,616
A. & N. Islands	5	227	8	12,371
Delhi	288	36,088	1,263	20,79,011
Himachal Pradesh	215	21,853	575	6,40,332
L. M. Islands .. .. .	..	..	..	..
Manipur	1	103	5	4,598
Tripura	79	12,610	528	7,20,081
N. E. F. A.	7	218	13	85,125
Pondicherry .. .. .	..	..	..	..
India	58,735	58,32,406	1,72,512	14,19,46,976

† Figures pertain to 1955-56.

15. SCHOOLS FOR THE HANDICAPPED

State	Number of Schools				Number of Students				Expenditure in Rs.
	Blind	Deaf-Mute	Crippled	Mentally Handicapped	Blind	Deaf-Mute	Crippled	Mentally Handicapped	
Andhra	3	1	3	-	219	46	125	-	90,061
Assam	-	2	-	-	-	64	-	-	39,227
Bihar	4	2	-	-	153	69	-	-	1,04,480
Bombay	15	12	1	2	627	544	40	190	7,82,239
Jammu & Kashmir	-	-	-	-	-	-	-	-	-
Kerala†	1	1	-	-	40	118	-	-	58,050
Madhya Pradesh	3	-	-	-	111	-	-	-	28,782
Madras	3	5	4	-	340	675	371	-	2,97,694
Mysore	2	-	-	-	127	-	-	-	65,124
Orissa	-	1	-	-	-	11	-	-	7,111
Punjab	1	-	-	-	65	-	-	-	43,181
Rajasthan	2	-	-	-	94	-	-	-	74,450
Uttar Pradesh	11	7	-	-	366	273	-	-	6,20,897
West Bengal	3	4	-	1	201	367	-	63	4,60,621
A. & N. Islands	-	-	-	-	-	-	-	-	-
Delhi	3	1	-	-	197	210	-	-	3,01,215
Himachal Pradesh	-	-	-	-	-	-	-	-	-
L. M. Islands	-	-	-	-	-	-	-	-	-
Manipur	-	-	-	-	-	-	-	-	-
Tripura	-	-	-	-	-	-	-	-	-
N. E. F. A.	-	-	-	-	-	-	-	-	-
Pondicherry	1	-	-	-	19	-	-	-	5,020
India	52	36	8	3	2,539	2,377	536	253	29,77,902

† Figures pertain to 1955-56.

LITERACY

(See relevant table under 'Population').

16. NUMBER OF STUDENTS ON ROLLS

The figures for recognized institutions are given below.

Institutions	Boys	Girls	Total
<i>Colleges (General Education) :—</i>			
Research	2,566	437	3,003
M.A. & M.Sc.	22,813	4,566	27,379
B.A. & B.Sc. (Pass & Hons.)	1,37,282	29,262	1,66,544
Intermediate (Arts & Science)	3,63,492	60,596	4,24,090
<i>Colleges (Professional and Special) :—</i>			
Education (Teachers' Training)	10,890	4,572	15,462
Engineering	19,758	28	19,786
Technology	2,727	18	2,745
Medicine	22,913	4,600	27,513
Veterinary Science	4,526	11	4,537
Agriculture	7,195	41	7,236
Forestry	427	..	427
Commerce	60,796	441	61,237
Law	20,328	422	20,750
Physical Education	349	66	415
Music, Dancing & Other Fine Arts	1,742	2,223	3,965
Oriental Studies	5,644	451	6,095
Others	5,629	1,298	6,927
<i>Schools (General Education) :—</i>			
Secondary	58,85,820	15,07,287	73,93,107
Primary	1,77,29,035	80,08,174	2,57,37,209
Pre-Primary	58,321	42,155	100,476
<i>Schools (Professional & Special) :—</i>			
Normal & Training	70,134	27,015	97,149
Engineering	27,588	23	27,611
Technology & Industry	42,196	12,502	54,700
Medicine	4,972	3,583	8,555
Agriculture & Forestry	6,127	27	6,154
Commerce	77,586	12,317	89,903
Arts & Crafts	4,482	14,807	19,289
Schools for Physical Education, Marine Training, etc.	4,965	295	5,260
Others	374	..	374
Music, Dancing & Other Fine Arts	8,229	7,708	15,937
Oriental Studies	1,18,936	9,642	1,28,578
For the Handicapped	4,257	1,276	5,533
For Adults	10,63,716	1,45,094	12,08,810
Reformatory	6,193	1,139	7,332
Other Subjects	57,651	17,857	75,508
Total	2,58,59,651	99,19,915	3,57,79,566

17. NUMBER OF PASSES AT MATRICULATION AND UNIVERSITY EXAMINATIONS

State	Matriculation Number Appeared	Matriculation Number Passed	Number Passed Intermediate	Number Passed B.A. and B.Sc. (including Hons.)	Number Passed M.A. and M.Sc.	Number Passed Research	Number Passed Professional (Degrees and equivalent Diplomas)
Andhra	78,259	23,030	7,397	3,409	154	19	2,268
Assam	17,640	8,271	2,236	978	128	..	217
Bihar	61,218	41,946	10,854	3,750	973	8	2,594
Bombay	1,48,997	70,257	16,152	9,215	1,480	60	6,803
Jammu & Kashmir	7,067	3,100	846	567	14	..	234
Kerala†	69,997	29,109	6,201	2,695	147	1	1,161
Madhya Pradesh	28,237	14,273	3,056	1,145	428	..	1,495
Madras	63,317	29,382	11,190	5,068	342	37	3,677
Mysore	28,226**	14,756**	2,333	2,482	234	5	1,340
Orissa	10,518	5,170	1,340	522	81	..	267
Punjab	96,039	57,512	13,607	9,203	1,263	..	3,948
Rajasthan	30,755	15,147	4,569	1,629	555	..	1,659
Uttar Pradesh	1,84,316	75,830	30,229	12,410	5,376	155	7,330
West Bengal	80,013	41,569	19,304	6,980	1,075	73	5,414
A. & N. Islands*	56	27	..	..	..	..	..
Delhi	6,251	5,559	219	1,243	465	..	983
Himachal Pradesh	1,738	1,204	91	25	..	..	17
L. M. Islands .. .. .	..	..	..	..	..	..	..
Manipur	1,743	583	170	39	..	..	..
Tripura	1,827	659	251	55	..	..	56
N.E.F.A.	7	5	..	..	..	..	..
Pondicherry	172	80	27	17	..	..	7
India	9,16,383	4,37,473	1,30,075	61,432	12,708	358	39,450

† Figures pertain to erstwhile State of Travancore-Cochin for the year 1955-56.

** Figures pertain to erstwhile State of Mysore for 1955-56.

* Figures pertain to 1955-56.

18. EXPENDITURE ON RECOGNIZED INSTITUTIONS

By Sources

	Boys	Girls	Total
Government Funds (Central)	13,33,41,508	62,68,672	13,96,10,180
Government Funds (State)	1,01,22,08,691	10,70,41,247	1,11,92,44,938
District Board Funds	9,87,57,660	49,84,062	10,37,41,722
Municipal Board Funds	5,33,92,810	1,51,78,451	6,85,71,261
Fees	35,48,31,644	4,52,90,860	40,01,22,494
Endowments, etc.	5,35,29,119	1,11,86,097	6,47,15,216
Other Sources	11,00,98,148	1,62,89,841	12,63,87,989
By Type of Institution			
<i>Direct Expenditure on :</i>			
Universities	9,10,80,943	3,31,286	9,14,12,229
Research Institutions	1,75,15,723	.. .. .	1,75,15,723
Colleges for General Education	11,65,00,020	1,14,29,854	12,79,29,874
Colleges for Professional and Special Education	7,84,85,040	45,70,009	8,30,55,049
Secondary Schools	48,34,87,473	9,17,89,455	57,52,76,928
Primary and Pre-primary Schools	52,81,49,286	4,80,09,711	57,61,58,997
Professional and Special Schools	7,44,79,965	1,11,17,082	8,55,97,047
Boards of Education	1,49,89,495	.. .. .	1,49,89,495
Indirect Expenditure	41,14,66,635	3,89,91,823	45,04,58,458
Total	1,81,61,54,580	20,62,39,220	2,02,23,93,800

19. TEACHERS IN SCHOOLS FOR GENERAL EDUCATION

Recognized

	Men	Women
<i>Secondary Schools</i>		
Trained	1,71,840	47,427
Untrained	1,26,901	19,743
Total	2,98,441	67,170
<i>Primary</i>		
Trained	3,51,415	90,008
Untrained	2,37,953	29,891
Total	5,89,368	1,19,899

20. COMPULSORY PRIMARY EDUCATION

State	Compulsion age-group Towns	Compulsion age-group Villages	Number of Towns	Number of Villages	Number of Schools in towns	Number of Schools in villages	Total number of pupils
Andhra	6-11 } 6-12 }	6-11 } 6-12 }	164	1,051	1,276	1,719	4,03,195
Assam	6-11	6-11	13	4,405	119	3,432	3,07,559
Bihar	6-10	6-10	16	19	638	9	62,927
Bombay	6-10 } 6-11 } 6-13 } 6-14 }	6-11 } 6-11 } 7-11 } 7-14 }	274	26,557	3,420	25,625	24,70,834
Jammu & Kashmir	-	-	-	-	-	-	-
Kerala*	5-10	5-10	17	4,500	178	1,177	5,85,104
Madhya Pradesh	6-11 } 6-14 }	6-11 } 6-14 }	100	2,920	890	1,929	2,27,475
Madras	5-10 } 6-12 }	5-10 } 6-12 }	309	951	2,154	1,746	8,19,562
Mysore	6-10 } 6-11 }	6-10 } 6-11 }	126	4,244	1,047	3,888	5,89,325
Orissa	6-11	6-11	2	8	17	6	3,561
Punjab	6-11	6-12	34	4,841	247	2,251	2,51,727
Rajasthan	-	-	-	708	-	481	25,152
Uttar Pradesh	6-11	6-11	95	1,687	2,415	549	4,61,974
West Bengal	6-10	6-11	3	5,745	108	2,959	3,35,814
A. & N. Islands	-	-	-	-	-	-	-
Delhi	-	6-14	-	304	-	300	38,865
Himachal Pradesh	-	-	-	-	-	-	-
L. M. Islands	-	-	-	-	-	-	-
Manipur	-	-	-	-	-	-	-
Tripura	-	-	-	-	-	-	-
N. E. F. A.	-	-	-	-	-	-	-
Pondicherry	-	-	-	-	-	-	-
India	-	-	1,153	57,938	12,499	46,101	65,83,073

* Figures pertain to 1955-56.

COMMUNITY DEVELOPMENT PROJECTS

THE Community Projects Administration was established on 31st March, 1952 under an Administrator, who was under the general supervision of the Central Committee of the Planning Commission.

The Administration was transformed into the Ministry of Community Development on 20th Sept. 1956.

The subject of village panchayats was transferred to this Ministry in March 1958.

On 30th Dec. 1958 the work relating to Co-operation was also transferred to the Ministry of Community Development and the Ministry was renamed the Ministry of Community Development and Co-operation.

The total number of blocks in operation on 1st January, 1959 was 2,405 covering 3,02,947 villages, with a population of more than 165 million. The coverage works out at 56 per cent of the rural population. The following table shows blocks in operation year-wise :—

Series	No of Blocks allotted	No of villages covered (approx.)	Population covered in millions (approx.)
C. D. Blocks including special Multipurpose blocks			
1956-57	252½	36,017	18.50
1957-58	180½	26,651	11.84
Stage I Blocks —			
1954-55	20½	2,977	1.83
1955-56	190½	26,143	13.30
1956-57	491	66,815	33.30
1957-58	604	65,922	39.95
1958-59	225	22,387	14.58
Stage II Blocks			
1952-53	210½	26,904	15.35
1953-54	62	7,693	3.91
1955-56	159½	21,438	12.40
Total	2,405*	3,02,947	165.05

* Excludes 137 and 145 pre-extension blocks allotted for April and October, 1959, respectively.

The year 1958-59 witnessed an important change in the programme, namely the abolition of distinction between N.E.S. and Intensive Stages, and the decision to stagger the full coverage of the country into the Third Five Year Plan.

The programme now falls into two stages, Stage I and Stage II. The revised schematic budgets for Stage I, and Stage II blocks are Rs. 12 lakhs and Rs. 5 lakhs respectively for a five year period of operation. Stage I is the intensive development stage and Stage II is the post-intensive Phase.

It has also been decided that all future blocks should have a one year period of pre-extension activity exclusively in the field of Agriculture.

Complete coverage of the country is aimed at by October 1963.

Of Rs. 12 lakhs to be spent in five years in a Stage I block, an amount of Rs. 4.55 lakhs is to be spent on agriculture, irrigation, rural arts and crafts. To the extent possible, this amount is to be spent through the agency of village cooperatives.

Of the remaining amount, a sum of Rs. 2.9 lakhs is to be incurred invariably through the agency of panchayats and other local institutions, and not through the departmental agency.

Following is the item-wise break-up: Education and Social Education Rs. 130,000; Drinking water supply Rs. 50,000; Drainage and Sanitation Rs. 25,000; and Communications Rs. 85,000.

Power for making allotments in this category are to be vested in the Block Development Committee.

The Schematic Budget of Rs. 5 lakhs for five years of a Stage II block is, similarly, to be divided and allotted.

The three basic village institutions, namely, the Panchayat, the Cooperative, and the Village School, have been accepted as the primary means, and democratic decentralisation as the national policy for the promotion of socio-economic development in the villages. Hitherto, the emphasis in the programme was in securing

efficient administration, ensuring proper co-ordination, arranging for the requisite training of the personnel and providing necessary funds for promoting "Local Works" schemes. The next step is to vitalise the basic institutions in the village and make them responsible both for planning and execution.

An Institution for training senior officers from the States, such as Development Commissioners, Heads of Technical Departments, and Collectors, as also interested non-officials, has been set up at Mussoorie.

An Institution for training principals and staff of various training institutions connected with the Community Development programme has been established at Dehra Dun.

A U.N. Evaluation Mission is at present (March 1959) in the country. It consists of Mr. M. J. Coldwell until recently President of the Canadian Cooperative Commonwealth Federation, Dr. Margaret Reid, Professor of Social Anthropology, University of London and Prof. Rene Dumont, Agricultural Economist of the National Institute of Tropical Agriculture, Paris.

People's contribution in cash, kind and labour upto September 30, 1958, totalled Rs. 65.98 crores, as against the Government expenditure of Rs. 103.38 crores. People's contribution in other words, amounted to 64 per cent of the Government's expenditure, as against the figure of 60 per cent for the previous year.

Budget		
	Revised Estimates 1958-59 (Rs. lakhs)	Budget Estimates 1959-60 (Rs. lakhs)
Grants to States	1,258.00	1,720.08
Central Schemes (training etc.)	50.20	71.86
Loans to States	919.22	1,275.00
Third Party loans for Union Territories	8.37	13.00
Total	2,236.29	3,079.94

Two items may be mentioned here—

Loans from Technical Cooperation Mission (1957-58): two million dollars.

Grant from Ford Foundation: Rs. 8.37 lakhs (1956-57), Rs. 3.38 lakhs (1957-58).

Equipment like vehicles, tractors, cinema trailer sets, X-ray sets etc. for irrigation, animal husbandry, road building and other programmes continued to be supplied during 1958-59. The total value of all such equipment imported under the Indo-U.S. Technical Assistance Programme and supplied to the blocks upto the end of 1958 was about Rs. 8.95 crores.

Further dollar assistance under the Indo-U.S. Technical Assistance Programme for the procurement of equipment for the Community Development Programme has been discontinued, and future requirements of equipment will be purchased out of the 'Rupee' provision in the Block budget.

EXPENDITURE

Progress of Government expenditure and people's contribution under the Community Development Programme, upto September 30, 1958 are shown below.

State	No. of blocks	Estimated target expenditure (Rs. lakhs)	Expenditure incurred (Rs. lakhs)	Col. (4) as percentage of Col. (3)	People's Contribution value (Rs. lakhs)	Col. (6) as percentage of Col. (4)
Andhra Pradesh ..	200	9.21	8.55	93	5.05	50
Assam	57	3.93	4.47	114	1.70	38
Bihar	269	12.27	9.66	79	0.49	98
Bombay	238	14.84	14.73	99	5.33	38
Kerala	60	4.01	3.17	79	1.17	37
Madhya Pradesh ..	212	14.35	13.19	92	4.50	34
Madras	151	6.54	6.08	93	2.21	36
Mysore	120	6.88	5.16	75	1.80	35
Orissa	122	5.15	4.79	93	0.99	21
Punjab	127	8.38	7.02	84	7.66	109
Rajasthan	110	5.80	6.41	111	5.18	81
Uttar Pradesh ..	370	17.01	10.78	63	17.19	150
West Bengal	128	5.68	5.80	106	1.96	34
Jammu and Kashmir	32	1.25	1.09	87	13	12
Union Territories ..	55	3.65	2.48	68	1.42	57
Total	2,278	1,18.95	1,03.38	87	65.98	64

Note :—1. Figures of expenditure (target and actual) are exclusive of cost of imported equipment, viz. Rs. 8.95 crores (tentative) which cannot be readily broken by States.

ACHIEVEMENT

The physical achievement upto Sep. 30, 1958 is shown by the following tables :

State	Improved seeds distributed '000' Mds.	Chemical fertilizers distributed '000' Mds.	Improved implements distributed '000' Nos.	Agricultural demonstrations '000' Nos.	Area under green manuring '000' Acres	Compost pits dug '000' Nos.	Improved animals supplied '00' Nos.	Improved birds supplied '000' Nos.	Animals castrated '000' Nos.	Animals treated '000' Nos.
Andhra Pradesh	2,837	9,250	275	2,680	1,919	540	88	178	372	2,057
Assam .. .	62	122	2	39	30	137	3	3	76	665
Bihar .. .	662	2,615	54	42	403	979	32	42	427	2,432
Bombay .. .	1,267	3,955	47	117	N.A.	310	29	32	212	2,749
Kerala .. .	27	836	12	38	226	96	4	17	32	397
Madhya Pradesh .. .	1,499	1,823	15	122	51	302	13	9	376	2,445
Madras .. .	1,027	8,978	55	297	668	286	31	48	235	1,006
Mysore .. .	538	3,629	70	201	148	184	10	75	335	2,525
Orissa .. .	364	182	23	24	41	348	3	11	505	2,556
Punjab .. .	681	1,636	324	190	107	522	16	69	551	3,384
Rajasthan .. .	813	293	45	80	70	335	23	13	241	2,701
Uttar Pradesh .. .	5,397	4,061	130	812	447	717	186	78	691	3,596
West Bengal .. .	222	1,367	6	143	23	153	7	37	20	431
Jammu & Kashmir .. .	48	110	41	3		20	1	1	59	1,067
Union Territories .. .	354	182	76	63	17	86	10	14	147	1,941
Total .. .	15,798	39,039	1,175	4,851	4,150	5,015	456	627	4,281	30,042

Note.—Figures for Assam, Orissa and Manipur relate to the quarter ending June 1958 and for J. & K. to the quarter ending Dec. 1957.

Table (contd.)

State	Adult literacy centres '000' Nos.	Adults made literate '000' Nos.	Reading Rooms '00' Nos.	Community centres '000' Nos.	Youth and Farmers' Club		Mahila Samities		Village Camps	
					No. '00'	No. of members '000'	No. '00'	No. of members '000'	No.	No. of villagers trained '000'
Andhra Pradesh .. .	7	249	60	19	244	195	29	38	2,272	97
Assam .. .	3	77	15	1	19	18	14	12	586	12
Bihar .. .	7	819	85	23	124	126	19	21	2,471	170
Bombay .. .	15	212	36	6	86	N.A.	22	N.A.	N.A.	72
Kerala .. .	1	50	15	2	19	66	7	67	166	22
Madhya Pradesh .. .	8	117	32	6	71	66	18	18	1,947	87
Madras .. .	3	186	23	5	3	43	8	19	1,436	65
Mysore .. .	5	134	20	4	34	42	5	10	867	26
Orissa .. .	10	288	14	6	21	28	3	6	423	20
Punjab .. .	1	86	19	3	37	48	21	28	1,252	57
Rajasthan .. .	5	165	32	4	34	45	13	16	1,038	51
Uttar Pradesh .. .	16	351	69	18	87	113	18	29	6,987	310
West Bengal .. .	4	157	22	4	51	130	10	28	676	19
Jammu and Kashmir .. .	..	1	N.A.	1	1	—	—	—	N.A.	N.A.
Union Territories .. .	2	76	9	1	16	15	4	5	141	6
Total .. .	87	2,968	451	103	847	935	191	299	20,562	1,014

Note.—Figures for Assam, Orissa and Manipur relate to quarter ending June 1958 and for J. & K. to quarter ending December 1957.

Table (conold.)

State	Rural latrines	Drains constructed	Smokeless Chullahs constructed	Village lanes paved	Drinking water wells constructed	Drinking water wells renovated	Kacha roads constructed	Existing Kacha roads improved	Culverts constructed
	'000' Nos.	'000' Yds.	'00' Nos.	'000' Sq. Yds.	'000' Nos.	'000' Nos.	'00' Miles	'00' Miles	'00' Nos.
Andhra Pradesh	1,00	4,957	8,62	2,95	9	45	68	63	35
Assam	36	841	6	2	6	12	54	51	45
Bihar	1,71	2,115	25	96	14	20	55	66	75
Bombay	16	682	N.A.	95	4	6	28	49	N.A.
Kerala	20	48	3	8	1	1	16	6	14
Madhya Pradesh	8	768	1,07	3,68	9	7	55	81	22
Madras	19	465	28	3,53	5	6	24	19	32
Mysore	18	662	98	1,91	4	8	68	50	21
Orissa	29	3,303	5	7,76	9	7	64	10	6
Punjab	7	1,972	5,22	3,291	13	9	70	37	66
Rajasthan	7	163	1,00	2,02	6	6	46	38	17
Uttar Pradesh	42	1,471	1,80	1,869	37	53	1,69	3,15	1,12
West Bengal	23	801	24	91	8	5	30	51	35
Jammu and Kashmir	2	12	—	1	—	2	8	7	16
Union Territories	9	355	23	8,12	4	8	31	71	15
Total	5,07	18,615	1,978	8,450	1,29	1,95	7,86	9,14	5,11

Note :—Figures for Assam, Orissa and Manipur relate to the quarter ending June 1958 and for J. & K. to the quarter ending December 1957.

TRAINING STAFF

The table below gives statistical information about the training of various categories as on 31st Dec. 1958.

Category	Persons		Training Centres
	Trained	Under Training	
Village Level Workers			
(i) Extension Training Centres (Non-integrated)	9,681	2,508	40
(ii) Extension Training Centres (Integrated)	22,974	2,804	35
(iii) Basic Agricultural School/Wings	17,562	4,356	65
Gram Sevikas	1,053	468	27
Extension Officers (Industries)	1,138	482	11
Extension Officers (Co-operation)	1,554	479	8
Health Personnel (Orientation)	1,570	81	3

There is in Mussoorie an Institute known as the Central Institute of Study and Research which gives a training to the key personnel in community development programmes. It has now only a Study Wing. It is proposed to add a Research Wing.

The Ministry has reorganised the training programme for the staff. The four B.D.O. Training Centres at Nilokheri, Ranchi, Rajendra Nagar and Bakshi-kha-Talab have been converted into

orientation training centres to provide orientation training to all block-level functionaries, as also job and refresher training to Block Development Officers. An orientation training centre has been set up at Mysore and two more are to be set up at Jubbulpore and Junagadh.

A trainers' training institute has been set up at Rajpur near Dehra Dun to provide training to the principals, directors and instructional staff of the various types of training institutes run

by the Ministry of Community Development and Cooperation, and also to the principals of Extension Training Centres sponsored by the Ministry of Food and Agriculture.

The Ministry has also drawn up two training schemes for the training of Sarpanchas of Panchayats and non-official members of the Block Development Committees. The details are being finalized.

There were 20,911 Gram Sevaks in India on March 31, 1958.

Following is the State-wise break-up of the number of Gram Sevaks:—Andhra Pradesh 1,847; Assam 633; Bihar 2,852; Bombay 2,044; Kerala 529; Madhya Pradesh 2,195; Madras 1,348; Mysore 807; Orissa 1,134; Punjab 1,197; Rajasthan 859; Uttar Pradesh 3,420; West Bengal 1,001; Jammu and Kashmir 548; Delhi 53; Himachal Pradesh 246; Manipur 56; Tripura 52; N.E.F.A. 60, and Pondicherry 40.

The number of Gram Sevaks by the end of Second Five Year Plan period would be 33,500.

Jeeps

The number of jeeps on June 1, 1958 was 2,502.

Andhra Pradesh 229; Assam 89; Bihar 265; Bombay 316; Madhya Pradesh 274; Madras 175; Punjab 168; Uttar Pradesh 389; Orissa 123; West Bengal 128; Mysore 75; Rajasthan 136; Kerala 60; Delhi 9; Himachal Pradesh 29; Tripura 10; Manipur 8; Pondicherry 2; Andaman and Nicobar Islands 2; and Social Education Organizers Training Centres 15.

RESEARCH

RESearch in pure science is carried out mainly in the universities, scientific surveys of the Government, and in some research institutes such as the Tata Institute of Fundamental Research. The Council of Scientific & Industrial Research (C.S.I.R.) and the Department of Atomic Energy provide facilities for fundamental or basic research in their laboratories and institutes, and also sponsor such research in universities and research institutions all over the country.

Research in applied science and for industrial development is done mainly under the auspices of the C.S.I.R., the Co-operative Industrial Research Associations, institutes functioning under various Ministries and the laboratories attached to a few industrial concerns.

The Shri Ram Institute for Industrial Research, Delhi, undertakes, on a 'not-for-profit' basis, researches on projects sponsored by industrial concerns, groups of companies, individuals and Government agencies.

Research in engineering subjects is undertaken in some of the C.S.I.R. laboratories and institutes, the Indian Institute of Science, Bangalore, Central and State Hydraulic Engineering Research Stations, Indian Institute of Technology, Kharagpur, and in a few engineering colleges, such as the College of Engineering and Technology, Jadavpur.

The Council of Scientific & Industrial Research, also sponsors engineering research in various institutions through its research committees.

Medical research is mainly in the charge of the Indian Council of Medical Research.

Agricultural research is looked after by the Indian Council of Agricultural Research, New Delhi, and the various Central Committees for agricultural commodities like the Indian Central Cotton Committee, Indian Central Jute Committee, etc. and the research institutes functioning under the Ministry for Food and Agriculture. (See article on agriculture).

The Indian Veterinary Research Institute, Izatnagar (U.P.) is concerned with veterinary diseases. The National Dairy Research Institute at Karnal in the Punjab works on dairy research.

Research in forestry and forest products is undertaken by the Forest Research Institute and Colleges at Dehra Dun.

Medical research is carried out under the auspices of the Indian Council of Medical Research, institutes functioning under the Ministry of Health, and the Council of Scientific and Industrial Research.

Research for defence purposes is undertaken in the Defence Science Laboratory at New Delhi; the naval research laboratory in Cochin, the Technical Development Establishments at Kanpur, Dehra Dun, Bangalore, Kirkee and other places.

Research in the humanities—literature, language, the arts, etc.—is done at individual institutions scattered throughout the country.

It may be mentioned here that the Central Government has a Scientific Liaison Officer in the U.K.

About 275 research journals (English) are published in India. These cover a wide range of subjects, grouped as follows: General science, 31; Engineering, including civil, electrical, telecommunication and aeronautical, 31; Chemistry, including biochemistry, chemical technology, plastics, paint, oils and fats, soap, and food, 21; Agriculture, including forestry, 35; and Medical sciences, 64.

SCIENTIFIC SOCIETIES

The National Institute of Sciences of India, New Delhi, established in 1955, is the scientific Academy recognised by the Government of India.

Besides this, there are two other general science Academies with national scope, viz. the Indian Academy of Sciences, Bangalore and the National Academy of Sciences, Allahabad.

The oldest learned society in India is the Asiatic Society of Bengal, founded in 1874. From it originated the Indian Science Congress Association which held its first annual meeting in 1914.

Scientific bodies are:

Indian Association for the Cultivation of Science, Jadavpur, Calcutta-13.

Aeronautical Society of India, New Delhi.

Agricultural & Horticultural Society of India, Calcutta.

Agri-Horticultural Society of Madras, Madras.

Anatomical Society of India, 1, Park Street, Calcutta-16.

Anthropological Society of Bombay, 136, Apollo Street, Bombay.

Architectural Society of India, Bombay.

Association of Microbiologists of India, 1, Park Street, Calcutta-16.

Banaras Mathematical Society, University of Lucknow, Lucknow.

Biological Society of Assam, Cotton College, Gauhati.

Bombay Natural History Society, 114, Apollo Street, Bombay.

Bombay Sanitary Association, Princess Street, Bombay.

Botanical Society of Bengal, 85, Ballygunge, Circular Road, Calcutta.

Calcutta Geographical Society, Calcutta.

Calcutta Mathematical Society, 92, Upper Circular Road, Calcutta.

Calcutta Statistical Association, Ansoosh Building, Calcutta-7.

Congress of Theoretical & Applied Mechanics, Kharagpur.

Concrete Association of India, C/o A.C.C., 121, Queen's Road, Bombay.

Engineering Association of India, India Exchange, Calcutta-1.

Entomological Society of India, Indian Agricultural Research Institute, New Delhi.

Geographical Society of India, Senate House, Calcutta University, Calcutta.

Geological Institute, 27, Chowringhee Road, Calcutta.

Geological, Mining & Metallurgical Society of India, Presidency College, Calcutta.

Gujarat Research Society, 46-48, Maplanade Mansions, Mahatma Gandhi Road, Bombay-1.

Helmintological Society of India, 1, Park Street, Calcutta-16.

Horticultural Society of India, 117, M-Block Hutments, New Delhi.

Indian Botanical Society, C/o Institute of Science, Mayo Road, Bombay.

Indian Ceramic Society, Banaras Hindu University, Banaras.

Indian Chemical Society, 92, Upper Circular Road, Calcutta.

Indian Council of Geographers, 1, Park Street, Calcutta-16.

Indian Dairy Science Association, Hosur Road, Bangalore-1.

Indian Ecological Society, 1, Park Street, Calcutta-16.

Indian Institute of Architects, Prospect Chambers Annex, D. Nauroji Road, Bombay.

Indian Institute of Chemical Engineers, Jadavpur University, Calcutta.

Indian Institute of Metals, 23-B, Netaji Subhas Road, Calcutta.

Indian Mathematical Society, Madras-4.

Indian Meteorological Society, New Delhi.

Indian National Society of Soil Mechanics & Foundation Engineering, New Delhi.

Indian Pharmaceutical Congress Association, 2, Heysham Road, Calcutta.

Indian Physical Society, Jadavpur, Calcutta-32.

Indian Physiological Society, Calcutta.

Indian Phytopathological Society, Pusa Institute Buildings, New Delhi.

Indian Society of Agricultural Economics, 46-48, Maplanade Mansions, Mahatma Gandhi Road, Fort, Bombay.

Indian Society for Agricultural Statistics, Queen Victoria Road, New Delhi.

Indian Society of Engineers, Calcutta.

Indian Society of Genetics & Plant Breeding, Indian Agricultural Research Institute, P.O. Pusa, New Delhi.

Indian Society for Quality Control, Calcutta.

Indian Society of Soil Science, Indian Agricultural Research Institute, New Delhi.

Institution of Engineers, 8, Gokhale Road, Calcutta-20.

Institution of Chemists, Medical College, Calcutta.

Institution of Military Engineers, New Delhi.

Institution of Surveyors, New Delhi.

Institution of Telecommunication Engineers, New Delhi.

International Society of Plant Morphologists, University of Delhi, Delhi.

Maharashtra Association for the Cultivation of Science, Law College Building, Poona.

Mechanical Engineers' Association, Janmabhoomi Chambers, 29, Fort Street, Bombay.

Mining, Geological & Metallurgical Institute of India, 27, Chowringhee, Calcutta.

Mysore Geologists' Association, Mysore Geological Department, Bangalore-1.

Oil Technologists' Association (India), I.I.B. Technological Institute, Kanpur.

Palaeobotanical Society of India, 53, University Road, Lucknow.

Physiological Society of India, 1, Park Street, Calcutta-16.

Psychoanalytical Society, Calcutta.

Rajasthan Academy of Sciences, Pilani, Rajasthan.

Royal Agri-Horticultural Society of India, 1, Allipore Road, Calcutta.

Society of Biological Chemists, P.O. Malleswaram, Bangalore-3.

Sugar Technologists' Association of India, Nawabganj, Kanpur.

Tropical Diet Research Society, Calcutta.

Vijnana Parishad, University Campus, Allahabad.

Zoological Society of Bengal, 85, Ballygunge, Circular Road, Calcutta-19.

Zoological Society of India, Jabakusum House, 34, Chittaranjan Avenue, Calcutta.

COUNCIL OF SCIENTIFIC RESEARCH

The major part of applied research in India is now carried on under the auspices of the Council of Scientific and Industrial Research (Ministry of Scientific Research and Cultural Affairs).

The Council of Scientific & Industrial Research was established in 1942 by the Government of India as an autonomous body registered under the *Registration of Societies Act XXI* of 1860. The functions of the Council include: the promotion, guidance and co-ordination of scientific and industrial research in India; the establishment, maintenance and management of laboratories and institutes to further scientific research; and the collection and dissemination of scientific information.

Research under the Council is carried on in its own laboratories and extra-murally in universities and other institutions under a grants-in-aid scheme.

The Council is administered by a Governing Body with the Prime Minister as President, the Minister for Scientific Research and Cultural Affairs as Vice-President and representatives of science, industry and certain Government departments as members. The Board of Scientific & Industrial Research advises the Governing Body on research and development proposals and also as to the lines on which scientific and industrial research ought to be conducted and the channels into which it should be guided for ensuring co-ordinated development of science and industry in the country.

The Board consists of representatives of science, engineering, industry and appropriate departments of State Governments and of

the Government of India. It functions in two working parties (i) scientific and technical subjects; and (ii) engineering subjects. The Board is advised by a number of Research Committees, which keep a watch on the progress of research schemes falling within their scope, formulate long-range research projects on specific subjects and recommend to the Board necessary grants-in-aid and block grants for research in universities and other institutions scattered in the country. The number of Research Committees at present is 15 as follows:

Aeronautical; Biological; Biophysics; Chemical; Civil Engineering & Hydraulic; Electrical & Mechanical Engineering; Essential Oils; Geological & Mineralogical; Metals; Pharmaceutical & Drugs; Physical; Public Health Engineering; Radio; Vanaaspati; and Joint Committee of the Indian Central Oilseeds Committee and C.S.I.R. for Vegetable Oils.

In addition to fostering research in its own laboratory network, the Council sponsors research in universities and research institutes through a system of grant-in-aid. Under this scheme, several surveys of raw materials for industry have been initiated and block grants have been provided for specific research project.

About 300 research schemes were in operation at 38 different centres in India during the year 1957-58. Several new schools of research have come into existence as a result of the Council's grant-in-aid scheme, e.g. geophysics at Waltair and nuclear and ionospheric research at Calcutta; a Rain & Cloud Physics unit has been established at Delhi and five Essential Oil Research Centres have been established in various parts of the country.

Sponsored research has proved particularly fruitful in the training of research personnel. It has enlarged the research effort in the country and stimulated research in borderline subjects.

The Council has undertaken the compilation of data relating to the qualifications and experience of scientific and technical personnel in the country—to make up a National Register. This Unit of the C.S.I.R. maintains information also on Indian technical personnel abroad.

The C.S.I.R. has, in fact, accepted the responsibility to administer a pool for temporary placement of Indians returning from abroad with high qualifications in scientific and technical subjects.

In accordance with the scheme, the pool will consist initially of 100 officers from which services of individual officers will be placed at the disposal of various industrial establishments in the private and public sectors, Departments of Government, Universities, or research and scientific institutions, till they are absorbed suitably. The recruitment to this pool will be through a Special Recruitment Board constituted for the purpose. The pool will also consist of a proportion of persons holding high Indian qualifications.

The Council publishes scientific periodicals, standard works of reference, monographs, bulletins and reports. As many as 16 periodicals are published, including two in Hindi and one in Kannada. Special mention may be made of the Dictionary of Indian Raw Materials and Industrial Products, an encyclopaedia issued under the general title: Wealth of India.

The Council takes an active part in international scientific projects, such as the International Geophysical Year.

The C.S.I.R. budget for 1958-59 was approximately Rs. 5 crores. A sum of Rs. 24 lakhs was allocated by the Council in 1957-58 to 380 scientists for research in various institutions.

The Second Five Year Plan provides Rs. 27-25 crores to the Council for research and development.

The Indian National Scientific Documentation Centre (INSDOC) provides information, document procurement and translation services to research worker. It acts as a repository for scientific publications and for these submitted

by research workers for Doctorate Degrees in Indian universities.

National Research Development Corporation

With a view to helping industry to fully utilize the results of research carried out in its laboratories, the Council has appointed Industrial Liaison Officers at Delhi and Jaipur, and Regional Liaison Officers at Calcutta, Madras and Bombay.

The Council maintains a patents section for drafting and filing patent specifications.

Industrial research has also been considerably stimulated and the gap between discovery and development progressively reduced by the efforts of the National Research Development Corporation.

Up to the end of September 1958, the Corporation had referred some 470 inventions for development. It had also set up 14 development projects and licensed 49 patents and processes of which 10 processes are already under production.

Another 30 processes are expected to go into production by 1960-61 when the value of commercial production from processes licensed by the Corporation is estimated to touch about Rs. 3-25 crores, involving a foreign exchange saving of about Rs. 2-5 crores.

The development projects include the mechanical bamboo pulp project for establishing the potentialities of increased yield of cheap paper from bamboo by a partially mechanical process.

The Corporation is currently arranging for trials of the project. If the process proves successful, the pulp yield from 100 tons of bamboo is expected to be doubled—from 35-40 to 70-80 tons.

Enterprise has also been shown by the Corporation towards the development of indigenous production of baby food. The first tins of home made milk powder for babies are expected in the market in 1959.

The Corporation had two tons of milk powder produced from buffalo milk according to a process developed by the Central Food Technological Research Institute. The food was distributed to hospitals and found quite satisfactory.

The Amul dairy farm, which supplied the buffalo milk, has since been licensed for commercially manufacturing 1,500 tons of this baby food.

Other processes developed include those for producing mica insulating bricks (these are being used in the Bhilai steel plant), carbon slabs and blocks, liasorb (for absorbing carbon-dioxide in mines), foam glass, vitamin 'C', ginger cocktail, composite protein food, tonic wine, bamboo boards, mineral wool and electronic multi-testers.

The Corporation hopes to license several more processes. These include a process of manufacturing wet ground mica powder, which is used in the production of rubber and paints. This item is imported at present.

The Corporation also expects to license a process for producing wax from sugarcane "Pressmud". This wax is required in the manufacture of shoe polish.

NATIONAL LABORATORIES

There are 21 national laboratories functioning under the Council.

The National Physical Laboratory in New Delhi and the National Chemical Laboratory at Poona stand on a special footing.

The former is equipped for the maintenance of and research in fundamental and derived standards. It also undertakes research in industrial standards of performance and practice.

The National Chemical Laboratory is concerned with investigations embracing all the chief applications of chemistry. In the areas not covered by the activities of other institutions this Laboratory has a special responsibility.

The National Metallurgical Laboratory, Jamshedpur;

The Central Fuel Research Institute, Jealgora with Coal Survey Stations at Jharla, Raniganj, Bilaspur, Ranchi, Jorhat and Hyderabad.

The Central Glass & Ceramic Research Institute, Calcutta;

The Central Food Technological Research Institute, Mysore;

The Central Drug Research Institute, Lucknow;

The Central Leather Research Institute, Madras;

The Central Building Research Institute, Roorkes;

The Central Road Research Institute, New Delhi;

The Central Salt Research Institute, Bhavnagar;

The National Botanic Gardens, Lucknow;

The Central Electronics Engineering Research Institute, Pilani;

The Indian Institute for Biochemistry & Experimental Medicine, Calcutta;

The Central Mining Research Station, Dhanbad;

The Central Electro-Chemical Research Institute at Karaikudi;

The Birla Industrial and Technological Museum, Calcutta;

Regional Research Laboratory, Hyderabad;

Regional Research Laboratory, Jammu;

The Central Mechanical Engineering Research Institute, Durgapur;

The Central Public Health Engineering Research Institute, Nagpur.

The work of the national laboratories covers a wide field. Some of the laboratories have undertaken surveys and assessment of raw materials for industry and also the discovery of indigenous substitutes for raw materials hitherto imported.

Special mention may be made of the national survey of coal resources, which has provided basic information on the fuel resources of the country.

Improved processes of manufacture which can be adopted by industry have been developed and several processes for the manufacture of new products, not hitherto produced in the country, have been worked out.

Procedures for improving the quality of products produced in the country have been formulated.

Among the more recent achievements of the Council's laboratories, mention may be made of the production of optical glass, of mica insulating bricks, of stainless steels in which nickel has been eliminated, and nickel-free alloys for coinage.

Other products include ceramic condensers, tanning auxiliaries, multipurpose food, foam glass, ion-exchange resins, industrial carbons and synthetic vitamin C.

NUCLEAR RESEARCH AND ATOMIC ENERGY

Nuclear research is of recent origin in India. Pioneering work in this field was done by the Tata Institute of Fundamental Research, Bombay, established in 1945 as a high-level academic institution for carrying research and advanced study in physics with special emphasis on nuclear physics and mathematics.

This Institute has since been recognised as the National Centre for advanced study and fundamental research in nuclear science and mathematics.

The Institute is the most important centre for cosmic ray research in India and has made notable contributions to the theory of elementary particles. Its nuclear emulsion group for the study of new elementary particles is probably the second largest in the world and has made outstanding contributions.

During the years preceding the establishment of the Atomic Energy Commission, the Institute had already collected and built up a small group of scientists trained in some of the special techniques of nuclear physics.

Another institution connected with nuclear research is the Saha Institute of Nuclear Physics, Calcutta, which was founded by the late Dr. Meghnad Saha, F.R.S., and was formally inaugurated in 1950.

Considerable fundamental research work in nuclear science and cosmic rays is also being conducted at some 15 universities and research institutions all over India with financial assistance from the Department of Atomic Energy.

The development and control of atomic energy in India is regulated by the Atomic Energy Act (Act No. XXIX of 1948) and the Department of Atomic Energy handles all business of the Government of India relating to atomic energy and functions of the Central Government under the Act.

In view of the important and rapid strides that India had made in the research into and development of atomic energy for peaceful purposes and of the greatly expanded programme envisaged for the future, including the construction of atomic power stations, it was decided in March 1958, to establish an Atomic Energy Commission with full authority to plan and implement the various measures on sound technical and economic principles and free from all non-essential restrictions or needlessly inelastic rules.

The new Commission which assumed authority on June 23, 1958, is responsible for (a) formulating the policy of the Department of Atomic Energy, (b) preparing the budget of the Department, and (c) implementing Government's policy in all matters concerning atomic energy.

The Commission's programmes envisage that India should be able to produce all the basic materials required for the production of atomic energy, promote its use in agriculture, biology, industry and medicine, prepare a long-range plan for the generation of electric power and set up one or more power stations.

The scientific and technical work of the Department is carried out by the Atomic Minerals Division and the Atomic Energy Establishment at Trombay near Bombay.

Some of the more important functions of the Atomic Minerals Division are: (a) geological survey, prospecting, exploration and mining of minerals useful for the production of atomic energy, (b) working and development of atomic minerals on industrial scale, and (c) procurement of atomic minerals, etc.

Trombay Establishment

The Atomic Energy Establishment at Trombay which was formally inaugurated in January 1957, is the Indian centre for research and development work in the field of atomic energy. The 2,400 acre Establishment is the heart of the Indian Atomic Energy Commission's activities in the field of research.

Over 800 Indian scientists and technical personnel are presently working for the Establishment, to put atomic energy to work for the benefit of India (In 1954, there were only 215).

To ensure a steady supply of trained scientific and technical personnel, the Establishment started a training programme in 1957 under which 250 young graduates and engineers are recruited annually from the universities and given supplementary training for a year to fit them for work in India's atomic energy programme. It is hoped to increase the intake of this Training School to 350 a year in due course.

Almost all the instruments and electronic components that are needed in nuclear energy work are now being made in the Trombay Establishment, thus making the country self-sufficient in this vital field, and saving considerable foreign exchange.

The Trombay Establishment (whose work is split up into 14 divisions, which are, in turn, grouped into 4 main groups: the Physics, the Chemistry, the Engineering, and Biology Divisions) includes India's first reactor, APSARA; the Radio-Chemistry Laboratory, and the Thorium Processing Plant.

Nearing completion are the Canada-India Reactor, ZERLINA, a Zero Energy reactor, a Uranium Metal Plant, and plants for processing fuels and moderators.

APSARA Reactor: APSARA, India's first atomic reactor, which went into operation two and a half years ago (August 4, 1956), has provided useful facilities for research in many fields. It is the first reactor to go into operation in Asia, outside the U.S.S.R. It was designed, engineered and built entirely by Indian scientists and engineers and by Indian industry, except for the fuel elements. The fuel elements (convex plates of enriched uranium alloyed with aluminium and canned in aluminium) have been provided by the U.K. Atomic Energy Authority. It was built in the space of only a year after design finalisation.

This small-sized reactor, which cost Rs. 35 lakhs (£260 thousand), is producing radio isotopes which are already being extensively used in Indian agriculture, medicine and industry, and research workers at the universities.

APSARA is the nation's principal facility for training personnel in reactor technology and for fundamental research in physics, engineering and biology, which require the use of strong fluxes of neutrons.

ZERLINA: A second reactor, ZERLINA (zero energy reactor for lattice investigations and new assemblies), is being built and was expected to go into operation by the middle of 1959. This reactor will be very useful in the study and design of new reactor systems.

Canada-India Reactor: India's third research reactor will be the Rs. 7½ crore (£5.3 million) Canada-India Reactor, now under construction at Trombay. When it goes into operation in 1960, India will possess one of the best isotope producers in the world. With it the country will be able to produce the full range of radioactive isotopes. This reactor is based on the design of the NRX Reactor at Chalk River, Ontario (Canada), with substantial modifications to allow for its installation in a tropical country close to a large centre of population and with many improvements based on Canadian experience. A joint Indo-Canadian project, Canada's share (£2.75 million) being provided under the Colombo Plan, this reactor is the first major atomic energy project to be undertaken in the field of international assistance. The reactor will require some 20 tons of heavy water, which has been sold to India by the U.S. Atomic Energy Commission.

Radio-Chemistry Laboratory: This Laboratory, which was built early in 1958, is a start to train a team of chemists in the handling of highly radioactive substances. An important function of the Laboratory is to assist all Divisions of the Establishment in the use and handling of radioactive materials in their experiments. Dr. Welch, a senior scientist, from the U.K. who is here under the Colombo Plan, is at present assisting in directing and organising the work of the Laboratory. The Laboratory was set up under the supervision of a U.K. scientist, G. R. Hall, seconded from the Atomic Energy Research Establishment at Harwell.

Thorium Plant: The 4-year-old Thorium Plant produces two much-needed raw materials for atomic energy development: over 300 tons of thorium and a few tons of uranium a year, which is equivalent in fuel value to roughly 1,000 million tons of coal. This is about 30 times the present annual production of coal in India. The plant was built entirely by Indian scientists and engineers. Its capacity was increased six-fold in 1958. The plant is one of the largest in the world for the production of thorium nitrate. Besides supplying virtually the entire requirements of the gas mantle industry in Asia, it also

supplied markets in Europe and America, helping India to save foreign exchange by meeting local requirements and is earning valuable foreign exchange by exports. A part of the production of the plant is also stockpiled according to a planned programme for future use in India's atomic energy programme (See also under 'Government Industrial Undertakings').

Uranium Metal Plant: The production of adequate supplies of uranium is the basic requirement for a self-sufficient atomic energy programme and, accordingly, a plant has been set up at Trombay to process uranium concentrates into reactor-grade uranium metal for experimental purposes and for use in the reactors that are under construction at Trombay. It has already provided necessary experience for the design and construction of the large uranium plants which will be required for a full-scale atomic power programme.

Fuel Element Fabrication Plant: A "fuel element" is the form in which fuel is inserted into a nuclear reactor. Usually it is a cylindrical rod of uranium sealed into a container or "can" of magnesium/aluminium alloy. The uranium metal produced at the Uranium Metal Plant will be rolled into rods of suitable sizes at the Fuel Element Plant for use in India's reactors.

A pilot plant for the extraction of uranium from copper tailings is in operation in Ghatalla (Bihar). Heavy water, one of the essential commodities in an atomic energy programme, will be produced in quantity as a by-product at the fertiliser plant which is being set up at Nangal (Punjab).

The Mineral Sand Industry of south India is proposed to be nationalised in stages and the Travancore Minerals (Private) Ltd., a company owned jointly by the Government of India, the Government of Kerala and the Government of Madras, started functioning in 1957. Ilmenite, which is the main product of this industry, has proved to be a valuable foreign exchange earner. The company is also producing rutile, zircon and monazite.

Government have decided that a minimum of 250,000 kW of nuclear power be included in the power programme of the Third Plan and exploratory talks with the manufacturers of the atomic power station in other countries are in progress.

The Department has been providing grants-in-aid to various university laboratories and research institutions and is assisted in this work by a Board of Research in Nuclear Science and Advisory Committees for Chemistry, Physics, Cosmic Rays, Biology and Medicine, and Food and Agriculture.

OTHER RESEARCH BODIES

There is a whole host of research organizations (besides the ones mentioned above) engaged in scientific research of one sort or another.

The Geological Survey of India in Calcutta maps out the mineral resources of the country. The Indian Bureau of Mines and the Mineral Information Bureau at Delhi help in the prospecting and working of minerals.

The Oil and Natural Gas Commission is responsible for the prospecting and exploitation of mineral oil resources.

Cartographic work is in progress under the National Atlas Organization in Calcutta.

The Survey of India with its headquarters at Dehra Dun is engaged in large-scale mapping of river basins and in the preparation of topographical maps.

The Botanical and Zoological Surveys both in Calcutta conduct systematic surveys of the animal and plant resources of the country.

The Meteorological Departments of the Government of India at Delhi and Poona are concerned with meteorological, climatological, hydro-meteorological and snow surveys.

The Department of Anthropology in Calcutta is concerned with ethnographic surveys and a variety of other studies in anthropology.

The Indian Association for the Cultivation of Science in Calcutta is engaged in physical and chemical research, both in its theoretical and applied aspects.

Research in radio physics and electronics is in progress at the Indian Institute of Radio Physics and Electronics in Calcutta, while research in cosmic rays and theoretical physics is carried on at the Physics Research Laboratory in Ahmedabad.

The Bose Research Institute in Calcutta conducts research in physics, chemistry, zoology and plant breeding.

The Birla Sahani Institute at Lucknow carries on research in plant fossils.

ENGINEERING RESEARCH

The Indian Standards Institution at New Delhi lays down specifications for materials, tools and products.

Among engineering institutions providing facilities for research the following may be mentioned:

All India Institute of Hygiene and Public Health, Calcutta: Sanitary engineering.

Central Building Research Institute, Roorkee (U. P.): Building engineering, prestressed concrete engineering, etc.

Central Electronics Engineering Research Institute, Pilani (Rajasthan): Electronics and telecommunication engineering.

Central Mechanical Engineering Research Institute, Durgapur (W. Bengal): Mechanical engineering.

Central Public Health Engineering Research Institute, Nagpur: Public Health and sanitary engineering.

Central Road Research Institute, New Delhi: Road engineering.

Concrete Research Laboratory, Chepank, Madras: Structural engineering.

Indian Institute of Science, Bangalore: Aeronautical engineering, internal combustion engines, and power, hydraulic and electrical communication engineering.

It may be mentioned here that initial work on a major wind tunnel project to be located at the Indian Institute of Science, Bangalore, has been sanctioned by the C.S.I.R. This wind tunnel, which has a large working section, will ultimately form the nucleus of the proposed National Aeronautical Research Laboratory at Bangalore.

The laboratory, which is estimated to cost about Rupees one lakh, is expected to start functioning by 1962 or 1963. It is the first large one of its kind in the country which will be capable of undertaking tests at speeds greater than the speed of sound. In view of the increasing importance of the aeronautical research work and of high speed flight, the project has been accorded a high priority. The project will be staffed by Indian scientists and the equipment as far as possible will be manufactured indigenously.

It is the most important research equipment in aeronautical development.

Indian School of Mines and Applied Geology, Dhanbad: Mining engineering.

M. S. University, Baroda: Civil, mechanical and telecommunication engineering.

P. S. G. & Sons' Charities College, Coimbatore: Civil, mechanical and electrical engineering.

Government College of Technology, Coimbatore: Heat engineering, hydraulic engineering, soil mechanics.

Indian Institute of Technology, Kharagpur: Mechanical engineering.

Madras Institute of Technology, Madras: Aeronautical and automobile engineering and soil mechanics.

University College of Science and Technology, University of Calcutta: Heat and illumination engineering.

A number of Ministries and Departments of the Government of India have development and research sections in engineering:

The Indian Agricultural Research Institute, New Delhi has a Division of Agricultural Engineering which is concerned with agricultural equipment.

The Ministry of Communications has a Research and Development Directorate which sees to the specifications, certification and manufacture of aircraft and aircraft material.

The Ministry has a Telecommunications Research Centre in Delhi.

The Technological Development Wing of the Ministry of Industries offers advice on engineering equipment in general and more especially on machine tools and internal combustion engines.

The Central Board of Irrigation and Power conducts eleven research stations the chief of which are in Poona, Amritsar and Poondi (Madras State). The one at Khadakvasla near Poona is the most important. It conducts research in hydraulic engineering, soil mechanics, concrete materials and navigation.

The All India Radio has a research unit of its own in New Delhi.

The Railway Board has centres in Lucknow, Lonavla and Chittaranjan to investigate problems connected with railways.

Research projects connected with roads, bridges, ports, harbours are taken up for investigation by the Roads Organization under the Ministry of Transport.

MEDICAL RESEARCH

Medical Research is conducted chiefly under the auspices of the Indian Council of Medical Research, New Delhi. The Council also grants research fellowships. There is a Scientific Advisory Board which deals with technical questions and publishes reports of research carried on under the auspices of the Council.

The Council spent over Rs. 52 lakhs on research in 1957-58. In 1958-59 the expenditure was expected to exceed Rs. 60 lakhs.

The more prominent research institutions in medicine are:

School of Tropical Medicine, Calcutta: Diseases peculiar to tropical climate.

All India Institute of Hygiene and Public Health, Calcutta: Preventive and social medicine.

Indian Cancer Research Centre, Bombay: Cancer.

Vallabhbhai Patel Chest Institute, Delhi: Tuberculosis.

Central Leprosy Research Institute Madras: Leprosy.

Haffkine Institute, Bombay: Plague, malaria, virus diseases, nutrition. It also manufactures vaccine and sera.

Central Research Institute, Kasauli: Microbiology, bio-chemistry, serology.

Pasteur Institute, Coonoor: Rabies, influenza, tropical eosinophilia, anti-venom serum, serological reactions.

King Institute of Preventive Medicine, Guindy, Madras: Vaccines, specially against smallpox and therapeutic sera.

Bengal Immunity Research Institute, Calcutta (Private): Prevention, control and cure of disease, and anti-malarial drugs.

Central Drug Research Laboratory, Calcutta: Biological and chemical assays of drugs. It also gives technical advice to drug manufacturing firms.

Drug Research Laboratory, Jammu: Research in medicinal plants. Has two farms. Promotes standardization of indigenous drugs.

Virus Research Centre, Poona: Virus-caused diseases.

Central Drug Research Institute, Lucknow: Work on drugs.

Malaria Institute of India, Delhi: Malaria. Nutrition Research Laboratories, Coonoor: Nutrition and allied subjects.

The Indian Council of Medical Research initiates research in a large number of specific problems at medical colleges and hospitals in the country including the institutions mentioned above.

The problems are too technical to be mentioned here. But in general they relate to in the 1958-59 series, besides clinical research covering a large area, haematology, cardio-vascular diseases and hypertension, liver diseases, cholera leprosy, malaria, tuberculosis, venereal diseases, dental health, environmental sanitation and hygiene, industrial health, maternal and child health, mental health, nutrition, protein foods, human lactation, protein metabolism, energy metabolism, nutritive value of certain food stuffs, food technology, growth and physical development of Indian infants, lathyrism, fluorosis, physiology and pharmacology, physiology of human reproduction, virus diseases.

RESEARCH IN HUMANITIES

Research in the humanities—literature, language, arts, etc.—is engaging the attention of individual institutions scattered throughout the country.

Anjuman-i-Islam Urdu Research Institute, Hornby Road, Bombay 1; Anthropological Society of Bombay, C/o K. R. Cama Oriental Research Institute, 136, Apollo Street, Bombay; Bangiya Sahitya Parishad, 243-1 Upper Circular Road, Calcutta; Bhandarkar Oriental Research Institute, Poona; Bharatiya Itihasa Samshodhaka Mandal, Sadashive Peth, Poona; Bharatiya Vidya Bhawan, Chowpatty, Bombay; B. J. Institute of Learning and Research, Bhadra, Ahmedabad; B. M. Institute of Child Development, Pharmacy College, Navrangpura, Ahmedabad; Bureau of Psychology, Allahabad; D. A. Memorial Institute, C/o Bharatiya Itihasa Samshodhaka Mandal, Poona; Deccan College of Post-Graduate and Research Institute, Poona; Department of Anthropology, Indian Museum, 27 Chowringhee Road, Calcutta; Department of Archaeology, Ministry of Education, New Delhi; Department of Historical and Antiquarian Studies, Gauhati; Dharmakosha Mandal (Vedic Research Institute), C/o Prajna Pathshala, Wai, Dist. North Satara, Bombay; Gangadhar Jha Research Institute, Allahabad; Gokhale Institute of Politics and Economics, Poona; Gujarat Research Society, Bombay; Hindi Vidya Pith, Deogarh, Bihar; Indian Institute of Education, 11 Horniman Circle, Bombay; Indian Institute of Philosophy, Amalner, East Khandesh, Bombay; Kannada Research Institute, Dharwar; Karnatak Research Society, Dharwar; K. P. Jayaswal Research Institute, Patna; K. R. Cama Oriental Institute, 136 Apollo Street, Bombay; Kuppaswami Sastri Research Institute, Mysore, Madras; Mandir Vidya Pith, Bhagalpur, Bihar; Marathi Samshodhan Mandal, Mumbai Marathi Granth-sangrahalaya, Thakurdwar, Bombay; Mithila Institute of Post-Graduate Studies and Research in Sanskrit Learning, Darbhanga, Bihar; Nalanda Pali Institute, P.O. Nalanda, Patna; National Archives of India, Ministry of Education, New Delhi; Oriental Research Institute, Mysore; Rajasthan Vidyya Vidya Peeth, Udaipur; Rajwade Samshodhan Mandal, Dhulia, Bombay; Scindia Research Institute, Ujjain; Shri G. K. Institute of Rural Education, Gargoti, Kolhapur Dt., Bombay; Sheth Bholabhai Jeshingbhai Institute of Learning and Research, Bhadra, Ahmedabad; Shri Farbes Gujarati Sabha, Bombay; Tata Institute of Social Sciences, Chembur, Bombay; The Asiatic Society, 1, Park Street, Calcutta; Vachana Mantapa (Kannada Research Institute), Belgaum; Venkateswara Research Institute, Tirupati; Vaidika Samshodhana Mandal, Tilak Memorial, Poona; Vaidika Pratikriti Institute, Muzaffarpur; Vishveshwaranand Vedic Research Institute, Hoshiarpur, Punjab.

CIVIL AVIATION

ALLOTMENT under the Second Five-Year Plan, Rs. 43 crores.

The budget estimates for 1958-59 for the Civil Aviation Department were: Revenue Expenditure: Rs. 3.79 crores; Capital Expenditure: Rs. 3.23 crores; Revenue from landing, etc. at civil aerodromes: Rs. 88 lakhs.

1950-60 budget estimates: Capital expenditure: Rs. 4.28 crores; Revenue expenditure: Rs. 6.94 crores.

The internal air services and services to neighbouring countries are managed by a corporation called Indian Airlines Corporation, and the external services by Air-India International Corporation. According to the Act, the number of members of a Corporation cannot be less than five and not more than nine. Each of the Corporations has a general manager.

The Central Government has authority to give the Corporations directions about opening a new transport service, closing an existing service, or other changes in schedule. At the end of a financial year the Corporations must present a report to the Central Government which will be laid before Parliament.

Private agencies can use aircraft for purposes of instruction, rescue or relief, air survey, fire fighting, crop dusting, locust control or for providing joy rides.

An Air Transport Council has been established for considering points of common interest between either of the Corporations and the Director-General of Civil Aviation or the Director-General of Posts and Telegraphs.

An Advisory Committee for each Corporation was appointed in April 1958.

A Labour Relations Committee for each Corporation consisting of representatives of the Corporation and of employees, was formed early in 1956. The Committee has been formed in such a way that the representatives of employees are not less than the representatives of the Corporation. This Committee will give advice to the Corporation on matters of labour.

In addition to the two Corporations, there were 14 flying clubs and six transport companies, the latter holding permits for non-scheduled services on December 31, 1958.

INDIAN AIR LINES CORPORATION

(Thapar House, Janpath, New Delhi.)

Some basic facts about the Indian Airlines Corporation for 1957-58 are as follows:

Service	Hours Flown	Miles Flown	Passengers Carried	Freight Carried lbs.	Mails Carried lbs.
Scheduled Services (including N.A.S.)	108202-00	17,064,997	551,570	85,864,703	11,551,137
Night Airmail Services	9151-10	1,618,338	50,951	2,726,048	3,993,546
Non-Scheduled Rev. Services	8349-35	1,253,555	47,994	13,162,580	19,868

INDIAN AIRLINES CORPORATION was formed on 1st August, 1953, as a State Corporation under the provisions of the Air Corporations Act, 1953.

The present fleet consists of 6 DC-4, 62 DC-3, 12 Vickers Vikings, 10 Vickers Viscounts and 7 DH Herons (Total: 97) operating 14,570 unduplicated route miles throughout India, connecting Afghanistan, Kasat and West Pakistan, Nepal, Burma and Ceylon.

Indian Airlines Corporation is now a full member of the International Air Transport Association. Indian Air Lines Corporation has set up training establishments for its Flying, Engineering and Traffic personnel.

The members of the Board of Directors of the Indian Airlines Corporation are:

V. Shankar, I.C.S. (Chairman), J. R. D. Tata, Air Marshal S. Mukerji, Comdg. General M. J. B. Manekji, B. R. Patel, Air Commodore P. C. Lal, D.F.C., N. N. Wanchoo, I.C.S., S. R. Vasavada, Mrs. P. V. Cherian.

Secretary: S. C. Mukerji.

The operations of the Corporation have been divided into three Areas, namely Delhi, Bombay and Calcutta. Each Area is under the charge of an Area Manager who is responsible to the Chairman for the proper administration and co-ordination between different departments in the Area. The Headquarters Office of the Corporation has, besides the Chairman and the General Manager, Departmental Heads.

The total number of staff employed by the Corporation is about 9,400.

The crew strength of the Indian Airlines Corporation consists of 216 Commanders and 122 Co-pilots.

The loss incurred by I.A.C. in 1957-58 was Rs. 103.07 lakhs as against Rs. 108.79 lakhs in 1956-57.

‡ Air Corporations Act, 1953.

AIR-INDIA INTERNATIONAL

The members of the Air-India International Corporation (New India Assurance Bldg., Bombay 1) are:

J. B. D. Tata (Chairman), V. Shankar, I.C.S., K. C. Mahindra, Air Marshal S. Mukerji, B. R. Patel, I.C.S. (Vice-Chairman), Air Commodore P. C. Lal, D.F.C., N. N. Wanchoo, I.C.S.

Personnel: 4,266.

Unduplicated route mileage: 21,617.

Fleet: Ten 1049-G Super Constellations.

One DC-3C Freighter.

Three 707 Boeing Aircraft on order.

The three Boeing 707 Inter-Continental Jet Airliners will be delivered early in 1960. The Inter-Continental Jet Airliners will not only reduce the present flying time by half, but will also offer greater seating capacity.

The Corporation has steadily stepped up its frequencies on the India/UK, India/Tokyo and India/Nairobi routes. Air-India International now operates a daily service to U.K., thrice a week to Tokyo, twice a week to Nairobi and once

a week to Sydney via Madras, Singapore and Darwin. There is also a regional weekly service to Jakarta via Madras and Singapore, and a weekly service to Moscow from Delhi.

Traffic Headquarters: 4th Floor, Bank of India Building, Mahatma Gandhi Road, Fort, Bombay-1. Cable: AIRINDIA.

Net profit for the year ending March 31, 1958: Rs. 126.10 lakhs.

Operating Revenue: Rs. 1,082.49 lakhs.

Budget estimates (1950-60) are as follows (Rs. lakhs):

	1958-59 Revised	1959-60 Budget
Purchase of aircraft	15.15	255.00
Redemption of Compensation bonds	254.00	—
Workshop expansion	30.00	33.00

AIRCRAFT

There were 536 aircraft holding current Certificates of registration in India at the end of June 1958 of which 212 held current Certificates of Airworthiness.

Of the 536 aircraft 12 were owned by Air-India International and 91 by Indian Airlines Corporation.

AERODROMES

There were 84 aerodromes maintained and operated by the Civil Aviation Department in Dec. 1958.

The following aerodromes (3) are classed as International Aerodromes:

Bombay (Santa Cruz Airport); Calcutta (Dum Dum Airport); Delhi (Palam Airport).

The following aerodromes (8) are classed as Major Aerodromes:

Agartala (Tripura); Ahmedabad; Begumpet (Hyderabad); Delhi (Safdarjung); Gauhati; Madras (St. Thomas Mt.); Nagpur; Tiruchirappalli.

The following aerodromes (38) are classed as Intermediate Aerodromes:

Allahabad; Amritsar; Aurangabad (Bombay); Bagdogra (West Bengal); Balurghat (West Bengal); Banaras; Baroda; Belgaum; Bhavnagar; Bhopal; Bhubaneswar; Bikaner; Bombay (Juhu)*; Chandigarh; Coimbatore; Coorah-Bihar; Cuttack (Bhubaneswar)*; Gaya; Gorakhpur (Kumil)*; Indore; Jaipur; Junagadh (Keshod)*; Kailashahar (Tripura); Kamalpur (Tripura); Khowal (Tripura); Kumbhirgram (Assam); Lucknow (Amausi)*; Mangalore (Rajpet)*; Mohanbati (Assam); North Lakhimpur (Lilabari)*; Pasighat (N.E.F.A.); Patna; Porbandar (Bombay); Rajkot; Rupsi (Assam); Tezpur (Assam); Trivandrum; Vijayavada; Vishakhapatnam.

The following aerodromes (35) are classed as Minor Aerodromes:

Akola; Asansol; Bareilly; Bilaspur; Chakulia (Bihar); Cuddappah (Andhra); Donakonda (Andhra); Jhansi; Jharsuguda (Orissa); Jubbulpore; Kanpur (Civil) (Uttar Pradesh); Khandwa; Kolhapur; Kotah (Rajasthan); Lalitpur (U.P.); Madras; Manipal Road (Assam); Malda; Muzaffarpur (Bewaghat)*; Mysore; Palanpur (Deesa) (Bombay); Panagarh (W. Bengal); Panna (M.P.); Raipur; Rajahmundry; Ramnad; Ranchi; Satna (M.P.); Saharanpur (U.P.); Sheila (Assam); Sholapur; Tanjore; Udaipur (Dabok); Vellore; Warangal.

The new aerodromes at Kandla† and Phoolbagh (Haldwani, U.P.) are shortly to be completed. Three more new aerodromes at Dehra Dun, Ratnagiri and Koshikode and a Gliderdrome at Poona are expected to be completed during the remaining part of the Second Five Year Plan.

* Name of aerodrome or location.

† Was opened in March 1959.

New aerodromes are also under construction at Tuliha (Imphal), Raxaul (Bihar), Joghani (Bihar) and Behala (Calcutta).

The new terminal building at Bombay (Santa Cruz) airport, the largest airport building in India, was commissioned from March 5, 1958.

The works completed during the half year ending June 30, 1958 include the erection of two S. W. P. hangars at Calcutta (Dum Dum) airport, the construction of an apron and a taxi track at Bombay (Santa Cruz) airport and the erection of a Butler Hangar having a floor area of 160 ft. by 130 ft. with an apron of 300 ft. by 150 ft. in front and a taxi track of 300 ft. by 50 ft. at Bagdogra aerodrome.

Radar: A storm warning radar—Decca type 41—has been installed at Sonagaon airport at Nagpur to provide accurate information about storm precipitation centres to aviators. This radar can detect storms upto about 150 miles and indicate the direction and speed of its movement.

A radar of this type is in operation at Santa Cruz (Bombay) and another is to be installed shortly at Madras, Dum Dum airport at Calcutta and Safdarjung airport at New Delhi have already been provided with high-power storm detecting radars.

Apart from radars at Calcutta, Delhi, Nagpur, Bombay and Madras, Decca type 41 radars will also be provided at Gauhati and Gaya. The installation of the radar at Madras is to be taken up shortly and that at Gauhati and Gaya is expected to be completed by 1960.

AIR TRAINING

At the end of November 1958 there were 14 flying clubs centrally subsidized and three satellite centres with their headquarters at Delhi, Bombay, Madras, Barrackpore, Patna, Bhubaneswar, Nagpur, Jullundur, Jaipur, Lucknow (with satellites at Allahabad, Kanpur and Varanasi), Bangalore, Indore, Hyderabad and Gauhati. From Feb. 17, 1954 the Hyderabad State Aero Club revived its flying activity under the name of Andhra Pradesh Flying Club and the Assam Flying Club started operation from June 4, 1958.

These flying clubs trained 198 'A' and 3 'B' pilots in 1958. On Nov. 30, 1958, there were 547 trainees for 'A' Licence and 1 for 'B' Licence undergoing training. During 1958 the flying clubs logged a total of 23,818 hours of flying.

The number of aircraft on charge on Nov. 1, 1958 was 133; 28 belonged to the Government and 105 to the clubs.

The number of pilots employed was 43, aircraft maintenance engineers 39, mechanics 136.

The aircraft flew 2,400 hours in Nov. 1958.

In order to promote air-mindedness among the youth of the country 50 Free Flying Scholarships were awarded to trainees of Flying Clubs during 1957-58. Training was imparted upto 50 hours free of cost to the trainees. Another 50 scholarships were awarded during 1958-59.

There were three Government Gliding Centres at Poona, Allahabad and Bangalore and one centrally subsidized Gliding Club at Delhi in operation at the close of November 1958. These centres and the Club trained 132 Gliding Pilots.

The number of gliders on charge on November 30, 1958 was 32, all of which belonged to the Government of India.

The total subsidy granted to flying and gliding clubs in 1957-58 was Rs. 15,15,362.

The number of persons holding current pilot's 'A' licence increased from 715 at the end of June 1957 to 1,023 at the end of November 1958. There was, however, a slight decrease in the number of 'B' Pilots holding current licence from 506 at the end of June 1957 to 555 at the end of November 1958. The number of Aircraft Maintenance Engineers holding Indian Licences increased from 953 in Dec. 1957 to 1,011 in June 1958.

The Civil Aviation Training Centre at Allahabad opened in 1948 trains commercial pilots, aircraft maintenance engineers, aerodrome control officers and operators, fire operators, radio operators and technicians.

The Centre comprises the following four wings, viz. :—

(1) Flying School; (2) Aerodrome Training School; (3) Engineering School; (4) Communications School.

In addition a Repair and Overhaul Organisation is also attached to the Centre for carrying out repairs and overhaul of the Centre's aircraft.

At the Civil Aviation Training Centre, Allahabad 16 persons were trained for Commercial pilots' course and 16 were given Conversion course on Dakota aircraft. One person completed the Navigators' course in the Flying School. At the Aerodrome School 22 Assistant Aerodrome Officers, 41 Aerodrome Operators and 57 Fire Service Personnel underwent Refresher Course. At the Communication School, 43 trainees completed Radio Operators Advanced Refresher Course, 55 Radio Technicians Advanced Refresher Course and 62 persons Special VOR, and RTT-I Courses. One Ceylonese national completed his training in Specialist Course ILS, VOR/AD.

At the end of November 1958, there were 177 trainees undergoing training in different courses. This number includes two Nepalese nationals, four Singapore nationals, one Philippine national, one Ceylonese and two Afghan nationals undergoing training in various courses.

I.A.C. has a Central Training Establishment at Hyderabad.

The Government of India have set up a school of aviation medicine in the premises of the Hindustan Aircraft Ltd., Bangalore.

TELECOMMUNICATIONS

The aeronautical telecommunications service of the Civil Aviation Department came into existence in 1946.

For purposes of organisation, India has been divided into four regions (Bombay, Calcutta, Delhi, Madras), each under the charge of a Controller of Communication, who is responsible to the Director of Communication for the maintenance and operation of the aeronautical communication stations in his region.

The aeronautical communication organisation has the following ancillary units as central establishments in Delhi :—

The Radio Construction and Development Units; The Central Radio Stores Depot.

Each of these is under the charge of a Controller.

The Service includes: (i) Radio Aids to Navigation to provide en-route navigational guidance to the aircraft in flight; (ii) Radio Aids to Approach & Landing to ensure safe approach to an aerodrome and landing of the aircraft particularly under bad weather and poor visibility conditions; (iii) Air Ground Communication to provide communication facilities between ground stations and aircraft in flight. (iv) Fixed Communication Service for exchange of aircraft operational messages between the aerodromes; (v) Meteorological Information Service to disseminate latest weather reports from the meteorological observations and forecasts.

The facilities include up-to-date electronic aids, such as very high frequency automatic visual direction finder, very high frequency omni-directional radio range (VOR), standard instrument landing system (ILS), aerodrome control radar (A.C.R.), radar responder equipment of the Eureka Mark VII type, long range high frequency radiotelephone air/ground channels, radio-teletypewriter fixed telecommunication circuits and multi-channel automatic speech recorders.

At the end of 1958 there were 76 aero-nautical communication stations providing a total number of 614 navigational aids and communication facilities.

The new transmitting station for Calcutta Airport situated at Garui village, three miles west of the Airport, was formally inaugurated on January 12, 1958.

The non-directional radio beacon at Port Blair was brought into continuous operation to meet the operational requirements of international flights on Bombay-Bangkok and Colombo-Bangkok sectors.

Surface movement control on VHF radiotelephony was introduced at Bombay, Calcutta, Delhi, Gauhati, Madras and Nagpur. Additional facility for Aerodrome Control on VHF Radiotelephony was provided at Kalaasalar, Rupsi and Chandigarh. Aerodrome Control HF R/T was provided at Udaipur. Tezpur was provided with Inter-Tower HF R/T facility. En-route communication on VHF radiotelephony was introduced at Calcutta, Patna, Lucknow and Delhi (Safdarjung).

Very High Frequency Omni Range (VOR), a most up-to-date navigational aid and the first of its kind to be installed in India was introduced for regular operation at Bombay. Z Marker beacon was installed and brought into regular operation at the Radio Range site at Calcutta. Automatic Visual VHF direction finding system, type AD-200 was installed at Amritsar.

To improve air/ground communication on radiotelephony under the prevailing propagation conditions, aeromobile frequencies on the domestic routes were reorganised.

RESEARCH

Research and development for civil aviation is undertaken by The Research and Development Organization of the Civil Aviation Department.

The work of the R & D Organization is in New Delhi at a research and test laboratory, known as the Technical Centre, opened in 1949. The Centre is being staffed and equipped in gradual stages in order to realize the objectives of the Organization.

The principal objectives of the Research and Development Organization are as follows :—

1. Participation in design and development work on gliders, sailplanes and light trainer aircraft.
2. Operational research with particular reference to Indian conditions and the development of safety devices.
3. Research on problems of airworthiness and safety in operations; examination of prototype civil aircraft for airworthiness and for their type certification.
4. Structural testing and research relating to major modifications, repair and construction of aircraft.
5. Development of aircraft materials of indigenous origin; preparation of standard specifications for these materials in co-operation with the Indian Standards Institution.
6. Study of current developments in aviation technology with special reference to new types of civil aircraft and engines and new operational techniques.
7. Encouragement and promotion of fundamental research and advanced scientific and engineering training in aeronautics, and advice on advanced education in aeronautical engineering.
8. Co-operation with international scientific bodies, in initiating research on various aeronautical subjects.

The need for aircraft manufacturing was keenly felt immediately on the outbreak of the war and the Hindustan Aircraft Company was established in the year 1940. Aircraft, aeromaterials, accessories and parts are now being manufactured in the country.

India is a member of the International Civil Aviation Organisation and has been elected to its Council.

AIR AGREEMENTS

India has entered into bilateral air agreements with the following 17 countries on the dates shown against each :—

France	10-7-1947
Sweden	21-5-1948
Pakistan	23-6-1948
Ceylon	21-12-1948

Switzerland	24-6-1949
Australia	11-7-1949
The Philippines	20-10-1949
Netherlands	24-5-1951
U.K.	1-12-1951
Afghanistan	20-1-1952
Egypt	14-6-1952
Iraq	27-7-1955
Japan	28-11-1955
U.S.A.	8-2-1956
Thailand	12-6-1956
Lebanon	13-3-1958
Russia	2-6-1958

Airlines of the following countries operate air services to and/or across India under temporary authorisation granted by the Govt. of India :—

Norway, Denmark, Sweden (jointly under one authorisation), Burma; Lebanon (Pending Ratification of Agreement).

Indian Airlines operate to and/or across the following countries under temporary authorisation :—

Burma, Nepal, Czechoslovakia, Lebanon, Syria, Italy, West Germany, Indonesia.

1958—A REVIEW

As many as 783,000 passengers and over 180 million lb. of cargo were carried by scheduled and non-scheduled air transport services in the country in 1958.

The scheduled air transport services flew 24,086,000 miles in 1958. The number of passengers and freight carried increased from 615,321 and 85,691,035 lb. respectively in 1957 to 683,000 passengers and 98,494,000 lb. of freight in 1958. The mail carried by scheduled services also showed an increase over the previous year.

During 1958, nearly 30,000 hours and 4,877,000 miles were flown on non-scheduled operations against the previous year's figure of 32,832 hours and 5,457,882 miles. The number of passengers and cargo carried were approximately 100,000 passengers and 82,527,000 lb. respectively against 126,459 passengers and 88,703,088 lb. of cargo the previous year.

During 1958 the Night Air Mail Services carried about 48,000 passengers, 2,986,000 lbs. of cargo and 4,018,000 lbs. of mail.

Air-India International alone flew on its scheduled services 3,180,347 miles carrying 37,831 passengers, 1,567,527 lbs. of cargo and 780,932 lbs. of mail during the first half of 1958, as against 3,380,185 miles flown, 44,975 passengers and 1,613,383 lbs. of cargo and 728,535 lbs. of mail carried during the preceding six months.

During the period under review, Indian Airlines Corporation flew 8,751,305 miles, carrying 316,473 passengers, 47,858,085 lbs. of cargo and 5,703,862 lbs. of mail. The respective figures for the preceding six months were 8,527,964 miles, 261,208 passengers, 41,691,648 lbs. of cargo and 5,471,189 lbs. of mail.

Passenger fares on I.A.C. were revised with effect from 15th June, 1958.

The introduction by Air-India International of a weekly scheduled service in each direction between Delhi and Moscow via Tashkent was an important development in the field of international air transport services.

A scheduled weekly cargo service between India and the U.K. was introduced.

A scheduled halt at Jakarta was provided on the service operated between Bombay and Sydney and the frequency of the Bombay-Tokyo service was increased from two to three times a week.

Air agreements were signed with the Lebanon and U.S.S.R.

The fleet of the I.A.C. was supplemented by the addition of five more Viscount aircraft. Air-India International received two more Super Constellations.

The three Boeing 707 jet aircraft, which have been ordered, are expected to be delivered in the first quarter of 1960.

The first proto-type of the two-seater Glider Model TS-2 designed and constructed at the Technical Centre of the Civil Aviation Department was test-flown.

Two newly-constructed aerodromes at Udaipur and Malda were opened to air traffic. The construction of aerodromes at Kandla* and Haldwani

was nearing completion, and work was in progress on the construction of aerodromes at Joghani, Raxaul, Behala and Tullihal. The new terminal building at Bombay (Santa Cruz) airport was opened to traffic.

Schemes have been sanctioned for the development of the three international airports at Bombay, Delhi and Calcutta to make them fit for Boeing jet operations.

The Central Training Establishment of I.A.C. came into being at Hyderabad on 10th Oct. 1958.

Government have decided to put the I.A.C. on a better financial footing by waiving interest on Government loans till 1966, write off net cash loss of Rs. 2.23 crores, grant subsidy rather than loan in future.

During the period 1st January to 17th December 1958, there were 30 major accidents in India involving 23 Indian registered aircraft, 2 foreign registered aircraft and 5 gliders in addition to 5 accidents to Indian registered aircraft in Nepal and one in East Pakistan. Eight of these accidents were fatal resulting in the death of 60 persons, including 23 crew, 35 passengers and 2 passengers-by.

Three of the accidents to Indian registered aircraft related to aircraft engaged on scheduled passenger service, one to aircraft on scheduled freighter service, eight to aircraft on non-scheduled passenger and freighter services, nineteen to aircraft engaged on instructional flights and three to aircraft engaged on private and miscellaneous flights.

ENQUIRY COMMITTEE

The report of the Committee appointed by the Government of India to examine the cost structure and efficiency of the Indian Airlines Corporation was laid on the table of the Lok Sabha on March 23, 1959.

The Committee was headed by Mr. Stephen Wheatcroft, an aviation expert from the United Kingdom. Besides Mr. Wheatcroft, the Committee consisted of three members, namely, Mr. C. J. Lalaka, who was formerly the Chief Engineer of Bharat Airways, Mr. P. K. Sen, Director of Commercial Audit, and Mr. K. R. Kuppuswami of the Ministry of Finance.

The report is under examination by the Government of India (March 1959).

The overall picture of the Indian Airlines Corporation which has emerged from the Committee's survey of the Corporation's work is that of an airline which operates a generally efficient network of air services. The Committee have expressed the view that the general standards of I.A.C. operations and the 'quality' of the transport offered to the public are very good, particularly when the low average level of fares is borne in mind and that the I.A.C. provides a very satisfactory system of domestic air services in India.

The Committee have commented on the general lack of cost-consciousness in the organisation, inadequate budgetary planning and deficiency in the system of controlling budgeted expenditure.

The Committee have also drawn attention to the existence of surplus labour force in the Corporation, and have proposed that it should place a total prohibition on new recruitment until this surplus has been absorbed. The Committee have commented that the employees' unions appear to have forgotten that the staff of a public Corporation have a responsibility towards consumers as well as to looking after their own rewards and conditions of work, and have added that unless the workers can be persuaded to recognise the need for great improvement in the present level of productivity, there is not much hope that major reductions can be made in the level of operating cost.

The Committee have advocated that I.A.C. should be directly subsidized for the operation of any routes on which there is no prospect that revenues will cover standard costs of operation.

The Committee have analysed the cost of operation of the three main types of aircraft in the fleet of the I.A.C., viz. the Dakota, the Skymaster and the Viscount. The overall effect of the recommendations is to produce a standard cost level for direct operating costs of the Dakota which is 15 per cent lower than the I.A.C. level in 1957-58. In respect of the Skymaster operations the effect of the recommendations is to produce a standard cost level which is 3 per cent higher than the level achieved by the I.A.C. in 1957-58, but is 9 per cent lower than that which the I.A.C. have estimated for 1959-60.

The Committee have recorded their admiration for the efficiency of the I.A.C. Viscount operations and have stated that in the operations of the Viscount, in the utilization achieved, in the work of maintenance and overhaul and in the general level of operating cost, the I.A.C. compares favourably with Viscount operators in other parts of the world.

The Committee have stated that in their recommendations on the standard costs of operation they have assumed a higher level of efficiency in some phases of I.A.C. operations than it is reasonable to expect the Corporation to achieve for some years. Taking into account likely increase in traffic, the Committee have suggested that the I.A.C. should be expected to achieve the standard cost level by 1962-63.

The Committee are inclined to take an optimistic view of the future financial prospects of the Corporation, for, although the deficit is over Rs 1 crore, the difference between revenue and expenditure is only 10 per cent. In the opinion of the Committee, a substantial increase in the revenue can be forecast with the operation of Viscounts on the trunk routes; and profitable operations are also possible on the Night Air Mail Services.

If the standard cost for Dakota operations recommended by the Committee are achieved and if a realistic assessment is made of the deficits which are incurred by the I.A.C. in the operations of non-commercial services, and revenues subventions are paid to the Corporation for these routes, then it should be possible for the deficit in the I.A.C. to be entirely eliminated within the next few years.

* Was opened in March 1959.

PORTS

ALLOTMENT under First Five-Year Plan : major ports: Rs. 25.70 crores; minor: Rs. 2.41 crores.

Allotment under the Second Plan : major ports: Rs. 37.6 crores; minor ports: Rs. 5.00 crores.

There are six major ports in India, 18 intermediate ports, 116 minor ports and 43 sub-ports.

Technically a major port is one which is capable of taking in ocean-going steamers with a registered tonnage of 4,000 or more and berth them along wharves.

The six major ports are :

Bombay, Calcutta, Cochin, Kandla, Madras and Vishakapatnam.

The intermediate ports, the Minor ports and the sub-ports are distributed as follows State-wise :

MYSORE : There are two intermediate ports (Karwar and Mangalore), 20 minor ports and 13 sub-ports.

MADRAS : There are three intermediate ports (Cuddalore, Nagapattinam and Tuticorin), three minor ports and 14 sub-ports.

BOMBAY : BOMBAY REGION: There are three intermediate ports (Broach, Ratnagiri and Okha), 67 minor ports and four sub-ports.

Saurashtra and Kutch Region : There are six intermediate ports (Mandvi, Navlakhi, Bedi, Porbandar, Veraval and Bhavnagar), 11 minor ports and ten sub-ports.

Kerala : There are two intermediate ports (Alleppey and Kozhikode), eight minor ports and two sub-ports.

ORISSA : There are two minor ports.

ANDHRA PRADESH : There are two intermediate ports (Masulipatnam and Kakinada) and five minor ports.

The three ports of Bombay, Calcutta and Madras are administered by Port Trusts which are statutory bodies set up by the Bombay Port Trust Act 1879, the Calcutta Port Trust Act 1890, and the Madras Port Trust Act 1905.

Cochin, Kandla and Vishakapatnam are administered directly by the Central Government.

The intermediate, minor and sub-ports are administered by State Governments.

A National Harbour Board exists to advise the Government on matters of general policy. On the Board are represented the Central Ministries concerned, the Planning Commission, the maritime State Governments, Major Port Authorities, representatives of certain trades and industry and of labour.

There is also an Intermediate Port Development Committee for the selection of suitable intermediate ports for intensive development.

This Committee was to submit its recommendations before July 1959.

SECOND FIVE-YEAR PLAN

The Second Plan comprises, among others, the following works :—

Calcutta : A new general cargo berth at King George's Dock; A new tea warehouse; A new bucket dredger, 100 ton floating crane, salvage tug and dispatch vessel and other floating craft totalling Rs. 4.8 crores; Remodelling of the Port Commissioners' Railway.

Bombay : Provision of 54 more electric cranes in Alexandra Dock; A new grab dredger; Dredging of the main harbour channel; A new 125 ton floating crane.

Madras : A new wet dock for 6 berths; A new dredger; Mechanical handling of coal and ore.

Vishakapatnam : 2 new berths (later revised to 5)—3 for general cargo and 2 for ores.

Kandla : 2 additional berths for ore traffic. A new township called the Gandhidham township is also being developed just behind the port.

Cochin : 1 floating crane; 1 dredger.

The total estimated cost of the development works in the Second Plan was Rs. 79.9 crores, of which central assistance will be restricted to Rs. 43.5 crores. Rising costs and certain alterations and additions which have been found necessary will increase the total cost of the schemes to Rs. 95 crores.

The more important schemes already completed or nearing completion are the construction of four berths and allied works at Kandla, the Marine Oil Terminals at Bombay and Vishakapatnam, reconstruction of 12 transit sheds in Bombay, installation of 34 electric wharf cranes in Alexandra Docks, Bombay, an oil tanker berth with pipeline connections in Cochin and the erection of a coal loading plant and construction of a heavy lift yard with a 200 ton crane in Calcutta.

A proposal under consideration is the construction of a subsidiary port near Calcutta.

The services of Mr. F. Posthuma, Deputy Director of the Rotterdam Port, have been obtained by the Government of India through the United Nations to make a preliminary study regarding the selection of a suitable site.

Among the sites favoured for the purpose is Haldia, about 75 miles from Calcutta, and the other nearer the sea.

The main object of the construction of a new port is to accommodate bigger ships than can navigate the Hooghly up to Calcutta, thereby relieving congestion at Calcutta port.

The intention of the Government of India, at present, appears to be to shift the export of coal and ore from Calcutta to the proposed subsidiary port. According to a rough estimate, eight berths will thus be released at Calcutta which might be utilised for other cargo and passenger ships.

For the development of non-major ports there is a provision of Rs. 5 crores.

Included in this provision are the amounts required for the establishment of a Dredger-cum-Survey Launch Pool for dredging the outer harbours, and carrying out hydrographic surveys before and after dredging; for adding a third survey ship to the Marine Survey Wing of the Ministry of Defence, exclusively for hydrographic surveys of minor ports; for meeting the expenditure on preliminary investigations connected with the development of the minor ports of Tuticorin, Pradip, Mangalore, etc.

The construction of a new pier at Pondicherry estimated to cost Rs. 36.75 lakhs has also been undertaken.

1957-58—A Review

Port operation and development were the subject of study by two expert missions from abroad. One was a mission deputed by the U.K. Government under the Colombo Plan in October, 1957, to visit the major ports of Calcutta, Bombay, Vishakapatnam and Madras and advise on cargo handling and other port operational problems.

Their reports on the subject included suggestions regarding the speeding up of movement of cargoes from and to the ports by the provision of suitable railway wagons, streamlining of customs formalities, imposition of panel rates of demurrage on consignees for delay in the removal of cargoes, provision of more mechanical aids, improvement in the maintenance of equipment of all kinds and taking a more co-ordinated view of traffic requirements in the planning of berths and other physical facilities.

The Mission, however, urged caution in the matter of introducing large-scale mechanisation before ensuring the co-operation of labour.

About the second mission, this was an export team sent by the World Bank and led by Mr. Posthuma, the Chief Engineer of the Rotterdam Port Authority. The object of this deputation was to make an on-the-spot study of the development projects of the ports of Calcutta, Madras, Vishakapatnam and Bombay. This was in connection with the application by India to the Bank for a loan to cover the foreign exchange component of the expenditure estimated at Rs. 40 crores in respect of the development schemes of these ports.

Agreements were executed on June 25, 1958, between the Bank and the two port authorities of Calcutta and Madras. The loans were for an amount of 29 million and 14 million dollars in various foreign currencies to the two port authorities of Calcutta and Madras, respectively.

The provision of facilities for stepping up ore exports through Vishakapatnam port will be covered by an aid of Rs. 2 crores from the U.S. President's Asian Development Fund.

As regards Bombay, the main outlay is on two large schemes—dredging of the main harbour channel and the modernisation of the Prince's and Victoria docks. In the opinion of the World Bank Mission, these schemes were not ripe enough for the consideration of a loan from the Bank. The trustees are now to formulate and finalise their schemes for presentation to the Bank.

Foreign assistance to the extent of five million dollars for the purchase of two suction dredgers for Bombay port and three dredgers for catering to the dredging requirements of the new major port of Kandla and of a selected number of minor ports has been secured.

The first stage in the development of Kandla port comprising the construction of four cargo berths and allied facilities is practically over, and the construction of two additional berths for facilitating the export of the new-found ore from Rajasthan is now taken up.

About minor ports, to deal with the problem of siltation it has been decided to constitute a dredger-cum-survey launch pool consisting of three dredgers, a fleet of survey launches and other equipment estimated to cost over Rs. 2 crores.

Each of the dredger units will be based at the ports of Kandla, Bombay and Vishakapatnam and will be employed for undertaking dredging work at Kandla and at selected intermediate ports—18 in number.

To cater to the requirements of additional ore export traffic and thus earn valuable foreign exchange, a few of the minor ports are being developed to the requisite standard.

When the works contemplated are executed, the port capacity can be expected to rise to the order of about 40 million tons in the aggregate. The port capacity would then be adequate to meet the country's expanding needs.

There was an all-India strike of port and dock workers in 1958. The strike began at all the major ports other than Kandla at midnight between June 15 and 16, 1958, while at Kandla the workers joined the strike on June 23.

There was only a token strike lasting three days at the port of Cochin and that port started functioning normally from the morning of 19th.

At the other major ports, normal work was resumed only on 27th June. Fortunately, the ports were able to clear the congestion within two days of the resumption of the work by the strikers.

Following the settlement of the strike, the recommendations contained in the report of the Officer on Special Duty, Mr. Chaudhuri, were discussed with the representatives of the Federations of Port and Dock workers from 14th to 20th July, 1958, and Government decisions on the important recommendations contained in it were published in their Resolution of July 20, 1958.

LIGHTHOUSES

Lighthouses are divided into general and local according to the utility of a particular lighthouse to navigation. The superintendence and management of general lighthouses is vested in the Union Government while the local lighthouses are managed by local lighthouse authorities such as State Governments, Port Trusts, etc.

A statutory body—the Central Advisory Committee for Lighthouses has been appointed under the Indian Lighthouses Act, which advises the Union Government on matters connected with the erection, additions, alterations, improvements etc. of lighthouses. The Chairman of the Committee is the Secretary to the Government of India, Ministry of Transport and Communications, or the officer deputed by him to act as Chairman on his behalf. The members are: The Director-General of Shipping, Bombay (*ex-officio*); Nautical Adviser to the Government of India (*ex-officio*); A representative of the Ministry of Finance, Government of India; A Deputy Secretary to the Government of India, Ministry of Transport and Communications (*ex-officio*); G. T. Kamdar, representative of the Federation of Indian Chambers of Commerce and Industry; J. E. Galloway, representative of Associated Chambers of Commerce; T. M. Goculdas, nominated by Government to represent Indian Shipping interests; B. P. Singh Roy, representative of Indian National Steamship Owners' Association; Jaidu Manikyal Rao, Government nominee representing Indian Sailing Vessels' interest; Director-General of Lighthouses and Lightships, New Delhi (*ex-officio*), Member Secretary.

There are 183 lighthouses, 9 lightvessels, 101 lightbuoys, 282 unlighted buoys, 190 beacons, 299 land marks and 713 other marks, making a total of 1,777 aids to navigation strewn over the coastline of approximately 4,340 miles including Andaman Island. 59 new lighthouses and other aids to navigation have been established so far. The Second Five-Year Plan envisages the improvement of aids to navigation at an estimated cost of Rs. 400 lakhs. A summary of the programme under the Second Five-Year Plan is given below:—Construction of lighthouses, towers, buildings and jetties, 100 nos.; Purchase and installation of optical equipment apparatus and machinery, 100 nos.; Establishment of M.F. and V.H.F. Radio Station, 15 nos.; Establishment of Deccan Navigator Stations, 8 nos.; Purchase and installation of harbour and ship borne Radars, 15 nos.; Installation of sound signals, 50 nos.; Purchase and installation of electric power generator equipment and machinery, 75 nos.; Purchase and establishment of lightships, 10 nos.; Purchase of ships, tenders, lifeboats, motor launches, etc., 35 nos.; Purchase and establishment of buoys and other floating aids, 150 nos.

During the year 1957-58, new lights were exhibited at 2 lightstations viz. Protan Island (Bombay State) and False Point (Orissa State). A new lighthouse tower has been built on the Protan Island in the Gulf of Kutch and a new optical equipment installed, which has a beam intensity of 4,95,000 candelas. This provides a range of 14 miles in adverse weather. This light started functioning from 5th February 1958.

The new optical equipment at False Point is electrically operated, the power for the light being supplied by generators installed at the station. The beam intensity of this light is 1.4 million candelas and ensures a range of 17 miles in misty weather. This light started functioning from 31st May 1958.

8 buoys were laid in Vizag Harbour and the installation of the lighting equipment on these buoys is in progress. A new M. F. Radio beacon has been installed at False Point (Orissa State).

A new lighthouse tower has been constructed at Korlai Fort (Bombay State) and the lighting equipment installed thereon. The work of the improvement of the Gogha lighthouse (Bombay State) has been completed and the new optical equipment installed.

The works of installation of a Harbour Radar at Kandla; Radio Beacons at Diu Head, Khan-

deri Island and Okha (Bombay State) and Dolphin's Nose (Andhra Pradesh); light-bouy at Sultanpur Shoal (Bombay State); new optical equipment at Uttan Point (Bombay State) and Alleppey (Kerala); Radar sets at Khandari Island (Bombay State) and Sugar Island (West Bengal State) and Fog Signal and Auxiliary Red light at Bhatkal (Bombay State) are in progress.

The Central Advisory Committee for Lighthouses which met at Bombay in October 1958 approved of a proposal to construct a lighthouse at Lushington Shoals off Port Okha in Bombay State at an estimated cost of Rs. 80 lakhs. The proposed lighthouse with a beam intensity of 10 million candelas will have a range of 17 miles in misty weather and a fog signal with a range of 10 miles.

The committee, which was presided over by Shri E. L. Gupta, Secretary, Department of Transport, Government of India, also approved of a number of works providing navigational aids to shipping at a cost of Rs. 2½ crores.

Important works, besides the proposed lighthouse at Lushington Shoal, are a lighthouse at Androth Island in Laocedives, the Minicoy lighthouse, construction of a lighthouse at the mouth of river Hooghly and a new lighthouse at Chandrabhaga in Orissa.

Improvements to Shortt Island lighthouse in Orissa are estimated to cost Rs. 14-35 lakhs.

Some of the new and important lighthouses, the construction of which is now in progress are those at Tolleshwar, Rajapur Bay, Tarapore, Tapli, Dwarka, Navinal and Chachhi in Bombay State, and Kollthottam in Kerala State.

The Department of Lighthouses & Lightships is maintained on a self-supporting basis and its revenue is derived from the light dues levied on ships visiting Indian ports. The entire revenue is utilized for the maintenance and development of lighthouses and any balance left is accumulated in a reserve fund known as the General Reserve Fund for financing the projects in future. The balance in the General Reserve Fund stood at Rs. 103 lakhs on 1st April 1958. The present rate of lightdues is four annas per ton on steamships and one anna per ton on sailing ships.

This Department is also responsible for the administration of the Fairways Act.

It is proposed to electrify the lighthouses at Manapad, Mahabalipuram and Muttam Point (Madras State). The electrification will result in an increasing the beam intensity by over three times.

BOMBAY

The Port of Bombay is over 20 square miles in extent.

The Bombay Port Trust, which was constituted by Government in 1873, is administered by a Chairman appointed by Government and a Board of 24 Trustees, 10 of whom are nominated by Government, 2 elected by the Bombay Chamber of Commerce, 6 by the Indian Merchants' Chamber, 1 by the Maharashtra Chamber of Commerce, 2 by the Municipal Corporation, 1 by the Millowners' Association, 1 by the Indian National Steamship Owners' Association, Bombay, and 1 by the East India Cotton Association Limited, Bombay.

The entire administration is subject to the provisions of the Bombay Port Trust Act, 1879.

The main channel, which is approximately 1½ miles in width, has silted recently and the controlling depth is now 28 feet.

Anchorage in the harbour with a depth of upto 34 feet below chart datum can be obtained. Mean range at springs is 12 feet.

Passenger Facilities.—Trans-oceanic passenger traffic is mostly dealt with at the Ballard Pier Station. Coastal and Harbour Passenger traffic is dealt with at the New Ferry Wharf.

The total number of overseas passengers embarking and disembarking at Bombay in 1957-58 was 1,40,844 while the number of passengers carried by the coastal services was 7,08,605.

Wet Docks.—There are three wet docks, the main features of which are as follows:—

Number of Berths (excluding Harbour Walls).

Prince's Dock	..	12
Victoria Dock	..	18
Alexandra Dock	..	17

The three Docks together have a water area of 104½ acres and about 4½ lineal miles of quays; extensive open storage and shed and warehouse accommodation for the reception and storage of goods, exist.

Dry Docks.—The dimensions of the two Dry Docks are as follows:—

Dry Docks	Length—(1) Caisson in Inner Groove, (2) Caisson in Outer Groove.	Width at entrance.	Normal minimum depth of water over sill.
Marweather Dock.	(1) 500'-0" (2) 525'-0"	65'-6" ..	22'-0" ..
Hughes Dock.	1000'-0" (divisible into two compartments of varying lengths)	100'-0"	33'-0"

The Bunders.—Besides the wet docks described above, there are along the harbour front a number of 'bundars' or open wharves and basins where the traffic carried by sailing vessels is handled. These bunders, which provide an aggregate quayage of 41,000 lineal feet, are equipped with cranes and other facilities for loading, unloading and storing cargo. The extensive **TIMBER PONDS** at Sewri, covering an area of over 60 acres, form an important feature of the bunders. The total cargo handled at the bunders amounted to about 6.82 million tons during 1957-58.

Ballard Pier.—Is a 1,500 ft. extension of the harbour wall on the west side of the Alexandra Dock entrance lock and is the arrival and departure berth for the foreign mail steamers and other large passenger liners. The station building comprises three platforms for tourist and other trains, a handsome concourse with waiting and refreshment rooms and a spacious baggage and customs hall.

Bulk Oil Facilities.—Till recently the dangerous petroleum imported at Bombay was all handled at the Pir Panu Oil Berth. Non-dangerous petroleum was also handled at the Alexandra Dock Harbour Wall Berths. With the installation of two Oil refineries at Bombay, these facilities became inadequate and a New Marine Oil Terminal equipped with all modern facilities for the speedy discharge and loading of oil and capable of receiving tankers drawing up to 34'6" has been constructed at Butcher Island within the Bombay Harbour. The new terminal is expected to meet the requirements of the bulk oil trade at this port for many years to come.

The Depots.—The more important depots are: **Grain Depot**, containing over a million square feet of shed accommodation and about 90,000 square feet of plinth area, is designed primarily for the storage of grain and seeds in bags.

Cotton Depot, is one of the largest and most up-to-date Depots of its kind in existence, and covers an area of 432,500 square yards of reclaimed land on which the Port Trust has erected 178 fireproof ferro-concrete godowns equipped with sprinkler protection, 16 open sheds on plinths and 225 open plinths.

It has 16 covered platforms and 4 open plinths for Railway reception and despatch, and a Railway Yard with 8 miles of track. There are within the Depot a Fire Brigade Salvage Corps Station, Dispensary, Canteen, Grain Shop and other facilities for the Trade.

Manganese Ore Depot, provides open storage accommodation of about 70,000 sq. yds. in 32 plots each fully equipped with Railway Sidings. The Depot has a weighbridge.

There are also special depots for coal, charcoal, iron, timber and other building materials, etc. several of which not only have railway facilities but also wharf fronts.

In addition, there are several large warehouses and godowns in the vicinity of the docks available for renting out for storage of grain, tobacco and other trade purposes, the largest of these godowns is the **RYAN GRAIN MARKET** providing storage accommodation of 225,000 sq. feet.

Port Trust Railway

The Port maintains its own railway system which handles more than 59 per cent of the railborne goods traffic of Bombay. The traffic to and from the trunk railways during the year 1957-58 amounted to 4,055,000 tons, and its local station-to-station traffic is about 5,71,800 tons. The principal commodities carried are cotton, grain and seeds, oil-cake, manganese ore, sugar, kerosene and other bulk oils, coal, charcoal and china clay.

Though only 7.755 miles in actual length, it comprises over 134 miles of main lines and sidings all directly linked with the inter-railway exchange yard at Wadala, the various storage depots and the docks and wharves.

REVENUE AND EXPENDITURE FOR THE YEAR 1957-58

Revenue .. Rs. 12,32,51,024	} Total of general and pilotage accounts only.
Expenditure 9,10,28,309	

* Is likely to leave (April 1959).

Statistics showing the number of vessels (exclusive of ferry steamers) which entered the docks and went alongside Harbour Walls or Pir Pau Oil Pier during the period 1952-53 to 1957-58 are given in the table below :

Year	Number	Net registered Tonnage
1952-53 ..	2,561	8,446,538
1953-54 ..	2,663	8,720,375
1954-55 ..	2,534	8,875,811
1955-56 ..	2,528	9,342,179
1956-57 ..	2,667	9,556,633
1957-58 ..	2,906	11,120,606

The number of passengers excluding those handled by country craft and harbour ferries was 849,449.

As on December 31, 1957, the Bombay Port Trust provided houses for 3,913 employees, i.e. 17.10 per cent of its total staff (excluding docks casual mazdoors).

Nine welfare centres were conducted by the Labour Department at Port Trust residential settlements for workmen. Reading rooms were provided at seven places where periodicals were made available. Clinics for women and children were conducted at Antop village and Wadala.

The expenditure out of the Employees Welfare Fund to which an annual contribution of Rs. 30,000 is made from revenue, aggregated to Rs. 62,554 during 1957-58 as against Rs. 55,068 during 1956-57.

Board of Trustees (1957-58)

Nominated by Government : Chairman, I. T. Ghulap, I.C.S.* Kumar Pravinlalji, I.P., M. G. Abrol, B. Arora, M. M. Khan, V. L. Gidwani,

I.C.S., Brig. Kamta Prasad, M.C., Rear Admiral B. S. Noman, I.N., S. V. Kailaspathy, H. N. Trivedi, G. H. Kale.

Elected by the Bombay Chamber of Commerce : S. M. Scott ; E. A. Jenkins.

Elected by the Indian Merchants' Chamber, Bombay : B. D. Somani, Devji Rattansey, Ambalal Kilachand, Gordhandas Jadavji, Mathradas Haridas, C. H. Bhabha.

Elected by the East India Cotton Association Ltd., Bombay : Madanmohan R. Rula.

Elected by the Indian National Steamship Owners' Association, Bombay : H. M. Desai.

Elected by the Maharashtra Chamber of Commerce, Bombay : K. V. Apte.

Elected by the Municipal Corporation of Greater Bombay : Dr. S. G. Patel, R. S. Pandey.

Elected by the Millowners' Association, Bombay : A. N. Mafatlal.

PRINCIPAL OFFICERS

General Manager, T. S. Parasuraman.

Secretary, E. H. Simoes.

Chief Accountant, I. B. Das Gupta.

Chief Engineer, S. B. Dalal.

Deputy Chief Engineer, K. G. Sarma.

Docks Manager, V. Van.

Addl. Docks Manager, A. M. Shaikh.

Railway Manager, J. N. Adagga.

Deputy Conservator, W. E. Brown.

Harbour Master, J. H. S. Stewart.

Estate Manager, N. D. Baria.

Controller of Stores, P. V. Thadani.

Chief Medical Officer, Dr. N. V. Nene.

Chief Labour Officer, Batuk H. Mehta.

Legal Adviser, S. D. Nariman.

STATISTICS SHOWING CARGO HANDLED AT THE DOCKS AND BUNDERS DURING THE PERIOD 1952-53 to 1957-58

Year										Imports	Exports	Total
										Tons	Tons	Tons
1952-53 .. .. .	..	..	..	..	..	..	..	..	..	4,965,000	1,943,000	6,638,000
1953-54 .. .. .	..	..	..	..	..	..	..	..	..	4,775,000	1,951,000	6,727,000
1954-55 .. .. .	..	..	..	..	..	..	..	..	..	5,630,000	1,954,000	7,584,000
1955-56 .. .. .	..	..	..	..	..	..	..	..	..	6,707,000	3,599,000	10,306,000
1956-57 .. .. .	..	..	..	..	..	..	..	..	..	8,239,000	3,740,000	11,979,000
1957-58 .. .. .	..	..	..	..	..	..	..	..	..	9,302,000	3,808,000	13,110,000
1958-59 (revised estimates) .. .. .	..	..	..	..	..	..	..	..	..	7.8 mln.	3.3 mln.	11.1 mln.

CALCUTTA

The Port of Calcutta is situated on the left bank of the River Hooghly which is formed by the uniting of the three off-takes from the parent river Ganges. The port is about 80 miles from the mouth of the river and 121 miles from the Western Channel Light Vessel at Sandheads. The Port is administered by a Port Commission

with jurisdiction under the Calcutta Port Act from Budge Budge to Konnagar.

The chief exports from Calcutta are coal, tea, carpets, gunnies, bone and bone-meal, skins, hemp, iron and steel manufactures, lac oil other than petroleum, scrap, ores, hides and mica. The principal imports are salt, foodgrains, machinery, petroleum, petroleum products, iron,

and steel, metals other than iron and steel, lubricating oil, cement, rubber, chemical products, soda, timber, tobacco, paint, varnish, fertilisers.

Revised income and expenditure for 1958-59 : Rs. 12.83 crores and Rs. 12.30 crores. Budget for 1959-60 : Income Rs. 12.23 crores ; Expenditure Rs. 12.40 crores.

STATISTICS SHOWING CARGO HANDLED BY CALCUTTA, THE NUMBER OF PASSENGERS EMBARKED AND DISEMBARKED AND THE RECEIPTS AND EXPENDITURE, DURING THE PERIOD 1953-54 to 1956-57 :

Year	Imports Tonnage	Exports Tonnage	Total Tonnage	Passengers Embarked	Passengers Disembarked	Revenue Income Rs. in lakhs	Expenditure Rs. in lakhs
1953-54	2,723,062	5,336,037	8,059,099	15,710	16,299	818	900
1954-55	3,240,436	4,573,377	7,813,813	11,854	11,673	883	921
1955-56	3,409,062	4,621,673	8,030,735	18,523	18,638	997	934
1956-57	4,352,958	4,516,252	8,869,210	17,554	15,437	1,047	960
1957-58	5,515,768	4,640,579	10,156,347	14,467	17,276	1,276	1,120

The number of vessels that entered the port during the year was 1,593 (1957-58).

The largest vessel to enter the Port was 16,735 tons gross tonnage but speaking generally the ideal ship for the Port is a ship of under 550 feet in length, broad in beam and loading to a maximum of about 26 feet.

Berths and Anchorages.—Anchorages are available at Saugor Roads, Haldia, Kalpi Diamond Harbour, Royapur, Ulubaria, Buj Buj and Garden Reach of which Royapur, Ulubaria, Buj Buj and Garden Reach are available only for deep laden vessels outward bound or in emergency. The other anchorages are used by ships on passage to and from the Port.

In the port ships lie to moorings when in the stream or alongside jetties with cables forward and aft. The largest man-of-war so far accepted in the Port has been 10,000 tons cruiser class and one berth is available for this class of ship.

Accommodation (Kidderpore Docks).—These consist of Nos. 1 and 2 Docks and Turning Basin. Dock No. 1 is 2,700 feet in length by 600 feet wide, with a depth of 30 feet of water and has twelve berths serving single-storey cargo sheds. Dock No. 2 has a length of 4,500 feet by 400 feet and also provides a depth of 30 feet of water. It has eight general berths serving single and double storeyed sheds and six coal berths including three mechanical loading berths.

King George's Dock.—This Dock comprises a lock entrance 700 feet long by 90 feet wide, four general cargo berths, a heavy-lift yard with one 200-ton crane, and a semi-mechanical ore berth and an oil berth. Provision has been made in the Second Five Year plan for the construction of three additional general cargo berths at B, D, and F berths and a laying up berth.

Dry Docks.—Five dry docks, owned by the Port Commissioners, are available for the use of shipping, three in Kidderpore Docks and two in King George's Dock.

Jetties.—The Garden Reach Jetties consist of a coaling jetty for ships up to 450 feet in length and three jetties for ships up to 600 feet. One jetty which was burnt down by fire in 1951 is being restored with the provision of a single storied shed. The transit sheds are double storeyed. Calcutta jetties are situated on the riverbanks below Howrah Bridge. There are nine jetties with a total length of 4,735 feet, but only five of them viz. Nos. 2, 3, 7, 8 and 9 are available for ocean-going steamers.

Wharves.—Petroleum Wharves at Budge Budge are situated some 14 miles below the entrances to the docks.

Warehouses.—The Commissioners provide extensive warehouse accommodation consisting of two Tea Warehouses with extension having a storage area of 416,000 sq. ft., a grain and seeds depot at Kantapukur comprising 37 sheds with a storage area of about 1,053,108 sq. ft., two sheds at Jhinjerapal with a storage area of 70,200 sq. ft., A and B Sheds at Kidderpore, and the Fairlie, Clive, Canning and Strand Warehouses situated close to the Calcutta Jetties with a total floor area of about 292,200 sq. ft. Provision has been made for the construction of another six-storeyed warehouse for tea at Lybian Depot with 600,000 sq. ft. of covered accommodation.

Coal.—There are at present six coaling berths at Kidderpore Dock No. 2 and one at Garden Reach Jetty.

Overall Capacity of Port.—Calcutta with the existing facilities has handled a sea-borne traffic of nearly 11 million tons a year without congestion or delay.

The total number of cargo boats licensed in the Port was 4,159 in 1957-58 with a carrying capacity of about 286,844 tons. The total number of passenger boats licensed in 1957-58 was 534 with a carrying capacity of 13,504 passengers.

The Port Trust Railway.—Communication between the various points in the Docks and Jetties including all the Commissioners' warehouses is maintained by the Commissioners' Railway which has 210 miles of permanent way and connects with the two main railway systems serving Calcutta. Goods can therefore be railed from any point on the Commissioners' premises to any part of India.

Commissioners

B. K. Mitra, I.C.S., *Chairman*; A. C. Whitchee, Comdr. B. K. Gupta, B. Gupta, I.C.S., Anand Mohan, Kripal Singh, P. C. Majumdar, M. C. Mehta, B. P. Singh Roy, Rabindra Lal Sinha, B. K. Banerjee, R. H. Mody, B. G. Bangur, N. L. Kanoria, G. D. Longhurst, H. S. Singhanla, P. N. Talukdar, T. C. Basu, B. C. Ghose, B. N. Mondal, M.L.A., Kall Mukherjee, Nepal Bhattacharya, J. M. Parsons.

ADMINISTRATIVE STAFF

Secretary.—P. C. Mitter; *Traffic Manager.*—L. M. Hogan; *Chief Accountant.*—N. R. Iyer; *Chief Engineer.*—T. M. Malkani, B.Sc. (Hons.) (Lond.), M.Inst.C.E., M.I.E. (Ind.), A.C.G.I., D.I.C.; *Controller of Stores.*—S. C. Das; *Chief Mechanical Engineer.*—S. K. Mitra; *Deputy Conservator.*—Comdr. C. J. Mohan, I.N. (Retd.); *Harbour Master.*—H. B. Kelly; *Port Pilotage Officer.*—P. Collinson; *River Surveyor.*—J. A. C. King; *Medical Officer.*—Dr. K. Sundry, M.B.; *River Consulting Engineer and London Agents.*—Messrs. Rendel Palmer & Tritton *Docks Manager.*—A. P. McMahon.

COCHIN

The Port of Cochin, one of the six major ports of India is a natural harbour lying on the direct route to Australia and the Far East from Europe. It is open for deep-water traffic in the worst monsoons and provides a splendid anchorage at all times of the year. Any ship drawing up to 30' draft can enter the port even in the roughest weather.

The Port consists of an extensive area of sheltered navigable backwaters behind an opening, 440 yards wide.

The Cochin Harbour Railway is connected with the Broad Gauge system of the Southern Railway. The construction of the metre gauge railway connecting Cochin with Quilon in the south has been completed and the line thrown open for public traffic. The work in connection with the extension of the metre gauge system to the Cochin Harbour Terminus has been started.

The entrance channel of the harbour is 450 ft. wide and about 4 miles long, buoyed on both sides according to regulations. The activities of the port are mainly centred in Willingdon Island which has been reclaimed from the backwaters by dredged soil from the inner channels.

Inside the harbour there are thirteen stream berths, one coal berth, four wharf berths, one boat train pier Jetty and two tanker berths. Of the thirteen stream berths, one is a swinging berth capable of accommodating vessels up to 650 ft. overall in length and 28 ft. draft. Twelve are fore and aft berths in the Mattancherry channel. The coal berth, wharf berths and the boat train pier jetty are situated on the Willingdon Island facing the Mattancherry channel. The tanker berths are in the Ernakulam channel which provide facilities to discharge oils direct to the shore installations.

The deep water wharf where the four wharf berths are situated is 2,200 ft. long with a reinforced concrete frontage. This can accommodate at a time 4 vessels of 450 ft. in length.

Facilities have been provided at the boat train pier Jetty also for pumping black oil from and to the oil installations on shore and to supply bunkers from the shore installations direct to vessels working at deep water wharf.

The work on the construction of a new deep water wharf on the eastern side of Willingdon Island facing the Ernakulam Channel

to accommodate 4 vessels at a time with transit sheds, warehouses, broad and metre gauge railway sidings, cranes, offices, etc. is making rapid progress. The work on the construction of a second coal berth on the western side of Willingdon Island facing the Mattancherry channel is also progressing.

The principal imports are food grains, mineral oils, coal, cashewnuts, hardware, chemicals and manure.

The principal exports are coir and coir products, tea, rubber, cashew kernels, coconuts, spices and ores.

Statistics showing the growth of the Port from 1953-54 to 1957-58.

Year	Imports	Exports	Total
	Tons	Tons	Tons
1953-54	1,233,501	323,681	1,557,182
1954-55	1,197,956	353,693	1,551,649
1955-56	1,220,836	387,851	1,608,687
1956-57	1,308,014	418,991	1,727,005
1957-58	1,404,278	395,593	1,799,871

The total number of passengers embarked and disembarked in 1957-58 was 2,507. Receipts and Expenditure in the same period were Rs 90.81 lakhs and Rs 101.32 lakhs respectively.

The administration of the Port is carried on by the Administrative officer working directly under the Ministry of Transport and Communications of the Government of India. He is assisted by an Advisory Committee consisting of the representatives of the Government of India, the Government of the State of Kerala, and the local Chambers of Commerce and Municipalities.

Administrative Officer.—M. S. Venkataraman, B.A.; *Chief Engineer.*—C. V. Venkateswaran, B.E.; *Deputy Conservator.*—B. M. Chokkar; *Traffic Manager.*—Topen Bhose, B.A.; *Chief Accountant.*—A. N. Alyaswami, M.A.; *Secretary & Statistical Officer.*—J. Cyril Raj, M.A.; *Senior Medical Officer.*—Dr. V. K. Menon, M.B.B.S.; *Port Health Officer.*—Dr. K. Bhaskaran, M.B.B.S., D.P.H.

KANDLA

The major port of Kandla now has the following main facilities:—

A Jetty 2,700 ft. long capable of berthing four 600 ft long deep water steamers for discharge or loading of general cargo, packed or in bulk. It has four 6-ton electric quay cranes and more quay cranes are in the process of erection.

Three large transit sheds—450 ft. × 140 ft. each.

Large open transit areas.

Four double-storeyed warehouses 500 ft. × 120 ft. each, immediately behind the transit sheds and areas, with over-bridge connections to the roofs of the transit sheds.

An oil berth capable of taking oil tankers of up to 16,000 tons dead-weight capacity.

A tidal basin 500 ft. × 300 ft. for lighters and sailing vessels, provided with cranes.

A Floating Dry Dock capable of taking vessels of up to 250 ft. length.

Two passenger landing stages for ferries.

The oil berth was brought into use in April 1955; the lighter basin was brought into use in November 1955, the passenger berth for the ferry service between Navlakhi and Kandla was declared open on 1st October 1956 and the floating dry dock was completed in December 1956.

The Government of India have also sanctioned the construction of two additional berths, as a part of the Second Five Year Plan schemes of the Port. Work on these has already commenced.

Kandla port, the first major port to be constructed since independence, will serve a hinterland of 275,000 square miles with a population of 60 millions.

With the opening of the Bhildi-Raniwara railway line, Kandla now has a shorter rail connection with western Rajasthan and southern Punjab. A national highway to connect Kandla with Ahmedabad is expected to be completed by 1960.

Estimated cost of the project: Rs 14,17,25,000. Amount spent on this project till 31st August 1958: Rs. 13,13,66,000.

Statistics of revenue and expenditure of Kandla Port during 1957-58.

Revenue: Rs. 47,95,892-34.

Expenditure: Rs. 35,33,294-46.

The port has at present adequate capacity to handle import and export traffic upto 1.3 million tons per annum.

The traffic at the Port of Kandla during the year 1957-58 was as under:—

- (a) Total imports during the year.. 6,08,978 tons.
- (b) Total exports during the year .. 2,35,277 tons.
- (c) No. of passengers embarked and disembarked by the Navlakhi-Kandla ferry service during the year .. 75,207 incoming; 73,727 outgoing (total: 1,48,934 persons).
- (d) The total of imports and exports during the year.. 8,44,255 tons.

The Major Port of Kandla and the Kandla Port and the Township Projects are under the administrative control of the Government of India in the Ministry of Transport. The Development Commissioner, Kandla is the head of these Organisations. He is assisted by a Port Advisory Committee to advise him on all matters relating to the Port.

The Government of India have decided to establish a free trade zone at Kandla.

Principal Officers.—Development Commissioner, P. N. Saxena; Financial Adviser & Chief Accounts Officer, V. N. Singh; Superintending Engineer (Harbour), M. Ramabrahmam; Superintending Engineer (General), R. B. Sukhrani; Deputy Conservator, Capt. D. V. Singh; Secretary (Town Development), Shrivakumar Dhundaw; Secretary to the Development Commissioner, Dr. R. P. Bhargava.

MADRAS

The Madras Harbour is an artificial one formed by two arms projecting from a low, sandy coast.

The affairs of the Port are administered by a Board of Trustees which function under the Madras Port Trust Act. The Chairman is the Chief Executive Officer of the Board.

The Port is about 3/5 mile square (excluding boat basin, etc.) with an area of approximately 200 acres. Width at entrance 400 ft.; depth of water at entrance at high water 37 ft. and at low water 34 ft. Practically the whole of the enclosed harbour has a depth of 30 ft. at I.S.L.W. There are no navigational difficulties and the Port is approached direct from the open sea.

There is accommodation for 16 vessels inside the harbour 8 at Moorings and 8 at Quays. The depth at moorings ranges from 26 ft. to 30 ft. and at quays upto 31 ft. 6 in. Pilotage is compulsory.

The Income and Expenditure for the year 1957-58 were Rs. 2,78,71,935 and Rs. 2,01,93,920 respectively.

Number of passengers embarked during 1957-58 was 24,636 and of passengers disembarked 34,060.

The chief imports are coal and coke, foodgrains, mineral oils, metals, timber, textiles, machinery, hardware, hides and skins, paper including old newspapers, dyeing and tanning substances, chemical manures, sugar, asphalt, chemicals, cotton, etc.

Ores, piecegoods, hides and skins (raw and tanned), onions, raw tobacco, twist and yarn, mica, etc. form the principal exports.

The export of groundnut oil is also an important item and three oil tanks have been erected for storing the oil.

Statistics showing the growth of the Port from 1952-53 to 1957-58.

Year	Imports		Exports		Total
	Tons		Tons		
1952-53 ..	1,869,082		835,685		2,204,767
1953-54 ..	1,641,315		494,610		2,135,935
1954-55 ..	1,716,301		485,089		2,201,370
1955-56 ..	1,833,874		627,787		2,461,611
1956-57 ..	2,033,402		632,426		2,665,828
1957-58 ..	2,002,938		672,851		2,675,789

Trustees of the Port: Appointed by Government.—G. Venkateswara Ayyar, I.C.S., Chairman; Jagjit Singh, Collector of Customs; A. C. Mukherji, General Manager, Southern Railway; T. K. Palaniappam, M.A., I.A.S., Director of Industries and Commerce; D. Balasundaram, I.A.S., Commissioner, Corporation of Madras; Capt. S. K. Kumartha, Principal Officer, Mercantile Marine Department, Madras; Maj. Genl. B. K. Koochhar, The G.O.C. Madras, Mysore and Kerala Area; A. S. K. Iyengar, Representative of Labour.

Elected by Commercial Bodies, etc.—(Representing Corporation of Madras): P. N. Lakshminipathy; (Representing Madras Chamber of Commerce, Madras): J. R. Galloway and E. F. G. Hunter; (Representing Southern India Chamber of Commerce): A. M. Kuthandarama Reddi, C. K. Duraisvelan, M.A., B.E., J. B. Nayak, M. V. Arunachalam and V. C. Sreeramulu Chetty, J.P.; (Representing the Andhra Chamber of Commerce): Jayantilal P. Sanghrajka and B. Ramalinga Reddy; ((Representing the Indian National Steamship Owners' Association, Bombay): P. Lakshminipathy Naidu.

Administration

Principal Officers.—Chief Engineer.—K. N. Srinivasan, B.E., M.T.E. A.M.I. Struct. E. (London); **Superintending Engineer.**—B. K. Kuppuswamy; **Executive Engineer.**—V. S. Ananthanarayanan; **Mechanical Engineer.**—P. C. Martin; **Electrical Engineer.**—V. B. Srinivasan; **Deputy Port Conservator.**—W. E. Vangeyze; **Harbour Master.**—V. V. Seshadri; **Traffic Manager.**—V. A. Jaywant, B.A.; **Financial Adviser and Chief Accounts Officer.**—K. Rangaswamy, M.A.; **Medical Officer.**—Dr. T. S. Subramaniam, M.B.B.S., F.R.C.P.S., D.T.M.; **Secretary.**—T. K. Parameswaran Nambiar, B.A.

VISHAKAPATNAM

Vishakapatnam Harbour was created in order to supply an outlet for a large area of fertile country adjacent to the east coast of India, and for Madhya Pradesh with considerable mineral resources and no alternative access to the outside world. In 1933, the harbour was first opened for ocean-going vessels, and ships drawing upto 28 ft. 6 in. and having a length of up to 550 ft. can now enter and leave the harbour at all times of the year. Under favourable states of tide, however, ships drawing 30 ft. can enter or leave the harbour by prior arrangements.

The harbour now provides the following facilities:

The inner harbour consists of a turning basin, four quay berths each 600 feet long and equipped with portal electric cranes, transit sheds, and railway lines, both behind and on the quay-side of the transit sheds and three concrete jetty and wharf berths for coal and oil. Besides, there are four mooring berths which are served by a fleet of lighters owned and operated by the port authorities and shallow water channels with timber jetties for lightering work. The quay berths No. 1 and 2 are specially equipped and reserved for the expeditious handling of manganese and iron ore: on an average, approximately 3,000 tons are loaded in a day.

A 1,200 ft. long quay berth, capable of accommodating two oil tankers simultaneously has been constructed to provide the necessary Port and Harbour facilities for the Caltex Oil Refinery at Vishakapatnam which is in full operation.

A Dry Dock 366 ft. by 60 ft. with a depth of 14 ft. below low water has been in use at the Port for the docking of vessels, but ordinarily only small craft not exceeding 300 ft. in length can be docked.

The Port has floating cranes capable of dealing with heavy lifts up to 50-ton capacity.

Income and Expenditure of the Port for the year 1957-58.

	Receipts		Expenditure	
	Rs.		Rs.	
Port Fund ..	1,43,82,419		93,50,900	
Pilotage Fund	2,09,525		1,57,668	

Statistics showing total imports and exports handled during the five years from 1953-54 to 1957-58.

Year	Imports		Exports		Total
	Tons		Tons		
1953-54 ..	185,824		1,205,015		1,390,839
1954-55 ..	239,510		795,725		1,035,235
1955-56 ..	228,406		1,094,648		1,323,054
1956-57 ..	494,121		995,633		1,489,804
1957-58 ..	1,145,894		1,346,884		2,492,778

The Port is administered by the Government of India, Ministry of Transport and Communications, New Delhi.

Principal Officers.—Port Administrative Officer and Port Conservator.—C. B. Reddy, I.A.S.; **Secretary.**—G. Parthasarathi, B.A.; **Deputy Chief Engineer.**—S. Subbarao; **Deputy Port Conservator.**—E. H. Glasup; **Traffic Manager.**—R. Srinivasan; **Mechanical Superintendent.**—A. W. De Lima.

EAST COAST PORTS*

Ports.	Receipts for 1957-58.		Expenditure for 1957-58.		No. of passengers embarked and disembarked 1957-58.	Imports in tons 1957-58.	Exports in tons 1957-58.	Weight of Cargo in tons handled in 1957-58.	Officer-in-Charge of Port.
	Rs.	nP.	Rs.	nP.					
Bimlipatam ..	5,502.10		4,891.82		Nil	Nil	4,502	4,502	K. V. Subba Rao.
Chandballi ..	11,220.74		16,599.45		Nil				
Ouddalore ..	41,967.88		75,946.87		Nil	2,59,580	13,170	2,72,750	L. G. Hardas.
(Minor Ports Fund)	3,00,715.66		1,64,029.44						
(Landing and shipping fund)	2,402.39		3,468.71						
Dhanushkodi†	4,78,067.00		8,32,948.00		37,928	881	5,832	6,713	B. V. Sarma.
Kakinada ..	2,16,076.33		1,75,955.62		Nil	34,929	3,10,342	3,45,271	L. T. Yettie.
Masulipatam ..	1,61,470.06		4,03,053.13		18,785	11,026.58	77,041	88,067.55	V. Jagannadhachari.
Nagapattinam	12,34,978.00		6,52,135.00		207	1,829‡	16,951‡	18,781	Capt. A. Sivaraman.
Tuticorin						2,84,587	4,15,569	7,00,156	G. M. Chikhalikar.

* Where no information is available the columns have been left blank.

† Figures for 1956-57.

‡ Imports and exports negligible. Development projects with regard to improvements at Chandballi were to commence from 1957 financial year. Revival of sea-borne trade at Gopalpur is under the consideration of the Government. Schemes are being finalised for establishing a port at Paradip on the mouth of the river Mahanadi.

SAURASHTRA AND KUTCH PORTS

Ports	Receipt for 1957-58		Expenditure for 1957-58		No. of passengers embarked and disembarked 1957-58	Imports in tons 1957-58	Exports in tons 1957-58	Weight of Cargo in tons handled in 1957-58	Officer-in-Charge of Port.
	Rs.	nP.	Rs.	nP.					
Bhavnagar group of Ports	15,60,359.00		25,51,935.38		3,678	1,67,981	2,33,839	4,01,820	D. Y. Virkar.
Bedi group of Ports ..	14,64,717.82		11,01,851.02		1,789	52,334	4,34,012	4,86,246	O. P. Adalja.
Navakhli group of Ports ..	6,40,371.00		7,10,546.34		1,49,106	39,697	51,813	91,510	V. G. Mankad.
Porbandar group of Ports ..	5,09,665.00		4,44,089.24		4,943	50,629	89,347	1,39,976	D. V. Bara.
*Kutch group of Ports ..	2,39,025.05		2,31,182.29		37,748	27,637	79,902	1,07,139	D. P. Mainthia.
Veraval group of Ports ..	5,59,285.00		4,84,360.68		9,402	73,834	92,131	1,65,965	
Headquarters Office, Rajkot	1,605.42		1,11,752.16		..	..	..	..	T. N. Oza.
TOTAL	49,75,008.29		56,35,717.11		2,06,665	4,12,112	9,80,644	13,92,756	

Principal Port Officer and Engineer, Saurashtra and Kutch Region Ports, Headquarters, Rajkot, H. P. Oza.

Total receipt for Saurashtra and Kutch Region Ports for the year 1957-58 Rs. 49,75,008.29.

Total Revenue Expenditure for Saurashtra and Kutch Region Ports for the year 1957-58 Rs. 56,35,717.11.

Total Capital Expenditure for Saurashtra and Kutch Region Ports for the year 1957-58 Rs. 62,64,554.10 (includes capital expenditure for Okha).

* Mandvi figures are given separately under West Coast Ports.

WEST COAST PORTS

Ports.	Receipts for 1957-58.		Expenditure for 1957-58.		No. of passengers embarked and disembarked 1957-58.	Imports in tons 1957-58.	Exports in tons 1957-58.	Weight of Cargo in tons handled in 1957-58.	Officer-in-Charge of Port.
	Rs.	nP.	Rs.	nP.					
Alleppey ..	1,33,364.91		1,38,436.04		Nil	293	22,376	22,669	M. Raja Raja Varma, B.A.
Kozhikode ..	4,41,668.69		2,53,021.40		225	1,03,562	2,04,253	3,07,815	P. Parameswara Prasad.
Mandvi ..	90,136.50		4,19,843.00		37,748	23,560	3,729	27,289	R. K. Budhbatti.
Mangalore ..					See separate note below.				
Port Okha ..	15,00,013.66		12,62,564.75		6,517‡	2,30,478	2,10,063	4,40,541	Capt. D. K. Tamhane, F.G.M.
Quilon ..	22,617.85		6,007.21		Nil	12,804	7,444	20,248	A. Ebrahim Kunju.
Surat ..	7,472.33		Nil		Nil	23,570	3,365	26,935	H. R. Amarnani.
Tellicherry ..	33,397.00		19,852.00		1	11,659	9,936	21,645	V. D. Peter.

BROACH PORT

The following are figures for the year 1957-58 :
—Number of passengers embarked and disembarked : Nil.

Imports : 22,710 tons ; Value of imports : Rs. 90,98,745.

Exports : 10,856 tons ; Value of exports : Rs. 26,35,280.

Total income : Rs. 5,239.45 (Customs import duty Rs. 14.16 ; Landing and wharfage fee Rs. 42.88 ; Port dues Rs. 4,993.18).

Customs, Miscellaneous recoveries, Light dues Rs. 189.23 nP.

Total expenditure : Rs. 10,400 (Pay and allowances Rs. 8,800 ; Overtime fees Rs. 1,230 ; Travelling allowance Rs. 370).

MANGALORE PORT

Revenue & Expenditure : The particulars of Revenue receipts and expenditure of funds administered by the Mangalore Port Trust Board during the year 1957-58 were as follows :

	Receipts.	Expenditure.
	Rs.	Rs.
1. Mangalore Port Trust Fund.. .. .	4,06,523	2,39,235
2. Mangalore Port Fund.. .. .	1,00,111	22,605
3. Mangalore Pilotage Fund.. .. .	4,678	4,819

Passengers embarked and disembarked during 1957-58 : 6,974‡ passengers embarked and 6,793 passengers disembarked.

Tonnage of Trade handled (1957-58) (Approx.)

(i) Imports : The Imports during the year amounted to 86,047 (approx.) tons.

(ii) Exports : The Exports during the year amounted to 2,10,903 (approx.) tons.

(iii) The total approximate weight of cargo handled at the Port during the year was 2,96,950 tons.

RAILWAYS

THE total route mileage of all the railways in India on March 31, 1958 was 34,888.87. The total electrified route mileage was 268.86.

The total route mileage is made up of the following:

Govt. railways—34,181.05
Non-Govt. railways—707.82.
The total capital at charge on March 31, 1958 was Rs. 1,228.64 crores.

There are three kinds of gauge, broad (5 ft. 6 in.), metre (3 ft. 3½ in.) and narrow (2 ft. 6 in.). There is also a light gauge usually laid on the mountains (3 ft.). An example of this last is the Darjeeling-Himalayan.

The total route mileage by gauge was as follows:

Broad gauge: 16,246.37

Metre gauge: 15,480.78

Narrow gauge: 3,161.72

The fares (pies per mile) on March 31, 1959 were as follows:—

were as follows:				
Air conditioned	..	{	1—300 (miles)	24
			301 and over	32
Second class	..	{	1—150 (miles)	18
			151—300	16
			301 and over	15
Inter (Mail & Expr.)		{	1—150 (miles)	11
(Ordinary)	..			9½
(Mail & Expr.)	..		151—300	10½
(Ordinary)	..			9
(Mail & Expr.)	..		301 and over	9½
(Ordinary)	..		"	8½
Third (Mail & Expr.)		{	1—150 (miles)	6½
(Ordinary)	..			5½
(Mail & Expr.)	..		151—300	6
(Ordinary)	..		"	5
(Mail & Expr.)	..		301 and over	5
(Ordinary)	..		"	4½

* For under 50 miles 5

MISCELLANEOUS INFORMATION

There are in all about 6,400 railway stations. In any one day of 24 hours about 7,300 trains cover distances aggregating 562,000 miles.

The goods trains carry 362,000 tons or about 10,000,000 maunds daily. Daily, the railways load about 23,000 wagons.

Railwaymen on the line and those working in yards, sheds, repair shops, workshops and "neck lines" have to maintain and operate a total of over 10,000 locomotives, 24,000 coaching vehicles and nearly 283,000 goods wagons.

The men in charge of the safe operation of trains have to keep in constant good trim roughly 15,000,000 rails laid over 49,500 miles of railway track, nearly 100,000 points and crossings and about 30,000,000 fish plates.

The number of men, women and children who boarded the trains averaged about 4,000,000 daily—an all-time high. The railways carried an average of 3.64 lakhs tons of goods in each 24-hour period, while the loading of goods exceeded a steady average of over 1,000 wagons per hour, all the year round.

Out of every rupee which the railway earned during the year, passengers contributed 31 naye Paise and goods traffic another 61 naye Paise. The balance came from parcels, luggage and miscellaneous sources.

While passengers contributed less than one-third of the total revenues compared to two-thirds from goods traffic, the former utilised major portion of the total rail capacity.

There are 367 stations throughout the country which had book-stalls (Sept. 1958). Of these Messrs. Wheeler and Co. had book-stalls on 240 stations.

There were 101 stations having book-stalls on the Southern Railway; 65 on the Central

Railway; 56 on the Western Railway; 51 on the Northern Railway; 30 on the Eastern Railway; 29 on the North-Eastern Railway; 22 on the South-Eastern Railway, and 13 on the North-East Frontier Railway.

ZONAL ADMINISTRATION

The entire Government railway system is now grouped into eight administrations: the Southern Railway, the Western Railway, the Central Railway, the Northern Railway, the Eastern Railway, the South-Eastern Railway, the North-Eastern Railway and the North-East Frontier Railway.

The headquarters of the Southern Railway are at Madras, of the Western Railway at Bombay, of the Central Railway also at Bombay, of the Northern Railway at Delhi, of the Eastern Railway at Calcutta, of the South-Eastern Railway also at Calcutta, of the North-Eastern at Gorakhpur and the North-East Frontier Railway at Pandu.

Some of these railways comprise smaller systems.

Besides the Indian Government railways, there are nine company railways and one District Board railway.

For these railways see below.

STATISTICS

The principal statistics for the year 1957-58 are given below. The first column shows the position for all railways, the second only for Government railways:

	All Railways	Government Railways.
Capital at charge (Rs. crores)*	1,228.64	1,169.13
Route mileage (March 31)	34,888.87	34,461.88
Gross earnings (Rs. crores)	382.99	361.42
Total working expenses (Rs. crores)	311.16	309.76
Operating ratio (per cent)	81.24	81.21
No. of passengers originating (million)	1,431.06	1,410.18
Passenger miles (million)	43,332.80	43,042.93
Earnings from carriage of passengers (Rs. crores)	120.08	119.10
Average earnings per passenger mile (pies)	5.32	5.31
Freight tons originating (million)	133.37	132.08
Freight ton miles (million)	44,897.44	44,861.39
Earnings from carriage of goods (Rs. crores)	225.72	225.20
Average earnings per freight ton mile (pies)	11.4	11.4
Total train miles (million)	226.06	224.76
Gross earnings per train mile (Rs.)	18.0	18.1
Working expenses per train mile (Rs.)	14.8	14.9
Net earnings per train mile (Rs.)	3.19	3.21
Net earnings per mean mile worked (Rs.)	20.645	20.848

* Exclusive of such projects as Chittaranjan.

Other information about Indian Railways for 1957-58 is given below:—

New Lines opened to Traffic	168.14 miles
Lines under Construction	430.61 miles
Total No. of Locomotives (March 31, 1958)	10,182
No. of Steam Locomotives	9,946
No. of Diesel Electric Locomotives	37
No. of Electric Locomotives	89
No. of Diesel Hydraulic and Mechanical	60
No. of Passenger Carriages (March 31, 1958)	17,967
Total No. of Seats (March 31, 1958)	11,83,285
No. of air conditioned seats	2,580
No. of 1st Class seats	67,901
No. of 2nd Class seats	67,709
No. of 3rd Class seats	1,045,095
No. of Goods Vehicles (March 31, 1958)	246,054
Total carrying Capacity in tons	4,997,827
Total No. of Passengers Carried (Crores)	143.11

No. of A.C.	104,000
No. of 1st Class Passengers (Million)	23.38
No. of 2nd Class Passengers (Million)	14.06
No. of 3rd Class Passengers (Million)	1,393.51
Total Passenger Miles (Crores)	4,533.28
Average Miles per Passenger	30.3
Total Earnings from Passengers (Rs. in Crores)	120.08
Earnings from A.C. Passengers (Rs. Millions)	9.87
Earnings from 1st Class Passengers (Rs. in Million)	66.11
Earnings from 2nd Class Passengers (Rs. in Crores)	5.81
Earnings from 3rd Class Passengers (Rs. in Crores)	106.68
Goods Carried (Million tons)	133.37
Net ton Miles (Crores)	4,489.74
Average Miles a Ton of Goods was Carried	336.7

Total fuel consumed in terms of coal (1957-58) ..	14.01 million tons
Value of stores imported direct (Rs. in Crores) ..	27.10
Value of imported stores purchased in India (Rs. in Crores) ..	36.25
Value of stores of indigenous origin (Rs. in Crores) ..	158.48
Cost of Police and Railway Protection Force (Rs. in Crores) ..	6.14
Total No. of special trains (in 1958) ..	1,776
Special trains for Kisans ..	22
Special trains for Students/Teachers ..	11
Special trains for pilgrims ..	14
Capital at charge, Chittaranjan Works (Rs. lakhs) ..	21.85
Capital at charge, Integral Coach Factory (Rs. lakhs) ..	10.63
Capital at charge, Locomotive component works—Banaras (Rs. lakhs) ..	2.11

STAFF

The total strength of Staff (March 31, 1958) ..	1,116,878
Position on Government Railways :	
Class I and II Staff ..	4,013
Class III Staff ..	428,275
Class IV other than Workshop and artisan ..	508,809
Class IV Workshop, artisan ..	170,429
The total cost of all Staff (Rs. in Crores) ..	172.94
The total cost of Class I and Class II (Rs. in Crores) ..	4.36
The total cost of Class III staff rising to above Rs. 250 per month (Rs. in Crores) ..	9.87
The total cost of Class III staff, rising to not more than Rs. 250 per month other than workshop and artisan (Rs. in Crores) ..	58.46
The total cost of workshop staff plus artisan staff, Class III (Rs. in Crores) ..	27.56
The total cost of Class IV staff other than workshop and artisan (Rs. in Crores) ..	54.21
Class IV, workshop and artisan (Rs. in Crores) ..	18.48
Total cost of workshop and artisan staff Class III or IV (Rs. in Crores) ..	46.04
Man-days lost due to Sickness ..	12,436,588
Man-days lost due to Strikes or Lock-outs ..	15,400
Total Man-days lost ..	12,451,997
Total No. of Female Employees (March 31, 1958) ..	9,325
Class I and II Officers ..	2
Class III Staff :	
Clerks ..	1,936
Stenographers ..	79
Nurses ..	637
Teachers ..	529
Others ..	866
Class IV Staff ..	5,276

ACCIDENTS

Accidents 1957-58 :

	Killed	Injured
Passengers ..	435	3,683
Railway Servants ..	283	28,084
Other Persons ..	365	500
TOTAL ..	1,083	32,267

1. No. of Collisions in which Passenger Trains were involved ..	30
2. No. of Derailment to Passenger Trains ..	216
3. No. of Train wreackings ..	1

4. Attempted Train wreackings ..	77
5. Flooding ..	68
6. Failure of bridges, tunnels ..	3
7. Trains running into road traffic at level crossings ..	161
8. Broken rails ..	43
9. Failure of engine owing to faulty material etc. ..	2,066
10. Derailments not involving passenger trains ..	1,224
11. Fires in trains, stations etc. ..	339
12. Collisions involving goods trains ..	132
Total of all accidents ..	9,168
There were five major accidents during the year.	

On 2nd June, 1957 near Sewri Station on the Harbour Branch of the Electrified Section of the Central Railway two trains collided. Twenty-three persons were killed and sixty-four injured. The damage was Rs. 47,770.

On 19th Aug. 1957 at Palasa Station of the South-Eastern Railway a bogie from a goods train rolled down a gradient and collided with a passenger train, four persons were killed and seventeen injured. The damage was about Rs. 96,400.

On 23rd Nov. 1957 between Padali and Asvalli Stations on the Central Railway a passenger train was derailed. Nine persons were killed and 107 persons injured. The damage was Rs. 1,88,080. An enquiry under the chairmanship of Justice G. D. Khosla found that the accident was due to sabotage.

On 1st Jan. 1958 at Mohri Station on the Northern Railway two passenger trains collided. Thirty-six persons were killed and 88 injured. The damage was about Rs. 3,49,300. An enquiry Commission under Justice B. N. Nigam was set up. But the report has not been published as a case connected with the accident was sub judice.

On 26th Feb. 1958 at Sonarpur Station on the Eastern Railway two passenger trains collided. Five were killed and 47 injured. The damage was Rs. 44,100.

CENTRAL RAILWAY, 1957-58

(Victoria Terminus, Bombay 1)

Total Route Mileage ..	5,330.52
Broad Gauge ..	3,796.58
Metre Gauge ..	808.96
Narrow Gauge ..	724.98
New Construction in Hand, Mileage ..	150.67
Mileage Electrified ..	184.85
Capital at Charge (Rs. in crores) ..	219.47
Gross Revenue Receipts (Rs. in crores) ..	71.92
Working Expenses ..	53.96
Net Revenue Receipts ..	17.96
No. of Locomotives actually running on March 31, 1958 ..	1,381
Steam ..	78
Electric ..	23
Diesel ..	23
Total No. of Passenger Carriages (in units) actually running on March 31, 1958 ..	2,225
Passenger Carrying Capacity—	
Seats by Classes—	
Air Conditioned ..	400
First Class ..	12,474
Second Class ..	5,383
Third Class ..	129,524
No. of Passengers Carried (in millions) ..	281.3
No. of Wagons actually running } Covered ..	28,926
on March 31, 1958 .. } Open ..	10,607
Tonnage lifted (in millions) ..	26.77
Total No. of Staff on March 31, 1958 ..	192,341

EASTERN RAILWAY, 1957-58

(Fairlie Place, Calcutta)

Total Mileage ..	2,324.68
Broad Gauge ..	2,307.84
Metre Gauge ..	Nil
Narrow Gauge ..	17.14
Capital at charge (Rs. in Crores) ..	168.03
Gross earnings (Rs. in Crores) ..	51.58

Working expenses (Rs. in Crores) ..	43.98
Net earnings (Rs. in Crores) ..	7.55
No. of locomotives on 31-3-58 ..	
(a) Steam ..	1,493
Diesel ..	20
Electric ..	12
(b) Electric Multiple Units ..	7
(c) Passenger Carriages (in vehicle units) ..	2,383
(d) Other Coaching vehicle (in vehicle units) ..	525
(e) Wagons (in vehicle units) ..	59,522
No. of passengers carried ..	188 million
Total tonnage lifted (originating) ..	33.1 million
Staff (on 31-3-58) ..	1,06,397

NORTHERN RAILWAY, 1957-58

(Baroda House, New Delhi)

Total Mileage ..	6,868.89
Broad Gauge ..	4,201.51
Metre Gauge ..	2,006.05
Narrow Gauge ..	161.33
New Construction ..	23.90
Mileage Electrified ..	N/A
Capital at Charge (Rs. in Crores) ..	181.85
Working Expenses (Rs. in Crores) ..	46.47
No. of Passengers Carried on the System (in million) ..	200.558
Net receipts (Rs. Crores) ..	14.24
No. of Locomotives ..	
Steam ..	1,308
Diesel ..	10
Electrical ..	Nil
No. of passenger coaches ..	1,771
Passenger carrying capacity ..	
Air-conditioned ..	103
1st Class ..	6,370
2nd Class ..	9,575
3rd Class ..	1,27,844
No. of Goods Wagons, open : ..	
High sided ..	10,426
Low sided ..	608
No. of Goods Wagons, covered ..	18,656
Tonnage lifted (in million) ..	4,873
Staff total ..	1,69,957

NORTH-EASTERN RAILWAY, 1957-58*

(Gorakhpur)

Total Mileage ..	4,801.63
Broad Gauge ..	2.15
Metre Gauge ..	4,747.71
Narrow Gauge ..	51.97
New Construction in Hand ..	Nil
Mileage Electrified ..	Nil
Capital at Charge (Rs. in Crores) ..	131.07
Gross Earnings (Rs. in Crores) ..	33.12
Working Expenses (Rs. in Crores) ..	36.23
Net Earnings (Rs. in Crores) ..	3.11
Total No. of Engines on line (in units) ..	1,273
No. of Locomotives (Electric) ..	Nil
No. of Passenger Coaches ..	3,110
Passenger Carrying Capacity :—	
(a) Air Conditioned ..	166
(b) 1st Class ..	6,577
(c) 2nd Class ..	14,051
(d) 3rd Class ..	141,856
Total ..	162,650
No. of Passengers Carried (in hundred) ..	1,195,288
No. of Goods Wagons, Covered (in units) ..	27,276
No. of Goods Wagons, Open ..	7,360
No. of Goods Wagons, Special ..	3,007
Tonnage lifted (tons in thousand) ..	7,885
No. of Staff (Total) (in units) ..	135,922

* Before the bifurcation into North-Eastern and North-East Frontier Railways.

NORTH-EAST FRONTIER RAILWAY

(Pandu, Assam)

The usual particulars will not be available until well after one year after the railway has started working. It was formed on 15th Jan. 1958.

Below we give what is available :

Route mileage ..	1,738.3 miles
Broad gauge ..	2.75 "
Metre gauge ..	1,685.8 "

Narrow gauge	40.75 miles
Gross traffic receipts (Rs. crores)*	12.43
Working Expenses (Rs. crores)*	17.17
Loss for year (includes other items) (Rs. Crores)*	7.75
* Revised estimates for 1958-59.	

SOUTHERN RAILWAY, 1957-58 (Madras Central, Madras)

Total Mileage	6,150.36
Broad Gauge	1,858.34
Metre Gauge	4,295.32
Narrow Gauge	95.70
New Construction in Hand—	NH
Mileage Electrified	18.14
Capital at Charge (Rs. in crores)	161.76
Gross Revenue Receipts (Rs. in crores)	52.72
Working Expenses (Rs. in crores)	50.79
Net Revenue Receipts (Rs. in crores)	1.93
Average no. on line daily:	
No. of Locomotives (Steam)	1,535
No. of Locomotives (Electric)	4
No. of Passenger Coaches	3,487
Air Conditioned Passenger	
Seating Capacity	334
I Class	10,631
II	11,615
III	216,158
No. of Passengers Carried (in thousand)	225,894
No. of Goods Wagons (Covered)	21,554
No. of Goods Wagons (Open)	7,858
Tonnage lifted (tons in thousand)	19,143
Staff (Total)	160,326

SOUTH-EASTERN RAILWAY, 1956-57 (Garden Reach, Calcutta 23)

Total mileage	3,419
Broad gauge	2,494
Metre gauge .. .. .	.. .. .
Narrow gauge	925
Mileage electrified .. .. .	.. .. .
Mileage under construction	484
Number of Locomotives:	
Steam	969
Diesel .. .. .	.. .. .
Electric .. .. .	.. .. .
Railcars	2
No. of passenger coaches	1,422
No. of goods wagons:	
Covered	11,678
Open	17,028
No. of staff	120,683
Passenger carrying capacity:	
Air-conditioned	240
1st class	4,420
2nd class	5,360
3rd class	80,540
No. of Passengers carried	69,505,729
Tonnage of goods lifted	25,887,022*
Capital at charge	Rs. 148,52,94,120
Gross earnings	Rs. 49,11,85,425
Working expenses	Rs. 33,83,07,973
Net earnings	Rs. 15,28,77,452
* Provisional.	

WESTERN RAILWAY, 1957-58 (Churchgate, Bombay)

Total Route Mileage	6,014.00
Broad Gauge	1,585.59
Metre Gauge	3,670.13
Narrow Gauge	758.28
Mileage electrified	37.25
Capital at Charge (Rs. in Crores)	153.90
Gross Revenue Receipts (Rs. in Crores)	62.42
Working Expenses (Rs. in Crores)	44.50
Net Revenue Receipts (Rs. in Crores)	17.92
No. of Locomotives (Steam)	1,445
No. of Locomotives (Diesel Electric)	17
No. of Locomotives (Diesel Mechanical)	27
Rail Motor Coaches	87
No. of Passenger Coaches	2,960
Passenger carrying capacity	
Air conditioned—	
Broad Gauge	430
Metre Gauge	118

Passenger carrying capacity (1st Class)—	
Broad Gauge	8,587
Metre Gauge	5,831
Narrow Gauge	804
Passenger carrying capacity (2nd Class)—	
Broad Gauge	2,914
Metre Gauge	5,618
Passenger carrying capacity (3rd Class)—	
Broad Gauge	73,491
Metre Gauge	75,965
Narrow Gauge	10,471
No. of Passengers carried (in thousand)	3,59,453
No. of Goods Wagons (covered)	20,239
No. of Goods Wagons (open)	7,669
Tons carried (in thousand)	21,348
No. of staff	1,45,194

BRANCH AND COMPANY RAILWAYS

The eight big railway systems owned by the Government of India comprise in some cases smaller systems as follows:

Central:

1. Ellichpur-Yeotmal, narrow, 118 miles, branch line under rebate terms.
2. Pulgaon-Arvi, narrow, 22 miles, branch line under rebate terms.

Northern:

1. Rupar-Nangal-Dam, broad, 35, jointly owned by the Government of India and the Punjab Government.
2. Mukarvan-Pathankot, broad, 26 miles.

North-East Frontier:

1. Chaparmukh-Silighat, metre, 51 miles, branch line company under guarantee terms.
2. Katakhal-Lalabazar, metre, 23 miles, branch line company under guarantee terms.
3. Darjeeling Himalayan, Mountain railway, 52 miles.

Southern Railway:

1. Cochin Harbour Extension, broad, 4 miles, Cochin Harbour Authority.
2. Tenali-Repalle, broad, 21 miles, District Board, Guntur.
3. Alnavar-Dandell, metre, 19 miles, Government of Mysore.
4. Peralam-Karalkkal, metre, 15 miles.
5. Pondicherry, metre, 8 miles.
6. Nanjangud Town—Chamarajanagar, metre, 22 miles, District Boards of Mysore and Mandya.

Western:

1. Ujjain-Agar, narrow, 42 miles.
- There are 10 non-Government railways, nine of these are company railways and one a District Board railway.

They are all narrow gauge railways.

The District Board railway is the Bhaktiarpur Bihar Light, 33 miles.

The nine company railways are:

1. Ahmadpur-Katwa, 32 miles.
2. Arrah-Basaram Light, 65 miles.
3. Bankura-Damodar River, 60 miles.
4. Burdwan-Katwa, 32 miles.
5. Dehri-Rohas Light, 24 miles.
6. Futwa-Islampur, 27 miles.
7. Howrah-Amta Light, 44 miles.
8. Howrah-Sheakhala Light, 17 miles.
9. Shadara-Saharanpur Light, 93 miles.

RAILWAY BUDGET

(Rupees in Crores)

	Actuals 1957-58	Revised Estimate 1958-59	Budget Estimate 1959-60
Gross Traffic Receipts	379.78	394.38	422.03
Working Expenses	264.18	274.22	283.71
Net Miscellaneous Expenditure	12.56	12.03	17.61
Appropriation to Depreciation .. .. .	.. .. .	.. .. .	.. .. .
Reserve Fund	45.00	45.00	45.00
Payment to Worked Lines	0.26	0.10	0.11
Total	322.00	331.33	346.43
Net Railway Revenues	57.78	63.03	75.60
Dividend to General Revenues	44.40	50.03	54.41
Net Surplus	13.38	13.00	21.19

Some individual items on the expenditure side are given below:

	(In crores of rupees)
Budget Estimate 1959-60	
Demand No. 4.—Administration	35.47
Demand No. 5.—Repairs and Maintenance	109.89
Demand No. 6.—Operating Staff	66.27
Demand No. 7.—Operation (Fuel)	62.45
Demand No. 8.—Operation other than Staff and Fuel	21.23
Demand No. 9.—Misc. Expenses	26.05
Demand No. 10.—Labour Welfare	9.24
TOTAL	330.60
Credits or recoveries	—46.89
TOTAL	283.71

Other categories of expenditure in Rs. lakhs: Rolling stock: 80.38; track renewals: 38.84; traffic facilities: 40.28; staff quarters: 6.29; amenities for staff: 3.70; passenger and other railway users' amenities: 2.95; new lines: 23.68; electrification: 26.47.

Some individual items on the receipts side are given below:

	(In crores of rupees)
Budget Estimate 1959-60	
Passenger Earnings—	
Upper	13.52
Third	104.78
Other Coaching Earnings	24.00
Goods Earnings	272.58
Other Sundry Earnings	8.40
Total Earnings	423.28
Suspense	—1.25
Gross Traffic Receipts	422.03

The programme of new acquisition under rolling-stock for 1959-60 is given below. They are to be obtained from indigenous sources.

Steam locomotives 220; Diesel locomotives 14; Steam boilers 40; carriages 492; wagons in terms of four-wheelers 14,780.

BUDGET SPEECH

Below we give a few points from the budget speech (Feb. 1959) of the Minister for Railways.

During 1958-59 about 1,500 engineers and supervisors and two lakh workers worked on various projects apart from normal work. Out of a total of 1,848 new lines and doublings under the Plan, 423 lines were opened. Construction was in progress on 525 miles of new line projects. These are: Chandrapura-Muri-Ranchi-Hatia, Bondamunda-Dumaro, Bhilai-Deoighat, Barabill-Pampoh Gorge, Bondamunda-Nowagaon-Purnapani, Damodar-Kalipahari, Bijuri-Karan-nji, Gidi-Saunda-Bachra branch lines in the Jarangdi and Karanpura Coalfields, Kumedpur-Barsoil, Robertganj-Gashwa Road, Ghasia-bad-Tuglakabad including the Second Jamuna Bridge, the remaining 180 miles of the Khandwa-Hingoli and the Baraset-Hassanabad.

In addition 900 miles of doublings are in progress.

The work on strengthening the Assam Rail Link Route is also in progress.

The bridge over the Ganga at Mokameh would be opened to traffic in April 1959.†

Construction on certain new lines has also started.

Such new lines aggregate to nearly 500 miles, and are Udaipur-Himmatnagar, Jhunda-Kandla, Tildanga-Farakka, Khajuriaghat-Malda, the Delhi Avoiding Line and the extension of the rail-head from Madhopur across the Ravi into the State of Jammu and Kashmir. The Guna-Ujjain and Bakhtiarpur-Rajgir links will also be commenced during this year. Other lines included in the Budget Year are the 11½ mile long Sambalpur-Titlagarh line and the link from Bimlagarh to Kriburi; these projects will assist in the export of 2 million tons of iron ore through the Vizag Port.

The construction of three new lines—namely, Mangalore-Hassan, Diva-Dasgaon* and Patharkandi-Dharmanagar links, are under active consideration.

There is an offer of "Shramdan" labour for earthwork, etc. from the Rajasthan Panchayat Sangh, for the construction of a Broad Gauge link between Hindumalkot, a frontier station on the Broad Gauge of the Northern Railway, and Sri Ganganagar on the Metre Gauge.

Provision has also been made for Phase II of the conversion of Gudivada-Bhimavaram-Vijayawada-Masulipatam section of the Southern Railway from Metre Gauge to Broad Gauge, estimated to cost about Rs. 3 crores, and doubling of Rajahmundry-Samalkot section at an estimated cost of Rs. 1.32 crores.

Rolling Stock

The Chittaranjan Locomotive Works produced 164 locomotives in 1957-58, and expect to produce 168 locomotives in the current year and the same number in the next year. A Steel Foundry of 7,000 ton capacity is being set up at Chittaranjan as an essential adjunct to this production unit.

TELCO works delivered 85 locomotives in 1957-58 and are expected to deliver 100 locomotives in the current year and the same number in the Budget year.

The Integral Coach Factory turned out 222 unfurnished coaches during 1957-58. 295 unfurnished coaches are expected to be produced during the current year, while the Factory would reach its present target of 350 unfurnished coaches in the next year with single shift working. With a view to produce more coaches a second shift will be introduced shortly.

The average cost of manufacture has also come down progressively. Against Rs. 1.21 lakhs per unfurnished coach in 1957-58, the cost is expected to be Rs. 95,000 in the current year. The temporary furnishing unit set up within the factory furnished 178 coaches upto November, 1958. It is hoped that this will soon be replaced by a permanent furnishing unit with the capacity to furnish all the coaches turned out.

There has been progressive increase in the production of rolling stock in the country. Against 234 steam locomotives and 15,985 wagons received by Railways in 1956-57, 249 locomotives and 17,731 wagons were received in 1957-58, the number of locomotives going up to 268 in the current year, while another 268 locomotives and 17,900 wagons will be received in 1959-60.

As regards coaches, 474 Broad Gauge, 185 Metre Gauge and 38 Narrow Gauge bogie third class carriages were manufactured and put into service in 1957-58, in addition to 186 Broad Gauge, 195 Metre Gauge and 31 Narrow Gauge composite coaches containing third class accommodation. During the current year, 277 Broad Gauge, 175 Metre Gauge and 4 Narrow Gauge bogie complete third class coaches and 90 Broad Gauge, 183 Metre Gauge and 1 Narrow Gauge composite coaches having third class accommodation were manufactured and put into service upto the end of October, 1958.

A total of 2,008 coaches, in addition to 104 electrical multiple unit coaches, is expected to be received in 1959-60, against a total of 1,538 coaches expected to be received in the current year and a total of 1,248 coaches received in 1957-58.

It may be added here that the Railway Board has placed orders with Indian manufacturers for the supply of 1,750 broad gauge new design 80-ton eight-wheeler bogie wagons, which have been accepted as the standard design for the future (Dec. 1958).

The Indian railways have traditionally been using four-wheeler wagons with a total carrying capacity of 22 tons. The new wagons will have a capacity of 55 tons, and will greatly help in running longer goods trains in India. For the time being their use will be confined to the steel belt in the eastern region.

A provision for a further lot of about 4,000 new design wagons, incorporating the latest development in wagon design, is being made in the 1959-60 rolling stock programme.

With effect from the 1960-61 rolling stock programme, the Railway Board has decided that all open wagons and 50 per cent of the covered wagons will be built as bogie wagons to the new design.

During 1957-58, 71 new passenger trains were introduced—38 on the Broad Gauge, 31 on the Metre Gauge and 2 on the Narrow Gauge. In the current year upto 1st December, 1958, 45 trains were introduced on the Broad Gauge and 13 on the Metre Gauge. The run of 18 Broad Gauge trains, 36 Metre Gauge trains and 2 Narrow Gauge trains was extended in 1957-58, and of 16 more Broad Gauge trains and 28 more Metre Gauge.

A number of new suburban services were also introduced on various Railways. Against 92 new trains on the Broad Gauge in 1957-58, 52 Broad Gauge trains were introduced upto 1st December, 1958 in the current year, while the run of 36 trains was extended, as against 16 trains in 1957-58.

Besides these, 28 electric suburban trains were also introduced on Eastern Railway upto 1st December, 1958, and the run of 8 trains was extended in the current year, against 8 such new trains introduced in 1957-58.

A tri-weekly Janata Express train was introduced between Delhi and Ahmedabad on 1st October, 1958.

With all these new trains and extensions, the daily train mileage will have increased by about 15,000 miles in the two-year period 1957-58 and 1958-59.

A REVIEW 1957-58

The Railway Ministry's annual report for 1957-58, discloses that the records set up in earlier years in regard to goods and passenger traffic handled were improved upon during the year, which was the second year of the Second Five-Year Plan.

New records were set up in regard to several key operating efficiency indices relating, among other things, to better utilisation of wagons.

The traffic increases, however, did not come up to original anticipations, as there was a drop in both passenger and freight traffic in the closing months of the year.

Goods traffic during the year increased by 6.87 per cent and the number of originating passengers by 3.51 per cent over the previous year.

The freight traffic totalled 133 million tons (of which 132 million tons were lifted by the Government railways) and 44,897 million tons miles, as against 125 million tons and 40,255 million ton miles in the previous year.

The number of originating passengers rose from 1,383 million in 1956-57 to 1,431 millions in 1957-58 (Government railways 1,410 million) and passenger miles increased from 42,195 million to 43,333 million.

Wagons loaded on revenue account (excluding those loaded on account of the railways' own service needs) averaged 12,688 per day on broad gauge and 8,354 on metre gauge as against 12,168 and 7,819 respectively during the previous year, showing an increase of 4.28 per cent on broad gauge and 6.84 per cent on metre gauge.

Taking into account non-revenue loading also, an average of 14,971 and 9,330 wagons were loaded every day on the broad and metre gauges as against the corresponding figures of 14,276 (revised) and 8,671 (revised) during the previous year, registering increases of 4.87 and 7.61 per cent respectively.

Receipts and Expenses

Gross traffic receipts of Government railways during the year amounted to Rs. 379.78 crores, made up of Rs. 119.10 crores under passenger traffic and Rs. 229.68 crores under goods traffic, the balance of Rs. 31.00 crores being contributed by parcels, luggage and other miscellaneous sources of revenue. Increases were recorded under both passenger and goods earnings, the latter contributing the major portion, although not to the extent anticipated in the Budget.

The ordinary working expenses amounted to Rs. 264.18 crores. The appropriation to the Depreciation Reserve Fund was Rs. 46.23 crores. Payment to worked lines as their share of net earnings amounted to Rs. 26 lakhs.

The operating ratio was 81.21 per cent as against 79.90 per cent during the preceding year.

There were normal increases in working expenses due to factors such as the net effect of annual increments to staff, the increase in staff and coal to handle the increased volume of traffic, increase in prices particularly of coal, and increased repair and maintenance expenditure to cover the increasing volume of railway assets.

There were also special items of increase, namely an *ad hoc* increase of Rs. 5 in dearness allowance sanctioned by Government from July, 1957 to staff drawing salary up to Rs. 300 per month, special safety measures undertaken to prevent accidents as far as possible, a non-recurring item of premium paid in the purchase price for taking over the financial interests of Salem and Tanjore District Boards in certain sections of the Southern Railway etc.

After meeting all the charges including, Rs. 45 crores as appropriation to the Depreciation Reserve Fund, the net revenue for the year was Rs. 57.78 crores, out of which Rs. 44.40 crores were paid to the General Revenues as dividend under the revised convention of 1954. The net surplus for the year amounted to Rs. 13.38 crores.

The average receipt per freight ton mile was 11.4 pias as against 11.3 pias during the previous year. The average earnings per passenger mile, however, declined from 5.34 pias during 1956-57 to 5.32 pias during 1957-58.

* This is now sanctioned.

† This is now open.

OPERATING EFFICIENCY

Passenger train miles increased during the year by 2.26 per cent to 121.38 million as compared to an increase of 2.78 per cent in passenger miles. Goods train miles totalled 91.01 million, representing an increase of 5.08 per cent over the figures of the preceding year, as against an increase of 11.5 per cent in net ton miles.

During 1957-58, the index of net ton miles per wagon day rose from the previous year's record figure of 570 to 586 on the broad gauge and from 210 to 225 on the metre gauge, an increase of 2.81 and 7.14 per cent respectively, achieved as a result of steady efforts to secure better wagon loading, better wagon usage and by improving wagon availability for meeting the increasing demands on transport *inter alia* by reduction in the free time allowed for loading and unloading of wagons from 6 to 5 working hours with effect from November 1, 1956.

The percentage of wagons under or awaiting repairs in Mechanical and Transportation workshops and sick lines to the total goods stock on line improved on both broad and metre gauges from 3.79 to 3.53 and 5.02 to 3.96 respectively.

The index of net ton miles per goods locomotive day in use or on line also recorded increases of 5.32 and 6.12 per cent on the broad gauge and of 6.87 and 5.87 on the metre gauge, respectively.

The report also brings out the fact that the mileage performed daily on an average per wagon on the metre gauge increased but showed a slight decrease on the broad gauge.

The speeds of goods trains were generally affected by increased density of traffic, particularly on sections already working to full capacity and on account of extensive remodelling works undertaken on practically all the railways.

On broad gauge the speed was 9.28 miles per hour as against 9.60 in 1956-57. On the metre gauge it was 8.23 as against 8.27 in 1956-57.

The punctuality of mail and important passenger trains recorded an improvement on the metre gauge system, the percentage of trains not losing time having increased from 62.74 in 1956-57 to 75.44 in 1957-58. On the broad gauge also, there was a slight improvement from 70.79 to 70.81.

SELF-SUFFICIENCY

The year saw further progress made in the direction of self-sufficiency in rolling stock. Chittaranjan produced 164 WG locomotives, making a total of 320 locomotives since the commencement of the Second Plan and 668 since the commencement of production in November 1950.

The production of coaches at the Integral Coach Factory, Perambur (near Madras), was 222 during the year under review, making a total of 310 coaches during the Second Plan period at 322 since the commencement of production in 1956.

There has also been substantial progress in the output of wagons and coaching underframes from established wagon-builders within the country. Out of 29,834 wagons of all gauges placed on the line during the year 1957-58, 17,216 were from indigenous sources. Similarly, out of a total of 1,408 coaching vehicles only 164 vehicles were imported.

Mechanical signalling equipment is now largely made in the country and the industry has almost doubled its output in recent months.

Plans were also worked out for simultaneous development of electrical signalling equipment both in the private and public sector.

A nucleus development co-ordinating cell under the Stores Directorate in the Railway Board's office, set up in 1956 as recommended by the Railway Equipment Committee, was entrusted with the task of developing indigenous capacity for such items as are generally imported or for which sufficient capacity does not exist

in the country. Indigenous capacity was located for seven items of pressure castings and for both steam pressure gauges and vacuum gauges. Considerable developmental action was being taken to foster manufacture of miscellaneous items of equipment in the country, such as track materials, particularly production of rails and cast iron sleepers, train lighting equipment, for example dynamos, switch-gear batteries, etc., and headlights of locomotives.

CONSTRUCTION WORKS

New lines aggregating 168 miles were opened to traffic and the electrification of Howrah to Bandel and Sheoraphuli to Tarakeswar, a distance of 46 miles on the Howrah Division of the Eastern Railway, was completed and electric suburban trains were introduced on these sections. Work was also in progress in regard to the construction of about 555 miles of several other railway lines.

New lines opened were: Khandwa-Takal (Central), Hingoli-Kanhergaon (Central), Barhan-Awarah (Northern), Lado-Lekhapani (N.E.), Quilon-Kottayam (Southern), Raniwara-Abildi (Western).

Works in connection with the remodelling of a number of yards on various railways were either completed or were in progress and major doubling of lines aggregating to 167 miles were sanctioned during the year.

A total of 2,478 track miles were renewed, making a total of 4,416 since the commencement of the Second Plan period.

A large number of improvements to signalling and safety works and works in connection with line capacity were carried out. Considerable advances were also made during the year on improvements in signalling standards.

The report refers to the progress made during the year on the Ganga Bridge project at Mokam, on the new Gandak bridge for double metre gauge track, and on the preliminaries for the Brahmaputra bridge in Assam. Several bridge strengthening and protection works were also undertaken on different railways.

A special organisation was set up on each railway for making a review of bridges under a Deputy Chief Engineer. Joint committees of engineers were also formed in all the State authorities. A scheme was drawn up for enlisting the co-operation of villages in communicating timely information of abnormal occurrences such as heavy local rainfall, threatened breaches of tanks, heavy floods etc. to the nearest railway station.

About electrification, 154 stations were electrified. Electric train service started on the Howrah-Sheoraphuli and Howrah-Bandel sections in Dec. 1957.

PASSENGER AMENITIES

The provision of amenities for passengers and other railway users at stations and in trains continued to receive special attention. The expenditure on such amenities totalled Rs. 3.24 crores during 1957-58. Instructions were issued to railways to try, as an experimental measure, on one pair of long distance Janta trains a scheme for the earmarking of separate accommodation for passengers travelling over various specified distances. During the year, this facility was provided on four pairs of Janta trains on the Central, Eastern, North-Eastern, Southern and Western Railways.

A total of 1,408 new coaching vehicles were placed on the line, of which 1,091 were lower class coaches built to improve specifications. In addition, 1,101 third class coaches were fitted with fans. Sleeping accommodation in the third class was extended to six more pairs of trains.

Other amenities included the provision of camping coaches at selected stations where there are no retiring rooms, provision of electric lighting on passenger platforms, station buildings, waiting sheds, approach roads, and circulating

areas, the electrification of 154 stations, the provision of additional platforms and extensions and improvements to several others.

INVESTMENT, STORES

The total investment on all railways on March 31, 1958 amounted to Rs. 14,41.52 crores including lines under construction, of which Rs. 14,35.32 crores represented the investment on Government railways from different sources viz. capital (loan account) Rs. 12,22.44 crores, depreciation reserve fund Rs. 60.25, Development Fund Rs. 99.86 crores and railway revenues Rs. 53.24 crores. The balance of Rs. 6.20 crores was the capital raised by companies and district boards.

Total purchases by the railways during 1957-58 touched a new level of Rs. 221 crores, registering an increase of Rs. 50 crores or 29 per cent over the figure of Rs. 171 crores during 1956-57. Indigenous materials accounted for Rs. 159.48 crores. Stores worth Rs. 27.10 crores were imported direct while Rs. 36.25 crores worth of foreign stores were purchased through agents in India.

The purchase of Khadi amounted to Rs. 62 lakhs as against about Rs. 54 lakhs in the preceding year. The value of purchases of cottage and small scale industries' products was of the order of Rs. 3.58 crores.

The value of railway equipment and stores ordered by the railways during the year amounted to Rs. 292.04 crores, of which Rs. 91.57 crores worth of stores were ordered directly by the Railways and Rs. 86.79 crores worth were ordered by the Railway Board. Orders for stores valued at Rs. 81.83 crores were placed through the Ministry of Works, Housing and Supply and Rs. 31.85 crores worth of stores through other Ministries.

STAFF MATTERS

The Indian Railways are the largest single employers in the country. The total number of staff on Government railways—permanent, temporary, open line and construction was 1,111,026 on March 31, 1958, as against 1,056,692 (revised) on March 31, 1957.

Salaries including allowances, provident fund contribution and gratuity paid to the staff of the Government railways during 1957-58 totalled Rs. 172.94 crores as against Rs. 156.32 (revised figure) crores in the previous year. The increase was chiefly due to the increase in the number of staff, an *ad hoc* increase of Rs. 5 in dearness allowance to the staff drawing a basic salary upto Rs. 300 per month with effect from July 1, 1957 etc., and partly due to redistribution of posts in different grades with retrospective effect.

A pension scheme as for civil services of Government was introduced on the railways in substitution of the existing retirement benefits under the State Railway Provident Fund. In the case of Class IV employees an additional gratuity of Rs. 200 per year of qualifying service in excess of 30 years, subject to a maximum of Rs. 1,000, has also been allowed.

During the year, 15,006 quarters for various categories of staff were constructed, making a total of 24,651 from the beginning of the Plan period.

The medical organisation of the railways at the end of the year consisted of 76 well-equipped and adequately staffed hospitals and 440 dispensaries with 3,950 beds for railway employees and their families. During the year, six new health units, 407 additional indoor beds, and six mobile vans were provided.

A contribution of two rupees per employee was made from railway revenues to the Staff Benefit Fund during the year. To enhance non-official representation and power of Staff Benefit Fund committees, the composition of these committees at the headquarters of each Railway was modified and recognised unions were given representations on these committees.

Other Matters

The Railway Service Commissions at Allahabad, Bombay, Calcutta and Madras received 760,916 applications for class III posts during the year 1957-58. 323,396 applicants were called for written tests and, or interviews, held at 276 different centres throughout the country. The total number of posts filled in was 84,046.

Vigilance organisations on the railways intensified their activities during the year. As a result of departmental action, punishments were imposed in 764 cases. Arising from these 162 persons were either dismissed or removed from service.

The railways settled 489,115 claims during the year, compared to 492,962 during 1956-57. The number of claims which remained outstanding at the end of the year stood at 44,837 as against 57,096 (revised) during 1956-57, showing a decrease of 12,259 cases. The average time taken in the settlement of a claim was 49 days as against 52 days in the previous year.

The net amount paid on account of goods or parcels lost or damaged during the year was Rs. 8.27 crores against Rs. 8.33 crores in 1956-57.

The number of suits filed and those remaining at the close of the year were 38,992 and 19,617 respectively.

Relations between railway administrations and labour were generally satisfactory.

The Permanent Negotiating Machinery set up in 1952 with a view to maintaining contact with labour and resolving disputes and differences which may arise between staff and the Administrations continued to function satisfactorily during 1957-58, and dealt with a number of issues raised by organised labour. The machinery at the second and third tiers resumed functioning.

The National Railway Users' Consultative Council met once during the year and discussed a variety of important subjects. At the railway level, the Railway Users' Consultative Committees representing local interests, held in all 106 meetings.

The Kalighat Falta Railway (26.05 mile narrow gauge line) owned by a company was acquired on March 31, 1957.

The number of complaints received during the year was 41,846 as against 38,189 in 1956-57.

Theft and damage to fittings was estimated at Rs. 1,490,801 as against Rs. 1,760,855 in 1956-

57. The major item here was dynamo belt. Loss due to theft of railway property from workshops and stores was estimated at Rs. 1,78,487 as against Rs. 1,66,654 in 1956-57. Theft of property entrusted to railways for safe carriage, the number of cases was, in running trains 12,194, yard thefts 1,106 and goods shed thefts 841.

The loss on account of floods and cyclones was about Rs. 34.21 lakhs.

The number of passengers detected without tickets was for 1957-58 and 1956-57 respectively, 6,279, 507 and 7,353, 340. The amount of fare and excess charges realised was Rs. 1.43 crores and Rs. 1.58 crores.

The Central Ticket Checking Organization set up in January 1957 found that the percentage

of ticketless travel was about 4 and the consequent loss to the revenue of the order of Rs. 4.5 crores.

Special measures taken were: flying squads for surprise checks, special magistrates for summary trials, plain clothes travelling ticket examiners, improvement in booking arrangements.

The total number of persons detected travelling in women's compartment in 1956-57 was 1,813 and in 1957-58, 502.

Out of the total for 1956-57 and 1957-58, 1,801 were prosecuted. Out of these 1,796 were fined and five awarded jail sentences.

SECOND FIVE-YEAR PLAN

Rs. Crores

Head	Plan	1956-57	1957-58
Rolling stock	380	93.75	84.38
Workshop and sheds	65	3.41	4.76
Plant and Machinery	100	4.13	4.13
Track Renewals	24	19.41	33.66
Bridge works	9	0.75	3.20
Ganga Bridge	186	2.38	2.38
Line Capacity Works	25	15.80	30.09
Signalling and Safety Works	30	1.58	2.08
Electrification	50	4.08	13.78
Staff quarters and welfare	15	8.13	11.03
Passenger amenities	66	3.91	3.24
New lines and restorations	21.5	8.39	18.24
Other Structural Works	10	5.05	8.71
Investment in road services	1125.0	1.45	0.46
Total (Includes other items)		179.09	250.66

The outlay for 1958-59 was expected to be Rs. 245.25 crores; the budget provision for 1959-60 is Rs. 235 crores.

It is expected that the railways would be able to handle the Plan target of 162 million tons in 1960-61.

Upto March 1958, a total amount of Rs. 26.39 crores was withdrawn out of the 90 million dollar (Rs. 42.8 crores) loan agreed to by the World Bank on July 12, 1957. In addition, 1,340 metre gauge type wagons and 12 broad gauge diesel rail cars with spares were received from Australia under the Colombo Plan and rails, fish plates etc. and pig iron worth Rs. 4.82.65 lakhs

were received under the United States T.C.M. aid programme.

During the year, the second year of the Second Plan a sum of Rs. 250.66 crores was spent against Rs. 179.09 in the previous year. Increased operational efficiency, rehabilitation of depleted assets and modernization programme received consistent and sustained attention.

ROADS

THE position of extra-municipal roads metalled and unmetalled as on March 31, 1956 (latest available) was as follows (in miles):—

Metalled				Unmetalled	Total
Bituminous	Concrete	Water-bound macadam	Total surfaced		
23,877	2,363	90,377	121,617	195,051	316,668

The mileage of the national highways is 13,800. The four great trunk roads are 5,000 miles long.

The four great trunk roads, stretching diagonally across the country form the framework with which most of the important subsidiary roads are linked. The most famous is the ancient marching route—known as the Grand Trunk Road—which stretches right across the northern part of the country from Delhi to Calcutta; the other three connect Calcutta with Madras, Madras with Bombay and Bombay with Delhi, and the four of them together account for about 5,000 out of the 121,617 miles of surfaced roads in the country.

The national roads are not "all weather" roads according to modern standards. The Madras-Calcutta Road in particular is far from being bridged throughout its entire length. The missing bridges will not be complete till 1967.

As regards subsidiary roads, the best and most numerous are in South India. The worst served regions are Rajasthan and parts of the Punjab on the one hand, and Orissa and West Bengal on the other, the former owing to its aridity and sparse population, and the latter because of the numerous unbridged and mostly unbridgeable waterways which traverse it. In addition there are numerous other parts of the country, such as the lower Himalayas, which suffer from a dearth of communications owing to difficult terrain.

Besides surfaced roads, there is a very large mileage of "kutchas" roads amounting to approximately 195,051 miles, some of which are good for motor traffic during the dry weather. Of the total length of kutchas roads, 38,139 miles or nearly 20 per cent were constructed under the Community Project and National Extension Schemes during the First Five Year Plan ending March 1956.

The road mileage per 100,000 persons is 82, and per square mile 0.25.

TRANSPORT BODIES

The department in the Central Government which deals with the overall direction of the roads plan and co-ordination of State planning is the Roads Wing under the Ministry of Transport and Communications. The chief official is the Consulting Engineer (Road Development) who is also Joint Secretary to the Ministry of Transport and Communications.

The Roads Wing gives technical advice and arranges for the allocation of Central Road Fund reserves among the States.

An inter-State Transport Commission has been set up to develop, co-ordinate and regulate operation of motor vehicles in area or route common to two or more States. The present Chairman of the Commission is Mr. T. G. N. Ayyar, I.C.S.

For proper and planned development of transport as a whole and to ensure co-ordination between the various modes of transport on the one hand and the central and State transport policies on the other, Government of India have decided to set up three new transport bodies. They are the Transport Development Council, the Road and Inland Water Transport Advisory Committee, and the Central Transport Co-ordination Committee. These are to replace the Transport Advisory Council constituted in 1935, the Central Board of Transport and the Standing Committee of the Central Board of Transport.

The Transport Development Council will be a high-level body to advise the Government of India on all matters of policy relating to roads, road transport as well as inland water transport. The Council will also advise on problems relating to co-ordination between different forms of transport that may be referred to it by the Government of India.

The membership of this Council will be restricted to Transport Ministers of the States and Lt. Governor and Chief Commissioners of the Union Territories. From the Centre, the Ministers of Transport and Communications, Commerce and Industry and Railways, Minister of State in the Ministry of Transport and Communications, Deputy Minister of Transport and Communications and member in charge of transport in the Planning Commission will be its members.

The Union Minister of Transport and Communications will be the chairman of the Council and the Transport Secretary to the Government of India will act as its Secretary. The Council will meet at least once a year.

The Road and Inland Water Transport Advisory Committee will be set up to discuss problems relating to roads, road transport and inland water transport and to make recommendations to the Transport Development Council for final decisions. The Committee will consist of official and non-official members and the Minister of State in the Ministry of Transport and Communications will be its chairman.

The Central Transport Co-ordination Committee will be constituted in the place of the Standing Committee of the Central Board of Transport and will deal with the day-to-day transport problems confronting the different ministries of the Government of India. The Transport Secretary to the Government of India will be the chairman of this Committee.

The Government of India has also prepared a pilot scheme for setting up transport co-operative societies. To begin with, five such societies are to be set up one each in Bombay, Madras, West Bengal, Kerala and Delhi.

The objective of the scheme is twofold; to bring more vehicles on the road; and to find employment for the educated unemployed.

The co-operative societies will be under the control of the State Government. Financial assistance by way of loans will be granted to the societies by the Government of India. The cost of training of the members of the co-operative societies would also be borne by the Central Government.

The membership of the co-operative societies will be restricted to workers, like drivers, mechanics, booking clerks, depot managers, etc.

On the basis of five persons to man one vehicle, each co-operative society will have 50 members. Each member will be required to contribute Rs. 1,000 towards the capital of the society.

ROAD FUND

The first all-India move for road development came in 1928 when the Road Development Committee presided over by the late M. R. Jayakar recommended the creation of a Road Development Fund out of a two-anna share per gallon of the proceeds of the import and excise duties on motor spirit, whose unexpended

balances should not lapse at the end of the financial year. The share was later raised to two and a half annas per gallon.

Upto the end of March 1956 total receipts in the Central Road Fund since its inception were about Rs. 57.43 crores and those in the Central Road Fund Reserve since its inception were about Rs. 11 crores.

In the beginning of 1959 the annual revenue accruing to the Fund amounted to roughly Rs. 5½ crores including credits to the Special Reserve of about Rs. 1 crore per annum. For the first 15 years after its inauguration, the Central Road Fund was the main source of revenue for the construction of new roads or the improvement and modernisation of existing ones. However in the beginning of 1959 this Fund represented hardly 6 per cent of the total tax revenue from motor transport, 10 per cent of the total expenditure on original road works provided for in the Second Five Year Plan and 7 per cent of the gross expenditure on roads inclusive of the maintenance cost of the road system.

On the administrative side roads except for the small mileage of National Highways described later are a State subject and may be divided into two main classes, State Roads under the Public Works Department and Local Roads in charge of local bodies.

NAGPUR PLAN

Following persistent representations from the Indian Roads and Transport Development Association of Bombay, the need for a more adequate programme of road development than could be carried out from the Central Road Fund was accepted by the Government of India in 1943.

In December 1943 the Chief Engineers of the various States met in conference at Nagpur and evolved a road plan based on the minimum needs of the country. Adopting as their objective the very modest proposition that no village in a well-developed agricultural area should remain more than 5 miles from a metalled road, the Chief Engineers recommended the increase of Indian Union's road mileage from 220,000 to 331,000 of which 123,000 miles would be metalled.

The net increase in road mileage under this Plan, now known as the Nagpur Plan works out at 50 per cent.

Five-year programmes for commencement from April 1947 and representing varying proportions of the Nagpur scheme were prepared by the States for their respective areas as part of their post-war reconstruction programmes.

These Programmes, exclusive of National Highways were estimated to cost nearly Rs. 120 crores over a five-year period, and were intended to embrace the construction or improvement of 80,000 miles of roads as under:

State & District Roads.

Mileage improvement	33,393
Mileage, new construction	17,509

Village Roads.

New construction & improvement ..	30,098
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Progress in the implementation of this post-war reconstruction Plan was however most disappointing.

During the eight years ending March 1951, India's road mileage increased by just 28,599 miles or roughly 13 per cent. Thus at the beginning of the First Five Year Plan, India had 248,509 miles of roads, of which 97,546 miles were metalled and the remaining 150,963 miles unmetalled.

FIRST FIVE YEAR PLAN

A provision of Rs. 156 crores was made for road development during the First Five Year Plan period ending March 1956. Physical achievements during the 5-year period consist of 24,071 miles of new metalled roads, and 44,088 miles of new unmetalled roads, making 68,159 miles of new roads in all. In addition 17,311 miles of existing roads were also improved to better standards. Of the new roads, 23,900 miles were constructed by Public Works Departments or Local Boards, while 44,259 miles were constructed by Community Project and N.E.S. Administrations.

At the beginning of the Five Year Plan, the mileages remaining to be constructed, in order to reach the targets of the Nagpur Road Plan, were 25,454 miles of metalled roads and 57,037 miles unmetalled roads, making a total of 82,491 miles in all.

SECOND FIVE YEAR PLAN

The provision for road development in the Second Five Year Plan is Rs. 269 crores, against Rs. 156 crores in the First Plan. Details are as under:—

(Rs. in Crores)

	2nd 5-Year Plan April 1956 to March 1961	1st 5-Year Plan April 1951 to March 1956
National Highways ..	55	27.00
State Roads financed by the Union Government ..	9	4.24
Central Aid for roads of inter-State or economic importance ..	18	10.00
State Roads ..	162	89.75
Central Road Fund ..	25	25.00
Total ..	269	155.99

During the Second Plan it is expected that 22,000 miles of metalled roads and 40,000 miles of unmetalled roads will be added to the road system, thereby completing the Nagpur Plan in terms of total mileages, taking India as a whole but the actual position will be that a few areas will have road systems slightly larger than the minimum size laid down in the Nagpur Plan while many other areas will still be short of the Nagpur targets. Moreover at the end of the Second Plan there will be hundreds of unbridged river crossings whose number, on National Highways alone, will be 56.

Progress of road development in the first three years of the Second Plan, i.e. from April 1956 to March 1959 is lagging behind schedule except in Assam, Bombay, Kerala, U.P. and Bengal. Consequently the expenditure in these three years is estimated at no more than Rs. 140 crores against a targeted expenditure of Rs. 269 crores for the whole of the Second Five Year Plan.

NATIONAL HIGHWAYS

The Central Government, as part of their contribution towards post-war development accepted liability for the construction and maintenance of the National Highways with effect from 1st April 1947.

On 1st April, 1947 the total length of the roads provisionally accepted as national highways was 13,400 miles. Subsequent on partition and the integration of the former princely states with the Indian Union the total length of these roads increased to about 13,800 miles. On the 1st of April 1947 the selected national highway routes had approximately 1,600 miles of missing road links and thousands of missing culverts and bridges out of which about 150 were bridges on large rivers. In addition, about 9,000 miles of these roads had low-grade surface.

During the 5 years ending March 1956, 636 miles of missing links and a large number of culverts and bridges including 30 major bridges were constructed, about 4,000 miles of existing sections improved and provided with one lane asphalted carriageway, and about 400 miles of the improved sections made fit for two-lane traffic.

About 1,200 miles of missing links and new diversions (including 614 miles in progress at the end of the First Plan period) were proposed to be taken in hand under the Second Plan. Out of these 1,200 miles, about 900 miles are expected to be constructed during the Second Plan period. The balance of work will be carried over to the Third Plan period. With the con-

struction of 900 miles of new lengths in the national highways system, the actual length of National Highways will rise from 12,900 miles as at the end of the First Plan period to 13,800 miles by the end of the Second Plan period. That is to say, all missing road links in the national highway system are expected to be constructed by the end of the Second Plan period.

Besides the construction of the missing links, it is proposed to take in hand during the Second Plan period the construction of 116 major bridges (including 42 bridges in progress at the end of the First Plan), the improvement and asphalted of 4,700 miles of existing sections (including 3,000 miles in progress at the end of the First Plan) and the widening of 3,300 miles (including 300 miles in progress at the end of the First Plan) of the improved sections of National Highways to two-lane carriageway. It is expected that during the Second Plan period, 60 major bridges will be completed and 1,500 miles of improved sections widened to two-lane carriageway. Work on the improvement and asphalted of 4,700 miles of existing sections of National Highways is expected to be completed during the Second Plan period.

NEW ROAD PLAN

Now that the Nagpur Road Plan of 1943 is nearing completion a new assessment of India's needs for the next 20 years has been undertaken by the Chief Engineers at the instance of the Government of India and a new Road Plan has been prepared for execution during the 20-year period from 1961 to 1981.

The broad outline of the plan is to raise the mileage of roads from 3.79 lakhs in 1961 to 6.57 lakhs by 1981 with provision for two lane carriage-ways on National Highways. The Plan aims at doubling the intensity of roads from 0.26 to 0.52 per square mile of territory. When the plan is completed the average distance from a village in an agricultural area to a metalled road will be reduced from five to three miles and the distance to an unmetalled road will be reduced from two to 1½ miles.

There is also a provision to have 1,000 miles of Expressways with limited access and also grade separation at most of the crossings.

The cost of this scheme is estimated at Rs. 4,700 crores and it is recommended should be split up between four 5-year periods as under:—

1961-62 to 1965-66 ..	Rs. 470 crores
1966-67 to 1970-71 ..	Rs. 940 "
1971-72 to 1975-76 ..	Rs. 1,410 "
1976-77 to 1980-81 ..	Rs. 1,880 "

MILEAGE OF EXTRA-MUNICIPAL ROADS IN INDIA AS ON 31st MARCH 1956.

(Including Community Project & N.E.S. Roads).

States*	Black topped	Concrete	Water-bound macadam	Total surfaced	Unsurfaced	Total
Andhra ..	1,162	146	11,879	13,187	4,119	17,306
Assam ..	1,210	1	270	1,481	14,854	16,335
Bihar ..	3,374	12	1,370	4,756	31,844	36,600
Bombay ..	1,676	796	12,119	14,591	12,415	27,006
Madhya Pradesh ..	1,062	1	7,220	8,283	6,289	14,572
Madras ..	4,732	222	13,138	18,092	10,528	28,620
Orissa ..	572	..	2,661	3,233	8,079	11,312
Punjab ..	3,036	2	630	3,668	9,719	13,387
Uttar Pradesh ..	3,195	537	7,940	11,672	34,481	46,153
West Bengal ..	2,460	154	2,116	4,730	22,152	26,882
Hyderabad ..	208	62	5,712	5,982	2,658	8,635
Jammu & Kashmir ..	439	..	680	1,119	1,429	2,548
Madhya Bharat ..	550	25	4,458	5,033	675	5,708
Mysore ..	1,294	164	8,378	9,836	4,314	14,150
PEPSU ..	815	1	94	910	1,114	2,024
Rajasthan ..	1,725	22	3,611	5,358	11,775	17,133
Saurashtra ..	84	165	2,257	2,506	2,521	5,027
Travancore-Cochin ..	105	45	2,854	3,004	4,451	7,455
Ajmer ..	176	..	231	407	522	929
Bhopal ..	128	..	528	656	1,571	2,227
Coorg ..	151	..	391	542	2,153	2,695
Delhi ..	268	5	37	310	146	456
Himachal Pradesh ..	61	..	147	208	3,988	4,196
Kutch ..	39	..	238	277	399	676
Manipur ..	207	..	46	253	501	754
Tripura ..	18	..	134	152	533	685
Vindhya Pradesh ..	130	3	1,238	1,371	1,828	3,197
Total ..	28,877	2,363	90,377	121,617	195,051	316,668

* Prior to re-organization.

REVENUE FROM MOTOR TRANSPORT

In 1957-58 the expenditure on roads, it is estimated, amounted to Rs. 80 crores made up of Rs. 55 crores on construction works and

Rs. 25 crores on road maintenance. The Governments at the Centre and in the States realized in the year an amount of Rs. 89 crores from motor transport, as under :—

	Revenue, approx. 1957-58 (Rs. in Crores)
Central Revenue.	
Motor Spirit and Diesel Oil Duties	34.40
Tyre Excise and Import Duties	6.90
Vehicle Parts Imports Duties	15.16
	<hr/> 56.46
State Revenue.	
Vehicle Taxes and Petrol Sales Taxes, etc.	32.98
	<hr/> 89.44

MOTOR VEHICLES

The number of motor vehicles in use in India in March 1957 was 459,447. In terms of the population of the country, this represents 89 vehicles per lakh of inhabitants.

The 459,447 vehicles operating in India in March 1957 were distributed among the various States as shown in the table on next page.

STATEMENT SHOWING THE NUMBER OF MOTOR VEHICLES ON THE ROAD IN INDIA ON 1st APRIL 1957.

Name of State	Motor Cycles	Auto-Rickshaws	Jeeps	Private Motor Cars	Motor Cabs	Other Public Service Vehicles	Goods Vehicles	Miscellaneous vehicles††	Total
Assam	588	..	..	5,648*	248	1,056	5,158	3,407	16,103
Andhra**	1,469	..	599	5,142	117	2,654	4,297	1,072	15,350
Bihar	2,080	..	..	8,160*	519	1,685	5,549	488	18,481
Bombay	11,749	919	2,324	54,298	5,349	2,799	27,411	4,911	1,09,760
Kerala	351	7	91	3,925	65	452	2,714	1,790	9,395
Madhya Pradesh	1,492	61	1,465	7,032	169	2,419	7,534	1,886	22,058
Madras	4,405	464	415	21,747	950	4,353	8,158	554	41,046
Mysore	2,072	218	492	6,889	449	1,140	7,203	1,997	20,460
Orissa	1,034	1	1,310	2,961	42	1,928	3,478	357	10,411
Punjab	2,062	27	566	3,337	271	2,323	4,317	1,289	14,192
Rajasthan	1,222	..	..	7,691	85	2,809	4,970	2,171†	18,948
Uttar Pradesh	4,371	2	2,174	12,579	539	5,446	10,649	1,439	37,199
West Bengal	7,695	..	4,445	50,492	3,962	3,670	23,553	4,463	98,280
Jammu and Kashmir	126	..	198	696	109	640	1,974	15	3,758
Himachal Pradesh	22	..	75	209	33	111	351	22	823
Delhi	5,058	1,116	224	9,737	1,474	874	2,725	15	21,223
Manipur	41	..	148	40	8	32	488	88	840
Tripura	13	..	187	86	27	173	332	72	890
Andaman and Nicobar Islands	31	..	16	16	11	6	92	56	230
Total	45,879	2,815	14,729	2,00,687	14,422	33,870	1,20,953	26,092	4,59,447

* Including Jeeps.

** Excluding Telangana area.

†† Auto rickshaws included in miscellaneous vehicles.

† Includes 357 private buses and 1,564 tractors.

NATIONALISED TRANSPORT

Programmes for nationalisation of road transport have occupied a prominent place in the plans of State Governments from 1946 onwards. In April 1951 nationalised bus services had a total fleet of about 8,000 vehicles. By the end of the First Five Year Plan, i.e., in March 1956, the total number of such vehicles increased to approximately 11,000 representing about 27 per cent of the passenger services in the country and 2 per cent of freight transport.

Nationalised bus services are estimated to cover in 1958 the whole of Bombay State and Himachal Pradesh as they existed prior to the States' re-organisation.

No nationalisation has taken place in Tripura but in the remaining parts of the country the extent to which services have been nationalised varies from one State to another, some having started only experimental nationalisation while in others anything up to half of the bus services are under State ownership.

Uttar Pradesh, which, next to Bombay, has the largest nationalised fleet, operates buses on half the mileage of metalled roads of the State, spread over, more or less uniformly, from one end of the State to the other. Nationalised buses in U.P. represent a little over one-third of the total number of buses in operation. Next in importance is the area covered by the old Hyderabad State where roughly half the bus routes were operated by the nationalised services. In Travancore-Cochin, now part of Kerala, arterial routes covering a mileage of 700, out of 4,500 miles of motorable roads in Travancore and Cochin were operated by State buses. In Madras, nationalisation is confined to the limits of Madras City. Likewise West Bengal has nationalised transport in and around the city of Calcutta in addition to the Cooch Behar area. In Bihar, State services operate in areas around Patna, Jamahadpur, Gaya, Ranchi, Monghyr and Bhagalpur. In Orissa they are operated around Puri, Bhubanashwar, Balasore, Berhampur and Koraput. Similarly in Punjab, Jullundur, Ambala and Amritsar are centres of nationalised

services. In addition to the City of Delhi nationalisation has also taken place in parts of Assam, Madhya Pradesh, Rajasthan and Mysore.

Freight transport is operated by certain State Transport organisations such as those in Assam, Bombay, Uttar Pradesh, Jammu & Kashmir and Himachal Pradesh. While these freight lorries as a rule operate on charter basis or on scheduled parcel services without monopoly, the State Transport in Assam has a monopoly of the truck traffic on 68 miles of roads and the entire goods traffic in Himachal Pradesh is a State monopoly.

Expansion of nationalisation during the Second Plan period ending March 1961 will be confined to passenger services. The allocations in the Second Plan will permit of the number of nationalised vehicles being increased from 11,000 to 16,000. Of the additional 5,000 vehicles, 781 are expected to go to Bombay, 753 to West Bengal, 460 to Travancore-Cochin (now Kerala), 430 to Bihar, 334 to Delhi, 278 to Orissa, 237 to Assam and 101 to Uttar Pradesh.

INLAND WATER-WAYS

IN pre-railway days inland navigation played an important role in the transport system of the country. The decline began with the construction of railways in 1855. While the railways received every assistance the water transport was allowed to languish.

Part of the reason for the decline was that large volumes of water were drained off for irrigation thus helping to depress the level of the water. This happened more particularly on the Ganga.

Inland water transport has remained essentially within the sphere of State control. To some extent this is inevitable. Short distance waterway cannot be usefully controlled by a Central authority.

But the position of water-ways traversing more than one State or connecting economically important regions with major ports appears to be different. The State Governments may not have the necessary resources for development. Whether inland water transport can compete with other quicker modes of transport is doubtful. But there are regions such as Assam, for example, where the economy depends to a great extent on water transport. There are also areas where water transport can help relieve congestion in rail transport.

It has come to be recognised that the most rational way to deal with a river is to treat it as a unit from the source to the mouth irrespective of administrative boundaries. Also the utilisation of the water resources of a river should, as far as possible, be on a multi-purpose basis.

Some canals constructed for irrigation have included provision for navigation.

The present constitution, therefore, provides for control by the Central Government of navigation on inter-State rivers and national water-ways. Besides, the Central Water and Power Commission has assisted in the co-ordinated multi-purpose development of the water resources of the country.

The Inland Steam Vessels Act of 1947 was amended in 1951 so that now there is compulsory registration of all inland steam vessels.

Government set up the Ganga-Brahmaputra Water Transport Board in 1952 which co-ordinates and stimulates the navigational activities of the States of U. P., Bihar, West Bengal and Assam.

The whole problem of the development of inland water transport is now under examination by an Enquiry Committee under the chairmanship of Mr. B. K. Gokhale, I.C.S. (Retd.)

Looking back on the state of navigation on the main rivers about a hundred years ago, it is noticed that large steamers plied on the Brahmaputra upto Dibrugarh; on the Ganga as far as Gurmukteshwar, over 700 miles above Patna; and Kanpur, *en route*, presented the appearance of a large port; on the Yamuna as far as Agra; and on the Ghagra, only 30 years ago, a regular service was maintained upto Ayodhya, 200 miles upstream of its confluence with the River Ganga.

Today long stretches of rivers formerly navigable have become shallow and are not used for navigation. Navigation can be restored only by deepening the channel or by using craft specially designed for shallow waters.

PRESENT POSITION

At present steamers ply regularly on the Brahmaputra river upto Desangmukh but on the Ganga as far as Patna only with feeder services upto Buxar on the Ganga and Barhaj on the Ghagra.

There are other parts of the country where canal navigation is still active. In Andhra and Madras States for instance, the Godavari Canals, including the Dummaguda Canal, the Kistna Canals, the Buckingham Canal and the Vedaranyam Canals are important highways for water-borne traffic.

The Godavari and Kistna Delta canals in Andhra are indeed an important means of transport in that region and afford a cheap and ready mode of access to all markets.

The Buckingham Canal in Madras has played an important part in the trade of the country traversed by it, and in particular during the last war when the traffic was heavy it afforded appreciable relief to the railways.

On the west coast in Kerala the backwaters form the chief means of communication and transport.

In Orissa, too, there are some 200 miles of navigable canals in use.

Then there are the important water-ways of West Bengal, comprising besides the delta river system, also the canals around Calcutta.

The records of imports and exports into and from Calcutta show the extent to which the largest seaport in India depends upon its waterway communications. Post-partition figures show that 12 per cent of the trade of the port arrives and leaves by water-ways.

By far the greater proportion of the water-borne traffic of the country is carried by the unorganised country-boats. Reliable figures are not available as to the total ton-miles of traffic thus moved.

It has been estimated, however, that this would amount to only about one per cent of the total railway traffic of the country.

The approximate length of navigable waterways at present in India is as follows:—Uttar Pradesh 745 miles; Bihar, 715 miles; West Bengal, 777 miles; Assam, 920 miles; Orissa, 287 miles; Madras and Andhra, 1,700 miles; Total, 5,144 miles.

The above mileages are approximate and take into account only the main water-ways navigable by steamers and large country-boats. They do not include the numerous tidal creeks on the coasts which are not connected to an inland water-ways system.

Out of 5,144 miles of navigable water-ways 1,762 miles are navigated by steamers, details of which are given below:—

	Miles
River Ganga—Patna to Lalgaola (Border)	315
Patna to Buxar (Feeder service)	100
River Ghagra—Confluence Ganga/Ghagra to Barhaj	97
River Hooghly—Calcutta to Sundarbans (Border)	150
River Brahmaputra—Dibrugarh to Dhubri (Border)	400
(Feeder services on tributaries)	375
(Feeder service in Surma Valley)	85
River Bhagirathi—Calcutta to Ganga River (during rains only)	180
River Brahmaputra—Dibrugarh to Sadiya (during rains only)	60
Total	1,762

FUTURE

1. Uttar Pradesh: (a) Revival of navigation of the Ganga river, Patna-Buxar-Allahabad. (b) Revival of navigation on the Ghagra river upto Bahram Ghat.

2. Bihar: (a) Navigation on the Kosi river is included in the programme of the Kosi Dam Project. (b) Development of navigation on the Gandak river. (c) Development of navigation on the Son river, feasible with the construction of the Rihand Dam.

3. West Bengal: (a) The construction of a navigation canal from Durgapur to the Hooghly river to connect the coal-fields in West Bengal and Bihar with the port of Calcutta, is included in the programme of the Damodar Valley Project. (b) Resuscitation of the Bhagirathi route affording a direct and much shorter navigation connection from the port of Calcutta to Bihar and U.P.

Work on (a) is in progress.

4. Orissa: (a) Resuscitation of the Orissa coast canal to restore the connection between the Hooghly and Dhamra rivers. (b) The

Mahanadi Valley Project makes provision for the development of navigation on the Mahanadi river upto Hirakud dam, about 300 miles from the sea.

5. Assam: The various tributaries of the Brahmaputra offer considerable scope for development of navigation.

6. Madhya Pradesh: Provision for navigation of the Narmada river is aimed at in the investigations in progress on the Narmada Valley projects.

7. Bombay: The construction of dams on the Narmada and Tapi rivers will provide navigational facilities on these rivers. The Kakrapar dam will help provide navigation in the surrounding area.

8. Andhra: Development of the Kistna, and Godavari rivers could also provide navigational facilities.

A priority list has been drawn up in accordance with which it is proposed to develop navigation. In the first stage it is proposed to extend navigation on the Ganga river above Patna as far as Allahabad.

An Inland Water Transport expert, Mr. J. J. Surie of Holland who visited India, inspected the waterways of the Ganga, Ghagra and Brahmaputra rivers, suggested a shallow-craft push two pilot projects comprising a fleet of two 250 B.H.P. tugs and eight 100-ton barges. On the basis of his recommendations, further surveys were undertaken at the instance of the Ganga-Brahmaputra Water Transport Board by the Central Water and Power Commission on the Ganga and Ghagra rivers. He also prepared the designs. Orders for the craft have been placed and on their procurement the project will be started. The cost of the craft is about Rs. 26 lakhs. This is being met out of a special grant given by the Government of India.

Mr. Surie had also recommended two other projects *etc.*, a project for the development of shallow draught navigation with smaller craft on the feeder rivers of the Brahmaputra and of a diesel operated ferry vessel on the Brahmaputra. These have been included in the scheme of financial assistance agreed to by the Planning Commission during the Second Five-Year Plan period.

Surveys are now in progress for drawing up specifications of the craft required for the Assam Feeder river project. The specifications for the diesel ferry vessel across the Brahmaputra have been finalised.

In addition to these two projects, it is proposed to execute development works to the extent of Rs. 150-22 lakhs in the Ganga-Brahmaputra region as a part of the Second Plan. These include dredging of important waterways, provision of aids to navigation such as radio telephony and automatic beacons, and the development of inland port facilities at selected places such as Gauhati, Pandu, Dhubri, Karimganj, Patna and Manihari.

Survey work at Pandu is finished. A scheme has been prepared for building a modern port there for inland craft. The scheme is likely to be implemented in stages.

Arrangements are also being made to provide automatic beacons on the Sundarbans.

The Ganga-Brahmaputra Water Transport Board has to meet a recurring expenditure of about Rs. 50 lakhs during the five-year period.

For South India, the following schemes have been selected for investigation and provision as shown against each has been made in the Second Five-Year Plan:—

Development of the Buckingham Canal including the linking up of the canal with the Madras Harbour Rs. 115 lakhs.

Development of West Coast Canals Rs. 43 lakhs.

Investigations relating to the first project are in progress.

OVERSEAS COMMUNICATIONS SERVICE

Allotment under the Second Five-Year Plan
... Rs. 2 crores.

Overseas Communications Service is a State activity working directly under the Ministry of Communications and Transport on commercial lines, with the Head Office at Bombay. Its functions are provision, operation and development of all facilities for communication between India and the outside world.

The chief administrative head of the Service is the Director General, Overseas Communications Service.

The Service has two main branches, viz. Traffic and Engineering. The Traffic branch is under the control of the Dy Director General (Traffic) and the engineering branch is under the control of the Chief Engineer.

The Overseas Communications Service has four gateway centres for handling international communications. The Bombay Centre has its transmitting station at Kirkee, receiving station at Dhond and the Central Traffic Office at Bombay. The transmitting and receiving stations as well as the Central Traffic Office are inter-linked by wired wireless circuits.

Calcutta centre has its transmitting and receiving stations at Halishahar and Hatikanda about 30 and 36 miles respectively from the main Traffic Office at Dalhousie Square, Calcutta. This centre was inaugurated on 30th December 1955.

Delhi Centre has its main transmitting station at Kalkaji and receiving station at Chattarpur connected to the Traffic Office at Connaught Circus, New Delhi. This centre was inaugurated as a permanent centre on 6th February 1958.

Madras is a cable station but it will soon have a radio centre with its transmitting station at Korattur and receiving station at Padlanellur connected to the Central Traffic Office in the General Post Office buildings, Madras.

The following radio services are now operated by India :—

	Date of Inauguration
1. India-United Kingdom Wireless Telegraph Service	23-7-27
2. India-United Kingdom Radio-Telephone Service	1-5-33
3. India-Australia Wireless Telegraph Service	14-1-42
4. India-China Wireless Telegraph Service	25-2-42
5. India-United States of America Wireless Telegraph Service (via Mackay)	15-8-44
6. Delhi-London Wireless Telegraph Service	29-8-44
7. India-United Kingdom Radio-Photo Service	29-4-48
8. India-United States Radio-Photo Service	29-4-48
9. India-Afghanistan Wireless Telegraph Service	12-1-50
10. India-Japan Wireless Telegraph Service	17-8-50
11. India-Indonesia Radio-Telephone Service	2-10-50
12. India-Indonesia Wireless Telegraph Service	1-2-51
13. India-Thailand Wireless Telegraph Service	15-3-51
14. India-Russia Wireless Telegraph Service	18-6-51
15. India-Egypt Radio-Telephone Service	2-7-51
16. India-United States of America Wireless Telegraph Service (via R(CA))	2-7-51
17. India-Iran Radio-Telephone Service	1-3-52
18. India-Japan Radio-Telephone Service	14-8-52

	Date of Inauguration
19. Calcutta-London Wireless Telegraph Service	12-3-53
20. India-East Africa Radio-Telephone Service	18-8-53
21. India-Hongkong Radio-Telephone Service	23-12-53
22. India-Switzerland Radio-Telephone Service	1-3-54
23. India-Bahrain Radio-Telephone Service	15-5-54
24. India-Malaya Radio-Telephone Service	16-6-54
25. India-Aden Radio-Telephone Service	15-10-54
26. India-Saigon Wireless Telegraph Service	18-10-54
27. India-China Radio-Photo Service	19-10-54
28. Delhi-Peking Wireless Telegraph Service	3-1-55
29. India-China Radio-Telephone Service	2-3-55
30. India-London Radio-Photo Service	2-3-55
31. India-Burma Radio-Telephone Service	24-2-55
32. India-Russia Radio-Telephone Service	4-6-55
33. India-Russia Radio-Photo Service	8-6-55
34. India-Poland Wireless Telegraph Service	21-6-55
35. India-Poland Radio-Telephone Service	22-6-55
36. India-Yugoslavia Wireless Telegraph Service	30-6-55
37. India-Burma Wireless Telegraph Service	15-8-55
38. Calcutta-London Radio-Telephone Service	30-12-55
39. Calcutta-Saigon Radio-Telephone Service	12-1-56
40. India-Japan Radio-Photo Service	25-1-56
41. India-Iran Wireless Telegraph Service	16-2-56
42. India-Australia Radio-Telephone Service	19-7-56
43. India-Hanoi Wireless Telegraph Service	2-9-56
44. India-France Wireless Telegraph Service	25-10-56
45. Delhi-France Radio-Telephone Service	25-10-56
46. Delhi-London Radio-Telephone Service	26-10-56
47. India-Egypt Wireless Telegraph Service	5-11-56
48. India-Ethiopia Radio-Telephone Service	25-11-56
49. India-France Radio-Photo Service	3-12-56
50. India-Poland Radio-Photo Service	27-3-57
51. India-Saudi Arabia Radio-Telephone Service	30-3-57
52. India-Italy Wireless Telegraph Service	6-2-58
53. Delhi-Italy Radio-Telephone Service	6-2-58
54. Calcutta-Germany Radio-Telephone Service	20-2-58

DIRECT RADIO-TELEGRAPH SERVICES

The following links are in operation :

(a) Bombay-London ; (b) Delhi-London ; (c) Bombay-Shanghai ; (d) Bombay-New York ; (e) Bombay-Melbourne ; (f) Bombay-Tokyo ; (g) Delhi-Moscow ; (h) Bombay-Kabul ; (i) Bombay-Djakarta ; (j) Bombay-Bangkok ; (k) Calcutta-London ; (l) Bombay-Saigon ; (m) Delhi-Peking ; (n) Bombay-Warraw ; (o) Bombay-Belgrade ; (p) Calcutta-Hanoi ; (q) Bombay-Teheran ; (r) Bombay-Hanoi ; (s) Delhi-Paris ; (t) Bombay-Egypt ; (u) Bombay-Italy ; (v) Bombay-Hamburg.

Services to other countries are provided through the international trunk routes via London.

DIRECT RADIO-TELEPHONE SERVICES

India today operates twenty-four direct services :

(a) Bombay-London ; through London calls are extended to the following countries : Algeria, Argentina, Asmara, Austria, Barbados, Belgium, Bermuda, Brazil, Canada, Ceuta, Cuba, Czechoslovakia, Denmark, Doha, Finland, Germany, Gibraltar, Goose Bay Labrador (Canada), Greece, Guatemala, Honduras, Hungary, Iceland, Israel, Italy, Kuwait, Lebanon, Luxembourg, Mexico, Morocco, Muscat, Netherlands, Newfoundland, New Zealand, Nicaragua, Norway, Panama, Rhodesia, Saar, Spain, South Africa, South Ireland, South West Africa, Sudan, Sweden, Tangier, Tunisia, United States of America, Vatican City.

Via London to the following Ocean Liners :

America, Athlone Castle, Capetown Castle, Caronia, Corinthia, Constitution, Edinburgh Castle, Empress of England, Empress of Britain, Eastriver, Israel, Ivernia, Independence, Maadani, Mauretania, Nevada, Nieuw Amsterdam, Olympia Elir, Orion, Orcares, Oronsay, Orsova, Oxfordshire, Oslofjord, Pretoria Castle, Queen of Bermuda, Queen Elizabeth, Queen Mary, Reina Del Mar, Rijndam, Stirling Castle, Sylvania, Saxonia, Zion.

Via Berne to Yugoslavia.

Via Bahrain to Muscat, Doha and Kuwait.

Via Egypt to Sudan.

Via Australia to New Zealand.

Via Ethiopia to Asmara.

(b) Bombay-Djakarta ; (c) Bombay-Cairo ; (d) Bombay-Teheran ; (e) Bombay-Tokyo ; (f) Bombay-Nairobi ; (g) Bombay-Hongkong ; (h) Bombay-Berne ; (i) Bombay-Bahrain ; (j) Bombay-Singapore ; (k) Bombay-Aden ; (l) Delhi-Shanghai ; (m) Bombay-Rangoon ; (n) Delhi-Moscow ; (o) Delhi-Warraw ; (p) Bombay-Belgrade ; (q) Calcutta-Saigon ; (r) Calcutta-Sydney ; (s) Delhi-Paris ; (t) Delhi-London ; (u) Bombay-Jedda ; (v) Bombay-Ethiopia ; (w) Bombay-Rome and (x) Calcutta-Germany.

These Radiophone facilities are also used for inter-continental interviews, discussions and programme material for purposes of re-broadcast both in India and abroad.

OVERSEAS RADIO-PHOTO SERVICE

This service enables signalling by radio a manuscript, photograph, drawing—in fact anything that is in black and white on paper and reproduction as a photo replica of the original.

The following circuits are now in operation :

(a) Bombay-London, is also extended to : Australia, South Africa, Canada, Egypt, Finland, Norway, Sweden, Belgium, Portugal, Greece, Denmark, Germany, Italy, Czechoslovakia, Ghana.

(b) Bombay-New York, and via New York to San Francisco. The service is regularly used by the business interests for the exchange of balance sheets, specifications and drawings of machinery, etc.

(c) Delhi-Shanghai	19-10-54
(d) Delhi-London	2-3-55
(e) Delhi-Moscow	8-6-55
(f) Bombay-Tokyo	25-1-56
(g) Delhi-France	3-12-56
(h) Delhi-Poland	27-3-57
(i) Calcutta-Hamburg	14-10-58

OVERSEAS SUBMARINE CABLE SERVICE

The cable chains are :—

(a) Bombay—Aden—Alexandria—Malta—Gibraltar—London.

(b) Bombay—Aden—Mombasa—Zanzibar—Seychelles.

(c) Madras—Penang—Singapore—East Asia.

These submarine cables provide many complementary services thus providing telegraph service to other parts of the world.

MULTI-ADDRESS BROADCASTS

Overseas Communications Service handles news transmissions on behalf of the Government of India to consular posts abroad. The transmissions from New Delhi are picked up by the following consular posts in Asia, Europe, Australia and America: Khatmandu, Rangoon, Singapore, Djakarta, Bagdad, Teheran, Ankara, Paris, Cairo, London, Brussels, Rome, Berns, Prague, Moscow, The Hague, Bonn, Tokyo, Canberra, Peking, and Nairobi.

Transmissions are also made on behalf of certain Press Agencies to different areas.

CONFERENCE CALL FACILITIES

Facilities exist for "Conference Call" to be handled between the U.K., U.S.A. and India. This permits a calling party in India to converse simultaneously with upto five telephone subscribers in the U.K. and U.S.A. These calls are popular with users who desire to hold telephonic conference between parties situated far apart.

LEASED CHANNELS

A novel service, viz Leased Circuits are also now in operation and four of the most important Airlines in the world viz. B O A C, P A.A., A.I.I. and T.W A. avail of this facility.

FIVE-YEAR PLANS

The First Five-Year Plan allocated one crore of rupees for development.

The plan covered modernising and expanding the existing Bombay and Delhi radio centres and opening similar centres at Calcutta and Madras

The Second Five-Year Plan has, with an allocation of two crores of rupees, the following long range objectives in view:—

(1) to provide expanding facilities of direct communications with more foreign centres commensurate with the growing needs of the country;

(2) to provide improved grade and standard of service—greater mechanisation and improved modern techniques;

(3) to provide more powerful service for Multi-Address Broadcasts for Government and Press; and

The table below shows the revised estimates for 1957-58 and the budget estimates for 1958-59 on the expense side.

	Revised Estimate 1957-58	Budget Estimate 1958-59
	Rs.	Rs.
Pay of officers	5,57,000	5,90,000
Pay of establishments	21,82,000	23,85,000
Allowances, honoraria, etc.	21,42,000	20,68,000
Other charges	13,61,000	15,50,000
Interest on capital (Charged)	6,07,000	7,00,000
Depreciation (Voted)	9,30,500	10,80,000
Payments to other Government Departments, etc.	40,31,200	37,80,000
Charges in England	1,17,000	1,06,000
Lump provision for D A. under the interim report of the Pay Commission	70,000	1,17,000
Total	1,19,99,000	1,23,76,000
Capital Budget	21,35,000	25,00,000

(4) to provide leased channels to private agencies and teleprinter-call service to big business houses and for the press.

BUDGETS

The revenue for the year 1958-59 was estimated at Rs. 157.30 lakhs.

Budget estimates for 1959-60: Revenue expenditure Rs 136.85 lakhs; capital expenditure Rs. 40 lakhs.

The profit of the O.C.S. for the year 1957-58 was 43.74 lakhs, i.e., 23.15 per cent of Government capital.

BROADCASTING

ALL-INDIA Radio now has 30 stations, 32 studio centres, 28 receiving centres and 52 transmitters in all.

The network now covers nearly two-thirds of the country.

Short-wave transmitters are due to be added to medium-wave transmitters at a number of stations.

Thus, Bhopal, Lucknow and Hyderabad are to be provided with a 10 K/w short-wave transmitter each, Ranchi and Dharwar will have a 2 K/w transmitter each, and Srinagar and Jammu 7.5 and 1 K/w transmitters each.

Tape recorders, both portable and stationary have been added to station equipment, and greater use is being made of taped programmes to ensure better production.

Orders for 119 tape recorders (50 portable and 69 tape decks) have already been placed.

Equipment worth Rs 50 lakhs under the Colombo Plan was received and almost all of it was put into use during the year.

It consisted mainly of short and medium wave transmitters.

Experimental TV casts were begun in Delhi although listeners are not yet in a position to take advantage of it.

On Republic Day, that is 26th Jan., 1959, the television equipment on loan with AIR was put to a test when the Republic Day parade was televised.

About a dozen sets were installed in the bigger hospitals and girls' colleges of Delhi.

An experimental unit is expected to operate some time towards the middle of 1959 an educational programme in pursuance of a UNESCO scheme.

But at present AIR has neither the staff nor any plans for a regular television service.

An officer has been deputed to London to be trained in the technique of TV production.

All India Radio has now a multi-storied building next to Akashvani Bhavan where many offices of All India Radio are now housed.

The head of AIR is the Director-General, All-India Radio, whose office is located in Broadcasting House, Parliament Street, New Delhi.

Other officers at headquarters are: Chief Engineer, Deputy Directors-General, Deputy Chief Engineer, Director of Programmes, Director of Programme Planning, Director of Listener Research, Deputy Director of Administration and Assistant Directors of Administration.

AIR stations transmit for about five to ten hours a day.

This is generally split up into three transmissions, morning, afternoon and evening.

Programmes are planned by Station Directors with the assistance of the Programme Executives and Programme Assistants. Details are worked out well in advance of their scheduled dates and are published in the journals of All-India Radio.

Broadcasting House.—Probably the largest centre of broadcasting activity in the East, Broadcasting House, New Delhi, was completed

in 1943. Architecturally, it is one of Delhi's newest and most striking sights. It represents from the point of view of equipment, the latest practice in radio engineering.

Research and Maintenance Departments.—These two departments are located in New Delhi.

The Research Department deals with all technical problems concerning reception and transmission. Special studies are undertaken on ionospheric data and forecasting transmission conditions, field strengths of short and medium wave stations, atmospheric noise levels prevalent in various parts of India, studio and recording characteristics and development of cheap receivers.

The Department also maintains a field station at Todapur near Delhi where the frequencies of All-India Radio Stations are constantly checked.

The Maintenance Department handles problems which arise in the upkeep and day-to-day operation of the engineering equipment used by All-India Radio in addition to maintaining Central Stores Depot.

Publications.—AIR has programme journals for home services as also for External Services.

Akashvani (English), *Awas* (Urdu), *Sarang* (Hindi), *Betar Jagat* (Bengali), *Vani* (Telugu), *Vanot* (Tamil), and *Nabhasani* (Gujarati) are for home services.

Only the *Akashvani* is issued weekly, while the rest are fortnightly publications, with a large list of regular subscribers.

† This was inaugurated on January 5, 1959.

For the External Services, *India Calling*, with two versions, the Eastern and the Western, is supplemented by Arabic, Burmese, Chinese and Persian editions.

As the copyright of all the material that is broadcast—talks and discussions—is vested in the Government of India, it was decided to make use of the vast reading matter by issuing *AIR Selections* (English) and *Prasarika* (Hindi), periodically.

The experiment proved a success and a scheme for publishing AIR Selections quarterly in 8 more languages—publication of *Prasarika* in those languages has been put into operation.

Monitoring.—The Monitoring Service (Simla) keeps a round-the-clock watch on transmissions from all the main broadcasting systems of the world, monitors news and commentaries and selected talks transmitted from those stations in English, in Indian languages and in some foreign languages, from 30 different countries.

Listener Research.—The primary purpose of Listener Research is to determine the listening habits and programme preferences of radio listeners by ascertaining from time to time their reactions to items broadcast.

For this purpose, contact with listeners is maintained through their letters, press reactions, field surveys and questionnaire studies of listeners' preferences and reactions to programme broadcast.

A preference survey was carried out in 1957 by handing out a questionnaire to licence-holders when they applied for the renewal of their licences.

Nearly 50,000 persons replied and these replies are now being scrutinised. A listening survey was also carried out in six small towns, each with a population of 10,000 to 15,000.

Advisory Committees, established at the Broadcasting Stations in consultation with the State Governments, keep the Director-General, All-India Radio, in touch with local public opinion in programme construction and advise him on such matters.

PROGRAMMES

Women's Programmes.—These are in the regional language and are broadcast from almost all the stations.

Children's Programmes.—Wherever possible the children are divided into two or three age groups. The programme is conducted or compered by an elderly character known to the children. Another elderly person usually a woman is used to assist the comper.

These are generally broadcast twice a week.

Fables, stories from classics and musical items, form the content of the programmes, and listeners are encouraged to participate.

In the rural broadcasts there is a children's day once a week.

School Broadcasts.—The school broadcasts are meant to supplement the regular curriculum of the school.

The students are divided into two or three age groups.

History, geography and general science are the subjects generally covered.

There are Educational Committees to advise the Station Director on the composition of the programme for the academic term, and these are announced in pamphlets for each term.

Occasionally students from a particular class are taken to the radio station to give a performance.

The idea is that students should listen to the broadcasts while at school in the company of their teachers.

The total number of schools equipped with receiving sets on 31st October 1957 was 9,608. See table below.

Industrial Broadcasts.—Stations in such industrial towns like Bombay, Calcutta, Lucknow, Madras, Ahmedabad put out suitable programmes in the language of the local working class.

The programme contains dialogues, features and news reviews, all relating to workers and their organisations.

For recreation devotional music and popular songs are used.

Labour Welfare Centres are encouraged to participate in the programme.

Rural Broadcasts.—While the provision of programmes is a Central responsibility, the supply of listening sets to the rural population is the responsibility of State Governments.

Supplementary or spare time occupations are suggested, and information is given on items like improved seed, new implements, sowing, crop and cattle pests and their remedies, and market rates of current agricultural produce.

Weather bulletins during the monsoon are a regular feature of the composite programme.

The Union Government has put into operation a scheme for popularising community listening by subsidising State Governments for the purchase of receiving sets. The aim is to provide each village with a population of 1,000 or above, with at least one set.

The subsidy is 50 per cent of the cost of sets and its immediate acceptance is reflected in the rapid rise in the number of community receiving sets.

As part of the scheme, Government has standardised the community receiver set with the help of the radio industry and the Indian Standards Institution. It has been possible to produce such sets for Rs. 120 each and with larger bulk orders the price may go down still further.

Figures for community receiving sets in the rural and urban areas are usually given in the Union Government's official Report.

No such figures however are available for 1957-58. The Report only mentions that "25,036 community receiving sets were supplied (under the Central Government Subsidy scheme) till March 1957 to various States for installation in rural areas, and arrangements were made for the supply of 11,166 receivers complete with auxiliaries during 1957-58."

Another official announcement tells of a scheme for extending community listening in the backward areas of certain States. The initial cost of the sets is to be borne by the Ministry of Information and Broadcasting, the Home Ministry and the State Government in the ratio of 50 : 25 : 25.

Rs. 15 lakhs have been provided in the budget for the two schemes for subsidized receiving sets.

The position as in October 1956 is given in the table below :

Community Listening Sets Oct. 1956

School Licences	State†	Community Licences
594	Andhra	1,614
89	Assam*	188
1,043	Bihar	1,042
778	Bombay	1,833
38	Saurashtra	294
27	Kutch	85
295	Central Circle	1,304
125	Delhi*	58
443	Hyderabad	507
1,180	Madras	2,958
89	Mysore	465
249	Travancore	343
38	Coorg	25
170	Orissa*	278
1,046	Punjab	2,664
307	Rajasthan	84
989	Uttar Pradesh*	4,955
399	West Bengal	1,289
7,820		19,466

* These States are unaffected by the re-organization of States in Nov. 1956.

† Before the reorganization in November 1956.

Note : Assam includes Manipur, Tripura and NEFA. The Central Circle includes Madhya

Pradesh, Vindhya Pradesh areas. Punjab includes P&P&U, Bilaspur, Kashmir and Himachal Pradesh areas. Rajasthan includes Madhya Bharat, Ajmer and Bhopal areas.

By Dec. 1958, 41,627 sets were supplied to State Governments on a 50 per cent subsidy basis.

Broadcasts in Naga Dialects.—The special conditions prevailing in the north-eastern frontier area make it essential to undertake broadcasting in 23 tribal dialects.

Gauhati station in that region has had to be provided with short wave transmitters. Already items in Garo and Khasi-Jaintia dialects are being put out. Other dialects prevalent in the Naga Hills and the adjoining regions, about 15 in number, are also used for broadcast from Gauhati.

Forum Forums.—AIR conducted a unique experiment in Bombay with the co-operation of many institutions and expert knowledge from the various departments. The project was financed by UNESCO to the tune of \$19,000 (about Rs. 80,000).

The project covered Community Project Areas in Kolhapur, Karjat, Mandangad, Ahmednagar, Nasik, Poona, Satara and Thana, comprising in all 150 listening centres.

A series of 20 programmes of 45 minutes each was broadcast from Poona and relayed on Bombay B. As the entire area happens to be Marathi speaking, the programme was in Marathi and contained dramatized stories, panel discussions, talks and interviews, recorded or live programme by members of forums, and five minutes summary of the consequences of the discussion held by the forum.

Participation by the members of the forums was an ingredient of programme.

Very greatly encouraged by the results of the UNESCO pilot project carried out in 150 villages AIR has now decided to continue the scheme, in the same area with the co-operation from the Government of Bombay.

The duration of the rural programmes has already been extended to one hour in all places.

Hindi Lessons.—For popularising Hindi in non-Hindi-speaking regions, All-India Radio devotes 15 minutes a day, five days per week, to impart instruction through the regional languages.

Anniversary Programmes.—Anniversaries of national leaders and of great musicians are now celebrated on a national scale.

National Programmes.—The Saturday National Programmes lasting ninety minutes have been quite popular. It is generally so planned that Northern and Southern (Karnatic) music alternate every Saturday. Arrangements are being made to have this item originate at other places. At present most of the Saturday concerts originate from Delhi and all stations relay them.

Talks.—Important topics of a national character are dealt with by an accepted authority in a nation-wide broadcast on Wednesdays at 8.30 p.m.

Plays, Operas.—On alternate Thursdays, a national programme of plays or operas is arranged in such a way that all stations have the same item, in their respective languages, prepared from one single script. The literature of one region is thus made available to all the other parts of the country at the same time.

Development Projects, Factories.—In order to make the country plan-minded, a feature on some of the bigger national projects like Bhakra-Nangal, is arranged once a month, and it is put out on the air simultaneously from all the stations, the script with actual effects having been supplied from Delhi.

Gandhi Prayers & Memories.—Mahatma Gandhi has his own way of saying prayers and those prayers are broadcast from all stations on Friday mornings. Also the reminiscences of men and women who had known him, immediately after the prayers.

Film Music.—AIR is now in a position to play film music which is quite popular. In the new Variety Programme (Vividh Bharati), nearly two hours are devoted to film music daily, and Radio Kashmir has on an average an hour of film music every day.

Inter-linking of Stations.—The inter-linking of the regional stations is being tried as this makes it easy to maintain a uniformity of programmes, and also provide common listening when a first-rate performance is scheduled. Thus on Wednesdays, musical concerts are arranged from one of the stations in the Western Region and other stations relay it.

Madras and Trichy, for example form a unit for Tamil programmes, and Madras, Vijayawada and Hyderabad for Telugu. For music however, all these stations as also Trichur, Kozhikode-Trivandrum, Bangalore and Dharwar form a larger unit.

Fraser Geet & Sugam Sangit.—In order to provide all stations with standardised light and popular music, All-India Radio organised its own units in different regions for the production of songs. A processing plant capable of producing many discs for its own use in the first instance and for selling them to outside agencies on the lines of the BBC's Transcription Service, has been set up.

Orchestral Music.—All India Radio also established an Orchestral Unit (Vadya-Vrinda) with two wings—one for the North Indian and the other for Karnatic music—for composing orchestral music, using mainly Indian instruments, though the violin, the double-bass and the clarinet were included among Indian instruments. So far over 110 compositions have been finalised and recorded for use when required.

In addition to the elaborations of the Indian *Ragas* and *Raginis*, thematic compositions have been set to instrumental music. The themes of course are classical like the *Meghadoota*, or historical like Asoka's Conquest of the Kalingas. *Jwalamukhi* and *Haryash* are also some of the modern themes chosen for presentation.

Such orchestral music being new to India, the general acceptance of these compositions can by its very nature be a slow process.

Transcription Service.—The plant produced 165 matrices and 5,900 discs as against 45 matrices and 2,100 discs in 1956. The discs of *Sugam Sangit* and *Fraser Geet* are being supplied to all stations. Indian missions abroad required about 740 discs of important items.

Experiments in the production of long-playing records are being carried out.

Voices Recordings.—AIR already has a unique collection of Mahatma Gandhi's prayer-speeches—(51 hrs.). Similar recordings of the Prime Minister's speeches are also preserved. The voices of Tagore, Sarojini Naidu, Srinivasa Sastri, C. F. Andrews, and Nanha Lal D. Kavi have been acquired for preservation.

In the field of music, recordings of *Aftab-e-Mausam* Ustad Fayyaz Khan (of Baroda) extending to over 20 hours, have been obtained.

Vividh Bharati.—This all-entertainment programme, broadcast on short-wave 100 K/W transmitters, from Madras and Bombay simultaneously, was introduced in October 1957. It quickly gained in popularity and is therefore being relayed by some of the stations on medium wave as well.

Special items for South Indian listeners are broadcast daily for two hours in the afternoon from Madras. The letters received about request programme for Vividh Bharati, reached a figure of 500 a day even before the programme completed one year of its service.

A unique feature of this new programme in which all the stations of All India Radio now contribute by sending choice items from their artists on tapes, was the building up of an elaborate library of tapes, light and classical music, both vocal and instrumental,

folk-songs, devotional music, skits, dialogues recitations of modern poetry, songs of regional groups in many languages.

The library which was originally situated in Bombay has now been moved to Delhi.

Competitions.—In its ceaseless effort to find new talent, All-India Radio holds many competitions every year. They are for music, light and classical, vocal and instrumental, northern and southern (Karnatak) styles. The first round of these is held Station-wise and the All-India round takes place in Delhi.

Radio Sanget Sammelan has indeed become a regular annual feature of All India Radio. It consists of a series of concerts before invited audiences arranged in Delhi, Bombay and Madras, and the programme is relayed by all stations.

The fourth Sammelan took place in October 1957 and the fifth in October 1958.

A side-light of the Sammelan is the music competition meant to discover latent talent among younger artistes. Musicians vocal and instrumental between the ages 16 and 21 are invited to participate. The preliminary screening takes place at the respective stations within whose jurisdiction they come, and the final tests are held for Northern music at Delhi and for Karnatic music at Madras.

In all 1,081 candidates participated in 1957 out of whom 684 were selected for the finals in Delhi and Madras respectively.

The competition for plays is language-wise. Prizes in cash are awarded to the first three numbers.

Patel Lectures.—This is an annual feature. The first series of lectures was given by Mr. C. Rajagopalachari in 1955 on the good administrator. The second series was delivered by Dr. K. S. Krishnan in 1956.

The third series was delivered by Dr. J. B. S. Haldane in 1957 on the unity and diversity of life. The fourth was by Dr. Zakir Hussain on educational reconstruction.

In appreciation of the services to All India Radio rendered by the late Mr. P. M. Lad, Secretary to the Ministry of Information and Broadcasting, Lad Memorial Lectures, on a literary question were instituted on the first anniversary of his death—March 1958.

For the first series, literature connected with Marathi saints was the topic selected and eminent scholars were invited to address seen and unseen audiences on the subjects of their study.

Programme Libraries.—At the headquarters of All India Radio, New Delhi three important libraries have been built: (i) Recordings on tape and disc; (ii) Scripts of important programmes from all stations, and (iii) Tape recordings of entertainment programme items contributed by all stations of AIR.

The library of recordings has two sections: internal and external. In the internal section, recordings of all programme items are kept for possible use by other stations. For the other section, recordings have been contributed by various co-operating radio organisations outside India, on an exchange basis. Thus recordings from Damascus, Copenhagen, Kabul, Ottawa, Singapore, Geneva, Tokyo and the U.S.A., have been received while Indian recordings have been sent to many countries for their respective broadcasting organisations. Recordings mostly in demand are of Indian national anthem, orchestral and choral, besides folk music and classical instrumental recitals.

The third library is made up of Vividh Bharati, the light variety programme of All India Radio, broadcast simultaneously from Bombay and Madras on short-wave.

Other Features. Some other features are Tamil by radio from Delhi, Lucknow and Allahabad; radio news-reels called *Dheval Chitra* featuring events and news of a regional character from

Bombay, Poona, Nagpur, Ahmedabad, Baroda and Rajkot. There are also local weather bulletins at the end of the day's transmission.

Special Staff.—In addition to the regular grant for broadcasting made by Parliament, a lump sum is provided every year, to be spent at the discretion of the Minister. It is generally utilised in making certain direct appointments of expert staff without having to go through the Union Public Service Commission. For 1954-55 and 1955-56, such grant amounted to Rs. 6 lakhs and Rs. 10 lakhs respectively.

New staff in charge of the production of special programme has been engaged at almost all the stations on a contract basis. Drawn from the literary or musical world, these officers have helped improve the quality of broadcasting. There are officers in charge of music, both light and classical, and they compose songs for the production of *Sugam Sangit* and *Fraser Geet*.

Others look after the spoken word (i.e. talks and discussions) while a separate officer is in charge of feature productions.

Women officers have been appointed to look after women's and children's programmes at almost all the stations.

NEWS SERVICES

The News Services Division now broadcasts 76 bulletins in 23 Indian and foreign languages. 30 of these bulletins are broadcast in the External Services while 46 bulletins are broadcast in the Home Services, the total transmission time being 14 hours and 34 minutes.

The languages used in the Home Services are: Assamese, Bengali, English, Gujarati, Hindi, Kanarese, Kashmiri, Malayalam, Marathi, Oriya, Punjabi, Sanskrit, Tamil, Telugu, Urdu, Konkani and about 20 other dialects.

All the news bulletins are prepared in the News Service Division and broadcast from the transmitters at Delhi set apart for news.

Each regional station relays the bulletins suitable for its listening areas.

News Reels.—Radio news reels of 10 mts. each on the line of the BBC's radio news reels, have been introduced from Delhi in English and Hindi twice a week.

Regional News.—Centralised news from Delhi does not meet the requirements of the listeners adequately. In an effort to broadcast only news of All-India importance from Delhi, items of local interest are dropped. The State legislatures and other local institutions require to be covered for news. Some of the larger stations, capitals of States, now devote ten minutes a day for covering regional news in languages other than English. The timings however are late in the afternoon.

A few minutes are set apart at each station for local announcements. This period accommodates news of purely local interest.

External Services.—That the External Services serve a useful purpose can be seen from the fact that nearly 10,000 copies of *India Calling* (English) are distributed among listeners.

The Pushtu programme bulletin called *d' Hind-Awas* is at present cyclostyled.

Sixteen languages are used in these broadcasts and the daily time taken by them is (in mts.) :—Arabic 90; Burmese 55; Chinese 75; English 380; French 45; Indonesian 45; Persian 75; Portuguese 30; Pushtu 60; Swahili 35; Tibetan 30.

Among the Indian languages are: Gujarati 55; Hindi 145; Konkani 60; Tamil 60.

Thus daily 20 hrs. and 10 mts. are required for these broadcasts, arranged at times suitable to the region to which they are directed, keeping the Indian population there in touch with the mother country.

In relation to time these broadcasts are composed of 25 per cent news, 33 Indian music, 3 Western music, 12 talks-discussions, 3 drama, 8 programme publicity, 21 Koran and other religious items.

AIR STATIONS

At present (1959 January) there are 30 broadcasting stations

LIST OF ALL-INDIA RADIO STATIONS

	Wavelengths & Frequencies	
	in M	in Kc/s per second
Ahmedabad Baroda	352 9	850
Ajmer	500	600
Allahabad	306 1	980
Bangalore	491 8	610
Bhopal†		
Bombay	A 243 9*	1 230
	B 545 5	550
Calcutta*	A 447 3	670
	B 300 0	1,000
Cuttack	310 9	965
Delhi*	A 338 6	886
	B 280 4	1,070
Dharwar	220 6	1,360
Gauhati*	384 6	780
Hyderabad*	405 4	740
Indore	461 5	650
Jaipur	267 9	1,120
Jammu	303 0	990
Jullundur	422 5	710
Kochikode	441 2	680
Lucknow*	394 7	760
Madras	A 319 1	940
	B 211 3*	1,420
Nagpur	508 5	590
Patna	488 9	620
Poona	375	800
Rajkot	329 7	910
Ranchi†		
Simla†		
Srinagar*	201 3	1,490
Tiruchi	389 6	770
Trichur	517 2	580
Trivandrum	454 5	660
Vijayawada	357 1	840

* Also on short wave Wavelength varies according to the season and the part of the day

† Only short wave for the time being Opened in April 1959.

LICENCES

Broadcast receiver licences are issued at all head and sub-post offices at a fee of fifteen rupees per year, and cover the use of receiving sets throughout India.

Broadcast Receiver Licences are issued to Municipalities or other public bodies for the reproduction of broadcast programmes in public places by the Postmaster-General of the State

A licence issued for this purpose covers the use of one wireless receiver only

A separate Broadcast Receiver Licence is, however, necessary in the case of clubs, institutions, messes, etc., for reproducing broadcast programmes at dances, concerts, bazaars, etc., to which the public are admitted.

Broadcast receiver licences have to be renewed at the beginning of every year, as they are valid only upto the end of December. But the rush during January for renewals in the bigger towns particularly is so great that many licence-holders renew their licences as early as November.

It is necessary to explain here that the Post Office issues every quarter monthly figures of licences giving first the new licences issued, then the licences renewed, and last the total licences in force at the end of the month.

The table of figures therefore makes an odd impression when the monthly figures are placed in juxtaposition as below

	New	Renewals	In force Total
1955 Dec	12,627	2,574	947,353
1956 Jan	21,397	619,432	789,891
1956 Dec	17,653	3 570	1,075,909
1957 Jan	28,786	657,419	871,750
1957 Dec	19,463	12,553	1,230,814
1958 Jan	34,988	767,539	972,505

The annual figures of domestic broadcast receiver licences as at the end of each year are given below

Year	Licences	Year	Licences	Year	Licences
1939	82,772	1946	232,368	1953	769,505*
1940	119,417	1947	247,100	1954	885,248
1941	147,121	1948	286,046	1955	947,353
1942	165,675	1949	369,278	1956	1,075,909
1943	176,061	1950	507,324	1957	1,230,814
1944	193,585	1951	635,026		
1945	202,829	1952	694,560*		

* A mistake in calculation was noticed by Director General, All-India Radio and the figures were corrected in a press-note as 473,759 and 587,169 for 1952 and 1953 respectively. In subsequent years, this correction does not seem to have been effected. The figures therefore are "official"

The following table shows the number and the value of radio sets imported into India over a number of years.—

Year	Number	Value in Rs. lakhs
1943-44	5,384	6 53
1944-45	895	1 51
1945-46	5,982	7 04
1946-47	107,114	169 58
1947-48	192,172	286 40
1948-49	42,202	76 59
1949-50	43,555	71 66
1950-51	16,012	25 44
1951-52	29,121	52 64
1952-53	19 286	36 09
1953-54	13,042	23 45
1954-55	4,515	11 20
1955-56	6,258	17 67
1956 (Apr to Dec)	4,393	12 01
1957 (Calendar)	21,813	11 26

RADIO SETS ASSEMBLED IN INDIA 1951-57

In 1957, there were 17 assembling units with a capacity of 240,600 sets. The actual production was 190,692.

The following table shows the trend of production —

Year	Sets
1951	82,788
1952	71,496
1953	56,288
1954	56,404
1955	81 241
1956	150,600
1957	190,692

MAJOR ITEMS OF EXPENDITURE ALL-INDIA RADIO)

(1951-1957)

(In thousands of rupees)

	Estimates	
	1955-56	1956-57
Total Broadcasting	31,000	32,000
Broadcasting Stations	19,675	21,112
High Power Transmitters	781	784
News Division	1,976	2,119
External Services	1,395	1,545

THE PRESS

THE second Annual Report of the Press Registrar covering the period, January 1 to December 31, 1957, was placed on the table of the Lok Sabha on 9th September, 1958 by the Minister for Information and Broadcasting, Dr. B. V. Keskar.

Though the total number of newspapers in the country was 5,932, details about circulation are available only in respect of 2,843 papers and revised figures for 1956 in respect of 3,050 papers. There were about 165 correspondents in March 1959, accredited to the Government.

CIRCULATION

Taking the total circulation of papers for which data were thus available (i.e. the 2,843 mentioned above), there was an increase of 2.8 per cent in the combined circulation of papers of different categories.

The increase in circulation was highest (84.6 per cent) in the case of fortnightly. Dailies recorded an increase of 8.3 per cent and weeklies of 1.1 per cent.

There was a decline of 41 per cent in the circulation of monthlies.

There was an increase of 0.9 per cent in the circulation of English papers. Hindi papers showed a decline of 8.8 per cent.

Among newspapers of other languages, the following registered an increase in circulation: Assamese (18.3 per cent), Bengali (4.4 per cent), Kannada (63.2 per cent), Oriya (7.0 per cent), Sanskrit (150.0 per cent), Telugu (28.9 per cent), Urdu (0.6 per cent).

On the other hand there was a decline in the circulation of papers of the following languages: Gujarati (12.9 per cent), Malayalam (17.7 per cent), Marathi (17.0 per cent), Punjabi (16.1 per cent) and Tamil (10.3 per cent).

The Report gives an analysis of the available circulation data according to language and periodicity.

The total circulation of 2,843 newspapers in 1957 was 113 lakhs as against 110 lakhs of the 3,050 newspapers in 1956.

Of the more important categories of newspapers, the dailies commanded a circulation of 31.49 lakhs or 27.9 per cent of the total circulation in 1957 compared to 29.08 lakhs in 1956.

The circulation of monthlies was 31.62 lakhs or 28.0 per cent, recording a considerable fall compared to 1956 when their total circulation was 34.79 lakhs.

In respect of weeklies there was a slight increase in circulation from 30.20 lakhs to 30.52 lakhs in 1957, representing 27.0 per cent of the total circulation.

There was a considerable increase in the circulation of fortnightly which rose from 7.85 lakhs in 1956 to 14.49 lakhs in 1957.

There was a decline of 3.12 lakhs in the circulation of newspapers of 'other periodicities' which dropped from 7.60 lakhs in 1956 to 4.48 lakhs in 1957.

Newspapers in English had the largest circulation, i.e., 24.97 lakhs or 22.3 per cent of the total.

Next in importance were Hindi newspapers with a circulation of 20.25 lakhs or 18.0 per cent.

Others in order of importance were Tamil (9.1 per cent); Urdu (7.0 per cent); Gujarati (6.5 per cent); Bengali (6.1 per cent); Marathi (5.9 per cent) and Telugu (5.0 per cent).

The combined circulation of Hindi and Urdu newspapers constituted one-fourth of the total circulation.

Of the total circulation of 31.49 lakhs commanded by daily newspapers, 10.05 lakhs or a little over one-third was that of English dailies.

Next in order of importance were Hindi (3.94 lakhs), Tamil (2.73 lakhs), Marathi (2.47 lakhs), Gujarati (2.26 lakhs) and Urdu (2.03 lakhs).

The circulation of Bengali, Kannada, Malayalam and Telugu dailies ranged between one and two lakhs.

The Report gives a list of 15 dailies and 16 periodicals with a circulation of over 50,000. Among them the *Indian Express* (English, four

editions), the *Thanthi* (Tamil, three editions) and *Times of India* (English, two editions) command a circulation exceeding one lakh each.

Among periodicals the *Sunday Standard* (English, four editions), *Kalyan*, a Hindi monthly from Gorakhpur and *Kumudam*, a Tamil bi-monthly from Madras, have a circulation of over one lakh each.

Dailies	Circulation.
<i>Indian Express</i> , English (Bombay 28,684; Madras 59,930; Madurai 13,986; Delhi 31,907)	132,507
<i>Thanthi</i> , Tamil (Madras 60,177; Madurai 31,378; Tiruchir 30,839)	122,394
<i>Times of India</i> , English (Bombay 91,371; Delhi 21,976)	113,347
<i>Amrita Bazar Patrika</i> , English (Calcutta 72,887; Allahabad 19,865)	92,552
<i>Statesman</i> , English (Calcutta 68,784; Delhi 17,969)	86,753
<i>Hindu</i> (including Sunday Edition), English, Madras	86,066
<i>Free Press Journal</i> , English, Bombay	84,299
<i>Dinamani</i> , Tamil (Madras 58,450; Madurai 25,121)	83,571
<i>Ananda Bazar Patrika</i> , Bengali, Calcutta	79,122
<i>Jugantar</i> , Bengali, Calcutta	76,392
<i>Nav Bharat Times</i> , Hindi (Bombay 24,996; Delhi 44,521)	69,517
<i>Mathrubhumi</i> , Malayalam, Kozhikode	61,413
<i>Hindustan Times</i> , English, Delhi	60,543
<i>Andhra Prabha</i> , Telugu, Madras	57,486
<i>Maratha</i> , Marathi, Bombay	50,106

Periodicals	Circulation.
<i>Sunday Standard</i> , English Weekly (Bombay 41,213; Madurai 14,353; Madras 62,189; Delhi 13,408)	131,163
<i>Kalyan</i> , Hindi Monthly, Gorakhpur	120,077
<i>Kumudam</i> , Tamil, Tri-monthly, Madras	117,850
<i>Ananda Vikatan</i> , Tamil Weekly, Madras	99,202
<i>Kalki</i> , Tamil Weekly, Madras	94,074
<i>Dinamani Sunday</i> , Tamil Weekly (Madras 58,450; Madurai 25,121)	83,571
<i>Shama</i> , Urdu Monthly, Delhi	65,833
<i>Sunday Lokasatta</i> , Marathi Weekly, Bombay	64,273
<i>Manohar Kahaniyan</i> , Hindi Monthly, Allahabad	60,667
<i>Illustrated Weekly of India</i> , English Weekly, Bombay	59,768
<i>Filmfare</i> , English Fortnightly, Bombay	59,702*
<i>Maya</i> , Hindi Monthly, Allahabad	58,000
<i>Andhra Prabha Sunday</i> , Telugu Weekly, Madras	57,478
<i>Cine Chitra</i> , Hindi Weekly, Calcutta	57,228
<i>Dharmayug</i> , Hindi Weekly, Bombay	55,384
<i>Bharat Jyoti</i> , English Weekly, Bombay	54,898

OWNERSHIP

The study of ownership of newspapers by the Press Registrar, based on data available in respect of 3,987 papers shows no significant shift in the general pattern of ownership as it existed in the preceding year.

The predominant form of ownership continued to be the individual owner accounting for 42.4 per cent of the total in 1957. Ownership by societies or associations including religious and co-operative societies, which constituted the next important group of owners, controlled 21.1 per cent of newspapers. Joint Stock Companies represented the ownership of 9.7 per cent newspapers. Firms and partnerships accounted for 8.7 per cent, educational institutions for 7.6 per cent and Government publications for 5.5 per cent.

There are nine Chains, 119 Groups and 23 Multiple Units in the country. Eleven out of the 23 Multiple Units form part of the Chains.

Although the nine Chains taken together control about one per cent of the total number

of newspapers in the country, they command about 17 per cent of the total circulation (copies sold and distributed free).

The 119 Groups, on the other hand, control 5.3 per cent of the total number of newspapers and command 20 per cent of the total circulation.

Of the nine Chains, the largest commands a circulation of 7.62 lakhs, another a circulation of over three lakhs, while four others have a circulation of over one lakh each.

Out of the 119 Groups, only six command a circulation of over one lakh each, the highest being 1.79 lakhs. Five other Groups command a circulation of over 50,000 each, nine a circulation of over 20,000 each, while the remaining 99 Groups command a circulation of less than 20,000 each.

Between them the nine Chains comprise 63 newspapers (42 dailies, 19 weeklies and one fortnightly and one monthly and command a circulation of 1,868,547.

The largest Chain, both in respect of papers controlled by it and the circulation, is the *Express Newspapers Ltd.*, which controls 19 newspapers (eight dailies and 11 weeklies) with a total circulation of 761,897.

The 42 dailies controlled by Chains command one-third of the total circulation of the 282 dailies for which circulation figures are available.

The 119 Groups comprise 316 newspapers, 85 dailies, 60 weeklies, 16 fortnightly, 140 monthlies and 15 newspapers of other periodicities. Their combined total circulation is 2,220,614. The total actual figures may, however, be higher as it has not been possible to get the circulation figures of 96 constituent units of these Groups.

The 23 Multiple Units comprise 60 newspapers and command a circulation of 11.18 lakhs.

In addition to the above, some religious organisations publish a number of newspapers and periodicals from one centre or more. These are classified as Special Groups. There are eight such groups in the country, publishing in all 48 newspapers in different languages.

The Salvation Army publishes ten journals in English, Marathi, Gujarati, Telugu and Malayalam, the Ambala Church Council of the United Church of Northern India, eight in Hindi, Punjabi and English, the Shri Ramakrishna Math, four in English, Tamil and Telugu, the Christian Literature Society for India, nine in Tamil and Telugu, the Religious Trustees of the Society of Jesus, five in English and Hindi; the Tirunelveli Diocesan Press, six in Tamil; the Theosophical Society of Madras, three in English and Tamil and the Apostolic Seminary of Alwaye, three in Malayalam.

The Central and State Governments between them publish 297 papers. Of these 149 are published by the Central Government and 148 by State Governments. Among the Central Government publications 17 have a circulation ranging from 5,000 to 46,000.

In the States there are six publications with circulation ranging from 5,000 to 23,000.

There are 41 publications issued by the Embassies, High Commissions, etc. of different foreign countries in India. Of these 29 are periodicals and 15 news bulletins issued mainly for the use of the Press. Among the publications of foreign Embassies, for which figures are available, the 'American Reporter', published in five languages, has a circulation of 207,086 and the 'Soviet Land', published in 12 languages, a circulation of 185,575. 'China Today', published by the Chinese Embassy in two languages has a circulation of 5,756.

BASIC FACTS

The total number of newspapers in the country on December 31, 1957 as shown by the Press Registrar's records, was 5,932.

In addition, there were supposed to be in existence another 971 newspapers about which no particulars were available nor was it possible to verify whether they had ceased publication.

During the year under review 800 new newspapers came into existence and 175 ceased publication.

* This is an obvious error in the Registrar's Report. The average net sales July-December 1957 : 1,25,909.

Of all the newspapers and periodicals published in the country, monthlies were the most numerous (2,351), followed by weeklies (1,589), fortnightlies (517) and dailies (446).

More than one-fourth (117) of the country's dailies were published in Bombay State, Uttar Pradesh and Mysore came next with 53 and 43 respectively.

The largest number of newspapers was published in English (20.0 per cent) followed by Hindi (19.0 per cent), Urdu (8.7 per cent), Bengali (6.9 per cent), Gujarati (6.3 per cent), Marathi (5.4 per cent) and Tamil (4.5 per cent). The percentage of newspapers in other languages was below 4 per cent each. Hindi newspapers were published from all the States except Orissa and the Union Territories of Manipur and Tripura.

Of the papers that commenced publication during 1957 the largest number was in English (193), Hindi coming next with 108. Among the newspapers of different languages there were 35 dailies, 148 weeklies, 95 fortnightlies, 330 monthlies and 84 quarterlies.

Intimation about the cessation of 175 newspapers was received by the Press Registrar. Of these 37 were in Hindi, 32 in Urdu and 25 in English. 30 were Assamese, Kannada or Sanskrit

newspaper ceased publication while the smallest (during the year was that of Malayalam, Oriya number of newspapers that ceased publication) and Punjabi.

The table no. 1 shows the number of newspapers in existence in each State on December 31, 1957:

States	No. of Newspapers
Andhra Pradesh	260
Assam	33
Bihar	181
Bombay	1,197
Kerala	237
Madhya Pradesh	185
Madras	577
Mysore	308
Orissa	123
Punjab	455
Rajasthan	159
Uttar Pradesh	732
West Bengal	829
Delhi	617
Himachal Pradesh	4
Manipur	23
Tripura	12
TOTAL	5,932

TABLE 2. DISTRIBUTION OF NEWSPAPERS ACCORDING TO STATE AND PERIODICITY (DECEMBER 31, 1957)

State/Union Territory	Daily	Tri-Weekly	Bi-Weekly	Weekly	Fortnightly	Monthly	Quarterly	Other Periodicities	Grand Total
Andhra Pradesh	16	—	5	76	20	115	6	22	260
Assam	3	—	—	15	5	7	1	2	33
Bihar	10	—	—	60	18	58	13	27	181
Bombay	117	1	8	327	148	492	58	51	1,197
Kerala	28	—	—	43	8	116	13	29	237
Madhya Pradesh	33	—	4	67	18	55	8	5	185
Madras	27	1	3	105	56	269	51	65	577
Mysore	43	—	6	117	17	107	7	11	308
Orissa	5	—	—	13	5	32	16	52	123
Punjab	30	1	3	129	27	157	51	57	455
Rajasthan	16	—	3	73	12	47	1	7	159
Uttar Pradesh	53	1	10	273	54	277	23	41	732
West Bengal	33	1	2	173	74	305	102	139	829
Delhi	28	8	4	111	61	311	49	45	617
Himachal Pradesh	—	—	—	—	2	2	—	—	4
Manipur	3	—	—	—	—	5	—	15	23
Tripura	1	—	—	7	2	1	1	—	12
TOTAL	446	13	48	1,589	517	2,351	400	568	5,932

TABLE 3. LANGUAGE-WISE DISTRIBUTION (DECEMBER 31, 1957)

State/Union Territory	English	Hindi	Assamese	Bengali	Gujarati	Kannada	Malayalam	Marathi	Oriya
Andhra Pradesh	22	7	—	—	—	1	—	4	—
Assam	5	1	11	12	—	—	—	—	—
Bihar	36	93	—	3	—	—	—	—	—
Bombay	241	74	—	1	367	4	1	306	—
Kerala	24	1	—	—	—	1	128	—	—
Madhya Pradesh	5	151	—	—	1	—	—	—	—
Madras	177	5	—	—	1	4	7	1	—
Mysore	41	5	—	—	—	208	—	6	—
Orissa	13	—	—	—	—	—	—	—	51
Punjab	54	43	—	—	—	—	—	—	—
Rajasthan	4	116	—	1	—	—	—	—	—
Uttar Pradesh	68	452	—	2	1	—	—	—	—
West Bengal	226	61	—	380	2	—	—	1	7
Delhi	273	114	—	4	2	2	3	3	1
Himachal Pradesh	—	4	—	—	—	—	—	—	—
Manipur	—	—	—	—	—	—	—	—	—
Tripura	—	—	—	12	—	—	—	—	—
TOTAL	1,188	1,127	11	415	374	220	139	321	59
Percentage Distribution ..	(20.0)	(19.0)	(0.2)	(6.9)	(6.3)	(3.7)	(2.4)	(5.4)	(1.0)

TABLE 3. DISTRIBUTION OF NEWSPAPERS ACCORDING TO STATE AND LANGUAGE (DECEMBER 31, 1967)—(Contd.)

State/Union Territory	Punjabi	Sanskrit	Tamil	Telugu	Urdu	Bi-lingual	Multi-lingual	Others	Total
Andhra Pradesh	—	—	—	145	27	36	18	—	260
Assam	—	—	—	—	—	2	—	2	33
Bihar	—	—	—	—	13	8	23	6	181
Bombay	1	1	4	1	37	97	37	25	1,197
Kerala	—	1	1	—	—	57	24	—	237
Madhya Pradesh	—	—	—	—	12	13	1	2	185
Madras	—	1	260	43	6	49	23	—	577
Mysore	—	—	—	1	11	23	9	4	308
Orissa	—	—	—	1	—	18	40	—	123
Punjab	95	—	—	—	130	46	87	—	455
Rajasthan	—	1	—	—	—	22	7	8	159
Uttar Pradesh	4	2	—	—	131	58	11	3	732
West Bengal	2	2	—	1	14	90	34	9	829
Delhi	10	—	4	4	132	38	18	9	617
Himachal Pradesh	—	—	—	—	—	—	—	—	4
Manipur	—	—	—	—	—	2	13	—	23
Tripura	—	—	—	—	—	—	—	—	12
TOTAL	112	8	269	196	513	559	345	76	5,932
Percentage Distribution ..	(1.9)	(0.2)	(4.5)	(3.3)	(8.7)	(9.4)	(5.8)	(1.3)	(100.0)

TABLE 4. LANGUAGE AND PERIODICITY-WISE DISTRIBUTION ON DECEMBER 31, 1967

Language	Daily	Tri-Weekly	Bi-Weekly	Weekly	Fortnightly	Monthly	Quarterly	Other Periodicities	Grand Total
English	64	1	5	180	89	527	190	132	1,168
Hindi	105	2	10	398	105	460	28	19	1,127
Assamese	1	—	—	5	2	3	—	—	11
Bengali	7	2	2	125	47	166	37	29	415
Gujarati	38	1	4	104	58	161	7	6	374
Kannada	34	—	3	87	16	72	5	3	220
Malayalam	19	—	1	24	4	83	3	5	139
Marathi	41	2	5	126	26	107	5	9	321
Oriya	4	—	—	12	7	29	3	4	59
Punjabi	13	—	1	40	2	53	2	1	112
Sanskrit	—	—	—	3	—	4	1	—	8
Tamil	17	—	2	58	38	140	7	7	269
Telugu	7	1	2	57	27	99	2	1	196
Urdu	59	3	9	200	42	189	6	5	513
Bi-lingual	26	—	4	129	42	178	51	129	559
Multi-lingual	7	1	—	19	8	43	50	217	345
Others	9	—	—	21	4	38	3	1	76
TOTAL	446	13	48	1,588	517	2,352	400	568	5,932

TABLE 5. CIRCULATION OF NEWSPAPERS EXISTING ON DECEMBER 31, 1967

Language	Daily		Weekly		Fortnightly		Monthly		Other Periodicities		Total	
	No. of newspapers	Total*	No. of newspapers	Total*	No. of newspapers	Total*	No. of newspapers	Total*	No. of newspapers	Total*	No. of newspapers	Total*
English	50	1,005	84	645	49	235	247	443	140	169	570	2,497
Hindi	57	394	172	489	43	117	260	1,002	21	23	553	2,025
Assamese	1	4	4	30	1	1	2	8	—	—	8	43
Bengali	5	192	65	178	18	186	85	152	20	26	193	684
Gujarati	21	225	55	254	28	81	82	202	7	14	193	727
Kannada	10	129	74	252	4	17	32	63	6	8	126	469
Malayalam	12	189	8	57	2	20	48	101	4	15	74	383
Marathi	24	247	64	220	7	23	50	156	10	9	155	658
Oriya	3	30	2	3	3	8	10	34	2	1	20	76
Punjabi	6	25	17	14	1	8	39	46	2	1	55	94
Sanskrit	—	—	2	2	—	—	3	3	1	—	6	5
Tamil	12	273	24	386	8	69	68	290	4	4	116	1,021
Telugu	5	102	31	241	12	75	56	139	3	1	107	553
Urdu	40	203	88	133	29	53	127	373	8	22	292	784
Bi-lingual	13	125	58	110	12	648	86	115	46	55	215	1,053
Multi-lingual	1	—	8	13	4	3	15	17	96	99	124	132
Others	2	5	11	25	3	6	16	18	4	1	36	55
TOTAL ..	262	3,149	767	3,052	224	1,449	1,216	3,162	374	448	2,843	11,260

*Copies sold plus copies distributed free. Figures in 000's.

TABLE 6. STATE-WISE DISTRIBUTION OF OWNERSHIP OF NEWSPAPERS* AS ON DECEMBER 31, 1957

State	Govern- ment	Indivi- dual	Joint Stock Company		Firm and partner- ship	Trust	Society or as- socia- tion	Educa- tional institu- tions	Foreign missions	Party organs	Total
			Public Ltd.	Private Ltd.							
Andhra Pradesh	2	71	2	—	15	5	26	7	—	—	128
Assam	—	7	2	—	5	—	2	—	—	1	17
Bihar	11	29	3	5	8	6	16	6	—	—	84
Bombay	15	258	35	51	69	24	129	14	5	5	600
Kerala	9	46	14	4	3	3	37	12	—	3	131
Madhya Pradesh	6	47	2	3	4	2	17	1	—	—	82
Madras	18	109	5	37	27	5	75	15	1	1	288
Mysore	3	67	2	9	7	7	25	7	—	2	129
Orissa	4	10	—	—	3	1	7	26	—	1	62
Punjab	8	104	4	1	26	3	39	56	—	4	245
Rajasthan	1	40	—	—	2	2	10	5	—	—	60
Uttar Pradesh	26	238	17	19	36	17	68	15	—	1	437
West Bengal	8	129	14	32	29	12	108	48	3	5	368
Delhi	59	111	18	9	27	4	69	13	16	10	336
Himachal Pradesh	—	1	—	—	—	—	—	—	—	—	1
Manipur	—	—	—	—	—	—	1	2	—	—	3
Tripura	—	5	—	—	—	—	—	—	—	1	6
TOTAL	165	1,267	118	170	261	91	629	227	25	34	2,987
Percentage	—	42.4	4.0	5.7	8.7	3.1	21.1	7.6	0.8	1.1	(100.0)

*Based on information received from 2,367 newspapers.

COMMON OWNERSHIP

Common ownership of more than one newspaper has been studied under three categories, namely,

- Chains* i.e. publication of more than one newspaper under common ownership from more than one centre.
- Groups* i.e. publication of more than one newspaper under common ownership from the same centre.
- Multiple Units* i.e. publication of more than one newspaper of the same title, language and periodicity under same ownership at different centres.

There are in all nine chains comprising 63 newspapers, of which 42 are dailies, 19 weeklies, one fortnightly and one monthly. The total circulation commanded by these newspapers is

1,866,547. The Express Newspapers Limited is the largest chain covering 19 newspapers with a total circulation of 761,897. The Bennett, Coleman chain covers 8 newspapers with a total circulation of 368,215.

The Chains are :

Bennett, Coleman & Co. Ltd., Bombay; Express Newspapers (Private) Ltd., Madras*; The Hindustan Times and Allied Publications, Delhi; Ananda Bazar Patrika (Private) Ltd., Calcutta; Amrita Bazar Patrika and Jugantar, Calcutta; Saurashtra Trust; Pratap and Veer Arjun; Lokasatta and Janasatta Daily; Shri Narkesari Prakashan Ltd.

Among the Groups are :

The Bombay Chronicle† (Private) Ltd., Bombay; The Indian National Press (Private) Ltd.;

Kasturi & Sons (Private) Ltd.; Associated Journals Ltd., Lucknow; Chandamama Publications, Madras; Mitra Prakashan (Private) Ltd., Allahabad; Govind Bhavan Karyalaya, Gorakhpur; Mathrubhumi Printing and Publishing Co. (Public) Ltd., Kozhikode; Sakal Papers (Private) Ltd., Poona; Malayala Manorama (Public) Ltd., Kottayam; Lok Prakashan Ltd., Ahmedabad; The Swadesanimitram (Public) Ltd., Madras; Nageswara Rao Estates (Private) Ltd., Madras.

Among the multiple units are :

The Statesman, Calcutta; Vishwamitra, Bombay; Thanthi, Madras; Nava India, Madras; Nava Bharat, Nagpur; Hitavad, Nagpur.

Some religious societies issue newspapers. These societies are: The Salvation Army; Ambala Church Council of the United Church of Northern India; Shri Ramakrishna Math.

TABLE 7

The following table shows the language-wise distribution of illustrated newspapers.

Language	Total number of newspapers examined	Number of Illustrated Papers carrying		
		Pictures and photographs	Cartoons	Comic strips
English	404	141	41	23
Hindi	464	283	55	29
Assamese	9	3	1	1
Bengali	334	26	8	1
Gujarati	173	108	17	14
Kannada	167	25	71	9
Malayalam	121	62	16	13
Marathi	160	71	14	7
Oriya	38	38	3	3
Punjabi	75	54	10	3
Sanskrit	3	—	—	—
Tamil	133	122	26	23
Telugu	150	142	36	44
Urdu	291	161	47	17
Others	16	2	1	—
TOTAL	2,538	1,238	346	187

* Reported shut down during 1959.

† The newspaper has now shut down (1959).

PRESS LAWS

In general the laws which affect the Press in India today are Press and Registration of Books Act, 1867; the Indian Official Secrets Act No. XIX of 1923; Sections 124-A, 153-A, 171-G, 255, 292, 293, 294-A, 295-A, 489-A, 499-502 and 505 of the Indian Penal Code; Sections 99-A-99-G and 108 of the Criminal Procedure Code; Sections 81, 84 and 87 of the Indian Evidence Act No. I of 1872; Sections 19 and 181-A of the Sea Customs Act No. VIII of 1878; Sections 5 and 7 of the Land Customs Act No. XIX of 1924; Sections 19, 20, 26, 27-A-27-D of the Indian Post Office Act No. VI of 1898; Section 5 of the Indian Telegraph Act No. XIII of 1885; Sections 40, 52 and 53(1)(b) of the Patents and Designs Act No. II of 1911; the Police (Incitement to Disaffection) Act, 1922; Section 69 of the Trade Marks Act No. V of 1940; the Press (Special Powers) Act No. XXXIX of 1947; the Contempt of Courts Act, 1952 (Act XXXII of 1952); Article 19 (1) (a) and (g) and Clause (2) and (6) of the same Article of the Constitution of India. The amendment to Article 19 (1) (a) reads: "Nothing in Sub-clause (A) of Clause 1 (the Citizen's Right to Freedom of Speech and Expression) shall affect the operation of any existing law or prevent the State from making any law in so far as such law imposes reasonable restrictions on the exercise of the right conferred by the said sub-clause in the interest of the security of the State, friendly relations with foreign States, public order, decency, morality, or in relation to contempt of court, defamation or incitement to an offence (This amendment is retrospective in operation); the Tax on Newspapers (Sales and Advertisements) Repeal Act No. XXVIII of 1951; the Press (Objectionable Matter) Act No. LVI of 1951 as amended by Act 13 of 1954; 8.7 of the Collection of Statistics Act (XXXI of 1953); the Press and Registration of Books (Amendment) Act No. 55 of 1955.

The Delivery of Books (Public Libraries) Act 27 of 1954.

The Drugs and Magic Remedies (Objectionable Advertisements) Act 21 of 1954. This Act controls the advertisement of drugs in certain cases and prohibits the advertisement for certain purposes of remedies alleged to possess magic qualities.

The Criminal Procedure Amendment Act contains a section (198B) which empowers the Government to prosecute a newspaper for defamation of public servants.

The Working Journalists (Industrial Disputes) Act (No. 1 of 1955). The Act extends the provisions of the Industrial Disputes Act, 1947 to working journalists.

The Parliamentary Proceedings (Protection of Publication) Act (No. 24 of 1956). It protects the publication of a substantially true report of any proceedings of either house of Parliament.

Section 11 of the Prize Competitions Act (Act 42 of 1955) contains rules regarding printing and publishing tickets, coupons, etc. in connection with prize competitions.

The Working Journalists Conditions of Service and Miscellaneous Provisions Act (Act 45 of 1955) regulates conditions of service of working journalists (See below).

The Punjab Special Powers (Press) Act was passed on 5th September 1955. It empowers the authorities to control the irresponsible activities of the press indulging in and fostering communal disharmony, dissemination of 'violent' news and pernicious propaganda of a communal nature.

The Newspaper (Price and Page) Act 45 of 1956.

The Young Persons (Harmful Publications) Act No. 93 of 1956.

The Delivery of Books (Public Libraries) Amendment Act No. 99 of 1956.

The Copyright Act 14 of 1957.

* It is proposed to repeal this Act.

The Indian Post Office (Amendment) Act No. 7 of 1958.

The Working Journalists (Fixation of Rates of Wages) Act 29 of 1958.

Press Council Bill No. XII of 1956 was published on July 31, 1956. The Bill seeks to establish a Press Council for the purpose of preserving the liberty of the press and of improving the standards of newspapers in India.

On 12th December 1958 the Supreme Court of India delivered a very important judgment relating to freedom of the press *vis-a-vis* the privileges of legislatures. It laid down "that under the Constitution of India, Indian legislatures have the right or privilege to prohibit absolutely the publication of even a true and faithful report of the debates or proceedings that take place within the House and to inflict punishment for a breach of such privilege. The right to freedom of speech and expression must be read subject to Art. 19(3) and in Art. 105(3).

NEWSPAPERS

The following is a list of some English dailies with the names of the editors:

Amrita Bazar Patrika, Tushar Kanti Ghosh: Calcutta and Allahabad.

Assam Tribune, L. N. Phookan: Gauhati.

Deccan Chronicle, K. R. Pattabhiram (*Mg. Ed.*): Secunderabad.

Deccan Herald, G. V. Krupanidhi: Bangalore.

Eastern Times, J. B. Patnaik: Cuttack.

Evening News of India, N. J. Nanporia: Bombay.

Free Press Bulletin, A. Hariharan: Bombay.

Free Press Journal, A. Hariharan: Bombay.

Hindu, Kasturi Srinivasan: Madras.

Hindustan Standard, Sudhanbhukumar Basu: Calcutta.

Hindustan Times, Durga Das (*Chief Editor*): New Delhi.

Hitarada, A. D. Mani (*Chief Editor*): Nagpur.

Indian Express, Frank Moraes (*Editor-in-Chief*): Bombay, Delhi and Madurai.

Indian Nation, Dr. Sachin Sen: Patna.

Leader, R. N. Zutshi: Allahabad.

Mail, Allan Taylor: Madras.

Nagpur Times, W. G. Sheorey: Nagpur.

National Herald, M. Chalapathi Rau; Lucknow.

Pioneer, S. N. Ghosh: Lucknow.

Searchlight, Pandit M. S. M. Sharma: Patna.

Statesman, G. A. Johnson: Calcutta and New Delhi.

Times of India, N. J. Nanporia: Bombay and New Delhi.

Tribune, Prem Bhatia: Ambala.

INDIAN NEWS AGENCIES

The following list is not exhaustive:

Press Trust of India (P.T.I.).

357, Dr. Dadabhai Naoroji Road, Bombay.

General Manager, K. N. Ramanathan.

NAFEN—Near and Far East News (Asia) Ltd.,

Temple Bar Bldg, 70, Forbes Street, Bombay 1.

Dhiman Press of India,

Ludhiana (Punjab).

Rao's Press Features,

10, West Anjaneya Temple Street, Basavan-

gudi, Bangalore 4.

Editor, K. P. Rao.

FOREIGN NEWS AGENCIES

The following list is not exhaustive:

Agence France Presse: Bureau De New Delhi,

1, Curzon Road, New Delhi.

Associated Press of America: 19, Narindra Place,

New Delhi.

Reuters: Marshall House, Hanuman Road,

New Delhi.

Tass News Agency of U.S.S.R.: 24, Nizamuddin East, New Delhi.

United Press International: I.E.N.S. Building, Old Mill Road, New Delhi.

INFORMATION SERVICES

Indian Information Service

Indian Government publicity work is carried out chiefly through the following units of the Ministry of Information and Broadcasting:

1. All-India Radio, 2. Press Information Bureau, 3. Publications Division, 4. Films Division, 5. Directorate of Advertising and Visual Publicity, 6. Research and Reference Division, 7. Directorate of Field Publicity.

Officers of the Bureau are attached to Central Ministries for liaison purposes.

There are regional offices of the Bureau in Bombay, Calcutta, Madras, Bangalore, Ernakulam, Lucknow, Jullundur, Gauhati, Cuttack, Nagpur, Patna, Jaipur, Srinagar and Varanasi.

There is also a Defence Wing for publicity for the Armed Forces.

The Bureau has also Information Centres at New Delhi, Jullundur, Srinagar, Hiraakud and Bhakra Nangal. Apart from these, there are also information centres at other State capitals which are run on cost sharing basis with State Governments.

The Bureau's news, feature and reference services are provided in the following languages: English, Hindi, Urdu, Gujarathi, Marathi, Tamil, Bengali, Telugu, Malayalam, Assamese, Oriya, Punjabi and Kannada.

Photographs and ebonoid blocks are also issued to the press.

The Bureau also keeps the Government informed of the views and comments in the press on Government policy and actions.

DIRECTORATE OF ADVERTISING AND VISUAL PUBLICITY

The Directorate of Advertising & Visual Publicity functions as the central organization for the Press advertising and display publicity campaigns of the various Ministries of the Government of India (excepting Railways) and their attached and subordinate offices.

The media used for visual publicity are posters, broadsheets, folders, pamphlets, leaflets, calendars etc., and in the field of out-door publicity, neon-signs, hoardings and display boards, cinema slides, advertising films, etc.

The Directorate has an Exhibition Division which, through its central and regional wings, organises exhibitions depicting progress of the Five-Year Plans and other themes of national importance.

British Information Services

('Eastern House', Man Singh Road, New Delhi).

Director: D. F. Kerr.

Deputy Director: A. C. Hall.

Editor-in-Chief: W. D. Nightingale.

Regional Information Officer: G. d'Arnaud-Taylor.

Information Officer: Miss D. F. Wall.

Exhibitions Officer: D. F. Crowe.

Establishment Liaison Officer: D. Higgins.

Head of Reference Section, T. Havey.

Bombay Office: (Mercantile Bank Building, Mahatma Gandhi Road).

Regional Information Officer: E. J. Ellis.

Information Officers: T. J. Sigsworth.

Calcutta Office: (1, Harrington Street).

Information Officer: J. S. Jasper.

Madras Office: (6, Armenian Street).

Regional Information Officer: J. A. Borron, M.B.E.

Dominion of Canada

(Canada House, 4 Aurangzeb Road, New Delhi.)
Commercial Counsellor, Bruce A. Macdonald.
Assistant Commercial Secretary, J. H. Nelson.
 (Bombay: Gresham Assurance House, Mint Road.)
Canadian Government Trade Commissioner, H. A. Gilbert.
Asst. Trade Commissioner, W. J. Collett.

Commonwealth of Australia

(Australian High Commission, Connaught Place, New Delhi).
Press Attache, L. G. Wigmore.

U. S. Information Service

Sikandra Road, New Delhi.

Country Public Affairs Officer and Counsellor for Public Affairs: Dr. W. Kenneth Bunce.

Deputy Chief Public Affairs Officer and Attache: John V. Lund.

Executive Officer and Attache: Harold O. Wright.
Chief Information Officer and Attache: Eugene Rosenfeld.

Chief Cultural Affairs Officer and Attache: Dr. John T. Reid.

Information Officer (Economic Aid): Alan Carter.
Editor, American Reporter: Robert A. Lee.

Sikandra Road, New Delhi.

(Delhi Consular District)

Public Affairs Officer and Attache: Arthur Goodfriend.

Cultural Affairs Officer and Attache: Thomas G. Allen.

Information Officer and Attache: Frank Eakin Jr.

INDIA WHEAT LOAN EDUCATIONAL EXCHANGE PROGRAMME

24, Curzon Road, New Delhi.

Director and Attache, U. S. Embassy, India Wheat Loan Educational Exchange Programme: Walter S. Blair.

BOMBAY OFFICE

("International", 16, Queen's Road Estate).

Public Affairs Officer, Daniel P. Oleksiw.

Cultural Affairs Officer, N. Marbury Esmenco.

Cultural Affairs Officers, Milton Leavitt; Arthur H. Niehoff.

Information Officer, Harold G. Tufty.

Information Officer, William J. Miller.

Audio-Visual Officer, Christopher L. Choles.

Librarian, Dorothy L. Clark.

Executive Officer, Edward T. Pinch.

CALCUTTA OFFICE

(7, Chowringhee Road, Calcutta 13.)

Director Chester R. Chartrand.

Information Officer, David G. Briggs.

Cultural Affairs Officer, Duncan Emrich.

Exhibits Officer, Geoffrey Groff-Smith.

Cultural Affairs Officer, Robert B. Jaffe.

Director of Library Services, Ruth C. Krueger.

Information Officer, Robert A. Jellison.

Executive Officer, Kathleen O'Malley.

Secretary to Director, Verna Mae Burt.

MADRAS OFFICE

(158, Mount Road, Madras 2.)

Public Affairs Officer, John L. Wiggins.

Information Officer, Orval B. Hopkins.

Cultural Affairs Officer, Arthur L. Funk.

Assistant Information Officer, James J. Brophy.

Deputy Cultural Affairs Officer, Claude R. Cross.

Assistant Cultural Affairs Officer, R. Laurence Garun.

Exhibits Officer: D. Bruce Coleman.

Director of Library Service: Cecilia F. Johnson.

Administrative Officer: Helen J. Garback.

Secretary: Jean E. Cole.

U.S. INFORMATION SERVICE LIBRARY

24, Curzon Road, New Delhi.

Librarian: Miss Sara M. Dilley.

UNITED STATES INFORMATION LIBRARY

150-B, Mount Road, Madras 2.

Director of Library Service: Cecilia F. Johnson.

UNITED STATES INFORMATION LIBRARY

Kerala Office

Main Road, Cantonment, Trivandrum.

Officer-in-Charge: James H. McGillivray.

UNITED STATES INFORMATION LIBRARY

Mysore State

Sri Narasimha Raja Square, Bangalore 2.

Officer-in-Charge: Joseph A. Horne.

Turkey

(Turkish Embassy, 27, Jor Bagh, New Delhi)

United Arab Republic

Bombay: Cambata Building, Churchgate, 124, Queen's Road, Bombay 1. Tel. No. 37325.

Consul-General: A. M. El Naggar.

Denmark

Royal Danish Embassy, 9A, Nizamuddin West Mathura Road, New Delhi; Danish Govt. Trade Commission, Pallonji Mansion, New Cuffe Parade, Colaba, Bombay 5.

France

(Consulate-General)

Vulcan Insurance Building,

5th Floor, Churchgate, Bombay 1.

Consul-General: Henri Dumont.

Italy

(Consulate)

(Vaswani Mansions, Dinshe Wachha Rd., Churchgate Reclamation, Bombay 1. Tel. Nos. 36877 & 36878).

United Nations Information Centre

(21, Curzon Road, New Delhi.)

Director: Eugenio Soler-Alonso.

Dy. Director: Purnendu Basu.

Radio Officer, Mrs. MaThan E. Fend.

FAO REGIONAL OFFICE FOR ASIA AND THE FAR EAST (WESTERN ZONE)—CEYLON, INDIA AND NEPAL

21, Curzon Road, New Delhi 1.

Deputy Regional Representative: K. A. Bennett.

Information Officer: T. A. Venkatraman.

W.H.O. Regional Office for S. E. Asia, Public Information Unit

(Patla House, Princes' Park, New Delhi).

Information Officer: Gordon Boshell.

U.S.A. CORRESPONDENTS IN BOMBAY

McGraw-Hill World News, The Christian Science Monitor: Sharokh Sabavala (Corinthian, D-1, Colaba, Bombay 5).

PRESS ASSOCIATIONS, SOCIETIES

All-India Newspaper Editors' Conference, 50-51, Theatre Communications Bldgs., Connaught Place, New Delhi: *President*, Durga Das (Hindustan Times); *Secy. General*, Ranbir Singh; *Treasurer*, Viswabandhu Gupta; *Office Secy.*, Jag Parvesh Chandra.

Indian and Eastern Newspaper Society, I.E.N.S. Bldgs., Old Mill Road, New Delhi 1: *President*, Upendra Acharya (Indian Nation); *Deputy President*, D. M. Harris (Statesman); *Vice-President*, Dr. N. B. Parulekar (Sakal); *Hon. Treasurer*, K. Narendra (Pratap); *Secretary*, D. K. Thadani.

Indian Federation of Working Journalists, Travancore House Hutments, Canning Road, New Delhi: *President*, J. P. Chaturvedi; *Secretary-General*, R. Narasimhan.

Indian Languages Newspapers' Association (Janmabhoomi Bhavan, Ghoga Street, Fort, Bombay): *President*, A. R. Bhat (Sampada, Poona).

Press Owners' Association, Bombay (196-B, Gaiwadi, Girgaon, Bombay).

Southern India Journalists' Federation (15, Ritchi Street, Mount Road, Madras 2): *President*: S. Ramanathan; *Secretary*: V. Ganapathi.

FEATURE SYNDICATES

King Features Syndicate (235, East 45th Street, New York 17): *Agents*: Advertising Films of India Private Ltd., 4th Floor, Pharmed House, Bori Bunder, Bombay 1.

PRESS CLIPPINGS

All-India Press Cutting Service: D-2, Amerchand Mansions, Mayo Road, Bombay 1.

Indian Press Service: 12 Mathura Road, New Delhi 14.

International Clipping Service: Lakshmi Building, Sir Pherozeshah Mehta Road, Bombay 1.

Oriental Languages Bureau: Lakshmi Building, Sir Pherozeshah Mehta Road, Bombay 1.

PRESS PHOTO AGENCIES

Bombay Photo Stores (Private) Ltd.: 33-34, Park Mansions, Park Street, Calcutta.

News Photo Flash: 11-12, Scindia House, New Delhi.

Press Photo Bureau: 374, Pycrofts Road, Royapetta, Madras 14.

PRESS COMMISSION

A press commission was appointed by the Government of India in Sept. 1952.

The members of the Commission were: the late G. S. Rajadhyaksha (*Chairman*), Dr. C. P. Ramaswami Aiyar, late Acharya Narendra Deva, Dr. Zakir Hussain, Dr. V. K. B. V. Rao, P. H. Patwardhan, T. N. Singh, Jalpal Singh, J. Natarajan, A. R. Bhat, M. Chalapathi Rao.

Mr. A. D. Mani took the place of Mr. Natarajan in March 1953.

The Commission held its first meeting in New Delhi on October 11 and October 12, 1952.

It submitted its report to the Government of India on July 17, 1954 (signed on July 14).

The details of the report were published in previous issues of this book.

Some important recommendations are given below:

The number of newspapers in the country should be greatly increased and more newspapers should come up in the district towns.

A minimum price should be fixed at which papers of a particular size can be sold.

The price-page schedule should prescribe not only the maximum number of pages that could be sold at a particular price, but also the minimum number that must be offered.

The quantum of advertisement in a week's issue of a newspaper should not exceed 40 per cent of the total area.

The publication of newspapers and periodicals should be made a Central responsibility.

Every paper should be constituted as a separate unit so that its profits and losses are definitely ascertainable and both the proprietor and the employees know where they stand.

In the case of multiple editions, each unit should be separated from the others in the matter of accounts. Where a chain consists of a number of groups, each group should be separated from the other.

A strict code of advertising which all members would be compelled to follow and which would be binding also on the associations of advertising agencies and advertisers should be adopted.

* Annual meeting was to take place in August, 1959.

The Act for the regulation of the press as an industry should include a section which makes it an offence, punishable with fine or with imprisonment, the issue of fraudulent advertisements for publication.

The appointment of a Press Registrar for the country for the compilation of facts and figures relating to the industry is commended. It should be made incumbent on each newspaper and periodical to file certain returns with the Registrar.

The Registrar should bring out an annual report on the working of the press on its organisational side, including working conditions in the industry, and concentration of ownership.

A State Trading Corporation entrusted with a monopoly of imports, should also take over the entire output of newsprint of the Indian mills on a fair basis, and sell it, along with imported newsprint, at equated prices.

However objective a news agency strives to be, there are certain drawbacks which arise from a monopoly and which could be obviated only by a competitive service available freely to all users. In the public interest steps should be taken to see that there is more than one news agency functioning efficiently.

News agencies should not be State-owned or State-controlled, and any assistance from the State should have no strings attached, and the State should not have any voice in the control of the agency either editorially or administratively.

In the interests of greater efficiency and smoother operation, certain changes may be brought about in the management of the news agencies.

In the case of P.T.I., a public corporation should be set up, based on the existing organisation but controlled by a board of trustees whose chairman would be appointed by the Chief Justice of India.

In the case of U.P.I.* the management is to be by a board of trustees. In both cases, the board should include a trustee to represent the employees.

The Government should place advertisements having regard to the following considerations: (1) circulation of the paper and the rates charged by that paper; and (2) readership designed to be reached for the purpose of the particular advertisement.

The newspaper is essentially a public utility and whatever may be the precise form of ownership, the exercise of ownership rights may have to be subject to some measures of restraint and regulation.

In connection with instances where the policy of a paper is dictated by the proprietors to suit their personal interests, there should be a periodical publication in the paper of a complete statement of the names of the proprietors and responsible executives on the newspaper, so that the public could judge the extent to which the views expressed in the paper may have to be rejected as being possibly biased.

Exercise, by the individual owner, of the right of control does carry with it the very real danger of misuse of the press for personal or purely commercial purposes. The remedy lies in the diffusion of effective control, or diffusion of ownership among a large number of persons.

One method of providing diffusion of control without making any change in the ownership of the paper would be to transfer the management to a public trust.

The lack of effective control by those who share the ownership would be avoided if shares are gradually distributed among the employees who function in the undertaking itself and are in constant touch with all its activities.

There already exists, in the Indian newspaper industry, a considerable degree of concentration,

and there is a danger that this tendency might further develop in the future. It would not be desirable, in the interest of freedom of choice, that this tendency should be accentuated.

There has been a general decline in the status and independence of the editor.

When a proprietor chooses his editor, he should also delegate to him a measure of individual authority which would enable him to carry out the policy and to resist any attempt to divert the policy in anti-social directions.

An All-India Press Council should be set up by statute. Its objects among others, will be:—

(1) To safeguard the freedom of the press and help the press to maintain its independence.

(2) By censuring objectionable types of journalistic conduct, and by all other possible means, to build up a code in accordance with the highest professional standards.

(3) To study developments in the press which may tend towards concentration or monopoly and, if necessary, to suggest remedies therefor.

(4) To publish reports, at least once a year, recording its work and reviewing the performance of the press, its development, and the factors affecting them.

(5) To improve the methods of recruitment, education and training for the profession, by the creation of suitable agencies for the purpose such as a Press Institute.

The Press Council should have 25 members excluding the chairman who should be a person who is or has been a judge of a High Court and should be nominated by the Chief Justice of India.

Out of these, 13 or more should be working journalists, and the others should be drawn from newspaper proprietors, universities, literary bodies, etc.

WORKING JOURNALISTS

The Minister for Information and Broadcasting announced on December 22, 1954 that Government accepted the following recommendations of the Press Commission:

1. Institution of a Press Council, 2. Maintenance of separate accounts of each unit of a chain of newspapers, 3. Institution of an Advertising Council to enforce a code of advertising, 4. Manufacture of printing machinery in India, 5. The principle of extending to working journalists the provision of the Industrial Disputes Act, 6. The appointment of an accreditation committee at the Centre and the States to advise on accreditation, 7. Periodical publication in every newspaper of a complete statement of proprietors and responsible executives—appropriate action would be taken on this.

Mr. M. L. Bhardwaj has been appointed Registrar of Newspapers of India.

Journalists were brought within the purview of the Industrial Disputes Act by an Ordinance which came into force in March 1955.

The Working Journalists (Conditions of Service) and Miscellaneous Provisions Act, 1955 is meant to regulate certain conditions of service of working journalists and other persons employed in newspaper establishments. The Act extends to the whole of India except Jammu and Kashmir.

The main provisions of this Act were given in previous issues of this book.

In exercise of the powers vested in it by the Act, the Government of India constituted a Wage Board for Working Journalists under the Chairmanship of Mr. H. V. Divatia. Besides the Chairman, the Board consisted of six members, three representing the employees and three the working journalists. The six members were G. Narasimham, A. B. Bhatt, K. P. Kesava Menon, R. Venkataraman, C. Raghavan and G. N.

Acharya. The function of the Board was to inquire into the wage structure of Indian journalism and fix the scale of remuneration.

The decisions of the Wage Board for Working Journalists, were gazetted on May 11, 1957.

These were outlined in previous issues of this book.

The following newspaper establishments namely Express Newspapers Private Ltd., Press Trust of India, Hindustan Times Publications, Janmahbloom Group of Newspapers run by Saurashtra Trust and Indian National Press Ltd. publishing the Free Press Journal and other newspapers challenged the Board's award in regard to the emoluments of working journalists in the Supreme Court.

The Supreme Court delivered its judgement on March 19, 1958. It upheld the validity of the Working Journalists Act except for a single provision but set aside the decisions of the Wage Board on the ground that the Board did not take into account adequately the capacity of the industry in fixing the rates of wages.

The Court held that the decisions, which were published by the Government of India on May 11, 1957, had been arrived at contrary to the mandatory provisions of Section 9(1) of the Working Journalists Act, which required the Wage Board to have regard to the capacity of the industry in fixing rates of wages, and were, therefore, illegal and void.

The Court also came to the conclusion that Section 5(1) (A) (III) of the Act, which entitled a working journalist to payment of gratuity on his resignation any time after three years, was unreasonable and, therefore, violated the fundamental right to freedom of trade guaranteed under Articles 19(1) (G) of the Constitution.

WAGE COMMITTEE

On June 14, 1958, the President of India promulgated an Ordinance called the Working Journalists (Fixation of Rates of Wages) Ordinance to provide for the fixing of rates of wages for working journalists by the Central Government.

Accordingly Government set up a Committee later known as the Wage Board Committee the same day.

It consisted of: Mr. K. Y. Bhandarkar (Chairman), Secretary, Ministry of Law; Mr. K. N. Subramanian, I.C.S., Joint Secretary, Ministry of Labour & Employment; Mr. R. C. Dutt, I.C.S., Joint Secretary, Ministry of Home Affairs; Mr. T. R. V. Chari, Principal Information Officer, Ministry of Information & Broadcasting and Mr. S. Vaidyanath Aiyar, F.C.A., President, Institute of Chartered Accountants.

The committee was to issue notice in a prescribed manner and invite newspaper establishments, working journalists and other persons interested to make representations to it in respect of the decisions of the Wage Board for Working Journalists and the rates of wages that might be fixed under the Ordinance in respect of working journalists.

Representations to the committee were to be made, under the Ordinance, within a period not exceeding 30 days, specified by the committee in its notice. The representations should specifically state the grounds of objections to the Wage Board's decisions, the rates of wages that would be reasonable having regard to the capacity to pay of the employer, and the alterations or modifications which should be made in the decisions of the Board.

The committee, in making its recommendations by way of modification or otherwise of the decisions of the Wage Board, was directed to keep in view the considerations mentioned in Section 9 (1) of the Working Journalists Act, namely, the cost of living, the rates of wages in comparable employments, the circumstances relating to the newspaper industry in different regions of the country, and any other circumstances which might be relevant.

* Now defunct.

† Now dead.

The committee was also authorised to specify which of its recommendations should have prospective or retrospective effect.

As soon as may be after receiving the recommendations of the committee, the Government was to promulgate an order fixing rates of wages which would be binding on newspaper establishments and working journalists and every working journalist would be entitled to claim wages at a rate not less than that specified in the order.

The order would come into operation on the date of publication or on such date whether prospectively or retrospectively as might be specified.

The committee might exercise any or all the powers of an industrial tribunal, and subject to the provisions of the Ordinance and the rules made thereunder, was also authorised to regulate its own procedure.

The Ordinance also enabled the Central Government to set up a wage board for working journalists, as provided in the Working Journal-

ists Act, at any time three years after the date of the order issued by its fixing the rates of wages.

The provisions of the order would have overriding effect over the terms of any award, agreement or contract of service. But where such an award, agreement or contract of service entitled a working journalist to more favourable benefits in respect of any matter then he would be entitled to under the orders, to that extent the terms of the award, agreement or contract of service would prevail.

The Government was authorised under the Ordinance to make modifications in the recommendations of the committee. The Government was also authorised to remit back to the committee the recommendations or any part thereof, consider the further recommendations of the committee and make an order.

The committee was also authorised to take up separately groups or classes of newspaper establishments and make recommendations from time to time.

In a subsequent interview the Union Labour Minister, Mr. G. L. Nanda, told press correspondents that the promulgation of the Ordinance followed the failure of the Government's attempts to bring about a settlement between the parties after the Supreme Court's judgment. While regretting the failure of these attempts, Mr. Nanda hoped that the parties would still proceed with their task in a spirit of goodwill and accommodation rather than one of creating ill-will and bitterness.

Mr. Nanda said the Government would have to bring forward a Bill in due course amending the Working Journalists Act to bring it in line with the judgment of the Supreme Court.

He would also like newspaper establishments, who had already implemented the decisions of the Wage Board to maintain the status quo.

The Wage Committee published its tentative proposals about wage scales and grades on Dec. 29, 1958 and invited comments from interested parties before Jan. 19, 1959. Later the time was extended to Feb. 2.

SHIPPING COMPANIES AND AIRWAYS

SHIPPING COMPANIES

AMERICAN EXPORT LINES, INC., NEW YORK

Agents :—Lionel Edwards (Private) Ltd., Bombay; Peirce Leslie & Co., Ltd., Beach Road, Alleppey; Peirce Leslie & Co., Ltd., Ballard Road, Cochin; Peirce Leslie & Co., Ltd., Bunder Road, Mangalore; The Bombay Co., Ltd., 189, Broadway, Madras; Lionel Edwards (Private) Ltd., Godeyvari Street, Vishakhapatnam; Lionel Edwards (Private) Ltd., India Steamship House, 21, Old Court House Street, Calcutta, Gabriel Lichtman, District Director, American Export Lines, Inc., India Steamship House, 21, Old Court House Street, Calcutta.

India Service fortnightly sailings between New York and other U.S. North Atlantic Ports via Egypt, Lebanon and the Suez Canal and Ports in the Gulf of Suez, Red Sea, Gulf of Aden, Pakistan, India, Ceylon and Burma. Calls at other ports may be made.

ANCHOR LINE LTD.

Anchor Line Building, 12-16, St. Vincent Place, Glasgow; Royal Liver Building, Liverpool 3; 9, Haymarket, London, S.W. 1.

Offices

BOMBAY Neville House, Graham Road, Ballard Estate.
KARACHI National and Grindlays Bank Building, McLeod Road.

Chief Agencies

CALCUTTA Clegg Cruickshank & Co., Ltd.
MADRAS Best & Co., Ltd.
COLOMBO Delmege, Forsyth & Co., Ltd.

CUNARD STEAMSHIP CO., LTD.

Agents :—Anchor Line Limited, Ballard Estate, Bombay.

DONALDSON LINE LTD.

Agents :—Anchor Line Limited, Ballard Estate, Bombay.

J. & J. DENHOLM LTD.

J & J Denholm (Management) Ltd.

J & J Denholm (Agency) Ltd.

Agents :—Anchor Line Limited, Ballard Estate, Bombay.

LAMPART & HOLT LINE LTD.

Agents :—Anchor Line Limited, Ballard Estate, Bombay.

MUNGO CAMPBELL & CO., LTD.

Agents :—Anchor Line Limited, Ballard Estate, Bombay.

RUNCIMAN (LONDON) LTD.

Agents :—Anchor Line Limited, Ballard Estate, Bombay.

RUNCIMAN SHIPPING CO., LTD.

Agents :—Anchor Line Limited, Ballard Estate, Bombay.

AMERICAN PRESIDENT LINES LIMITED

311, California Street, San Francisco, California, U.S.A.

Fortnightly sailings from Cochin, Bombay, Karachi via the Mediterranean to United States.

General Agents :—

BOMBAY—Forbes, Forbes, Campbell & Co. Private Ltd., Home Street, Fort.

KARACHI—Cooper & Co., McLeod Road.

CALCUTTA—McLeod & Co. Ltd., 3 Netaji Subhas Road.

MADRAS—South Indian Export Co. Ltd., Post Box No. 37, McLean Street.

COCHIN—Madura Co. Private Ltd., P.O. Box No. 6.

ELLERMAN & BUCKNALL STEAMSHIP CO., LTD.

12/20, Camomile Street, London, E.C. 3.

General Agents :—

BOMBAY—Forbes, Forbes, Campbell & Co. Private Ltd., Home Street, Fort.

KARACHI—Forbes, Forbes, Campbell & Co., Ltd., Corner of Bunder & Dunolly Roads.

CALCUTTA—Gladstone Lyall & Co., Ltd., 4, Fairlie Place.

MADRAS—Best & Co. Private Ltd., Post Box No. 68.

COCHIN—Aspinwall & Co. Private Ltd., P.O. Box No. 2.

Trading Ports are Boston, New York, Philadelphia, Baltimore, Norfolk, Wilmington, Montreal, Halifax, St. John N.B., etc.

BELGIAN LINE

Compagnie Maritime Belge S.A., 81, Rempart, St. Catherine, Antwerp.

Agents in India :—Bombay: Sepulchre Bros. (India) Private Ltd. Taj Building, 210, Dadabhai Naoroji Road, Bombay; *Bedibunder, Port Okha and Veraval*: J. M. Baxi & Co., 16, Bank Street, Bombay; *Marmuqao* (Portuguese India): Killick, Nixon & Co., Ltd.'s Agency, Killick Building, Home Street, Fort, Bombay.

Trading Ports are Genoa, Dunkirk, Antwerp, Rotterdam, Hamburg, New York, Boston, Baltimore, Philadelphia, Norfolk (Va.) and East Coast of Africa. Other ports by arrangement. Both cargo and passenger.

BRITISH INDIA STEAM NAVIGATION CO., LTD.

For all information with regard to the Company's Services, application should be made to Messrs. Mackinnon, Mackenzie & Co. Private Ltd., Bombay 1.

Agents in Madras :—Binny & Co. (Madras) Ltd., 7, Armenian St., Madras-1.

BOMBAY STEAM NAVIGATION CO. (1953) PRIVATE LTD.

Scindia House, Dougall Road, Ballard Estate, Bombay.

Main Office :—100, Frere Road, Bombay 9.

Telephone Nos. :—22021 (4 lines).

Telegrams :—'KONKANLINE', Bombay.

London Agents : Scindia Steamships (London) Ltd., 54, Billiter Buildings, 22, Billiter Street, London, E.C. 3. Tel. No. Royal 6444 (7 lines).

SERVICES

Passengers only :

Bombay, Rewas, Dharamtar, Dabhol, Ratnagiri, Venguria.

THE EASTERN SHIPPING CORPORATION LTD.

Steelcrete House, 4th Floor, Dinshaw Wacha Road, Churchgate Reclamation, Bombay 1.

Telegrams :—'EASTSHIPCO', Bombay.

London Representatives :—Scindia Steamships (London) Ltd., Billiter Buildings, 22, Billiter Street, London, E.C. 3.

Calcutta Agents :—The Scindia Steam Navigation Co. Ltd., Central Bank Building, 33, Netaji Subhas Road, P.O. Box No. 2248, Calcutta.

Madras Agents :—Messrs. K. P. V. Shaik Mohamed Rowther & Co., 41, Linghi Chetty Street, P.O. Box No. 1264, Madras.

Agents also at Karachi, Colombo, and all important Ports in India, Burma, Malaya, Australia, New Zealand, Hongkong, Japan and British East Africa.

SERVICES

Cargo :—Calcutta/Far East.

Calcutta/Australia.

Passenger and Cargo :—Madras/Singapore.

Bombay/East Africa.

Calcutta/Madras/Andaman.

Chairman and Managing Director :—R. B. Saksena.

Commercial & Traffic Manager :—Y. G. Nimbalkar.

Deputy Commercial & Traffic Manager :—G. L. Bakshi.

Asst. Managers (Traffic) :—V. H. Rao, Dr. A. K. Murdeshwar, M. J. Gosavi.

Operations Manager :—Capt. P. Alexander.

Superintending Engineer :—P. N. Rabady.

Asst. Manager (Operations) :—H. C. Das.

Finance-cum-Accounts Officer :—N. Subramanian.

Accountant :—B. B. Raote.

ELLERMAN'S CITY AND HALL LINES

From Glasgow and Liverpool to Calcutta and back to London.

From Glasgow and Liverpool to Bombay, Kathiawar Ports, Karachi and Malabar Coast Ports and back to London, Liverpool and Glasgow.

Agents

BOMBAY	..	..	Killick, Nixon & Co. Private Ltd.
KARACHI	..	..	Forbes, Forbes, Campbell & Co. Private Ltd.
CALCUTTA	..	..	Gladstone Lyall & Co., Ltd.
COLOMBO	..	..	Aitken Spence & Co., Ltd.
MADRAS	..	..	Best & Co. Private Ltd.

BIBBY LINE

Agents :—Killick, Nixon & Co. Private Ltd., Home Street, Fort, Bombay.

Gillanders Arbuthnot & Co., Ltd., 3, North Beach Road, Madras-1.

HARRISON LINE

Agents :—Killick, Nixon & Co. Private Ltd., Home Street, Fort, Bombay.

BROCKLEBANK LINE

Agents :—Edward Bates & Son's Agency, Killick, Nixon & Co. Private Ltd., Home Street, Fort, Bombay.

L. SMIT & CO'S INTERNATIONALE SLEEPDIENST, ROTTERDAM

Agents :—Killick, Nixon & Co. Private Ltd., Home Street, Fort, Bombay 1.

EVERETT STAR LINE

Bombay Agents :—Everett Steamship Corporation, Post Box 523, Bombay.

Telegraphic Address :—STARLINER, Bombay.

Telephones :—26-4081/3 (3 lines).

SERVICE

Japan, India, Pakistan, Persian Gulf and vice versa.

EVERETT ORIENT LINE

Calcutta Agents :—Everett Steamship Corporation, Post Box 25, Calcutta.

Telegraphic Address :—EVORIENT, Calcutta.

Telephones :—227841/3 and 227854.

SERVICE

Bay of Bengal, Straits, Hongkong, Japan and vice versa.

HINODE KISEN CO. LTD., TOKYO

Agents :—Killick, Nixon & Co. Private Ltd., Home Street, Fort, Bombay.

THE GREAT EASTERN SHIPPING CO. LTD.

Mercantile Bank Building, 60, Mahatma Gandhi Road, Bombay 1.

Telegrams :—'GREATSHIP'.

Telephone :—255461 (5 lines).

Owens a fleet of 14 ships including an oil tanker. Operates regular cargo services on the Indian coast. The main ports of call are Calcutta, Vishakapatnam, Madras, Kakinada, Tuticorin, Cochin, Bombay, Okha, other Saurashtra ports and Rangoon. Fixes ships for carriage of bulk cargoes to all ports of the world according to demand.

Branch Office :—5, Clive Row, Calcutta 1. Delhi Office : A. H. Bhiwandiwala & Co. (Bombay) Private Ltd., 100, Golf Link Area, New Delhi.

Have agents at India, Pakistan, Ceylon and Burma ports. Indian ports where there are agents : Alleppey, Fort Blair, Bassien, Bedi, Belikiri, Bhavnagar, Bheemunipatnam, Bombay, Calcutta, Calingapatnam, Cochin, Cuddalore O.T., Gandhidham, Jaffarabad, Jakhau, Kakinada, Kandla, Karwar, Kollthottam, Kozhikode, Madras, Mangalore, Marmugao, Masulipatam, Morvi (Navlakhi), Mundra, Negapatnam, Okha, Paradip, Pondicherry, Porbandar, Port Redi, Quilon, Salaya, Sikka, Tuticorin, Veraval and Vishakapatnam.

Director-in-Charge : Vasant J. Sheth. Manager : K. M. Sheth. Secretary : S. N. Sanklecha.

JAVA BENGAL LINE

Branch Office of N. V. Stoomvaart Maatschappij "Nederland". 5 & 7, Netaji Subhas Road, Calcutta 1. P. O. Box 71. Telephone : 23-4442 (4 lines).

In all ports on East and West Coast : Messrs. Volkart Brothers represent their Lines.

The following lines are represented by them in India, with vessels calling at Indian ports :

Java Pacific Line : sailings between India, East Pakistan, Philippines and USA/Canadian West Coast ports.

Nedlloyd Line Arabian Gulf Service : sailings from U.S.A. East Coast via Arabian Gulf to Indian ports.

Nedlloyd Line/Gulf of Mexico Express : sailings from Calcutta and East Pakistan to ports in the Gulf of Mexico via Panama Canal.

Nedlloyd Line/Indonesia Service : sailings between India, East Pakistan and Indonesia.

Holland-Bengal-Burma Line and Holland-Bombay-Karachi Line : sailings between Indian East and West Coast ports respectively via Red Sea and Port Said to North Continental ports accepting through cargo for Mediterranean and Scandinavian ports.

Passenger Service by m.v. "ORANJE" of Nederland Line, Royal Dutch Mail from Australia via Singapore and Colombo to Port Said, Genoa, Southampton and Amsterdam and by m.v. "WILLEM RUYB" of Royal Rotterdam Lloyd, from Rotterdam and Southampton to Colombo, Singapore, Australia, New Zealand, Panama Canal, U.S.A., Bermuda, Southampton and Rotterdam.

Royal Intercean Lines : sailings from Bombay via Singapore and Indonesia to Australia.

L. Smit & Co's International Tug Service, Ocean going tugs stationed all over the world.

JAVA PACIFIC AND HOEGH LINES

Agents :—Volkart Brothers, Shipping Department, Graham Road, Ballard Estate, Bombay 1.
Telegraphic Address :—"ENGADINE".
Telephones :—26-1531 (8 lines).

SERVICE

From India to Ceylon, Malayan Union, Indonesia, Philippines and West Coast of U.S.A. and Canada, and *vice versa*.

LLOYD TRIESTINO

City Ice Bldg, Hazargate Street, Fort, Bombay. Post Box No. 1080.
Telephone No 25-2388

Telegraphic Address :—"LLOYDIANO".

De Luxe Passenger Service from Bombay to Naples and Genoa and also to Singapore and Hongkong

Fast Passenger Service with monthly sailing from Cochin to Naples and Genoa

Cargo Services from West Coast of India and also East Coast of India and East Pakistan to Mediterranean Ports

Cargo Services from West Coast of India to the Far East.

HANSA LINE

Ilaco House, 13, Brabourne Road, G.P.O. Box 2698, Calcutta.

Agents

Calcutta Hansa Line, Calcutta Branch; Ilaco House, Ground Floor, 1-3, Brabourne Road, P.O. Box 2698. Phone : 22-7855. **Telegraphic Address** :—"HANSATEAM".

Bombay :—Shaw Wallace & Co., Ltd., 3, Wittet Road, Post Box 203, Bombay 1. **Telegraphic Address** :—"HANSALACE". Phone : 26-4061—59.

Madras :—Shaw Wallace & Co., Ltd., 3-9, Thambu Chetty Street, Madras 1. Phone : 4901. **Telegraphic Address** :—"HANSALACE".

Services

Fortnightly sailings from North Continental Ports to India, Pakistan, Ceylon and Burma.

THE MALABAR STEAMSHIP COMPANY LTD.

293, Dr. Dadabhai Naoroji Road, Fort, Bombay.

Telephones :—263625 and 263626.

Branches :—Calicut, Cochin, Alleppey and Calcutta.

SERVICE

From Bombay to Calicut-Cochin-Tuticorin and Colombo as per demand.

From Bombay to Saurashtra Ports.

From Calcutta to Rangoon.

From Calcutta to Madras-Tuticorin-Cochin and also touch Colombo according to demand.

From Indian Ports to Overseas

MAERSK LINE

Agents :—Volkart Brothers, Shipping Dept., Graham Road, Ballard Estate, Bombay 1.

Telegraphic Address :—"MAERSKLINE".

Telephones :—26-1531 (8 lines).

SERVICE

Japan/India/Pakistan/Persian Gulf and *vice versa*.

MITSUBI LINE

Mitsui Steamship Co., Ltd.

Agents

BOMBAY :—Tidemand & Co. (India) Private Ltd., India House, P.O. B 1333, Bombay 1.

CALCUTTA :—International Clearing & Shipping Agency, "Toah House", 3rd Floor, P-31/32, Royal Exchange Place Extension, Calcutta 1.

COCHIN :—Peirce Leslie & Co. Ltd. (Japan Line), Cochin.

Goverdhan Nathi Bhai & Co. (U.S.A. Line), Cochin.

MADRAS :—KAKINADA AND VISHAKAPATNAM :—International Clearing and Shipping Agency, 20-B, 2 Line Beach, Madras.

TUTICORIN :—A & F. Harvey Ltd., Tuticorin.

JAPAN/PERSIAN GULF/JAPAN LINE

Regular monthly sailings serving: Japanese main ports—Hongkong—Singapore—Port Swettenham—Penang—Colombo—West and East Coast of India—Karachi and *vice versa*.

JAPAN/BENGAL LINE

Regular sailings serving: Japanese main ports—Hongkong—Singapore—Port Swettenham—Penang—Ports at the Bay of Bengal and *vice versa*.

WESTBOUND ROUND-THE-WORLD SERVICE

Regular monthly sailings serving: Japanese main ports—Philippines—Singapore—Port Swettenham—Penang—Colombo—Tuticorin—Cochin—Bombay—Aden—Port Sudan—Port Said—Genoa—Marseilles—Casablanca—Ports in U.S.A. (Atlantic Coast, Gulf and Pacific Coast).

WEST AFRICA SERVICE

Regular monthly sailings serving: Japanese main ports—Hong Kong—Singapore—Bombay—Aden—Genoa—Marseilles—Casablanca—Dakar—Freetown—Abidjan—Accra—Lagos—Apapa—Port Harcourt—Takoradi—Monrovia.

MOGUL LINE LTD.

Mg. Agents :—Turner, Morrison & Co. Private Ltd., 16, Bank Street, Bombay 1. Phone : 25-1321.

Pilgrim Booking Office :—Nos. 4 & 5, Mahomed Haji Saboo Siddick Munsurkhana, Carnac Road, Phone : 26-2780.

Regular service from Bombay and Karachi to Red Sea ports and Mauritius. A special Pilgrim Service is arranged from Bombay, Karachi and Chittagong to Jeddah during Haj season.

N. Y. K. LINE

Nippon Yusen Kaisha, Tokyo.

Agents :—James Mackintosh & Co. Private Ltd., Post Box No. 123, Darabshaw House, Ballard Road, Bombay 1. **Telegram** :—"MACKINTOSH." **Telephones** : 26-1686 and 26-4598.

The Bombay Co. Private Ltd., P.O. Box 109, Broadway, Madras 1. **Phones** :—2900, 2909, 2056. **Telegrams** :—"GLADIATOR".

James Finlay & Co., Ltd., 2, Netaji Subhas Chandra Road, Calcutta. **Phone** :—Bank 4061. **Telegrams** :—"MERCATOR".

SERVICES

(i) Japan/India/Pakistan/Persian Gulf.

(ii) Japan/Calcutta.

ORIENT MID-EAST LINES, NEW YORK

Agents :—James Mackintosh & Co. Private Ltd., Ballard Road, Fort, Bombay.

U.S.A. & Canada.—India.

POLISH OCEAN LINES

24, 10 Lutego, Gdynia (Poland).

South Asia Service :—India/Pakistan/Burma.

Bombay Branch :—The Polish Ocean Lines, Bharat Insurance Bldg., 15/A, Horniman Circle, Fort, Bombay 1.

Telegraphic Address :—"POLLINE", Bombay.

Telephone No. :—255605-6.

Agents :—Khemka & Co. (Agencies) Private Ltd., 202/A, Veer Nariman Road, Churchgate Reclamation, Bombay 1.

Telegraphic Address :—"POLBOUND", Bombay.

Telephone No. :—242244, 45.

International Clearing and Shipping Agency, 20/B, Second Line Beach, Madras. **Telegraphic Address** :—"CLEARSHIP". **Phones** : 21281-21282.

Khemka & Co. (Agencies) Pr. Ltd., 31/32, India Exchange Place Extn., Calcutta 1. **Telegraphic Address** :—"WESTBOUND". **Phones** : 226290 and 221014.

Karachi Office :—The Pak Ocean Shipping Co., Ltd., Qamar House, Bunder Road. **Telegraphic Address** :—"TRIDENT". **Phones** : 33287.

ROYAL INTEROCEAN LINES

Interocean House, 191, Java Road, Hongkong.

Agents

Bombay : Forbes, Forbes, Campbell & Co. Private Ltd., Home Street, Fort.

Karachi : Forbes, Forbes, Campbell & Co. Ltd., Corner of Bunder & Duncilly Roads.

Alleppey : Darragh, Small & Co. Ltd., Alleppey, P.O. Box No. 50.

Cochin : Darragh, Small & Co. Ltd., Willingdon Island.

Trading Ports

Monthly sailings from Bombay, Alleppey and Cochin via Colombo, Malaya and Indonesia to Australia.

SCINDIA STEAM NAVIGATION CO., LTD.*Scindia House, Douglas Road, Ballard Estate, Bombay.*

Telephone No.:—268161 (11 lines).

SERVICES

Coastal Services:—(Telegrams: "JALANATH"). Services: India, Pakistan, Burma & Ceylon.

Overseas Services:—(Telegrams: "SAMUDRAPAR"). Regular services: (a) India-Pakistan/U.K. Continent; (b) India/Mauritius/West Africa; (c) India/Levant Ports/U.S.S.R. (Black Sea Ports). (d) India/U.S.A.

STEVENSON LINE NEW YORK

Agents:—James Mackintosh & Co. Private Ltd., Ballard Road, Fort. U.S.A.—

Persian Gulf/India/Pakistan Service.

UNITED LINER AGENCIES OF INDIA (PRIVATE) LTD.*Kaiser-i-Hind Building, Ballard Estate, Bombay 1.*

Telegraphic Address:—"ULINERS".

Telephones:—26-3542; 26-3697; 26-4596.

SERVICESAgents for the East Asiatic Co., Ltd., Copenhagen, the Swedish East Asia Co., Ltd., Gothenburg and Wilhelmsen Lines, Oslo. Maintains Joint Services from Scandinavian, Continental, Mediterranean and Red Sea ports to India, Pakistan, Ceylon and Burma and *vice versa*.

There are 2-3 vessels a month bringing import cargo to Karachi and Bombay and an equal number of sailings loading at Karachi, Kathiawad ports and Bombay for Red Sea, Mediterranean, North Continent and Scandinavia.

Another separate Service is maintained to the East Coast of India, Pakistan and Burma, and these vessels normally call at Colombo, Madras, Rangoon, Chittagong and Calcutta and on completion of discharge of import cargo, load at the same ports plus Chalna in East Pakistan and Malabar Coast ports for Red Sea, Mediterranean, North Continent and Scandinavia.

YUGOSLAV LINE*Jugoslavenska Linijaska Plovidba Yugoslav Line, Rijeka, Yugoslavia.***Agents:**

BOMBAY:—Madhavai & Co. Private Ltd., Alice Building, Dadabhai Naorji Road, Bombay 1. Telegraphic Address: "ABILITY".

Telephones: 253851/52, 253270.

CALCUTTA:—Madhavai & Co. Private Ltd., 13, Brabourne Road, Calcutta 1. Telegraphic Address: "OMAMBAJI". Telephone: 222815.

MADRAS:—Southern Shipping Corporation, 159/160, Moore Street, Madras. Telegraphic Address: "SOUTHSHIP".

SERVICES

Adriatic to Far East starting from Rijeka to Hongkong and back.

THE MERCHANT STEAM NAVIGATION CO. (PRIVATE), LTD.*339-33, Narsi Natha Street, Bombay 9.*

Telephones: 38055 & 38056.

Established: 1921.

Branches:

The Merchant Steam Navigation Co. (Private), Ltd., Beach Road, Calcut.

The Merchant Steam Navigation Co. (Private), Ltd., Alleppey.

The Merchant Steam Navigation Co. (Private), Ltd., Tellicherry.

The Merchant Steam Navigation Co. (Private), Ltd., Badagara.

Agents:

MALABAR PORTS:—Messrs. Bhanjee Jevath Khona, Bazar Road, Cochin; M/s. Gordhandas Khimji, Cannanore; M/s. Ramdas Vasanji, Ponnani; The United Shipping Corporation Ltd., Fort Road, Mangalore (South Kanara); The Central Commercial Co., 73, Mint Road, Madras; M/s. V. V. Danushkodi Nadar & Sons, Post Box No. 2, Tuticorin.

SAURASHTRA PORTS:—M/s. Pestonjee Bhicajee, Kandla, Veraval, Okha, Navlakhi; M/s. Darabshaw B. Cursetji's Sons, Bhavnagar (Saurashtra); M/s. Prabhuji L. Pandya & Co., Outside Bedi Gate, Jamnagar (Saurashtra); Shri Digvijaya Cement Co., Ltd., Sika Port.

GOA:—M/s. Mehta & Co., Vasco-da-Gama.

KARACHI:—M/s. Brigstocks Edulji & Co., Kemary, Karachi (Pakistan).

COLOMBO:—M/s. M. A. Razak & Co., Ltd., Gaffoor Building, Colombo 1.

SERVICESFrom Bombay to Calicut, Cochin and Tuticorin and at the same time touching other minor ports also and *vice versa*.From Bombay to Saurashtra Ports and *vice versa*.

Also touch Colombo & Karachi according to demand.

MESSAGERIES MARITIMES CO.*9, Rue de Sess, Paris-9.***Agents:**

ALLEPPEY:—C. J. Revel, 6/75, Calvethy, Cochin 1. Telegraphic Address: "REVELCOCHIN".

BOMBAY:—Volkart Brothers, 19, Graham Road, Ballard Estate, P.O. Box No. 199, Bombay-1. Telegraphic Address: "ENGADINE".

PASSENGER AGENTS:—Nisa & Co., 32, Rampart Bow, Bombay 1. Telegraphic Address: "NISTEAM".

CALCUTTA:—Clegg, Cruickshank & Co., Ltd., 14, Netaji Subhas Road, P.O. Box. No. 548, Calcutta-1. Telegraphic Address: "CLEGG".

COCHIN:—C. J. Revel, 6/75, Calvethy, Cochin 1. Telegraphic Address: "REVEL".

COCHINADA (Kakinada):—Gordon Woodroffe & Co. (Madras) Ltd., Kakinada. Telegraphic Address: "WOODROFFE".

MADRAS:—Messageries Maritimes Co., 6/20, North Beach Road, Madras-1. Telegraphic Address: "MESSAGERIE".

PONDICHERY:—Messageries Maritimes Co., 24, Cours Chabrol. Telegraphic Address: "MESSAGERIE".

O. S. K. LINE*Osaka, Japan.***Agents:**

BOMBAY:—Marine Transport Company Private Ltd., Wakefield House, Sprott Road, Ballard Estate, P.O. Box 1721. Tel. 264094, 264095. Telegraphic Address: "CHARTERING".

KARACHI:—M. M. Isphani Ltd., McLeod Road. Telephones: 33771, 33772, 33773. Tel. Address: "OSKISPA".

MADRAS:—Best & Co., Private Ltd., P.O. Box 63. Telephone: 2933. Tel. Address: "BEST".

CALCUTTA:—F. W. Heilgers & Co., Private Ltd., Chartered Bank Building, P.O. Box 185. Telephone: Bank 2351. Tel. Address: "HEILGERS".

Regular monthly freight Services to and from India:

Karachi, Bombay/Japan Line.

(Via Colombo, Madras, Singapore, Hongkong).

Calcutta/Japan Line.

(Via Rangoon, Singapore).

BROCKLEBANKS' CUNARD SERVICES*Thos. & Jno. Brocklebank Ltd., Cunard Building, P.O. Box No. 26, Liverpool 3.***Agents:**

Grahams Trading Co. (India) Private Ltd., 6, Lyons Range, Calcutta 1. Telegrams: "GRAHAMS". Telephone: 22-4701 (5 lines)

Ripley & Co., Ltd., P.O. Box No. 39, Viahakapatnam. Telegrams: "RIPLEY". Telephone: 71.

Services to Aden, Port Sudan, Port Said, Boston, New York, Wilmington (Del.), Philadelphia, Norfolk, Baltimore and Savannah, New Orleans, Houston and Galveston.

INDIA-NATAL LINE**Agents:**

CALCUTTA:—Anderson Wright Ltd., P.O. Box 140, 7, Wellesley Place, Calcutta-1. Telephone: 23-2572/5. Telegrams: "TALWEIR".

MADRAS:—Perry & Co., Ltd., P.O. Box 12, Madras-1. Telephone: 2983. Telegrams: "WERTAL".

VIERAKAPATNAM:—James Finlay & Co. Ltd. Telephone: 80. Telegrams: "MERCATOR".

Trading ports:—Calcutta, Madras, Chalna, Chittagong, Rangoon, Colombo, Mombasa, Tanga, Zanzibar, Dar-es-Salaam, Beira, Lourenco Marques and Durban.

Only cargo service.

ISTHMIAN LINES, INC.

71, Broadway, New York 6, N.Y., U.S.A.

*Agents :*A. V. Thomas & Co., Ltd., Beach Road, Alleppey. *Telegraphic Address :* 'THOM-ALLEPPEY'. *Phone :* 625.Chotalal Premji & Co., P. Box 14, Bedi Bunder. *Telegraphic Address :* 'CHOPREMJI', Bedi Bunder.Mackinnon Mackenzie & Co., Private Ltd., Post Box 122, Bombay. *Telegraphic Address :* 'MACKINNONS'. *Phone :* 268021.The Angus Co., Ltd., 3, Clive Row, Post Box 53, Calcutta. *Telegraphic Address :* 'ANGUSPENCK'. *Phone :* 22-1661.A. V. Thomas & Co., Ltd., Kozhikode. *Telegraphic Address :* 'THOM'.A. V. Thomas & Co., Ltd., Ballard Road, Post Box 30, Cochin. *Telegraphic Address :* 'AVITHOM COCHIN'. *Phone :* 355.The Coromandel Co., Ltd., Kakinada. *Telegraphic Address :* 'HALL'.Hargovind & Co., Cutch Mandvi. *Telegraphic Address :* 'HARGOVIND'.Binny & Co. (Madras) Ltd., Post Box 66, Madras. *Telegraphic Address :* 'BINNY'. *Phone :* 21271.Peirce Leslie & Co., Ltd., Post Box 9, Mangalore, South India. *Telegraphic Address :* 'PEIRCE'. *Phone :* 10.General Agency Ltd., Marmugao (Portuguese India). *Telegraphic Address :* 'GENAGENCY'.Chotalal Premji & Co., Morvi (Kathiawar), Navalaki. *Telegraphic Address :* 'CHOPREMJI'.Parry & Co., Ltd., Nagapattinam. *Telegraphic Address :* 'UBIQUITOUS'.Chotalal Premji & Co., Port Okha. *Telegraphic Address :* 'CHOPREMJI'.A. V. Thomas & Co., Ltd., Quilon, Kerala. *Telegraphic Address :* 'THOM QUILON'. *Phone :* 414.A. & F. Harvey Ltd., Tuticorin. *Phone :* 6. *Telegraphic Address :* 'HARVEY'.James Finlay & Co., Ltd., Vishakapatnam. *Telegraphic Address :* 'MERCATOR'. *Phone :* 680.*The names of the main trading ports in India, Pakistan and Ceylon :**India :* Alleppey, Bedi Bunder, Bombay, Calcutta, Kozhikode, Cochin, Kakinada, Cutch Mandvi, Madras, Mangalore, Marmugao, Navalaki, Nagapattinam, Port Okha, Quilon, Tuticorin, Vishakapatnam.*Pakistan :* Karachi, Chittagong, Chalna (Khulna).*Ceylon :* Colombo, Galle.**CITY LINE LTD.**

75, Bothwell Street, Glasgow C. 2, Scotland.

*Agents :*Best & Co., Private Ltd., Madras, P.O. Box 63. *Phone :* 21231. *Telegrams :* 'BEST'.Gladstone Lyall & Co., Ltd., Vishakapatnam. *Telegrams :* 'GLADSWYLL'. *Phone :* 724.Gladstone Lyall & Co. Ltd., 4, Fairlie Place, Calcutta 1. *Telegrams :* 'GLADSWYLL'. *Phone :* 222561 (8 lines).Killick, Nixon & Co., Private Ltd., Post Box 109, Home Street, Bombay. *Telegrams :* 'KILICK'. *Phones :* 262011-16 (6 lines) (Shipping), 261395 (Clearing); 262311-16 (General—6 lines).**AIRWAY COMPANIES****AIR-CEYLON LTD.**

Stadium House, 81-83, Veer Nariman Road (Churchgate), Bombay 1.

Tel : 36257 and 35614. *Cable Address :* 'AIRCEYLON', Bombay.The Company operates Services on the following routes :—
SINGAPORE — COLOMBO — BOMBAY — KARACHI — BAHRAIN — CAIRO — ROME — LONDON — AMSTERDAM AND *vice versa* (Weekly).COLOMBO — JAFFNA — MADRAS AND *vice versa* (Daily except Tuesdays and Fridays)COLOMBO — JAFFNA — TRICHINOPOLY AND *vice versa* (Daily).**AIR-FRANCE***Regional Head Office :* Scindia House, Janpath, NEW DELHI. *Tel. :* 40491, 10192.*Branch Office :* Middleton Street, 41, Chowringhee Road, CALCUTTA. *Tel. :* 445308, 445309.Aspinwall & Co., Ltd., Fort Cochin, Malabar Coast, South India. *Tel. :* 'ASPINWALCO'. *Phones :* 41207, 897.

Important trading ports are London, Dundee, Avonmouth, Hull, Dunkirk, Boulogne.

KHEDIVIAL MAIL LINE*S.A.S., Alexandria**Agents :—*Marine Transport Company Private Ltd., Wakefield House, Sprott Road, Ballard Estate, P.O. Box 1721, Bombay 1.*Telegraphic Address :* 'CHARTERING'. *Phones :* 264094 & 264095.*Services :—*The Line's vessels ply between Bombay, Karachi, Aden, Djibouti, Port Sudan, Jeddah, Suez, Port Said, Alexandria, Beyrouth, Naples, Leghorn, Genoa, Marseilles, Charleston, Baltimore, Philadelphia, Norfolk and New York and *vice versa*.**CANADIAN PACIFIC RAILWAY CO.'S STEAMSHIP LINES***Montreal, Quebec State, Canada.*

Head Office of Canadian Pacific Steamships Ltd. (Managers and Agents of C.P.R. Co.'s Ocean Steamship Lines), Royal Liver Building, Pier Head, Liverpool.

*Agents :—*Mackinnon, Mackenzie & Co., Private Ltd., Calcutta and Bombay.*Telegraphic Address :* Mackinnons.*Phone :* Calcutta—22-1661 and Bombay—26-9021.*Services :—*U.K. to Quebec and Montreal (Summer); U.K. to Saint John N. B. and Halifax N. S. (Winter).**PENINSULAR AND ORIENTAL S. N. CO.**

122, Leadenhall St., London E.C. 3.

Agents :

Mackinnon Mackenzie & Co., Private Ltd., Calcutta and Bombay.

Binny & Co. (Madras) Ltd., 7, Armenian Street, Madras-1.

*Services :—*U.K.-Gibraltar, Marseilles, Malta, Port Said, Suez, Port Sudan, Aden, Karachi, Bombay; Colombo, Straits, China and Japan; Fremantle, Adelaide, Melbourne, Sydney and Brisbane; to Colombo, Madras and Calcutta (joint cargo service with B.I.S.N. Co. Ltd.).**THE WESTERN SHIPPING CORPORATION (PRIVATE) LTD.**

4th Floor, Steelcrete House, Dinshaw Wacha Road, Churchgate Reclamation, Bombay-1.

The Corporation was set up in June 1956, with an authorised capital of Rs. 10 crores, under the auspices of the Second Five-Year Plan of the Government of India, to promote India's Overseas trade.

It has a 10,172-ton dead-weight steam oil tanker r.r. s.t. 'Desh Sawk', now under Time Charter to Messrs. Burmah-Shell Oil Storage & Distributing Co. of India Ltd., London.

With the addition of new units to the Corporation's fleet, for which orders have been placed, the following cargo services are proposed to be inaugurated :—India/Poland, India/Persian Gulf, India/U.S.S.R. and India/Red Sea.

Chairman, Dr. Nagendra Singh, I.C.S., Joint Secretary, Ministry of Transport and Director General of Shipping.*Managing Director,* B. R. Saxena.Dhanraj Mahal, Apollo Bunder, BOMBAY. *Telephones :* 253800.
LONDON — PARIS — FRANKFURT — ROME — ISTANBUL —
TEL AVIV — TEHERAN — KARACHI — NEW DELHI —
CALCUTTA — RANGOON — BANGKOK — SAIGON — HONG
KONG — MANILA — TOKYO.**AIR-INDIA INTERNATIONAL CORPORATION***Offices :—*AHMEDABAD : C/o Indian Airlines Corporation, Dr. Tankaria Road; *Telephones :* 3100. BANGALORE : Mahatma Gandhi Road; *Telephones :* 4615. BOMBAY : Mahatma Gandhi Road; *Telephones :* 259191. CALCUTTA : 4, Dalhousie Square; *Telephones :* 233314. COIMBATORE : Trichy Road; *Telephones :* 602. COLOMBO : Gafoor Building, Fort; *Telephones :* 3136. DELHI : 9-A, Connaught Place; *Telephones :* 40508. JAMSHEDPUR : 2, Bank Area, Tel. CITY 2683A. JORHAT : Club Road, Cinnamara, Tel. JORHAT : 387; JULIUNDUR : 531, Model Town Tel. 669. KARACHI : Metropole Hotel; *Telephones :* 52474. KANPUR : 4, J. C. Ryon Road. Tel. 4432. MADRAS : Mount Road; *Telephones :* 86193.

Cable address for all offices: "AIRINDIA".

Air-India International operates services on the following routes:—

1. CALCUTTA — DELHI — BOMBAY — CAIRO — DAMASCUS — BEIRUT — ROME — GENEVA — ZURICH — PRAGUE — PARIS — DUSSELDORF — LONDON AND RETURN (Daily Service).
2. a) BOMBAY — MADRAS — SINGAPORE — JAKARTA — DARWIN — SYDNEY AND RETURN (Once a week).
b) BOMBAY — MADRAS — SINGAPORE — JAKARTA (Once a week).
3. BOMBAY — CALCUTTA — BANGKOK — HONG KONG — TOKYO AND RETURN (Twice a week).
4. a) BOMBAY — KARACHI — ADEN — NAIROBI AND RETURN (Once a week).
b) BOMBAY — ADEN — NAIROBI AND RETURN (Once a week).
5. BOMBAY — DELHI — TASHKENT — MOSCOW (Once a week).
All flights operated by Super Constellation aircraft.

ALITALIA

Italian Airlines, Ambassador Hotel, Churchgate, Bombay 1;
Tel.: 241181.

The Company operates the following lines:

Flight 701 (DC-7C—Tourist and First Class) on Mondays, Thursdays, Fridays and Sundays:

BOMBAY — KARACHI — ROME

Flight 700 (DC-73—Tourist and First Class) on Wednesdays, Thursdays, Saturdays and Sundays:

ROME — KARACHI — BOMBAY

Direct connections exist to Frankfurt, London, Zurich, New York and all the main points in Europe.

BRAATHENS, SOUTH AMERICAN & FAR EAST AIR TRANSPORT A/S.

General Agents:—Tidemand & Co. (India) Private Ltd., India House, Fort Street, Bombay 1.

World-wide charter Operators.

BRITISH OVERSEAS AIRWAYS CORPORATION

Offices: 202-B, Vir Nariman Road, Churchgate, Bombay 1;
Speedbird House, Service Road, Connaught Place, New Delhi-1;
41, Chowringhee Road, Calcutta-16; 35/4, Mount Road, Madras 2.

1. COMET 4 — FIRST/TOURIST CLASS
(a) LONDON — FRANKFURT-ON-MAIN — BEIRUT — TEHERAN — KARACHI — CALCUTTA — RANGOON — HONG KONG — TOKYO
(b) LONDON — FRANKFURT-ON-MAIN — BEIRUT — KARACHI — DELHI — CALCUTTA — BANGKOK — HONG KONG — TOKYO
(c) LONDON — ROME — BEIRUT — TEHERAN — KARACHI — CALCUTTA — RANGOON — HONG KONG — TOKYO
(d) LONDON — ZURICH — BEIRUT — KARACHI — DELHI — CALCUTTA — BANGKOK — HONG KONG — TOKYO
2. BRITANNIA — FIRST CLASS
LONDON — ZURICH — BEIRUT — KARACHI — CALCUTTA — BANGKOK — SINGAPORE — DARWIN — MELBOURNE — SYDNEY
3. BRITANNIA — FIRST/TOURIST CLASS
(a) LONDON — ZURICH — BEIRUT — KARACHI — CALCUTTA — RANGOON — SINGAPORE — JAKARTA — DARWIN — SYDNEY
(b) LONDON — ZURICH — BEIRUT — KARACHI — CALCUTTA — SINGAPORE — JAKARTA — DARWIN — SYDNEY
(c) LONDON — BEIRUT — BAHRAIN — BOMBAY — COLOMBO — SINGAPORE — HONG KONG;
(d) LONDON — ROME — BEIRUT — BAHRAIN — BOMBAY — COLOMBO — SINGAPORE — HONG KONG;
(e) LONDON — FRANKFURT-ON-MAIN — BEIRUT — BAHRAIN — BOMBAY — COLOMBO — SINGAPORE — DARWIN — MELBOURNE — SYDNEY

*These services may at times make a landing at Agartala.

Qantas Empire Airways

1. SUPER-G CONSTELLATION — FIRST/TOURIST CLASS
(a) LONDON — ROME — ATHENS — ISTANBUL — CAIRO — KARACHI — CALCUTTA — BANGKOK — SINGAPORE — JAKARTA — DARWIN — BRISBANE — SYDNEY
(b) LONDON — ROME — ATHENS — CAIRO — KARACHI — CALCUTTA — KUALA LUMPUR — SINGAPORE — JAKARTA — PERTH — MELBOURNE — SYDNEY
2. SUPER-G CONSTELLATION — TOURIST
LONDON — FRANKFURT-ON-MAIN — ROME — ATHENS — CAIRO — KARACHI — CALCUTTA — BANGKOK — SINGAPORE — JAKARTA — DARWIN — SYDNEY
3. SUPER-G CONSTELLATION — FIRST/TOURIST CLASS
LONDON — ROME — ISTANBUL — CAIRO — KARACHI — BOMBAY — COLOMBO — SINGAPORE — PERTH — MELBOURNE — SYDNEY

Middle East Airlines†

1. SUPER VISCOUNT — TOURIST
BEIRUT — KUWAIT — BAHRAIN — KARACHI — BOMBAY
- East African Airways†
1. CANADAIIR — TOURIST
NAIROBI — ADEN — KARACHI — BOMBAY

INDIAN AIRLINES CORPORATION

Thapar House, Queensway, New Delhi.

1. Madras—Bangalore—Coimbatore—Cochin—Trivandrum—Madurai—Trichy—Madras (daily).
2. Madras—Bangalore—Hyderabad (daily).
3. Madras—Nagpur—Delhi (Night Airmail Service: daily).
4. Bombay—Bangalore—Bombay (daily).
5. Bombay—Aurangabad—Hyderabad (daily).
6. Bombay—Nagpur—Calcutta (Night Airmail Service: daily).
7. Bombay—Karachi—Bombay (daily).
8. Bombay—Ahmedabad—Rajkot—Bhuj—Karachi (daily).
9. Bombay—Bhavnagar—Bombay (daily).
10. Bombay—Keshod—Porbandar—Rajkot—Jamnagar—Bhuj (daily).
11. Bombay—Belgaum—Mangalore—Bangalore (daily).
12. Bombay—Calcutta—Bombay (daily).
13. Bombay—Madras—Colombo (daily).
14. Bombay—Delhi—Bombay (daily).
15. Calcutta—Gauhati—Tezpur—Jorhat—Lilabari—Mohanbari (daily).
16. Calcutta—Rupai—Gauhati (daily).
17. Calcutta—Gauhati—Mohanbari—Passighat—Along (daily).
18. Calcutta—Agartala—Gauhati (daily).
19. Calcutta—Agartala—Silchar—Imphal (daily).
20. Calcutta—Agartala—Khowai—Kamapur—Kailashahar (daily). Economy Class service).
21. Calcutta—Bhubaneswar—Vishakapatnam—Hyderabad (daily).
22. Calcutta—Madras—Calcutta (daily).
23. Calcutta—Dacca—Calcutta (daily).
24. Calcutta—Chittagong—Calcutta (daily).
25. Calcutta—Rangoon—Calcutta (daily).
26. Calcutta—Gauhati—Calcutta (freighter: daily).
27. *Calcutta—Kailashahar—Calcutta (freighter four days in a week).
28. *Calcutta—Kamapur—Calcutta (freighter: four days in a week).
29. *Calcutta—Khowai—Calcutta (freighter: thrice in a week).
30. Calcutta—Agartala—Calcutta (freighter: daily).
31. Calcutta—Silchar—Imphal—Silchar—Calcutta (freighter: daily).
32. Agartala—Gauhati—Agartala (freighter: five times a week).
33. Calcutta—Bagdogra—Calcutta (freighter: daily).
34. Calcutta—Gauhati—Mohanbari (weekly-Fridays).
35. Calcutta—Rupai—Calcutta (freighter).
36. Delhi—Calcutta—Delhi (daily).
37. Delhi—Hyderabad—Madras—Hyderabad—Delhi (daily).
38. Delhi—Lucknow—Allahabad—Banaras—Patna—Calcutta (daily).
39. Patna—Kathmandu—Patna (daily).
40. Delhi—Chandigarh—Amritsar—Pethankot—Jammu—Srinagar (daily).
41. Delhi—Lahore—Delhi (thrice a week).
42. Delhi—Karachi—Delhi (daily).
43. Delhi—Agra—Benaras—Patna (daily).
44. Delhi—Jaipur—Delhi (daily).
45. Delhi—Amritsar—Kabul (weekly).
46. Delhi—Panna—Delhi (Non-scheduled—weekly).

The following services have been suspended until further notice. (Feb. 1959): (1) Delhi—Srinagar—Delhi (direct); (2) Srinagar—Pethankot—Srinagar; (3) Srinagar—Lah—Srinagar.

† B.O.A.C. are General Sales Agents in India for M.E.A. and E.A.A.
‡ Comet 4 is to replace Britannia services in early June.

BOOKING AND RESERVATION OFFICES

Agartala (Khosh Mahal Bldg., Central Road, Passenger Booking Freight Booking).
Agra (Imperial Hotel).
Ahmedabad (Old Bombay Garage, Dr. Tankaria Road, Aerodrome Office, Ahmedabad).
Allahabad (15, Canning Road).
Amritsar (Brij Bhawan, Gandhi Gate).
Aurangabad (Printravel Hotel, Station Road).
Siliguri (Bagdogra, Hilcart Road, Siliguri).
Bangalore (12-A, Mahatma Gandhi Road, Bangalore Cantt.; Airport Office; H. A. L.).
Belgaum (Hotel Green Camp.).
Banaras (Clarks Hotel, Banaras Cantt.; Babatpur Airport).
Bhairawa (P. O. Nautanwa, Distt. Gorakhpur (U.F.)).
Bhavnagar (Diwanpura Road).
Bhubaneswar (Unit No. 6, Type 6, Quarter 6, New Capital).
Bhubi (Holi Chakia, Near City Palace).
Bombay (Airport Santa Cruz (24 hours Service). Army & Navy Building (24 Hrs Service), Mahatma Gandhi Road, Fort).
Calcutta (4, Chittaranjan Avenue (Passenger Bookings); (Freight Bookings), Airport, Dum Dum: Booking Counter; Traffic).
Chandigarh (Hotel Aroma; Sector 22).
Chittagong (319 Quaid-e-Azam Jinnah Road: Patenga Airport).
Cochin ("Luis Hall", Broadway, Ernakulam. Airport: Willingdon Island).
Colombatore (India House, Trichy Road; Airport Palamudu).
Colombo (City Booking Office: 27, Main Street, Gaffoor Building, Fort; Airport Traffic Office: Colombo Airport, Ratmalana).
Dacca (Noor Chambers, 33 Jinnah Avenue, Ramna; Airport).
Darjeeling (Laden La Road).
Delhi (Malhotra Building, Queensway, New Delhi. Airport Safdarjang; Airport Palam).
Dibrugarh (Mohanbari, Mancotta Road, New Khallamari).
Digbol (Blawanath Singh & Co.).
Gauhati (Pujabari, Pan Bazar).
Hyderabad (Bashir Bagh Road (24 hours service); Begumpet Airport).
Imphal (Mahatma Gandhi Avenue).
Jaipur (2-B, New Colony).
Jammu (Standard Hotel, Residency Road).
Jamnagar (Indra Mahal, Bhid-Bhanjan Road; Airport Office).
Jorhat (Nehru Park Road).
Kabul (Deh Afghan Shaha Md. Khanwad Road).
Karachi (Karachi House, McLeod Road; Airport Office, Drigh Road Airport; Air Freight unit).
Kathmandu (8/42 Judha Sadak Airport).
Kashod (Near Railway Station).
Lahore (11, Dayal Singh Mansions, The Mall; Walton Airport).
Lilabari (North Lakhimpur, Assam).
Lucknow (Carlton Hotel).
Madras (5 and 6, Mount Road; Airport Office; Traffic Officer (Passenger Enquiries); Traffic Officer, Airport).
Madurai (101, West Sandapettai Street).
Mangalore (Sri Rang Bhavan, K. S. Rao Road; Airport).
Nagpur (Asha House, Kingsway (24 Hours Service), Booking Office Airport Sonagaon Traffic Office).
Passighat (Old Hospital Colony).
Pathankot (Hiralal Buildings, Railway Road).
Patna (Exhibition House; Airport).
Porbandar (Harish Talkies Buildings, opp. Caltex Petrol Pump).
Rajkot (Hir Mahal, Coronation Gardens, Adjoining Lal Stores; Airport).
Rangoon (Randeria Building, 533, Merchant Street; Airport Office).
Rupsi (Netaji Subhas Road, Dhubri).
Shillong (A. C. Sen & Co., Peak Hotel, Shillong).
Silchar (Club Road).
Srinagar (Tourist Reception Centre; Airport).
Tespur (Bhabani Kutir, Opp. Academy School).
Tinuklia (Asiatic Trading Co.).
Tiruchirappalli (Ashok Bhawan, Junction Road; Airport, Govt. Civil Aerodrome, Pudu Kottah Road, Tiruchirappalli).
Trivandrum (Trivandrum Air Centre, Main Road; Airport Office, Trivandrum).
Vishakapatnam (20/133, Thompson Road; Airport).

PAKISTAN INTERNATIONAL AIRLINES CORPN.

Head Office: PIA House, Karachi Airport, Karachi, Pakistan.
Offices in India: Metro Hotel, New Delhi; 36, Chowringhee Road, Calcutta; Airlines Hotel, Churchgate, Bombay.

1. NEW DELHI—KARACHI (VISCOUNT—815).
2. CALCUTTA—DACCA (DC-3).
3. CALCUTTA—CHITTAGONG—RANGOON (DO-8).
4. BOMBAY—KARACHI (VISCOUNT—815).

PAN AMERICAN WORLD AIRWAYS SYSTEM

42, Chowringhee Road, Calcutta-16.

Imperial Hotel, New Delhi.

Taj Mahal Hotel, Bombay.

NEW YORK—SAN FRANCISCO via LONDON—PARIS—ROME—BEIRUT—KARACHI—CALCUTTA—RANGOON—BANGKOK—HONGKONG—MANILA—TOKYO—HONOLULU and via LONDON—BRUSSELS—DUSSELDORF—FRANKFURT—ISTANBUL—BEIRUT, etc.

QANTAS EMPIRE AIRWAYS

B.O.A.C. Air Booking Centre, 202-B, Vir Nariman Road, Churchgate, Bombay 1.

Telephone: 242211 (4 lines).

Qantas operates services from Christchurch in New Zealand to London via Bombay. The services are operated in conjunction with B.O.A.C. and T.E.A.L.

Connecting services by jet-prop BOAC Britannias are available for onward journeys from Tokyo to San Francisco and New York across the Pacific, and daily connections from London to Montreal and New York.

(See also under British Overseas Airways Corporation).

K. L. M. ROYAL DUTCH AIRLINES

Incorporated in the Netherlands

(Liability of the shareholders limited).

7, Chowringhee, Calcutta 13; Phone: 23-3962 (4 lines); Cables: Kalmaera: 9-A, Connaught Place, New Delhi, Phone: 44142 & 44537; Cables: Transaera, Bombay (General Agents): Trading Co. Late Hest & Co. Ltd., Booking Office: Taj Mahal Hotel, Phone: 36391 and 36754, Cables: Heglair; Madras (General Agents) Air Ceylon Ltd., Connemara Annexe, Mount Road,

Phone: 86315, Cables: Airceylon.

1. CALCUTTA—KARACHI—BEIRUT—ROME—FRANKFURT—AMSTERDAM (West Bound—Thursdays)
2. CALCUTTA—KARACHI—BEIRUT—ROME—DUSSELDORF—AMSTERDAM (West Bound—Sundays).
3. NEW DELHI—KARACHI—CAIRO—ROME—FRANKFURT—AMSTERDAM (West Bound—Tuesdays).
4. CALCUTTA—BANGKOK—MANILA—BIAK—SYDNEY (East Bound—Mondays).
5. NEW DELHI—BANGKOK—MANILA—TOKYO (East Bound—Saturdays).

In addition, KLM. operates seven west bound flights a week from Karachi. Numerous through-connections also available at Amsterdam to several cities in Europe, Africa, North, Central and South America and the Caribbean.

SCANDINAVIAN AIRLINES SYSTEM

CALCUTTA: 18, Park Street.

NEW DELHI: Claridge's Hotel, 12 Aurangzeb Road.

BOMBAY: Agents: United Liner Agencies of India, (Private) Ltd., Kaiser-I-Hind Building, Ballard Estate.

MADRAS: Agents: United Liner Agencies of India, (Private) Ltd., "Safalya Chambers", 7, Second Line Beach.

The Company's round the world service, twice a week, is as follows:-

CALCUTTA—KARACHI—ATHENS—ROME—ZURICH—DUSSELDORF—COPENHAGEN—STOCKHOLM—COPENHAGEN—ANCHORAGE—TOKYO—MANILA—BANGKOK—CALCUTTA.

TRANS WORLD AIRLINES

Booking Office: Taj Mahal Hotel, Bombay.

Administrative Office: "Adelphi", 8, Queen's Road, Bombay.

T.W.A. Routes: Manila—Bangkok—Ceylon—India—Middle East—Europe—U.S.A. via Ireland or through the Iberian connections to U.K. and Germany.

ELECTRIC POWER DEVELOPMENT

(By courtesy of the Central Water and Power Commission, Power Wing.)

It is estimated that well over 80 per cent of India's power requirements are at present obtained from animal dung, wood, agricultural waste, etc., and from living energy (animal and human effort).

About industrial energy, about 80 per cent comes from coal; petroleum products account for about 14 per cent and the balance comes from hydro-electricity.

The aggregate generating capacity of the country in electric power has grown as follows (kW) :—

1900	1,180
1905	11,750
1910	31,847
1915	107,286
1920	130,009
1925	327,152
1930	577,140
1935	859,402
1940	1,181,528
1945	1,249,454
1950	1,712,515
1951	1,835,428
1952	2,061,755
1953	2,305,190
1954	2,493,996
1955	2,694,817
1956	2,886,141
1957-58	3,223,111

The total installed capacity at the end of March, 1958 was 3,223,111 kW, of which 1,213,910 kW was water power and 2,009,192 kW thermal.

The per capita consumption of electric power in India is ridiculously low. In 1957-58 it was 23.66 kW hours as against 5,160 in Canada, 3,602 in Sweden, 4,117 in the U.S.A., 7,068 in Norway and 2,899 in Switzerland. The latest estimates place the hydro-electric power potential of India at 35 million kW, but only a little more than one million kW has been tapped so far.

The production and sale of electric power from 1949 to 1957-58 was as follows (in million kWh) :

	Generated	Sold
1949	4,910	4,000
1950	5,110	4,160
1951	5,860	4,790
1952	6,120	5,000
1953	6,700	5,800
1954	7,520	6,250
1955	8,592	7,111
1956	9,662	7,959
1957-58	11,321	9,307

An analysis of electric power consumption in million kWh is given below. The figure in brackets shows the percentage :

	1956	1957-58
Domestic or Residential light and small power ..	934.122 (11.7)	1,086.130 (11.7)
Commercial light and small power ..	545.851 (6.8)	606.814 (6.5)
Industrial Power ..	5,328.424 (66.9)	6,141.799 (66.0)
Traction ..	404.925 (5.1)	421.894 (4.6)
Public lighting ..	117.767 (1.5)	140.458 (1.5)
Irrigation ..	316.180 (4.0)	543.640 (5.8)
Water Works ..	817.076 (4.0)	365.989 (3.9)
TOTAL ..	7,959.345 (100.0)	9,306.724 (100.0)

The following statement shows the number of electrified towns and villages at the end of 1957-58 :

Population	Number of towns	Number with electric supply	Percentage of towns with electric supply to total
Over 100,000	73	73	100.0
50,000 to 100,000	112	112	100.0
20,000 to 50,000	401	354	88.28
10,000 to 20,000	856	10,173	1.81
5,000 to 10,000	3,101		
Below 5,000	556,565		
TOTAL	561,108	10,712	1.91

It may be pointed out that in 1957-58 six large cities—Bombay, Calcutta, Ahmedabad, Kanpur, Madras and Delhi accounted for 40.9 per cent of the country's installed capacity and 39.7 per cent of the generated energy.

Out of the 561,108 villages in India only about 10,712 were provided with electric power as on March 1958.

The total number of consumers at the end of 1957-58 was 3,207,508 (Domestic 2,474,030; Commercial 515,866 Industrial 125,414; Public lighting 4,549; Irrigation 87,649).

The State-wise analysis for 1957-58 is as follows :

State	No. of stations	Installed capacity (kW)	Energy generated mln. kWh)	Energy sold (mln. kWh)	Capacity in Industrial Plants (kW)	Capacity in railway plants (kW)	Annual per capita consumption (kWh)
Andhra	44	205,791	320.298	254.427	50,831	NOT AVAILABLE	7.48
Assam	27	14,964	18.070	15.867	..	..	1.61
Bihar	33	203,077	1,050.868	455.615	288,194	1957-58.	10.80
Bombay	179	844,126	3,386.413	2,920.632	110,417	..	55.64
Jammu and Kashmir	8	12,875	20.332	26.234	..	..	5.47
Kerala	9	113,777	441.396	342.384	1,661	..	23.24
Madhya Pradesh	88	91,955	187.492	173.527	34,075	..	6.12
Madras	8	249,666	1,342.006	1,024.949	25,145	..	31.44
Mysore	32	190,824	934.000	789.549	12,875	..	37.42
Orissa	25	95,341	93.220	63.297	15,850	..	3.97
Punjab	41	174,521	667.223	302.279	19,503	..	17.23
Rajasthan	55	45,931	96.140	68.962	31,264	..	8.97
Uttar Pradesh	66	354,905	872.008	717.839	40,930	..	10.44
West Bengal	46	563,064	1,090.415	1,873.136	127,380	..	65.49
Delhi	4	54,730	203.773	265.637	10,779	..	140.03
Rest	9	7,764	8.238	12.390	535	..	3.88
TOTAL	674	3,223,111	11,321.892	9,306.724	769,439	..	23.66

INSTALLED CAPACITY

Some individual industries have power-stations of their own. The number of installations and the installed capacity are as follows (as on 31st March, 1958) :

	No.	Capacity (kW)
Aluminium (Primary) ..	5	16,482
Aluminium (Secondary) ..	8	234
Cement (Primary) ..	27	112,380
Cement (Secondary) ..	25	649
Chemicals ..	31	19,235
Collieries ..	155	58,071
Copper (Primary) ..	1	9,875
Copper (Secondary) ..	1	..
Cotton Textiles ..	327	119,817
Fertilisers ..	4	50,160
Gold ..	1	4,725
Iron & Steel (Primary) ..	5	172,450
Iron & Steel (Secondary) ..	20	480
Jute ..	83	33,529
Paper ..	21	73,535
Silk ..	27	1,480
Soap ..	14	366
Sugar ..	81	60,431
Tanneries ..	8	297
Wool ..	13	5,253
TOTAL†	857	769,439

† Does not take into account the figures for railways.

The generating capacity by ownership is as follows :

	1955	1956	1957-58
State owned (Public Sector) ..	1,517,476	1,683,533	1,937,747
Companies (Private Sector) ..	1,177,341	1,202,608	1,285,364
TOTAL	2,694,817	2,886,141	3,223,111

The number of installations at the end of 1957-58 was distributed as follows :

	No.
State Government	111
State Electricity Board	172
Power Corporation	2
Municipality	22
Companies	161
TOTAL	468

Tentative information about installed capacity in kW for 1957-58 by source is given below :—

State	Steam	Hydro	Oil	Total
Andhra	83,500	102,000	20,291	205,791
Assam	622	8,950	5,392	14,964
Bihar	183,620	4,000	15,457	203,077
Bombay	483,650	279,914	80,563	844,128
Jammu and Kashmir	1,500	10,000	769	12,875
Kerala	74,322	109,500	4,277	113,777
Madhya Pradesh	84,000	166,150	17,633	249,683
Madras .. .. .	.. .. .	178,200	516	180,624
Mysore .. .. .	.. .. .	85,505	4,000	95,341
Orissa	5,776	145,990	20,705	174,521
Punjab	7,828	.. .. .	21,181	45,931
Rajasthan	24,750	.. .. .	30,755	364,905
Uttar Pradesh	227,760	96,390	27,208	563,064
West Bengal	528,331	.. .. .	3,130	54,730
Delhi	51,600	.. .. .	1,258	7,764
Rest	6,000	506	.. .. .	.. .. .
TOTAL	1,763,257	1,213,919	245,935	3,223,111

FIVE-YEAR PLANS

At the beginning of the First Plan the total installed capacity in the country was 1.8 mln. kW. This was raised to about 3.2 mln. kW. in March 1958.

During the Plan period a total of Rs. 206.71 crores was spent on the four multi-purpose projects—Bhakra, Harike, D.V.C., Hirakud. The Plan provision was Rs. 246.03 crores.

The total expenditure on the new major projects was Rs. 18.11 crores—Koyna, Rihand, Kosi, Nagarjuna Sagar, Chambal.

The total expenditure on the power projects during the First Plan period was Rs. 152.89 crores as against the Plan provision of Rs. 178.63 crores.

The total number of power schemes undertaken during the First Plan was 344. The following principal power schemes were put into commis-

sion during the Plan period. The power generated is also shown :

Bokaro (Bihar) : 1,50,000 kW; Chola Kalyan (Bombay) : 54,000 kW; Jog (Mysore) : 72,000 kW; Khaperkheda (M.P.) : 30,000 kW; Machkund (Andhra-Orissa) : 34,000 kW; Madras city plant extension : 30,000 kW; Moyal (Madras) : 36,000 kW; Nangal (Punjab) : 48,000 kW; Pathri (U.P.) : 13,600 kW; Sarda (U.P.) : 27,600 kW; Sergulam (Kerala) : 48,000 kW.

The total provision for power in the Second Plan is Rs. 427 crores. The target is 6.9 mln. kW.

Rural

The programme included in the Second Five-Year Plan is an ambitious one. Out of Rs. 427 crores for the entire power programme in the country, as much as Rs. 75 crores has been set apart for extending electricity to villages.

During the Second Plan 12,930 villages are expected to be electrified. The number of villages due for electrification in 1958-59 was 2,384.

The State-wise figures for the Plan period are :

Assam 29; Bihar 1,285; Bombay 700; Kerala 1,344; Madras 5,000; Madhya Pradesh 329; Mysore 700; Orissa 223; Punjab 2,100; Rajasthan 113; Uttar Pradesh 235; Centrally Administered Areas 872.

The total number of villages electrified as on March 1958 was 10,712.

At the beginning of the First Plan the number of villages which had electric power was 3,075. At the end of the First Plan the number rose to about 6,500.

Even with this achievement, however, only a little over 3 per cent of the villages would have been covered in 1961.

It is estimated that the average cost of electrification of a village based on present day costs is between Rs. 60,000 and 70,000.

The total cost of reaching all the villages may be put at Rs. 3,000 crores at present day price levels.

POWER PROJECTS

Statistical information about five major multi-purpose projects under the Central Government are given below (power in thousand kilowatts).

Name	Date of completion	Installed capacity	Firm power
Nangal (Punjab) : Ganguwal	1955	96 + 48	72 + 48
Nangal : Kotla	1956		
Bhakra	1961		
Damodar (Bihar, W. Bengal) :			
Bokaro thermal	1953	150	—
Maithon	1957	60	—
Panchet Hill	1959	40	—
Tilaiya	1963	4	—
Damodar (total)	—	254	174
Hirakud (Orissa) :			
Power House No. 1	1957	123	85
Chambal (Gandhisagar) (Rajasthan, Madhya Pradesh)	1962	92	69

In the Tungbhadra Project (Andhra, Mysore) the Dam Power House was completed in December 1956, and the Hampi Power House in April 1957. Total installed capacity will be 63,000 kW.

The Koyna Project (Bombay) Power House will have four units of 60,000 kW each. The project is expected to be completed in 1961-62.

The Rihand Project (U.P.) will have a power house with five units of 60,000 kW each. The project is expected to be completed in June 1961.

The Chambal Project Stage I (Rajasthan, Madhya Pradesh) will generate 75,000 kW of power and is expected to be completed in 1962.

The Nagarjuna Sagar Project (Andhra) will generate at 60 per cent load factor 75,000 kW.

The Central Government have enacted legislation, the Electricity (Supply) Act, 1948, to

provide for the rationalisation of the production and supply of electricity in the country.

The Act provides for the formation of State Electricity Boards in the States which will be charged with the general duty of promoting the co-ordinated development of the generation, supply and distribution of electricity within the State in the most efficient and economical manner.

The State Electricity Boards are required to rationalise supply and distribution of energy, prepare and carry out new schemes, acquire existing stations and equipment, give bulk supplies of power to existing licensees, designate wherever necessary existing stations as controlled stations and direct licensees to achieve the maximum economy and efficiency in the operation of their undertaking.

So far Madhya Pradesh, W. Bengal, Assam, Bihar, Kerala, Madras, Rajasthan, Mysore, Punjab and Bombay States have set up such Boards.

The Act also provides for the creation of a Central Electricity Authority for developing a sound, adequate and uniform national policy and to advise the State Electricity Boards on all major power development schemes that may be taken up by them.

The Authority was constituted in 1950.

It is to act as arbitrator in disputes between a State Government or State Electricity Board and licensee or other persons.

It has to carry out investigations and collect data concerning the generation, distribution and utilisation of power and the development of power resources and publish them from time to time.

CHURCHES IN INDIA

CATHOLIC CHURCH

India is divided into Dioceses and Prefectures Apostolic, which are grouped in 16 Ecclesiastical Provinces or Archdioceses, as follows:—Archdioceses of: 1. Agra with the Dioceses of Ajmer, Allahabad, Indore, Jhansi, Lucknow, Meerut and the Prefecture Apostolic of Gorakhpur; 2. Bangalore with the Dioceses of Bellary, Mangalore, Mysore, Ootacamund; 3. Bombay with the Dioceses of Ahmedabad, Belgaum, Poona; 4. Calcutta with the Dioceses of Dibrugarh, Jalpaiguri, Krishnagar, Patna, Shillong and the Prefecture Apostolic of Bhagalpur, Haflong, Malda, and Sikkim; 5. Changanacherry (Syro-Malabar) with the Dioceses of Kottayam and Palai; 6. Delhi and Simla with the Prefectures Apostolic of Jammu-Kashmir and Jullundur; 7. Ernakulam (Syro-Malabar) with the Dioceses of Kothamangalam, Tellicherry and Trichur; 8. Goa and Damann; 9. Hyderabad with Dioceses of Guntur, Nellore, Vijayawada, Visakhapatnam and Warangal; 10. Madras-Mylapore with the Dioceses of Coimbatore and Vellore; 11. Madurai with the Dioceses of Tiruchirappalli and Tuticorin; 12. Nagpur with the Dioceses of Amravati, Jabalpur, and Rajgarh-Ambikapur; 13. Pondicherry and Cuddalore with the Dioceses of Kumbakonam, Salem, and Tanjore; 14. Ranchi with the Dioceses of Cuttack and Sambalpur; 15. Trivandrum (Syro-Malankara) with the Diocese of Tiruvalla; 16. Verapoly with the Dioceses of Alleppey, Calicut, Cochin, Kottar, Quilon, Trivandrum (Latin), and Vijayapuram.

In all there are 16 Archdioceses (Metropolitan Sees), 48 Dioceses (Suffragan Sees) and 7 Prefectures Apostolic. At the head of an Ecclesiastical Province or Archdiocese there is an Archbishop; at the head of a Diocese there is a Bishop; and at the head of a Prefecture Apostolic there is a Prefect Apostolic.

The Apostolic Internuncio: His Excellency The Most Rev. Dr. James R. Knox, (Apostolic Internunciature, Chanakya Puri, New Delhi 2.)

The Cardinal: His Eminence Valerian Gracias, D.D., M.A. (Archbishop's House, Bombay 1.)

Statistics: Number of Catholics: 5,932,937; Clergy (Foreign): 1,211; Clergy (Indian): 4,446; Colleges: 53; High Schools: 6,176; Technical & Industrial Schools: 135; Students in Colleges: 31,985; Students in Schools: 1,041,083; Hospitals: 132; Dispensaries: 407; Homes for the Aged: 96; Orphanages & Foundling Homes: 421; Leper Asylums: 7; Creches: 64; Rescue Homes: 6; Poor Homes: 20.

PROTESTANT CHURCHES

Below are given particulars about Protestant churches in India which may be of interest.

Places of Worship: 28,533; Ordained Ministers: National: 6,885; Foreign: 1,033; Laymen: National: 24,636; Foreign: 383; Women Foreign Workers: 1,426; Christian Colleges: 46; High Schools: 314; Industrial Schools: 42; Hospitals: 258; Leprosy Institutions: 49; Tuberculosis Sanatoria: 12; Homes for Blind, Deaf, etc.: 8; Homes for Women: 15; Orphanages: 85; Social & Welfare Organisations: 87.

Percentage of Literacy for Protestants, 21.5 (1941 Census); Number of languages in which the scriptures (Protestant version) are available either wholly or in part, 86.

Assemblies of God

Assemblies of God in Great Britain and Ireland in India: Ashti P.O., Bhilr Dist., via Ahmednagar, Bombay.

Australian Assemblies of God Mission: Mission Bungalow, Khed, Taluka Khed, Poona Dist.

South India Assemblies of God: Bethel Bible School, Punalur P.O., Kerala.

Baptist Churches

Baptist Union of India, Pakistan, Burma and Ceylon: The Baptist Union of India, Pakistan, Burma and Ceylon came into being in 1937 in response to a widespread desire on the part of churches and missions of that order for closer co-operation and fellowships in their task.

The union functions as the representative of the affiliated churches and missions in relations to the National Christian Council, the Baptist World Alliance and in other ways that call for concerted voice and action.

Address: Canadian Baptist Mission, Kakina, East Godavari Dist., Andhra Pradesh.

Council of Baptist Churches in Northern India: 44, Lower Circular Road P.O., Park Street, Calcutta-16.

Baptist Union of North India: Collier Memorial Hostel, Bankipore, Patna.

Bengal Baptist Union: 9-A, Elliott Road, Calcutta-16.

South Mizo Presbytery, Assam (Zo Ram Baptist Churches): Baptist Mission, Lungbh, Mizo Dist., Assam.

Utkal Christian Church Central Council: Madhusudhan Road, Cuttack, Orissa.

United Christian Missionary Society: 336, Napier Town, Jabalpur, M.P.

Convention of Telugu Baptist Churches: A.B.M. Secondary Training School, Bapatla, Guntur Dist., Andhra Pradesh.

American Baptist Telugu Mission: C.A.M. High School Compound, Nellore, A.P.

Bengal-Orissa Baptist Yearly Meeting: Bhimpore P.O., Midnapore Dist., West Bengal.

Council of Baptist Churches in Assam and in Manipur: A. B. Mission, Gauhati, Assam.

Garo Baptist Union: Bagpara P.O., Bongalgaon, Goalpara Dist., Assam.

Baptist Union of Sweden: Narasavupet, Guntur, Andhra Pradesh.

Mid Missions: Makunda, Harikhlra P.O., Cachar Dist., Assam.

North Bank Baptist Association: Biswanathghat, Darrang, Assam.

Baptist General Conference of America: Baptist Mission, Tezpur, Assam.

Convention of the Baptist Churches of the Northern Circars: Melaurin High School, Kakina P.O., E Godavari, Andhra Pradesh.

Goalpara Boro Baptist Church Union: Bengtol P.O., via Bongalgaon, Dist. Goalpara, Assam.

North Goalpara Garo Baptist Union: Sangma P.O., Bongalgaon, Dist. Goalpara, Assam.

Australian Baptist Foreign Mission Inc.: Bongalgaon, Goalpara Dist., Assam.

Tripura Baptist Christian Union: Arundhatinagar P.O., Agartala, Tripura.

New Zealand Baptist Missionary Society: Arundhatinagar, Agartala, Tripura.

Freewill Baptist Mission: Krishnaganj, Purnea Dist., Bihar.

Swedish Baptist Mission: Padrauna, Deoria Dist., U.P.

Church of the Brethren

First District Church of the Brethren: Ahwa, Danga District, Bombay State.

Second District Church of the Brethren: Ahwa, Danga District, Bombay State.

The Joint Council Church of the Brethren: J. C. Office, Bulsar, Surat Dist., B.S.

General Brotherhood Board, Church of the Brethren (U.S.A.): Mission House, Khergam, Surat Dist., B.S.

Church of Christ

Conference of Churches of Christ in Western India: P.O. Box 26, Baramati, Dt. Poona, B.S.

Australian Churches of Christ Foreign Mission Board Inc.: Shrigonda, Ahmednagar Dt., B.S.

Convention of Churches of Christ: Jabalpur P.O., M.P.

Christian and Missionary Alliance of India: Akola, Berar, Bombay State.

Mandiyon Ki Pratidinhi Kamiti: Nawa Bhandaria, Palamau Dist., Bihar.

United Christian Missionary Society: B. D. 336, Napier Town, Jabalpur P.O., M.P.

Churches of Christ in Great Britain and Ireland Missionary Committee: Nawa Bhandaria, Palamau District, Bihar.

Kulpahar Church of Christ Mission: Kulpahar, Hamirpur Dist., U.P.

Churches of God

American Churches of God Mission: Ulubaria, Howrah District, W. Bengal.

Church of God Mission (Orissa): The Shelter, Cuttack, Orissa.

Church of God in South India: Girdupam, Chengannur, Kerala.

Church of God, Autonomous Churches in Assam, W. Bengal and Orissa: Goalapetty, Shillong, Assam.

Church of God in India: Mulakuzha, Changanur, Kerala.

Church of God: P.B. 60, Coimbatore, Madras State.

Open Bible Church of God: Site No. 141, Tatabad, Coimbatore, Madras State.

The Church of India, Pakistan, Burma & Ceylon: Bishop's House, 51, Chowringhee Road, Calcutta-16.

Dioceses: Andamans and Nicobars (Car Nicobar); Assam (Diocesan Office, Shillong); Amritsar (Taylor Road, Amritsar, Punjab); Barrackpore (86, Middle Road, Barrackpore); Bhagalpur (Bishop's House, Champnagar, Bhagalpur, Bihar); Bombay (C.M.S. Office, Proctor Road, Bombay-7); Calcutta (51, Chowringhee Road, Calcutta-16); Chota Nagpur (Bishop's Lodge, Ranchi, Bihar); Delhi (1, Church Lane, New Delhi); East Bengal (St. Thomas' Church, Victoria Park, Dacca); Lucknow (Bishop's House, Mahatma Gandhi Road, Allahabad, U.P.); Nagpur (Cathedral House, Nagpur, B.S.); Nasik (Nasik, Bombay State); Nandyal (Nandyal, Kurnool, Andhra Pradesh).

Bible Churchmen's Missionary Society: Zenana Mission, Siga, Banares, U.P.

Cambridge Mission to Delhi: 1, Church Lane, New Delhi.

Christa Prema Seva Sangha: St. John's House, Colaba, Bombay-5.

Christa Seva Sangha: Poona.

Church Army: Bhagalpur, Champnagar, Bihar.

Missionary Society of the Anglican Church in Canada: Taylor Road, Amritsar, East Punjab.

Church Missionary Society: 86, Middle Road, Barrackpore, W. Bengal.

Conley, Wantage and All Saints Missionary Association: Mission House, Panch Howd, Poona-2.

Dublin University Mission to Chota Nagpur: P.O. Box 5, Hazaribagh, Bihar.

Dublin University Mission, Ladies Auxiliary: Hazaribagh, Bihar.

Gondwana Mission: Patpara, Mandha, M.P.

Old Church Chinese Mission & Old Church Hebrew Mission: 11, Mission Row, Calcutta.

Oxford Mission to Calcutta: 42, Cornwallis St., Calcutta-6.

Scottish Episcopal Church Mission: Chanda, M.P.

Society for the Propagation of the Gospel: S.P.G. Diocesan Office, St. John's House, Colaba, Bombay-5.

Bible and Medical Missionary Fellowship: Edgchill, Landour, Mussoorie, U.P.

The Church of South India: Rayalaseema, Gooty, Anantapur Dist., Andhra Pradesh.

Dioceses: Coimbatore (Diocesan Office, Coimbatore); Dornakal (Dornakal, Warangal Dist.); Kerala-North (Diocesan Office, Bank Road, Kozhikode); Kistna and West Godavari (Bishop's House, Eluru, W. Godavari Dist.); Madras (Diocesan Office, Cathedral P.O., Madras-6); Madurai and Ramnad (Mission Compound, Tirumangalam, Madurai Dist.); Medak (Bishop's House, Medak, Deccan); Mysore (2, Mission Road, Bangalore-2); Rayalaseema (Pullavathi, Cuddapah Dist.); Tirunelveli (Palamcottah, Tirunelveli Dist.); Travancore Central (Cathedral House, Kottayam, Travancore); Travancore South (Diocesan Office, Museum Road, Trivandrum 1, Kerala); Tiruchirappalli-Tanjore (Diocesan Office, Puthur, Tiruchirappalli).

Local Autonomous Churches

Throughout the country there are a large number of local churches, generally of a congregational order, which are fully autonomous. Where information is available these are recorded.

Christian Assemblies in India (Generally known as 'Brethren')

This group consists of hundreds of local independent churches or assemblies on the simple N.T. pattern throughout India, having no common congregational set up but maintaining close fellowship with one another. Most of these were established through the faithful labours of Indian Nationals. Foreign workers previously entered under the initials C.M.M. and F.C.A. work in fellowship with this Missionary Church, mostly shouldering responsibilities connected with Institutions. More details relating to any State may be had by contacting those persons.

Honorary Fellowship Assemblies: P.O. Box 217, Masheerabad, Hyderabad, Andhra Pradesh.

Full Gospel Church Fellowship: 171, Napier Town, Jabalpur, M.P.

Other Groups

Some of the other Independent Churches have been unified under two organisations:

(1) THE ALL INDIA FEDERATION OF NATIONAL CHURCHES with Rev. R. S. Modak as President and Rev. R. S. Williams as General Secretary.

(2) THE FELLOWSHIP OF CHRIST IN INDIA—BHARAT CHRIST SANGH—in Northeast India with the Rev. B. D. Roy, M.A., B.T., Dip. Ed. (Bristol) as President and the Rev. R. C. Das, M.A., as Executive Secretary.

The aim at creating an independent and indigenous church in India. At present there is no formal inter-relation. There is however a fellowship, and sometimes some co-operation.

Lutheran Churches

Federation of Evangelical Lutheran Churches in India: is an expression of the spiritual unity of the Lutheran churches.

The Federation started in July 1953, a Theological College, in Madras in which 8 of its constituent bodies now co-operate. This institution is named as *The Gurukul Lutheran Theological College and Research Institute*, and directs its course of study to the B.D. degree. A further aim is graded research in both Christian and non-Christian religions against the Indian background. It has a governing council of 11 members and is established at Gurukul, Madras 10.

American Board of Commissioners for Foreign Mission: American Marathi Mission, Sholapur, Bombay State

Board of Foreign Missions of the Reformed Church in America: American Aroor Mission, Ranipet, N. Arcot Dist.

Basel Evangelical Missionary Society: Mangalore.

Church Missionary Society: C.M.S. College, Kottayam, Kerala State.

Indian Missionary Society of Tirunelveli: Palamcottah, Madras.

London Missionary Society: 18, Levelee Road, Bangalore-1.

Methodist Missionary Society: Mission House, Karim Nagar, Hyderabad-Dn.

Mulag Mission: Mulag, via Kazipet, Warangal Dist., Andhra Pradesh.

National Missionary Society of India: 102, Peter's Road, Royapettah, Madras.

Pakkal Mission: Nekonda, Warangal Dist., Andhra Pradesh.

Elim Churches of India: Dudhi, Mirzapur Dist., U.P.

Elim Church (New Zealand): Karmala P.O., Sholapur Dist., B.S.

The Evangelical Alliance Mission: Parola, East Khandesh, Bombay State.

Andhra Evangelical Lutheran Church: Bhimavaram, W. Godavari Dist., Andhra Pradesh.

National Missionary Society of India: M.N.S. House, 102, Peter's Road, Royapettah, Madras.

Aroor Lutheran Church: Pugh's Road, Cuddalore, South Arcot Dist., Madras State.

Danish Missionary Society: Aroor Lutheran Church, Kallakurichi, S. Arcot.

Ebenezer Evangelical Lutheran Church: Benagar P.O., Santal Parganas, Bihar.

Santal Mission of the Northern Churches: Dumka P.O., Santal Parganas, Bihar.

Evangelical Lutheran Church in Madhya Pradesh: Saugor, M.P.

Evangelical National Missionary Society of Stockholm: Chindwara, M.P.

East Jeypore Evangelical Lutheran Church: Gunupur, Koraput Dist., Orissa.

Goswami Evangelical Lutheran Church: Ranchi, Bihar.

India Evangelical Lutheran Church: Concordia Seminary, Nagercoil, Madras State.

Jeypore Evangelical Lutheran Church (including Shelm): Jeypore, Koraput Dist., Orissa.

South Andhra Lutheran Church: Nayudupet, Nellore Dist.

Tamil Evangelical Lutheran Church: C.M.O. Moses Gnanabaranam Eye Hospital, Coimbatore.

Church of Sweden Mission: Margaret Cottage, Avanashi Road, Coimbatore.

Mennonite Church in India: Dhamtari P.O., Raipur District, M.P.

Telugu Mennonite Brethren Convention and American Mennonite Brethren Mission: Shamshabad, Hyderabad Dist., Andhra.

Mennonite Brethren Churches of North America: Medical Centre, Jadhcherla, Andhra Pradesh.

General Conference Mennonite Church: Jagdeeshpur P.O., via Mahasamund, Raipur Dist., M.P.

General Conference Mennonite Church of North America: 722, Main, Newton, Kansas, U.S.A.

Danish Missionary Society: Gunupur, Koraput Dist., Orissa.

The Methodist Church

The Methodist Church of North India: P.O. Garh-Raipur, Bankura Dist., W. Bengal.

Methodist Missionary Society: Wesley House, 62, The Causeway, Bombay-1.

Methodist Overseas Mission: Azamgarh, U.P.

The Methodist Church in Southern Asia: 3, Wesley Road, Jabalpur.

Wesleyan Methodist Church, India Conference: Pardi, Surat Dist., B.S.

Wesleyan Methodist Church of America Missionary Society: Pardi, Surat Dist., B.S.

Free Methodist Church of North America, General Missionary Board: Garden Bungalow, Yeotmal, B.S.

Pentecostal Churches

Ceylon Pentecostal Mission: 48, Main Road, Royapuram, Madras.

India Christian Assemblies—Finnish Pentecostal Mission: Chikhalapudi, Kriahna Dist.

Indian Pentecostal Church of God: The Indian Pentecostal Church of God is a group of indigenous independent churches established since 1924 in several parts of India and having fellowship with one another. It has no foreign mission control. The government of the church rests with the council of ministers elected yearly by the general body. This group has missionary zeal and vision and sends forth Indian nationals as missionaries even to other lands.

Address: Faith Home, Vijayawada 2, Andhra.

Mairiti Mandi (Autonomous and Indigenous Church): Dehra Dun, U.P.

Pentecostal Holiness Church: Madhupur, Santal Parganas, Bihar.

Swedish Free Mission: 25, New Cantt. Road, Dehra Dun, U.P.

United Pentecostal Church: Box 347, Kanpur, U.P.

The Presbyterian Church

Presbyterian Church of Australia: Fallipat, Chittoor District, Andhra.

Bible Presbyterian Church of India: Box 347, Kanpur, U.P.

Independent Board for Presbyterian Mission: Box 347, Kanpur, U.P.

Reformed Presbyterian Mission: Roorkhee, U.P.

Syrian and Armenian Churches

The Apostolic Holy Church of Armenia: The church of the first nation to become Christian. Efforts to evangelise date from A.D. 34 (Thaddeus and Bartholomew). The See of Edmatsien (near Eravan) dates from A.D. 300. In Calcutta the oldest church belongs to the Armenians. The Holy Church of Nazareth (1704); there are a college and Girls' High School also. Other churches in India are in Bombay, Surat, Saidabad, Madras, Chinsurah and Agra.

Apostolic Legation of the Holy See of Antioch in Malabar: Omallur, Kaipattur P.O., Kerala.

Chaldean Syrian Church: Church of the East, Trichur, Kerala State.

Mar Thoma Syrian Church: Metropolitan's House, P.O. Thiruvalla, Kerala State.

Mar Thoma Syrian Christian Evangelical Association of Malabar: Thiruvalla, Kerala.

Orthodox Syrian Church: Old Seminary, Kottayam, Kerala.

The Orthodox Syrian Church of Malabar: Kottayam, Kerala State.

Malabar Independent Syrian Church: Thozhiyoor, Kottapadi, S. Malabar, Kerala State.

Malankara Syrian Knanaya Diocese: Mar Ephraim Seminary, Chingavanam P.O., Kerala.

Malankara Jacobite Syrian Church: Thrikkunnath Seminary, Alwaye, Kerala.

United Basel Mission Church

Address: Balmatta, Mangalore-1.

The United Church of Northern India

This church is the union of the churches formed through the work and witness of the following missions in Northern India.

Missions: American Evangelical Mission of the Evangelical and Reformed Church; American Marathi Mission of the American Board of Commissioners for Foreign Missions; American Presbyterian Mission; Canadian Presbyterian Mission; Church of Scotland Mission; Irish Presbyterian Mission; London Missionary Society; English Presbyterian Mission; New Zealand Presbyterian Mission; United Church of Canada Mission; Welsh Presbyterian Mission; Church of the Unity of the Brethren.

American Evangelical Mission of the Reformed Church: Raipur, M.P.

American Board of Commissioners for Foreign Missions: Staveley Road, Poona-1.

Board of Foreign Missions of the Presbyterian Church in the U.S.A.: 'Lowriston', Dehra Dun (U.P.).

London Missionary Society, Calcutta: 136, Dharamtala St., Calcutta-13.

Canadian Presbyterian Mission: Amkhut, via Dohad, M.P.

CHRISTIAN MISSIONS IN INDIA

Foreign and national missionaries in India received Rs. 24 crores from abroad during the 30 months preceding June, 1958, it is learned.

Remittances received in 1956 totalled Rs. 9.28 crores and they rose to Rs. 9.53 crores in 1957. The contributions in the first half of 1958 exceeded Rs. 5 crores.

The U. S. led the other countries with remittances totalling Rs. 18.40 crores. The contributions from the countries of the sterling area came to about Rs. 3.3 crores and those from others totalled Rs. 2 crores.

The number of registered foreign missionaries in India, however, shows a decline over the last three years. The number, which was 5,691 in January, 1956, fell to 5,511 in January, 1957, and 4,844 in January, 1958.

BAPTIST SOCIETIES

Baptist Missionary Society of Great Britain.

The Secretary of the Mission is the Rev. E. G. T. Madge, 44, Lower Circular Road, Calcutta 16.

The Headquarters of the Mission are at 98-95, Gloucester Place, London, W. 1.

Canadian Baptist Mission.

Secretary: Miss Edith B. Mann, Vuyyuru, Krishna Dist.

Telegram: Baptisma, Vuyyuru; Tel.: 61.

American Baptist Assam Mission, Gauhati.

Acting Treasurer:—Miss F. E. Wormser.

Mission Secretary:—Rev. E. G. Beers.

Council of Baptist Churches in Assam and Manipur, Gauhati, Assam.

Field Secretary: Edward Singha.

Treasurer: Miss F. E. Wormser.

American Baptist Bengal-Orissa Mission.

Secretary: Rev. C. C. Roadarmel, Midnapore, W. Bengal.

Central India Baptist Mission.

Ellichpur, Amravati Dist., Bombay State.

Chairman:—Rev. Nelson F. Schoen, Pandhurna, M.P.

Strict Baptist Mission.

Secretary: George F. Champion, Morupatti, Mettupalayam, Tiruchirappalli Dist. Treasurer: Rev. D. A. Thrower, "Lyle Cottage", Kotagiri, Nilgiris.

PRESBYTERIAN SOCIETIES

American Presbyterian Mission.

Commission Representative:—The Rev. John B. Weir, Ph.D., D.D., 16, Boulevard Road, Delhi.

Secretary, North India Synod:—The Rev. C. H. Hazlett, M.A., D.Sc., Ed., 51, Rajpur Road, Dehra Dun, U.P.

Secretary, North Synodical Board:—The Rev. B. N. Lal, United Church Compound, Mainpuri, U.P.

Secretary, Punjab Synod:—The Rev. S. K. J. A. Peters, United Church Compound, Ludhiana Punjab.

Secretary, Kolhapur Church Council:—The Rev. R. S. Bhandare, Church Council House, New Palace, P.O. Kolhapur.

Irish Presbyterian Church Mission.

Secretary: Rev. S. B. Moles, Mission House, Prantij, Sabarkantha Dist., Bombay State.

Canadian Presbyterian Mission.

Secretary:—Rev. Clarence L. Wood, Amkhut, Madhya Pradesh, via Dohad.

Secretary (Jhansi section): Miss Margaret C. Leask, C. P. Mission, Jhansi, U.P.

Church of Scotland Mission.

Field Secretary: Rev. T. E. Robertson, M.A., B.D., Ch. of Sc., Seoni, M.P.

Free Church of Scotland Mission.

Field Secretary: Dr. Annie Mackay, Laknodon, Chindwara Dt., M.P.

Welsh Presbyterian Mission.

Field Secretaries:—Rev. G. H. Morgan, Maulvi Bazar, Sylhet, E. Pakistan; Rev. E. Adams, Shillong, Assam.

CONGREGATIONAL SOCIETIES

American Marathi Mission.

Secretary: Rev. E. Loleta Wood, 1-A, Staveley Road, Poona-1.

Diocese of Madras and Ramnad, Church of South India.

Bishop:—Rt. Rev. J. R. L. Newbigin, Mathurai. Secretaries:—Rev. Paulraj Thomas, Pasumalai; B. Ratnaswamy, Mathurai.

Evangelical Alliance Mission.

Western India Headquarters:—Amalner, East Khandesh.

Chairman:—Rev. B. Martens.

Secretary:—Rev. C. Kent, Satana, Nasik Dist.

London Missionary Society.

The headquarters of the world-wide work of the L.M.S. are at Livingstone House, 42, Broadway, Westminster, S.W.1, U.K.

Correspondent in Bengal: Miss M. Cumber, 1, Ballygunge Circular Rd., Calcutta 19.

Mission Covenant Church of Sweden.

Field Secretary: Rev. John Anderson, 29, Souter Street, Byculla, Bombay-8.

Swedish Hindustani Mission.

Secretary: Rev. John Anderson, 29, Souter St., Byculla, Bombay-8.

LUTHERAN SOCIETIES

India Mission of The United Lutheran Church in America.

OFFICERS OF THE ULCM:—President:—Rev. W. D. Coleman, Rajahmundry; Vice-President:—Rev. H. H. C. Kleiner, Tenali; Secretary:—Miss E. E. Hartig, Rajahmundry; Treasurer:—Mr. E. G. Nabert, Guntur.

Officers of the Andhra Evangelical Lutheran Church:—President:—Rev. Dr. G. Devasahayam, P. Box 2, Guntur; Vice-President:—Dr. Henry H. Moyer, Dowlishawaram; Secretary:—G. Krupadanam, Bhimavaram; Treasurer:—Dr. C. H. Swavely, Box 86, Guntur.

Evangelical Lutheran Church, Madhya Pradesh.

President:—Rev. E. Raman, Sagar, Madhya Pradesh.

President and Secretary:—Rev. J. Bossel, Mangalore, South Kanara.

Federation of Evangelical Lutheran Churches in India.

President:—The Rt. Rev. E. B. Manikam, Ph.D., Bishop of Tranquebar, Tiruchirappalli, S.I.

Vice-President:—The Rev. E. Raman, Sagar, M.P.

Secretary:—G. Krupadanam, Bhimavaram, West Godavari Dist., Andhra Pradesh.

Treasurer:—M. Anantham, Nayudupet, Nellore Dt., Andhra Pradesh.

There is a liaison officer between the Federation of Evangelical Lutheran Churches in India and the Lutheran World Federation to distribute financial assistance to Orphaned Missions and Churches coming from abroad.

There is an institution named The Gurukul Lutheran Theological College and Research Institute in Madras; it points its course of study to the granting of B.D. degree.

A further aim is graded research in both Christian and non-Christian religions against the Indian background.

The Theological College has a governing council of 11 members and is established at Gurukul, Purasawalkam High Road, Kilpauk, Madras-10.

Its Officers are:

President:—The Rt. Rev. E. B. Manikam, Ph.D., Bishop of Tranquebar, Tiruchirappalli, S. India.

Secretary and Principal of College:—The Rev. P. David, M.A., Ph.D., 'Gurukul', Kilpauk, Madras-10.

Church of Sweden Mission.

Field Secretary:—Rev. G. Eriksson, B.D., P.O. Box 92, Madurai.

Tamil Evangelical Lutheran Church.—Organised Churches (Pastorates) 61; Ordained Indian Ministers 54; other Indian workers 181; Baptized membership 55,134; Schools 185; Teaching staff 1,045; Pupils: Boys 18,667; Girls 10,804.

President:—Rt. Rev. Dr. E. B. Manikam, M.A., B.D., Ph.D., D.D., S.T.D., Bishop of Tranquebar, "Tranquebar House", Tiruchirappalli, S. India.

Missouri Evangelical Lutheran India Mission (M.E.L.I.M.).

General Secretary:—E. P. Kraft, Nagercoil, Kanyakumari Dt., South India.

Arcoot Lutheran Church.

President:—Rev. O. Horlyck, Darisanapuram, Cuddalore, N. T. S. Arcoot Dt.

Treasurer:—Miss H. Olesen, 14, Rundall's Road, Vepery, Madras 7.

Secretary:—Miss K. Hauge, Arcoot Lutheran Church, Kallakurichi, S. Arcoot Dt.

INTER-DENOMINATIONAL MISSIONS

Bible and Medical Missionary Fellowship

Hon. Treasurer:—Major Mainwaring Burton.

President:—The Lady Kinnaird.

Secretary:—A. J. Dain.

Field Secretary:—A. E. Norrish.

The Mission to Lepers.

The Indian Auxiliary of the Mission to Lepers. Hon. Treasurers are:—J. A. W. Thomson, c/o Messrs. Macneill, Barry & Co. Ltd., 2, Fairlie Place, Calcutta and P.D.C.R. Clark, c/o Messrs. Killick Industries, Ltd., Bombay.

The General Secretary of the Mission is A. Donald Miller, 7, Bloomsbury Square, London, W.C.1. The Secretary for India is William Bailey, M.A., Purulia (S.E. Rly.), West Bengal.

National Missionary Society of India.

The Office-bearers for the present triennium:—

The Rt. Rev. J. W. Sadiq, Nagpur (President); Bishop Philipose Mar Christostom, Tiruvalla (Kerala); Bishop Mangal Singh (Bombay); Rev. Dr. G. Dewasahayam, Guntur; Mrs. M. Krishnappa, Poona; Dr. G. Zachariah, Madras (Vice-Presidents); J. B. Masillamani, Madras (Hon. Treasurer); Dr. A. C. Abraham (Hon. Gen. Secretary); S. Deva Prasad (Hon. Associate Gen. Secretary).

Address:—N. M. S. House, Royapettah, Madras.

The Society of Friends (Quakers).—The Society of Friends (Quakers) carries out its overseas work through the Friends Service Council of London. Yearly meeting with headquarters in Euston Road, London, N.W.1. and through the American Friends' Service Committee with headquarters at 20 South Twelfth Street, Philadelphia, U.S.A.

International Centres at 24, Rajpur Road, Delhi and 21, Noor Fata Lane, Dhakeswari Road, Dacca, E. Pakistan for promoting religious and international understanding and furthering educational and social work. Also Calcutta Office at 211, Park Street, Calcutta-16.

All-India Fellowship Training Ashram (Ashram Training Village Workers).

Chief Worker: Mrs. P. Sircar, Pirumadara P.O., Nainital District, U.P.

Christa Seva Vidyalaya.

(Training College for Women Church Workers of advanced Education).

Secretary: Miss O. M. Valentine, B.A., 7, 2, College Road, Nungambakkam, Madras.

Dohnavur Fellowship.

Secretary: B. Thyagaraj Ananda, Dohnavur, Tirunelveli Dt., S. India.

India Sunday School Union.

Secretary: V. M. Koshy, B.A., B.T., Dip. Ec., Coonoor, Nilgiris.

Nasrapur Spiritual Life Centre Fellowship

Director: Rev. John P. Crazier, Spiritual Life Centre, Nasrapur, Poona Dist.

Old Church Hebrew Mission.

Missioner: R. W. Bowie; **Hon. Secretary:** Rev. G. H. Howlett, B.D., 11, Mission Row, Calcutta 1.

Student Christian Movement of India.

(Affiliated World's Student Christian Federation).

Gen. Secretary: Rev. H. F. J. Daniel, M.A., S.C.M. House, 2, Mission Road, Bangalore 2.

Address in India:—I. M. B. O. Office, 364, Dadabhai Naoroji Road, Bombay.

Missionary Settlement for University Women.

Warden:—Miss H. D. Hunt, B.A., University Settlement, Reynolds Road, Byculla, Bombay 8.

Staff:—Miss E. D. Mason, B.A., M.A., Ph.D., D.Sc.; Miss R. Gurupatham, V.T.T.C.

Ramabai Mukti Mission.

The main departments are: A Girls' Orphanage, School, Home and School for the Blind, Medical, Agricultural and Rescue Home

Superintendent, Secretary and Treasurer:—Miss C. Terry, R. M. Mission, Kedgaon, Poona District.

MISCELLANEOUS

Advent Christian Denomination, Women's House and Foreign Missionary Society.

Chairman: Rev. F. B. Clothey, D.D., American Advent Mission, Velacheri, Madras-16.

American Churches of God Mission.

President:—Rev. A. D. M. Dick, Mission House, Ulubaria, Howrah District, West Bengal.

Secretary:—Miss E. C. Shucy, Mission House, Ulubaria, Howrah District, West Bengal.

American Friends' Mission.

Superintendent: W. E. DeVol, M.D., F.A.C.S., Chhatrapur, Madhya Pradesh.

Apostolic Church Mission.

Secretary: Miss L. Tutt, 12, Commissariat Road, Bangalore-1.

Behat Village Mission.

Superintendent and Secretary: Rev. G. C. Massey, Mission House, Behat P.O., Saharanpur Dist., U.P.

Bharat Evangelical Mission.

Superintending Missionary: Shakespeare M. Edwards, B.E.M. Mission, 41, Main Road, St. Thomas Mount, Madras-16.

Boys' Christian Home Mission.

Secretary: Rev. L. E. Hartman, Dhond, Poona Dist.

Brethren in Christ Mission.

Superintendent: Rev. William R. Hoke, P.O. Saharsa, N.E. Ry., Saharsa Dist., Bihar.

Central Asian Mission.

Secretary: Pastor Mathew, C o C. M. S., Sheetal Bagh, Srinagar, Kashmir.

Central India Mission.

Field Secretary: Mrs. W. K. Elliot, Underfell, Coonoor.

Child Evangelism Fellowship

Field Secretary: Myrtle Barden, 2, Jubilee Road, Poona-1.

Children's Special Service Mission

Secretary: Rev. Paul Das, C o The N.I.C. Tract and Book Society, 18, Clive Road, Allahabad-1.

Cheowpatta Agricultural and Industrial Mission.

Secretary: Miss L. Grundy, Berenag P.O., Vis Almora, Kumaon, U.P.

Christian and Missionary Alliance.

Dates from the year 1892 under the name of the International Missionary Alliance, but a number of its missionaries were at work in the area of Berar much earlier. Work is carried on in the areas of Berar and Khandesh. There is a staff of 39 missionaries and 22 Indian workers. The number of mission stations is 11, with additional out-stations. There is a Christian community of 5,600. There are 2 boarding schools, one for boys and one for girls, 2 training schools for Indian workers. There are 33 organized congregations, including one English at Bhusawal.

Executive Secretary:—The Rev. A. C. Eicher, Akola, Bombay State.

Work in the Gujarat field is carried out from Mission House, Ahmedabad, Kaira Dt.—Rev. K. H. Kose.

Church of the Brethren (American).

Secretaries:—A. F. Bollinger, 364, Dr. Dadabhai Naoroji Road, Bombay 1; S. P. Bhagat, Mission House, Anklesvar, Broach District.

Church of the Nazarene Mission.

Mission Chairman:—Rev. C. Cleve James, Mission House, Basim, Akola Dist., Bombay State.

Church of the General Board of the Nazarene.

Field Secretary:—Rev. Earl Lee, Mehkar, Buldana District, Bombay State.

Dipti Mission.

Superintendent: Mrs. Ke. M. Clemence, M.A., B.Ed., Sahabganj, Bhagalpur Dist., Bihar.

Evangelical Missionary Society in Mayurbhanj.

Field Secretary: Oswald Lahey, Baripada, Mayurbhanj Dist., Orissa.

Finnish Free Foreign Mission.

Field Secretary:—Rev. J. A. Suvanto, 168, Rajpur Road, Rajpur P.O., Dehra Dun, U.P.

Free Church of Finland Mission.

Field Secretary:—Miss Vappu Rautamaki, Ghoom, West Bengal.

Home Missionary Society of India.

This Society is the organized endeavour of the Anglo-Indian Community. A school for underprivileged girls in Coonoor called 'Mountain Home School' is run by the Society.

Secretary and Treasurer:—Mrs. K. Mo. Dermott, 22, Stephens Road, Fraser Town, Bangalore-5.

House of Praise.

Field Secretary:—Miss E. Bagshaw, Hoskote, Bangalore Dist.

India Christian Mission.

Field Secretary:—Rev. Arnold G. Paynter, Champawat P.O., Almora Dist., U.P.

India Gospel Fellowship Mission.

Secretary:—Rev. J. Darashah, Union Church Manse, Ootacamund.

India United Evangelical Mission.

The Mission has four Chapels, five day schools and one dispensary, all in Bangalore area.

Field Secretary:—Miss Isabel L. Pettit, 5, Clive Road, Cooke Town, Bangalore-5.

Interior India Mission.

Field Secretary:—Rev. S. L. Rassmann, Bahraich, U.P.

India Mission.

Field Secretary:—Rev. Bill Tarter, Trimulgherry, Hyderabad Dist., A.P.

Ladakh Moravian Mission.

(Under British Mission Board of the Moravian Church).

Field Secretary:—Rev. Elyiah Thetam Phunthog, Ladakh, Kashmir.

Lakher Pioneer Mission.

Field Secretary:—Rev. A. B. Lorrain Foxall, P.O. Sekkawr, South Mizu Dist., Assam.

Maranatha Missionary Fellowship.

Field Leader:—Miss J. D. Watson, Bethamangala, Kolar (Gold Fields, Mysore State).

Metropolitan Church Association.

Field Secretary:—Rev. T. D. Fordham, P.O. Siwalt, Allahabad Dist., U.P.

Mission to Indian Villages.

Secretary:—Rev. Mrs. C. Benfield, Latur, Osmanabad, Andhra Pradesh.

Missionary Bands in India

Field Secretary:—Rev. J. Hanson, Raj Nandgaon, Drug Dist., M.P.

Missionary Settlement for University Women.

University Settlement, Reynold's Road, Byculla, Bombay-8.

Nepali Evangelistic Band.

Secretary:—J. H. Laddan, Christian Dispensary, Nautanwa, Gorakhpur, U.P.

New Zealand Full Gospel Mission.

Field Secretary:—H. Jenkins, Mission Compound, Karmala, Sholapur Dist., Bombay State.

North East India General Mission.

Superintendent:—Nengzachin, P.O. Chura-chandpur, Manipur.

Norwegian Free Evangelical Mission.

Field Secretary:—Rev. A. B. Andresen, N.F.E.M., Banda, U.P.

Oriental Missionary Society.

Field Secretary:—Rev. W. Duewel, 20, Stanley Rd., Allahabad, U.P.

Pilgrims Mission.

Superintendent:—Mrs. M. C. Norton, Pilgrims Mission, Varanasi Cantt., U.P.

Poona and Indian Village Mission.

Mission Headquarters, 10, Napier Road, Poona-1.

Chairman :—Major R. P. D. Snow.

Secretary :—E. K. Pattemore.

Reformed Episcopal Church of America Board of Foreign Mission.

Field Secretary :—Rev. Joseph H. Watson, Lalitpur, Jhansi Dist., U.P.

Regions Beyond Missionary Union.

Field Superintendent :—E. W. Oliver, Mission House, Motihari, Champaran Dist., Bihar.

Rural Gospel and Medical Mission of India Inc.

Secretary :—Rev. B. B. Bhagwat, Khardi, Thana Dist.

Seventh-Day Adventist Church, Southern Asia Division.

Seventh-day Adventist Church—Western India (Pastor F. E. Spleess, President).
Office Address :—16, Club Road, Byculia, Bombay 8. P.O. Box 4565.

Seventh-day Adventist Church—Burma. (Pastor C. B. Guild, President).
Office Address : 68, U Wisara Road, Rangoon, Burma, Post Box 977.

Seventh-day Adventist Church—North-east India. (Pastor W. F. Stors, President).
Office Address : Karmatar, Bihar.

Seventh-day Adventist Church—North-western India. (Pastor T. R. Torkelson, President).
Office Address : 27, Barakhamba Road, New Delhi 1.

Seventh-day Adventist Church—South India. (Pastor E. L. Sorensen, President).
Office Address : 9, Cunningham Road, Bangalore. P.O. Box 20.

Seventh-day Adventist Church—Pakistan. (Pastor C. H. Hamel, President). **Office Address** : 32, Mozang Road, Lahore, Post Box 32.

Seventh-day Adventist Church—Ceylon. (Pastor L. F. Hardin, President).
Office Address : 15, Alfred House Gardens, Colombo 3. P.O. Box 1253.

The general headquarters for India, Pakistan, Burma and Ceylon are located at Salisbury Park, Poona. O. O. Mattison, President; D. S. Johnson, Secretary; M. E. Kemmerer, Treasurer. (Office Address: Post Box 15, Poona.)

Santal Mission of the Northern Churches.

Secretary, Rev. A. R. Stronstad, Dumka, Santal Parganas, Bihar.

South India Mission of the Christian Reformed Church.

Superintendent :—Rev. H. Vande Berg, Adoni, Kurnool Dist., Andhra Pradesh.

Swedish Alliance Mission.

Secretary :—Rev. Sigurd Ohlsson, B.A., Nandurbar, West Khandesh, Bombay State.

Swedish Women Missionary Society.

Field Secretary :—Rev. G. Hodne, Cooch Behar, West Bengal.

United Missionary Society.

Field Secretary :—Rev. John H. Blosser, P.O. Rangadih, Purulia Dist., W. Bengal.

Women's Union Missionary Society.

Secretary :—Dr. Getrude Smith, M.D., Broadwell Hospital, Fatehpur, U.P.

World Gospel Mission.

Field Secretary :—Rev. Karl Ke Rice, Box 20, Bangarapet, Pet, Mysore State.

World Mission Prayer League, Inc.

Field Chairman :—Alvin C. Berg, Darjeeling, W. Bengal.

Youth for Christ India.

Director :—Rev. John L. Teibe, Mherwan Bldg., Sir P. M. Road, Bombay-1.

Free Methodist Mission of North America.

This mission was founded in 1892. It now has 23 Churches, and 1,920 Christians, and 71 workers.

Chairman and Executive Secretary :—Dr. Paul W. Yardy, Umri, via Yeotmal, Bombay.

South India Missionary Society.

This society was founded in 1918. The support for this field is entirely from Indian Christians of the Ex-Wesleyan Methodist of the S. Indian Church. There are 23 Congregations now in this Society. —**Missionary** : Rev. G. Ananta Rao, B.D., Nirmal, Adilabad, Andhra Pradesh.

Methodist Missionary Society in Southern Asia.

The India Methodist Missionary Society is an indigenous organisation connected with the Methodist Church in Southern Asia. Its funds are raised in India and carries on missionary work at Sasaram in Shahabad District, Bihar.

Secretary :—Dr. Geo S. Sahai, Leonard Theological College, Jabalpur M.P.

Methodist Youth Fellowship.

This is the official organisation of the Methodist Church in Southern Asia for Youth work.

Secretary :—Rev. I. A. Phillips.

OTHER MISSIONS

INDIA INDUSTRIAL MISSION, Coimbatore, Calcutta 2.

SALVATION ARMY

The work of the Salvation Army in India and Ceylon was commenced in 1882 by the late Commissioner Booth-Tucker and was for many years under his control, with Headquarters in India. For some time now, the areas occupied have been divided for administrative purposes into 6 Territories, each under a Territorial Commander; and one smaller Command. The headquarters for Pakistan are at Lahore.

North-Eastern Territory, with Headquarters at Calcutta.

Western Territory, with Headquarters at Bombay.

Madras and Andhra Territory, with Headquarters at Madras.

Southern Territory, with Headquarters at Trivandrum, in Kerala.

Ceylon Territory, with Headquarters at Colombo.

Burma Command, with Headquarters at Rangoon.

The Audit and Editorial office is at Poona.

The Commanders are directly responsible to the International Headquarters in London.

North-Eastern Territory.—The area in this Territory is the Salvation Army work in the Punjab (India), Uttar Pradesh, Orissa, Bengal and Assam.

Evangelistic work is extensively carried on.

Medical work is carried on in two Hospitals, one of which is in Dharawal, Punjab and the other in Moradabad, Uttar Pradesh; and also dispensaries.

There are boarding and day schools, a men's Industrial Home in Calcutta, a Young Women's Hostel, and orphanages for both girls and boys.

Village centres at which the S. A. works	2,091
Officers and Employees	719
Social Institutions	7
Boarding and day schools	10
Hospitals	2
Guest House	1

Territorial Headquarters : 37, Dharamtala Street, Calcutta 12.

Territorial Commander :—Lt. Commissioner Joseph Dayha.

Madras and Andhra Territory.—Embraces Madras City, the central and northern districts, of Madras, Andhra Pradesh and Madhya Pradesh. 865 fully commissioned officers and 255 workers are fully occupied in evangelical, educational and village uplift work carried on in just over 400 villages, a high school with hostels for boys and girls, a Training Institute for men and women selected for officership; agricultural settlement of 2,500 men, women and children—many work at Chirala, the others on the land. A Leprosy Hospital, General Hospital, a Social Services Department where wastepaper sorting, etc. is carried on, and a Women's and Children's Home in Madras complete the list of institutions where work is going forward.

Territorial Headquarters :—The Salvation Army, 1C, Ritherdon Road, P.O. Box 483, Vepery, Madras 7.

Territorial Commander :—Colonel Ernest Stanley Hannam.

General Secretary :—Brigadier P. Bhushanam.

Southern India Territory.—The Territorial Headquarters is in Trivandrum in Kerala State.

In 1,156 Corps and Centres of work, the majority of officers labour among the village population. The Army has a membership in South India of 91,018.

This territory is divided for administrative purposes into 15 divisions and Districts, 6 among the Tamil-speaking people and 9 among those who speak Malayalam.

The Catherine Booth Hospital at Nagercoil, is now a fully equipped, modern institution of many departments, dealing with all types of medical and surgical cases. The Hospital is equipped with X-Ray, radium, iron lung and excellent nursing facilities. Branch Hospitals carry the service to some of the most remote regions. 74,422 patients were treated during 1957 in the Catherine Booth Hospital and its several branches and 1,227 major operations and 2,881 minor operations were performed. The Evangeline Booth Leper Hospital at Puthencruz in north Travancore, accommodates 167 patients. These institutions carry on work in accordance with the highest traditions of Christian service.

Workers in the Territory consist of 1,432 officers, 381 employees. There are, 415 Officer Corps and 99 societies, 29 primary day schools, 2 boarding schools, 1 middle school, 1 high school, 1 training garrison, 642 outposts, 1 women's industry.

Territorial Headquarters :—Kowdiyar, Trivandrum 3.

Territorial Commander :—Lieut.-Commissioner Ivar Palmer.

Chief Secretary :—Lt. Colonel Prabhakar S. Das.

Western India Territory.—This territory comprises Corps 242; Outposts 761; Social Institutions 14; Day Schools 81; Boarding Schools 2; Training Colleges 2.

Besides the evangelical operations there are in this Territory, two large Hospitals, the Emory Hospital at Anand, and the Evangeline Booth Hospital at Ahmednagar and a number of dispensaries. Patients treated at both Hospitals during 1958 were—Out-patients 17,029, In-patients 6,929; Major Operations performed 1,313; Minor Operations performed 3,880. Both Hospitals are well-equipped and have a Nurses' Training School attached.

Social work in Bombay includes the King George V Memorial Infirmary, and Lady Dhanbai Jehangir Home for Destitutes, Industrial and Rescue Home for Women at Matunga and King Edward Industrial Home for Men at Byculla. A well-equipped Red Shield House, is situated on Merewether Road, Fort, Bombay. Accommodation for visitors to Bombay may be secured there.

Territorial Headquarters :—P.O. Box 4510, Morland Road, Byculla, Bombay 8.

Territorial Commander :—Lt. Commissioner Theo. H. Holbrook.

Chief Secretary :—Colonel D. A. Sanjivi.

NATIONAL CHRISTIAN COUNCIL OF INDIA
Chiefly to help to co-ordinate the activities of member Churches and Regional Councils and to assist them to co-operate with one another where such co-operation is desirable.

President :—The Most Rev. A. N. Mukerjee, 51, Chowringhee Road, Calcutta-16.

Vice-Presidents :—Dr. D. G. Moses, Hislop College, Nagpur and Rt. Rev. J. E. L. Newbigin, C.S.I., Tallakulam P.O., Madurai, S. India.

Treasurer :—J. S. S. Malelu, Central Bank of India, Bombay 1.

Secretaries :—E. C. Bhatti, M.A., Ph.D.; Korula Jacob, M.A., M.Ed.; The Rev. W. Scopes, M.A.; The Rev. A.E.D. Frederick, M.A., B.D.; The Rev. J. G. F. Naumann; The Rev. H. E. Ferger.

Address :—The National Christian Council, Christian Council Lodge, Nagpur 1 (Bombay State).

SCHEDULED CASTES, TRIBES AND BACKWARD CLASSES

The President has defined by means of an order who the Scheduled Castes and Tribes are.

As regards Backward Classes a Commission was appointed to enquire into their condition.

The functions of the Commission were to determine the criteria on the basis of which any particular section can be described as socially or educationally backward, to prepare a list of such Backward Classes for the whole of India, to examine the condition and difficulties of such classes and make specific recommendations (including financial) for their removal.

The Commission listed 2,399 different classes comprising more than 11 crores of people as socially and educationally backward. The Home Minister in commenting on this stated that this reduced the investigation to an absurdity when the bulk of the country's millions could be counted as coming within the category of backward classes. The criteria fixed by the commission were neither clear-cut nor reliable.

For population of Scheduled Castes and Scheduled Tribes see under Population.

These classes include 779 Scheduled Castes, 245 Scheduled Tribes and 198 nomadic tribes besides a number of unspecified groups.

The Scheduled Tribes live in remote forest regions, chiefly in Bombay, Madhya Pradesh, Bihar, Orissa, West Bengal and Assam.

The percentage of the population of the Scheduled Castes and the Scheduled Tribes to the population as a whole is given below:

Andhra: 14.13, 3.68; Assam: 4.69, 19.48; Bihar: 12.67, 10.00; Bombay: 10.78, 7.76; Kashmir: 3.54, no Scheduled Tribes; Kerala: 8.91, 0.99; M.P.: 15.01, 18.58; Madras: 17.95, 0.45; Mysore: 13.31, 0.41; Orissa: 17.95, 20.55; Punjab: 21.64, 0.02; Rajasthan: 15.67, 11.11; Uttar Pradesh: 20.72, No Scheduled Tribes; West Bengal: 18.04, 5.96.

Delhi: 15.40, No Scheduled Tribes; Himachal Pradesh: 28.84, 2.52; Jammu & Kashmir: No Scheduled Castes, 46.11; Manipur: 4.96, 33.63, Tripura: 7.29, 30.09.

All India: 15.32, 6.23.

Untouchability is abolished and its practice prohibited by law. The State works for the removal of any disability, liability, restriction or condition with regard to access to shops, public restaurants, hotels and places of public entertainment, the use of wells, tanks, roads and places of public resort maintained wholly or partly out of State funds.

The Untouchability (Offences) Act came into force on June 1, 1955.

The State also works for the throwing open of Hindu religious institutions of a public character to all sections.

NEFA is an administrative area under the Central Government, populated almost wholly by Scheduled Tribes.

A Naga Administrative Unit under Central Administration also came into being in December 1957.

The Tribes Advisory Councils exist in Andhra, Bihar, Bombay, M.P., Madras, Orissa, Punjab, Rajasthan and W. Bengal.

With regard to the recommendation for the reservation of seats in Central and State services for backward classes, a substantial minority in the Commission (referred to above) itself was opposed to such reservation. Yet another recommendation was that 70 per cent of the seats in technical and technological institutions of higher learning should be reserved for backward classes.

All the special provisions mentioned above may come up for review by a Commission appointed by the President at any time within ten years.

The expenditure incurred on some individual items during 1957-58 is as follows. The figures are in Rs. lakhs.

	Education	Agriculture	Cottage Industries	Health	Housing	Rehabilitation
Scheduled Tribes ..	154.44	61.28	21.03	64.26	10.54	10.78
Scheduled Castes ..	169.99	20.65	12.63	26.62	92.35	..
Ex-Criminal Tribes ..	11.02	5.62	3.53	1.31	5.56	1.72
Other Backward Classes ..	92.23	7.34	6.65	1.62	1.53	1.23
	Co-operatives		Communications		Aid to Voluntary Agencies	
Tribes	10.53		93.82		9.86	
Castes	1.10		—		12.23	
Ex-Criminal .. ..	..		..		0.74	
Others .. .. .	..		..		1.75	

after the commencement of the new Constitution. Meanwhile there is an official with the Central Government who is to report to the President from time to time on the working of these provisions.

WELFARE SCHEMES

Total expenditure on welfare of the Scheduled Tribes and Areas for 1957-58 in the State Sector: Rs. 4.92 crores.

Total expenditure on the welfare of Scheduled Castes: Rs. 3.57 crores.

For the welfare of ex-Criminal Tribes: Rs. 30.38 lakhs.

For the welfare of other backward classes: Rs. 1.17 crores.

Total: Rs. 9.96 crores.

The 1957-58 figures for the Central Sector were (estimated): Scheduled Tribes: Rs. 1.15 crores; Scheduled Castes: Rs. 23.71 lakhs; Ex-Criminal Tribes: Rs. 3.71 lakhs; Other Backward Classes: Rs. 2.31 lakhs. Total: Rs. 1.45 crores.

Grand total for 1957-58: Rs. 11.41 crores. Out of this the Central grant-in-aid sanctioned was Rs. 10.13 crores.

The following sums were made available to certain non-official bodies during 1957-58 by the Home Ministry for work in connection with the eradication of untouchability:

Harijan Savak Sangh, Delhi: Rs. 3,13,833; **Bharatiya Depressed Classes League, Delhi:** Rs. 2,21,076; **Iswar Saran Ashram, Allahabad:** Rs. 73,650; **Central Social Welfare, Board, Delhi:** N.A.; **Bharat Dalit Sevak Sangh, Poona:** Rs. 47,700.

For work among other backward classes: **Bharatiya Adajati Sevak Sangh, Delhi:** Rs. 86,288; **Servants of India Society, Allahabad:** Rs. 48,553; **India Red Cross Society, Delhi:** Rs. N.A.; **All India Backward Classes Federation, Delhi:** Rs. 24,379.

Total: Rs. 7,67,829.

Other grants-in-aid sanctioned through State Governments for 1957-58 were:

Tata Institute of Social Sciences, for training of Tribal Welfare Officers, Rs. 62,000.

Indian Council of Child Welfare, Chhindwara, M.P., for setting up child-welfare Centres and day nurseries, Rs. 50,000.

Bharatiya Lok Kala Mandal, Udaipur, for cultural survey in scheduled areas of M.P., Rs. 6,500.

Khadi and Village Industries Board, U.P., for construction of houses for Scheduled Castes, Rs. 2,21,000.

Servants of India Society, Andhra Pradesh Branch, for starting of Ashram schools in Scheduled Areas, Rs. 28,650.

Bharatiya Adimjati Sevak Sangh, Andhra Pradesh, for welfare work among Tribals, Rs. 1,00,000.

SAFEGUARDS

The Constitution of India has laid down certain safeguards for Scheduled Castes, Scheduled Tribes and Backward Classes, the weaker sections of the people.

In the chapter on Fundamental Rights, under Articles 15, 16 and 17, it has been stated that the State shall not discriminate between any citizens on ground of religion, race, caste, sex or place of birth. This does not prevent the State, however, from framing rules for the reservation of seats in the legislature or of appointments in the public services in favour of any class which is not adequately represented.

Similarly, under Article 19, the right to freedom is circumscribed by authorising the State to place reasonable restrictions for the protection of the interests of Scheduled Tribes.

Under the directive principles of policy, under part 4, Article 46 of the Constitution, it is said that the State should promote the educational, economic and political interests of the weaker section of the people and in particular the Scheduled Castes and Scheduled Tribes and protect them from social injustices and all forms of exploitation.

Under Article 17 untouchability is abolished and its practice in any form forbidden.

Article 25 empowers the State to throw open Hindu religious institutions of a public character.

Article 29 provides that no citizen can be denied admission into any educational institution maintained by the State or aided by it on grounds of religion, race, caste or language.

It has been laid down under Article 164, that in the States of Bihar, Madhya Pradesh and Orissa, there should be a Minister in charge of Tribal Welfare who may, in addition, be in charge of the welfare of Scheduled Castes and Scheduled Tribes or any other work of allied nature.

Advisory boards or committees on Harijan welfare have been set up in all States and the Territory of Delhi. In the rest of the Territories there is no Harijan problem.

The Vth and VIth Schedules of the Constitution under Article 244 also provide for the administration and control of Schedule areas and Scheduled Tribes and of Tribal areas in Assam by providing Tribe Advisory Councils for Tribal areas.

For the promotion of the welfare of Scheduled Tribes and Schedule areas, provision has been made under Article 275 for grants-in-aid to be paid out of the Consolidated Fund of India for such schemes of development as may be undertaken by the States with the approval of the Government of India for raising the administration of the Schedule areas of the State to the same level as that of the other areas of the State.

Special provision for grants-in-aid has been made in the case of Assam.

In the Tribal areas in Assam, District or Regional Councils have to be set up for each autonomous region. Three-fourths of the members have to be elected on a basis of adult franchise.

There are special departments to look after the welfare of Scheduled Castes and Tribes and Backward classes in nearly every State.

REPRESENTATION IN LEGISLATURES

Seats are reserved in the Lok Sabha under Articles 330 and 332 for Scheduled Castes and for Scheduled Tribes including the Tribal areas and autonomous districts of Assam.

The number of seats reserved in any State bears the same proportion to the total number of seats allotted to that State in the Lok Sabha as the population of Scheduled Castes and Scheduled Tribes in the State or the part of the State bears to the total population of the State.

Similarly in the Legislative Assembly of every State seats are reserved.

The reservation of seats in the Lok Sabha and Legislative Assemblies will cease to have effect on the expiration of a period of ten years from the commencement of the Constitution.

The representation of the Anglo-Indian community in the Lok Sabha and in the Legislative Assemblies of the States by nomination will also cease after ten years.

Under these provisions 76 seats in the Lok Sabha and 470 in the States Legislatures have been reserved for the Scheduled Castes, and 31 seats in the Lok Sabha and 221 in the State Legislatures for the Tribes.

In addition to the election of reserved seats in the Lok Sabha, 6 members from the Scheduled Castes and 3 from the Scheduled Tribes were returned to the Lok Sabha in the 1957 general elections. For the State Assemblies the respective figures were 8 and 7.

In the Rajya Sabha there were 9 members belonging to the Scheduled Castes and Tribes and in the Legislative Councils there were 9 from the Scheduled Castes and 4 from the Tribes.

The 6 members from the Scheduled Castes elected to the non-reserved seats in the Lok Sabha were:

Mr. B. C. Kamble (Bombay), Mr. H. B. Sonule (Bombay), Mr. B. D. Solunke (Bombay), Mr. V. Easharan (Kerala), Mr. R. L. Jangde (M.P.), Mr. P. B. Naskar (W. Bengal).

The 3 from the Scheduled Tribes were:

Mr. D. S. Dora (Andhra), Mr. J. N. Hazarika (Assam), Mr. D. Deb (Tripura).

The 6 members from the Scheduled Castes in the Rajya Sabha were:

Mr. K. Ram (Bihar), Mr. P. N. Rajabhoj (Bombay), Mr. P. T. Louva (Bombay), Mr. R. U. Agnihotj (M.P.), Mr. V. M. S. Ram (Madras), Mr. E. F. Tamta (U.P.).

The 3 from the Scheduled Tribes were: **Mr. E. Thankira (Assam), Mr. T. Bodra (Bihar), Mr. T. B. P. Singh (M.P.).**

The number of Scheduled Caste and Scheduled Tribe members elected to the non-reserved seats in the State legislatures were respectively as follows:

Andhra 1, none; Assam 1, 1; Bihar none, 2; Kerala 1, none; M.P. none, 1; Madras 2, none; Mysore 1, none; Orissa none, 1; U.P. 1, none; W. Bengal 1, 2.

The position in the Legislative Councils is as follows: **Bihar 3, 4; Bombay 1, none; Madras 1, none; Mysore 2, none; Punjab 1, none; U.P. 1, none.**

REPRESENTATION IN GOVERNMENT

About Ministerial posts the position during 1957 was as follows:

In the Central Government there was one Minister, one Deputy Minister and one Parliamentary Secretary from the Scheduled Castes and one Parliamentary Secretary from the Scheduled Tribes.

Central (Scheduled Castes):

Minister, Mr. Jagjivan Ram; Deputy Minister, Dr. Mono Mohan Das; Parliamentary Secretary, Mr. B. S. Murthy.

Central (Scheduled Tribes):

Parliamentary Secretary, Mr. J. N. Hazarika.

In the State Governments there were 14 Ministers, 7 Deputy Ministers and 4 Parliamentary Secretaries belonging to the Scheduled Castes, and 3 Ministers, 5 Deputy Ministers and 3 Parliamentary Secretaries belonging to the Tribes.

The 14 Ministers belonging to the Scheduled Castes were: **Mr. D. Sanjivayya (Andhra), Mr. M. N. Hazarika (Assam), Mr. Bhola Paswan (Bihar), Mr. N. K. Tirpude (Bombay), Mr. G. R. Anant (M.P.), P. Kakkam (Madras), Mr. Gurbanta Singh (Punjab), Mr. Girdhari Lal (U.P.), Mr. Sita Ram (U.P. Minister of State), Mr. H. C. Naskar (W. Bengal), S. P. Burman (W. Bengal), Mr. R. Chennigaramiah (Mysore), Mr. P. K. Chattan (Kerala), Mr. B. C. Ram (Kashmir, Minister of State).**

The 7 Deputy Ministers belonging to the Scheduled Castes were: **Mr. C. Ram (Bihar), Mr. S. S. Vishnar (M.P.), Mr. S. K. Das (Orissa), Mr. Y. Rai (Punjab), Mr. D. Singh (Punjab), Mr. S. C. Ray Singha (W. Bengal), Mr. S. Ram (Rajasthan).**

The 4 Parliamentary Secretaries belonging to the Scheduled Castes were: **Mr. B. S. Arya (U.P.), Mr. D. Singh (U.P.), Mr. A. S. Naskar (W. Bengal), Mr. N. Majhi (W. Bengal).**

The three Ministers belonging to the Scheduled Tribes were: **Mr. W. A. Sagama (Assam), Mr. Rupnath Brahma (Assam), Mr. N. C. Singh (M.P.).**

The five Deputy Ministers were: **Mr. B. K. Patel (Bombay), Mr. S. B. Solanki (M.P.), Mr. B. S. Bariha (Orissa), Mr. T. Wangdi (W. Bengal), Mr. B. Bhai (Rajasthan).**

The three Parliamentary Secretaries were: **Mr. A. Thangura (Assam, Chief Parl. Secy.), Mr. Lalmawia (Assam), Mr. K. K. Hembram (W. Bengal).**

SERVICES

The claims of members of Scheduled Castes and Scheduled Tribes should be taken into consideration according to Article 335 in the making of appointments to services and posts in connection with the affairs of the Union or of a State consistently with the maintenance of the efficiency of the administration.

The quota reserved for Scheduled Castes and Scheduled Tribes in the Government of India services is as follows:—

Direct Recruitment on all-India Basis :

12½ per cent of vacancies filled by open competition and 16½ per cent of the vacancies filled otherwise have been reserved for Scheduled Castes, and five per cent of the vacancies in all cases for the Scheduled Tribes filled through open competition or otherwise.

In cases of promotion, the following orders have been issued :

For Non-Selection Posts :

(a) If promotion is made subject to the passing of a qualifying departmental examination, the

standard of qualification for Scheduled Castes and Scheduled Tribes need not be so high as prescribed for other candidates;

(b) If promotion is made otherwise than by a qualifying examination, Scheduled Caste and Scheduled Tribe candidates should be adjudged sympathetically without applying too rigid a standard, and the candidates belonging to these castes and tribes should not be superseded without their cases being reviewed at high levels.

For Selection Posts :

(a) If promotions are to be made on the basis of a competitive examination, the communal orders will apply and any Scheduled Caste and Scheduled Tribe candidates, who are above the minimum standard necessary for efficiency, may be selected for appointment against their reserved quota;

(b) If the promotion is made otherwise than through a competitive examination, no relaxed standards of merit are to be applied for Scheduled Caste or Schedule Tribe candidates.

The position in regard to permanent posts held by the Scheduled Castes and Tribes in the Central Government in 1956 is as follows :

	Total	Scheduled Castes	Scheduled Tribes
Class I	3,553	25 (0.7%)	4 (0.11%)
Class II	5,901	109 (1.84%)	4 (0.06%)
Class III	4,47,121	22,531 (5.03%)	1,941 (0.43%)
Class IV	5,30,794	1,14,734 (21.61%)	13,871 (2.61%)

The position about the all-India services on 1st Jan. 1958 was as follows :

	Scheduled Castes	Scheduled Tribes	Others
I.C.S. I.A.S. ..	29	6	1,486
I.P.S. I.T.P. ..	14	5	793

There is no information about the position in the States.

The statistics collected through the Employment Exchanges for 1957 are as follows.

Scheduled Castes

Total registration 1,93,681; Placements under Central Government 12,029; Placements under State Governments, 1,051.

Scheduled Tribes

Total registration 45,205; Placements under Central Government 1,624; State Governments 1,051.

Harijan employees in the country's statutory and semi-Government bodies exceed the quota of twelve and a half per cent reserved for them.

According to a unit-to-unit survey made in February, 1956, over 20,000 Scheduled Caste and 1,300 Scheduled Tribe members were employed in such bodies which numbered 95 having about 1,38,000 employees. The average roughly came to 14.8 per cent, that is, 2 per cent more than the Government reservation.

The representation of Scheduled Castes ranged from 63.3 per cent in the Cantonment Boards to 0.9 per cent in the Central Electro-Chemical Research Institute, Karaikudi South India. The maximum percentage of Scheduled Tribe employees was 47.7 per cent in the Indian Lac Case Committee.

The following States have a certain percentage of jobs reserved for Scheduled Castes and Tribes, the percentage having some relation to the

population. In the brackets is shown whether the reservation is for Castes or Tribes or both :

Andhra (C and T), Assam (T), Bihar (C and T), Bombay (C and T), Madras (C and T), Punjab (C and T), Mysore (C and T), Rajasthan (C and T), Kerala (C and T).

LEGAL AID, EDUCATION

The particulars about the cases under the Untouchability Offences Act, 1955 during the period 1st January to 31st Dec. 1957 : Total No. registered : 496; Challenged : 432; Convicted : 87; Acquitted : 39; Compounded : 86; Still pending 221.

The information given above is incomplete.

No information was furnished by Andhra, Assam, Madras, Andamans and Laccadives, About Bombay information was available only for part of the year.

Legal aid is provided by some State Governments from their own funds or from grants made by the Central Government. In the following the first figure shows the grant made to various States in 1957-58 and the second the Plan provision respectively (in Rs.)

Andhra (Telangana region) 3,000; 24,000. Bihar 10,000; 1,00,000. Bombay 2,000; not available. Mysore 2,500 (includes health and relief grants) Rajasthan 2,500; 40,000. Orissa 1,250; 10,000. Delhi 1,000; 9,000. Kerala 500; 5,000. M.P. 1,000; 10,000.

The total expenditure incurred on education during 1957-58 was Rs 427.68 lakhs.

The amount spent on the scholarship schemes was Rs 202.20 lakhs. For 1958-59 a sum of Rs 200 lakhs is provided, and this will be stabilized at this figure for the rest of the Second Plan period.

The Government of India awarded in 1957-58 (approximate figures) 44,415 scholarships.—Scheduled Castes 26,447, Scheduled Tribes 4,300, other backward classes 13,668.

Total No. of applications received from Scheduled Castes was 26,447, from Scheduled Tribes 4,300, from other backward classes 35,076.

Total : 65,821.

The subject-wise break-up of the scholarships was as follows :

	Applica-tions	Scholar-ships Awarded
Professional	13,385	8,432
Post-graduate	1,854	1,051
Graduate	12,689	7,808
Under-graduate	37,694	27,053
Trade	199	71
Total	65,821	44,415

The position in regard to the Government of India Overseas scholarships is as follows. The first figure shows the number of applications, the second the number of scholarships granted :

S.C. : 15, 4; S.T. : 12, 3; Backward : 68, 5; Total : 95, 12

In 1956-57 the amount of money spent was (Rs.) S.C. : 60,360; S.T. : 44,616; Backward 78,188; Total : 1,83,164.

There is no information about the position in 1957-58.

The following States have agreed to grant full exemption from payment of fees to Scheduled Castes and Tribes at all stages of education :

Andhra, Madhya Pradesh, Madras, U.P., Kashmir, Mysore, Rajasthan, Delhi, Kerala, Manipur, Tripura, and the PEPFU area of the Punjab and the Saurashtra and Kutch areas of Bombay.

The following States have agreed to grant partial exemption :

Assam, Bihar, Bombay, Orissa, Punjab, W. Bengal, Himachal Pradesh.

The following States have agreed to grant full exemption to other backward class students :

Kashmir, Rajasthan, Delhi and the Bhopal and Vindhya Pradesh areas of Madhya Pradesh.

The following States have agreed to grant partial exemption :

Andhra, Bombay, M. P., Madras, Punjab, U. P., Tripura.

REPORT, 1957-58

All-round increase in the tempo of welfare work relating to Scheduled Castes, Scheduled Tribes and Other Backward Classes during 1957-58 is noticed by the Commissioner for Scheduled Castes and Scheduled Tribes in his Report for the year 1957-58.

The Commissioner also reports "remarkable progress" in the field of education and health. Increased co-operative activity is another feature of the year under report.

An outstanding event of the year was the scheme of life membership devised by the Bharatiya Adimjati Sevak Sangh founded by the late Mr. Thakkar Bapa. Under the scheme, life members bind themselves by oath to serve tribal communities as whole-time workers for at least 10 years on emoluments fixed by the Sevak Sangh. Fifteen veteran workers from various non-official agencies in the States took the oath at a function at Rajghat on January 30, 1958, presided over by the President, Dr. Rajendra Prasad.

The All India Cadre of Life Members constituted thus was to be supplemented by State Cadres. At the instance of the Union Home Minister the Government of India agreed to meet the expenses involved in the maintenance of the Central and State Cadres.

The position regarding the recruitment of Scheduled Castes and Scheduled Tribes to I.A.S. and I.P.S. cadres has continued to improve and the number that would be recruited in 1957-58 exceed the total number of the I.A.S. and I.P.S. officers belonging to the Scheduled Castes who were then in service.

All semi-Government and statutory organisations under the administrative control of the various Ministries of the Union Government have agreed to follow Government's orders relating to communal representation of Scheduled Castes and Scheduled Tribes. Instructions have also been issued to Government limited companies to follow the communal representation orders as far as possible.

To eradicate the evil of untouchability, the Commissioner suggests that Scheduled Caste Members of Parliament and State Legislatures, irrespective of their party affiliations, should carry on a "whirlwind" propaganda. Another recommendation is that a situation should be created before the next Elections to ensure that no candidate who has not contributed towards the removal of untouchability aspires for a seat in any Legislature.

The Report refers to the need for the co-ordination of the efforts of non-official agencies such as the All India Harijan Sevak Sangh and the Bharatiya Depressed Classes League to do away with overlapping and waste.

Outlining the achievements of non-official agencies in educating public opinion against the evil of untouchability, the Report says that over 1,800 temples, an equal number of hotels, about 200 Dharmasalas and over 3,000 wells were thrown open to Harijans as a result of the efforts of the All India Harijan Sevak Sangh, Bharatiya Depressed Classes League and other organisations.

Considerable efforts were being made by the Union and State Governments for the educational advancement of the Scheduled Castes and Scheduled Tribes. The scheme of *ad hoc* payments to students, commenced in 1956-57, to meet the delay in the grant of scholarships, was continued during 1957-58 also.

The Commissioner points out in his Report, that the Ashram and Boarding Schools for Scheduled Tribes were "progressing well" in Bombay and Orissa as they had a vocational bias. The steps taken to encourage the opening of mixed hostels for Scheduled Castes by giving stipends to non-Scheduled Caste students to reside in these hostels had made initial progress. There are now (1959) no separate institutions for Harijans. At least 10 per cent would belong to non-Harijan classes. The word Harijan tagged to hostels, colonies and other institutions is being dropped.

The estimate of expenditure during the year for providing medical and public health facilities was about Rs 106 lakhs: about Rs 30 lakhs more than the expenditure incurred in the previous year. The amount would be utilised for the opening and maintenance of 340 dispensaries and hospitals, 78 Health Centres and the sinking and repair of over 4,000 wells.

While outlining the utility of co-operatives in raising the living standards of Backward Classes, the Report points out that the expenditure on 'Co-operation' during the year was higher than in the previous year. As against a sum of nearly Rs. 14 lakhs spent on this account in 1956-57, the outlay for 1957-58 worked out to about Rs. 20 lakhs. In the sphere of cottage industries the State Sector and Centrally-Sponsored Programme included the training of young men and women in various crafts like carpentry, smithy, tailoring, basket and rope making, etc. To encourage Harijans to take to small-scale industries the State Governments have liberalised the terms and conditions governing loans. Individuals can get loans up to Rs. 1,000 on personal bonds and up to Rs. 5,000 on two personal sureties: the rate of interest being 3 per cent.

The problem of shifting cultivation has to be "tackled seriously", says the Report. Schemes for controlling this practice which were initiated in five States during the First Five Year Plan were extended to Kerala, West Bengal and Union Territory of Manipur in 1957-58. It has been further decided to allocate funds to Bombay, Mysore and Madras to tackle the problem. The Commissioner suggests in this connection that it would be desirable to have a consolidated model scheme for all the States.

The Report recommends that the States should try to give the highest priority to the Scheduled Castes and Scheduled Tribes in the distribution of waste land that can be made available to them. Distribution of such land amongst landless labourers, the Commissioner points out, would help to put an end to this practice amongst Scheduled Tribes.

The scheme of Forest Labourers Co-operative Societies, the Commissioner adds, has succeeded "marvellously well" in Bombay. It is necessary for the expansion of this movement, he says, that State Governments adopt the policy of switching over from private contractors to these co-operative societies for granting contracts.

RIOTS

Some other occurrences would also have to be noted.

During the year mass conversions of Scheduled Caste persons to Buddhism were reported in some parts of the country. This movement had its beginning in 1956 when Dr. Ambedkar changed his religion in Nagpur a few months before his death.

This movement was confined mainly to the Marathi-speaking areas of the Bombay and M.P. States.

In the initial stages the Buddhist converts claimed that concessions and privileges should be extended to the new converts. But this could not be done as the constitution recognizes Buddhism as a separate religion. The Government of India took the view that though the converts ceased to be Scheduled Caste Hindus they still remained Backward Classes. Hence the concessions made to Backward Classes might be extended to them too.

The Bombay Government was at first unwilling to accept this suggestion but later agreed. Other Governments which have agreed are Bihar, Punjab and Mysore.

Educational concessions will continue to be enjoyed in Orissa and W. Bengal.

In Madras only free house-sites will be granted.

The Governments of Assam and U.P. had not yet made up their minds, while Kashmir has granted no concessions to Buddhist converts.

The conversion to Buddhism was followed by some rioting between Buddhists and Scheduled Castes and Buddhists and Caste Hindus.

The rioting in the Ramanathapuram District of Madras had no direct connection with untouchability but it gravely affected the Scheduled Castes.

The riots occurred in September 1957 between Maravas (Thevars) and Harijans.

Houses were looted and burned and a number of persons were killed both in the riots and in firing by the police.

The period of the disturbances was between Sept. 11 and 21—there was an isolated incident on Sept. 26. About 122 villages were affected in the four Talukas of Mudukulathur, Paramukudi, Arupukottai and Sivaganga.

In all 40 persons were killed—14 (13 Maravas and one Harijan) in police firing and 26 (eight Maravas and 18 Harijans) in the communal clashes.

The number of persons who sustained injuries was about 100.

The total number of houses set on fire was 2,879. Of these 2,731 belonged to Harijans, 106 to Maravas and 42 to other communities.

The Commissioner for Scheduled Castes toured the area and laid before Parliament a report. The question was discussed both in the Madras legislature and in Parliament. Later, Mr. Datar also toured the area.

The Madras Government granted relief. A grant of Rs. 550 was sanctioned to each family to rebuild its house while the beneficiary had to provide Rs. 200 by way of free labour. The Government of India paid Rs. 8,46,500 to the Madras Government as grant-in-aid for the construction of 2,940 new houses and provide roofing for 300. The Madras Government itself contributed another Rs. 8,46,000 for rehabilitation. Altogether, a total of Rs. 17.92 lakhs were spent.

SOME RECOMMENDATIONS

Financial aid should be given to local bodies for introducing a system of the removal of night soil in hand-carts or wheel barrows.

Where removal by hand is unavoidable pails and buckets should have closely-fitting lids.

Bucket type of latrines should be converted into scavenger free latrines as quickly as possible.

Local bodies should engage scavengers. This should not be left to individual landlords.

Scavengers should be recognized everywhere as full-time servants with the usual privileges and benefits.

Segregation of their quarters is not desirable.

Improvement in the condition of persons engaged in tanning, tanning leather work etc is called for.

Flying yards and tanning pits should be provided outside their quarters.

Caste Hindus should be encouraged to take to the 'dirty professions'.

Education should be free at least upto the middle standard.

Non-Scheduled Caste students in hostels may be given stipends to dine with Scheduled Caste students.

Seats should be reserved in The Banaras Hindu University.

A uniform policy may be enforced in the matter of admission concessions to educational institutions.

Small-scale village industries may be started for the benefit of the Scheduled Castes and Tribes.

In the scaling down of debts of Adivasis loans by private moneylenders should also be taken into account.

Time limit for the submission of reports by the Governors to the President should be strictly adhered to.

State Governments and non-official agencies may be given grants to train Scheduled Castes and Tribes candidates for various services and posts.

The policy of communal representation in services should be fully carried out.

A survey of reserved posts which are unfilled should also be carried out.

These posts should be widely publicised, and non-official agencies and the Commissioner of Scheduled Castes and Tribes should also be notified.

The upper age-limit for Scheduled Castes and Tribes may be relaxed to the extent of five years.

Unfilled vacancies should be carried forward to two years at least.

Application and examination fee should be one-fourth the normal rate for Scheduled Castes and Tribes.

In appointment and promotion the standard of merit should be lowered.

FIVE-YEAR PLANS
The following table shows the expenditure incurred in the First Plan or to be incurred in the Second Plan (Rs.):

Scheme	Scheduled Tribes		Scheduled Castes		Ex-Criminal Tribes		Other Backward Classes		Total expenditure	
	First Plan	Second Plan	First Plan	Second Plan	First Plan	Second Plan	First Plan	Second Plan	First Plan	Second Plan
Education ..	5,10,33,518	8,82,44,845	3,89,34,843	10,76,80,192	16,79,358	77,13,565	1,17,23,687	3,39,13,850	10,32,75,406	23,75,52,452
Agriculture ..	2,45,48,852	2,27,93,671	6,58,485	78,29,000	30,12,828	44,36,300	93,760	58,85,000	3,03,63,925	4,02,43,971
Cottage Industry ..	47,43,183	2,38,50,580	16,82,992	2,47,54,550	6,82,286	2,01,570	3,02,080	38,22,450	74,16,541	5,50,29,150
Medical and Public Health ..	1,53,52,601	5,00,32,578	65,20,732	2,84,34,675	6,44,607	4,69,940	18,21,871	15,78,200	2,43,39,511	8,05,35,393
Housing ..	48,91,024	2,26,43,950	12,24,368	5,46,57,000	11,39,916	32,80,250	4,69,236	18,04,350	77,24,344	8,23,86,350
Communications ..	4,07,99,551	8,78,95,850	2,24,898	3,81,500	23,172	..	1,90,144	4,63,500	4,12,37,765	8,87,41,100
Co-operation ..	49,75,564	1,39,71,025	66,49,800	66,49,800	29,640	2,59,350	2,52,699	6,62,650	53,59,058	2,15,42,925
Rehabilitation ..	4,57,021	3,36,43,275	..	50,24,400	17,03,828	89,99,800	4,83,055	12,99,000	26,43,804	4,89,70,475
Forest ..	57,89,432	1,05,59,415	..	..	..	..	..	..	57,89,432	1,05,59,415
Veterinary ..	11,53,451	48,24,252	1,982	..	31,700	81,750	..	1,00,000	11,87,133	50,06,002
Publicity ..	6,62,167	6,61,085	29,27,682	40,44,345	14,959	6,500	20,000	70,500	36,24,778	53,82,680
Community Centres ..	7,17,748	1,14,000	73,651	45,10,775	13,772	2,40,525	..	16,83,200	8,05,171	65,45,500
Aid to Voluntary Agencies ..	18,62,118	44,76,350	34,51,465	35,30,950	1,89,446	5,90,875	3,61,960	10,63,500	58,64,639	96,66,675
Administration ..	54,57,676	2,02,86,109	9,68,104	26,19,100	4,17,004	1,89,858	4,57,127	33,29,700	72,99,911	2,64,24,767
Intensive Development Blocks ..	..	6,42,00,000	..	..	..	..	..	..	..	6,42,00,000
Miscellaneous ..	91,70,688	1,56,61,910	29,48,375	57,63,510	6,60,601	21,64,509	65,420	1,01,53,950	1,28,45,084	3,37,43,570
Total ..	17,36,64,584	48,33,58,905	5,96,59,312	25,62,85,167	1,02,43,117	3,10,54,783	1,62,10,939	6,58,34,350	25,97,77,952	83,95,38,705

Note.—Includes Rs. 200.00 lakhs to be paid to the Government of Assam under Clause (a) of second proviso to Article 275(1) of the Constitution.

A sum of Rs. 94 crores has been provided in the Second Five Year Plan for the welfare of Scheduled Castes, Scheduled Tribes, etc. In the case of Centrally sponsored schemes, the entire expenditure of about Rs. 32 crores will be borne by the Union Government while the rest of the expenditure of Rs. 59 crores is to be shared between the Union and the States on a 50-50 basis.

Rehabilitation of the backward classes has a high priority in the Plan. Various schemes have been formulated to expedite the implementation of existing programmes and for the provision of further amenities.

Forty-three special multi-purpose development blocks are being set up all over the country for the rehabilitation of Scheduled Castes and Scheduled Tribes. These are based on the general pattern of the National Extension Service Blocks. Expenditure on each project is estimated at Rs. 27 lakhs.

It is proposed to train about 11,000 persons in various States, establish 825 cottage industries centres, 45 training-cum-production centres and 37 industrial and technical training centres during the Second Plan period.

Five technical institutes for tribal students each costing Rs. 50 lakhs are to be set up during this period. These institutes offer training in mechanical and civil engineering and handicrafts.

About 27,000 tribal families will be resettled and 208 demonstration centres set up under the shifting cultivation control scheme to put an end to the harmful practice of felling trees. The scheme was started in Assam, Andhra Pradesh, Bihar, Madhya Pradesh, Orissa and Uttar Pradesh during the First Five Year Plan period. It is being considerably extended during the Second Plan period at a cost of Rs. 3 crores.

It is proposed to spend about Rs. 10 crores on the construction of nearly 1½ lakh houses for Scheduled Castes and Scheduled Tribes during the Second Plan period.

The houses constructed will be of simple design. Each house costs between Rs. 500 to Rs. 1,000 depending on local conditions. Government's subsidy is mostly in the form of building material and the balance of the cost is contributed by the beneficiaries in the form of voluntary labour.

As against the construction of 9,000 houses, 8 model villages and 31 colonies in the First Plan, it is proposed to construct about 3,25,000 houses and 20 colonies during the Second Plan period. In addition, aid is to be given to about 160 housing societies.

LAWS OF 1957

DURING the year 1957* Parliament placed on the statute book 68 laws.

The date mentioned against the Act indicates the date on which the corresponding Bill received the assent of the President of India.

1. The Appropriation Act (28 March, '57).
2. The Appropriation (No. 2) Act (28 March, '57).
3. The Appropriation (vote on account) Act (28 March, '57).
4. The Kerala Appropriation Act (28 March, '57).
5. The Finance Act (29 March, '57).
6. The Appropriation (Railways) Act (29 March, '57).
7. The Prevention of Corruption (Amendment) Act (29 March, '57).
8. The Kerala Appropriation (vote on account) Act (29 March, '57).
9. The Appropriation (Railways) vote on account Act (30 March, '57).
10. The Sea Customs (Amendment) Act (2 April, '57).

International law and practice recognises the right of a maritime State to exercise on the high seas adjacent to its territorial waters and within twelve miles from its coast, the control necessary to prevent and punish the infringement of its custom regulations. This Act confers that power on Custom authorities.

11. The Foreigners Laws (Amendment) Act (2 April, '57).

With the enactment of the Citizens Act 1955 the definition of the term 'foreigner' both in the Registration of Foreigners Act 1939 and the Foreigners Act 1946, has become out of date. The present Act amends it so as to include within its scope all persons who are not citizens of India.

Section 31 confers power on the Central Government to exempt citizens of Commonwealth countries and other persons from the application of the Act. Even in the case of non-Commonwealth citizens power has been conferred to apply all or any of the provisions of the Act to individual cases.

12. The Provisional Collection of Taxes (Temporary Amendment) Act (27 May, '57).
13. The Essential Commodities (Amendment) Act (4 June, '57).
14. The Copyright Act (4 June, '57).

This Act amends and consolidates the law relating to copyright. The following are some features of the Act. (1) A copyright office is to be established under the immediate control of a Registrar of Copyrights (s. 9). The principal function of the Registrar of Copyright office, will be to maintain a Register of Copyrights in which may be entered at the option of the authors the names or titles of works, the names and addresses of the author and owners of copyright (sections 44, 45). (2) A copyright Board is to be constituted under s. 11 which is authorised to determine the reasonableness of the rates and fees charges or royalties claimed by performing right societies, consider applications for general licences for public performance of works and to assess compensation payable under the Act in certain circumstances. (3) The definition of Copyright is enlarged to include exclusive right to communicate works by radio diffusion (s. 14). (4) A cinematographic film is given a separate copyright apart from its various components, story, etc. (5) The term of copyright in a published literary work is the life of the author and fifty years thereafter. (6) The Act also provides for granting licences to produce and publish translations of a work. (7) The Act requires the performing right societies to file certain lists and statements with Registrar (s. 33). (8) It confers broadcast reproduction rights on broadcasting authorities.

(9) Chapter IX deals with International copyright relations.

S. 71 repeals the Indian Copyright Act of 1914 and the Copyright Act of 1911 passed by the Parliament of the United Kingdom as modified in its application to India by the Indian Copyright Act 1914.

15. The Appropriation (No. 3) Act (4 June, '57).
16. The Central Sales Tax (Amendment) Act (4 June, '57).

The object of the Act is to restrict the levy of tax on goods declared to be of special importance in Inter-State trade or Commerce at the last stage of sale or purchase inside the state and to provide that no tax shall be levied in respect of the last stage, if the goods are intended for sale in the course of Inter-State trade or commerce.

17. The Life Insurance Corporation (Amendment) Act (6 June, '57).
18. The Industrial Disputes (Amendment) Act (6 June, '57).

This replaces the Industrial Disputes (Amendment) Ordinance 4 of 1957.

The Supreme Court had decided that no retrenchment compensation was payable under section 25 of the Industrial Disputes Act 1947 to workmen whose services were terminated by an employer on a real and *bona fide* closure of business or when termination occurred as a result of transfer of ownership from one employer to another. This resulted in hardship to workmen. The Act remedies the defect in the original Act.

19. The Reserve Bank of India (Amendment) Act (6 June, '57)

This act enables the Reserve Bank of India to contribute to the capital of financial institutions with a view to providing medium-term loan assistance to industries.

20. The Coal Bearing Areas (Acquisition and Development) Act (8 June, '57).

This is an Act to establish greater public control over the coal mining industry and its development by providing for the acquisition by the State of unworked land containing or likely to contain coal deposits or rights in or over such land, for the extinguishment or modification of such rights accruing by virtue of any agreement, lease, licence or otherwise and for matters connected therewith. The Act was passed in pursuance of the Industrial Policy Resolution adopted in 1956.

The Act provides for the payment of reasonable compensation for the acquisition of the rights of prospecting licences and mining leases. The principles of determining compensation are set out in section 13 of the Act.

21. The State Bank of India (Amendment) Act (8 June, '57).

This Act was passed in order to enable the State Bank to assist in providing adequate medium-term finance to industries in the context of the industrial development contemplated under the Second Five-Year Plan.

22. The Appropriation (Railways) No. 2 Act (24 Aug., '57)
23. The Railway Protection Force Act (29 Aug., '57).

This Act makes radical changes in the functioning of the Watch and Ward Department. That department is re-designated the Railway Protection Force. The Act confers on the members of the Force powers of arrest and search without warrant under certain circumstances. This Force is also expected to help the Railway Police.

24. The Appropriation (No. 4) Act (30 Aug., '57).
25. The Railway Passenger Fares Act (11 Sept., '57).

This Act imposes a tax on fares payable by passengers travelling by railway. S. 3 imposes a levy on passenger fares which is to be in addition to the taxes charged by Railway. S. 5 empowers the Central Government to exempt certain passengers from the levy of this tax.

26. The Finance (No. 2) Act (11 Sept., '57).
27. The Wealth Tax (12 Sept., '57).

This Act imposed an annual tax on the net wealth of individuals, Hindu undivided families and companies. S. 5 provides for exemption in respect of certain assets. It contains a list of 21 items. S. 7 lays down rules for determining the value of assets. The Schedule to the Act lays down the rates of wealth tax. There will be a wealth tax on the first rupees two lakhs of net wealth in the case of an individual. In the case of a company the exemption is on the first rupees five lakhs of net wealth.

28. The Essential Commodities (Second Amendment) Act (17 Sept., '57).
29. The Expenditure Tax Act (17 Sept., '57).

The Act imposes an annual tax on personal expenditure above a prescribed level of individuals and Hindu undivided families.

30. The Minimum Wages (Amendment) Act (17 Sept., '57).

This Act amends the Minimum Wages Act of 1948.

31. The Dhoties (Additional Excise Duty) Amendment Act (17 Sept., '57).

This Act amends the Dhoties (Additional Excise Duty) Act of 1953.

32. The Forward Contracts (Regulation) Amendment Act (17 Sept., '57).

33. The Cotton Fabrics (Additional Excise Duty) (17 Sept., '57).

The Act provides for the levy and collection in certain circumstances of an additional duty of excise on cotton fabrics issued out of mills.

34. The Indian Succession (Amendment) Act (17 Sept., '57).

This Act substitutes a new section for section 382 of the principal Act.

35. The Insurance (Amendment) Act (17 Sept., '57).

36. The Repealing and Amending Act (17 Sept., '57).

37. The Legislative Councils Act (18 Sept., '57).

The States Reorganisation Act provided for the establishment of a Legislative Council for the new State of M.P. This Act provides for the creation of a Legislative Council for Andhra Pradesh, for increasing the strength of Legislative Councils of other states. Under the Act the strength of each Legislative Council is roughly 30 per cent of the strength of the corresponding Legislative Assembly except in the case of U.P. and Bombay. The strength of the Legislative Councils in the various States is as follows. Andhra 90, Bihar 96, Bombay 108, M.P. 90, Madras 63, Mysore 63, Punjab 51, U.P. 108, and West Bengal 75. The Act also makes elaborate provisions in regard to constituencies.

38. The Inter-State Corporations Act (20 Sept., '57).

The Act provides for the reorganisation of certain Corporations functioning in two or more States. The passing of the Act was necessitated on account of State reorganisation. A number of corporate bodies constituted under State Acts before the reorganisation of States found themselves transformed into Inter-State corporations on 1st Nov. 1956. Under section 109 of the States reorganisation Act such corporations were allowed to function as a transitional measure. Under the Act provision is made for the reorganisation of such inter-State corporations.

* In 1958, 59 Bills were passed.

The State Government is authorised to formulate a scheme for a division of the assets and liabilities of the corporations, and submit to the Central Government which is authorised to issue final order after consulting other State Governments concerned.

39. The Foreign Exchange Regulation (Amendment) Act (20 Sept., '57)

The Foreign Exchange Regulation Act (No. 7 of 1947) was due to expire on 31st Dec. '57. This Act places it on a permanent footing. It also provides for departmental inquiry and adjudication of foreign exchange offences by an authority constituted by Government on the lines of the Sea Customs Act.

40. The Industrial Disputes (Banking Companies) Decision Amendment Act (17 Nov., '57).

One of the recommendations of the Bank Award (Justice Gajendragadkar) Commission was that the Government of India should appoint a Commission to examine the financial position of the Banks incorporated in the former Travancore-Cochin State. Accordingly a Commission was appointed and it submitted its report. The Government of India accepted the recommendations and this Act gives effect to some of them.

41. The Indian Tariff (Amendment) Act (29 Nov., '57).

The Act amends the Indian Tariff Act 1934 with a view to (1) granting protection to the automobile industry, and (2) Continuing or discontinuing protection to certain other industries.

42. The Naga Hills Tuensang Act (30 Nov., '57).

The Act provides for the functioning of the Naga Hills Tuensang Area of Assam as an administration unit. This new unit will be administered by the Governor as the agent of the President but it will be distinct from NEFA. S. 3 of the Act amends the Sixth Schedule to the Constitution of India, S. 4 amends the delimitation order and S. 5 the Representation of the People Act.

43. The Industrial Finance Corporation (Amendment) Act (30 Nov., '57).

44. The Public Employment (Requirement as to Residence) Act (7 Dec., '57).

The Act makes in pursuance of clause (3) of art. 16 of the Constitution of India special provisions for requirement as to residence in regard to certain classes of employment in certain areas and repeals existing laws prescribing any requirement.

45. The Indian Nursing Council (Amendment) Act (14 Dec., '57).

The Act increases the number of members of the Council and provides for the maintenance of an All India Register of Nurses. It also facilitates the regulation of Indian citizens holding foreign qualifications and temporary registration of foreign names who are engaged as nurses or teachers or in administration in hospitals in India even though there are no reciprocal arrangements, for the recognition of Indian qualifications with the Nurses Registration Councils in the countries where they were trained or registered.

46. The Cantonments (Extension of Rent Control Laws) Act (18 Dec., '57).

The Act enables Government to extend to any cantonment any rent control enactment which is in force in the State in which the cantonment is situated.

47. The Indian Telegraphic (Amendment) Act (18 Dec., '57).

48. The Reserve Bank of India (Second Amendment) Act (19 Dec., '57).

49. The Central Excise and (Salt) Amendment Act (20 Dec., '57).

50. The Capital Issues (Control) Amendment Act (21 Dec., '57).

51. The Coal Bearing Areas (Acquisition and Development) Amendment) Act (21 Dec., '57).

52. The Opium Laws (Amendment) Act (21 Dec., '57).

53. The Indian Railways (Amendment) Act (24 Dec., '57).

54. The Preventive Detention (Continuance) Act (24 Dec., '57).

The Act extends the life of the Preventive Detention Act 1950 upto 31st Dec. 1960.

55. The Union Duties of Excise (Distribution) Act (24 Dec., '57).

The Act provides for the distribution of a part of the net proceeds of certain Union duties of excise in pursuance of the principles of distribution recommended by the Finance Commission in their report dated 30 Sept., '57.

56. The Appropriation (No. 5) Act (24 Dec., '57).

57. The Estate Duty and Tax on Railway Passenger Fares (Distribution) Act (26 Dec., '57).

The Act lays down the principles of distribution among the States of the net proceeds of the Estate Duty on property other than agricultural land and the tax on railway fares.

58. The Additional Duties of Excise (Goods of Special Importance) Act (24 Dec., '57).

The Act imposes additional duties of excise in replacement of the sales taxes levied by the Union and the State on sugar, tobacco and mill-made textiles and provides for the distribution of the net proceeds of these taxes.

59. The Damodar Valley Corporation (Amendment) Act (24 Dec., '57).

60. The Indian Tariff (Second Amendment) Act (27 Dec., '57).

61. The Delhi Development Act (27 Dec., '57).

62. The Navy Act (27 Dec., '57).

63. The Countess of Dufferin Fund Act (27 Dec., '57).

64. The Prevention of Disqualification (Amendment) Act (27 Dec., '57).

65. The Citizenship (Amendment) Act (27 Dec., '57).

This Act adds the following Commonwealth countries to the list in the First Schedule (1) Ghana, (2) Federation of Malaya, (3) Singapore.

66. The Delhi Municipal Corporation Act (28 Dec., '57).

67. The Mines and Minerals (Regulation and Development) Act (28 Dec., '57).

68. The Payment of Wages (Amendment) Act (28 Dec., '57).

STUDENTS' GUIDE

Below we have brought together information which may be useful for students who are looking for vocational guidance. It is, of course, impossible to put down all the careers that one might take up or the courses of study that are open.

The chief purpose of this article is therefore to tell the student where information may be obtained.

Many schools and colleges themselves provide vocational guidance.

In every State the Education Department has a technical wing usually under the charge of a Director, who can give much information.

There are vocational guidance agencies both Government and non-Government located in various parts of the country. A list is given below.

There is an All India Educational and Vocational Guidance Association, c/o The Faculty of Education and Psychology, University of Baroda, Baroda, which would also be of help.

These bureaux are staffed by what are called counsellors who are specially trained to judge an individual's abilities, aptitudes and interests and who use objective tests before giving advice.

The various employment exchanges in India have guidance units attached to them. They are called Youth Employing and Counselling Units which are part of a National Employment Service with a Central Bureau of Educational and Vocational Guidance at 33, Probyn Road, Delhi 8. These units are attached to the Ministry of Education.

They assist the secondary school leavers for placement. But there is also a school guidance service which helps the student all through by means of general, curricular and occupational orientation during the period of six years of secondary schooling. This school guidance service is about five years old and is hardly effective at the moment.

Many universities today have information bureaux primarily for information about studies abroad.

The Ministry of Education, Government of India, New Delhi, has an Overseas Division which must be consulted.

The foreign Embassies, Legations, Consular Offices and Information Services would be willing to help. A list of these with their addresses can be obtained from the Director, Information Services of India, Ministry of External Affairs, New Delhi.

About studies in the U.S.A., places from where information can be obtained are:

U. S. Information Service, 13, Golf Links, New Delhi; 10, Queen's Road Estate, Bombay; 7, Chowringhee Road, Calcutta 13; 158, Mount Road, Madras 2; Main Road, Cantonment, Trivandrum; Sri Naraynaraja Square, Bangalore City; Arundelpet, Guntur.

About courses of study in England, information may be obtained from:

1. The British Council, French Bank Building, Hornby Street, Bombay 1.

2. The British Information Services, Eastern House, Mansingh Road, New Delhi; Mercantile Bank Building, Mahatma Gandhi Road, Bombay; 1, Harrington Street, Calcutta; 6, Armenian Street, Madras.

USEFUL ADDRESSES

Some other useful addresses are given below not in any special order. The relevant addresses should be selected for information required. The addresses, may, of course, change. Below we give the latest available addresses:

The National Institute of Sciences, Mathura Road, New Delhi.

The National Academy of Sciences, India, Lajpat Rai Road, Allahabad.

Indian Association for the Cultivation of Science, Jadavpur, Calcutta 32.

Indian Science Congress Association, 64, Dilkhusha Street, Calcutta 17.

The names and addresses of specialised bodies are given below:

Accountancy—Institute of Chartered Accountants of India, P. Box 268, Mathura Road, New Delhi 1; Institute of Cost and Works Accountants, 12, Sudder Street, Calcutta 16.

Actuarial Science—Actuarial Society of India, c/o New India Assurance Co., Mahatma Gandhi Road, Bombay 1.

Advertising—Advertising Agencies Association of India, Kitab Mahal, 192, D. Naoroji Road, Bombay 1; Indian Society of Advertisers, Shree Nivas House, Waudby Road, Bombay 1.

Anthropology—Anthropological Society of Bombay, 16, Apollo Street, Bombay 1.

Architecture—Indian Institute of Architects, Prospect Chambers Annexe, Dr. Dadabhai Naoroji Road, Bombay 1.

Art—All-India Association of Fine Arts, 28, Apollo Street, Bombay 1; Bombay Art Society, Jehangir Art Gallery, Mahatma Gandhi Road, Bombay 1; Commercial Artists' Guild, 4th Floor, India House, Fort Street, Bombay 1.

Banking—Indian Institute of Bankers, State Bank of India, Apollo Street, Bombay.

Chemists' Organisation—Society of Biological Chemists, Malleawaram, Bangalore 3.

Cinematography—Indian Motion Picture Producers' Association, Sandhurst Building, Sandhurst Road, Bombay 4.

Commerce—Bombay Chamber of Commerce, Mackinnon Mackenzie Building, Ballard Estate, Bombay 1; Indian Merchants' Chamber, Back-Bay Reclamation, Bombay 1.

Engineering—Electrical Contractors' Association, 63, New Stock Exchange Building, Apollo Street, Bombay 1; Mechanical Engineers' Association (India), Opposite Railway Station, Grant Road (East), Bombay 7; Indian Institution of Chemical Engineers, c/o A. C. College of Technology, Saidapet, P. O. Guindy, Madras; Institution of Engineers (India), Bombay Centre, Ilaco House, Sir P. Mehta Road, Bombay 1; Institution of Production Engineers, Bombay Section, c/o Machine Tools (India) Ltd., Imperial Chambers, Wilson Road, Ballard Estate, Bombay 1; Builders' Association of India, United India Building, Sir Phirozshah Mehta Road, Bombay 1.

Industrial Welfare—Industrial Welfare Association (India), c/o Scientific Management (India) Private Ltd., Taj Mahal Hotel, Bombay 1.

Insurance—Indian Life Insurance Offices Association, Industrial Assurance Building, Churchgate, Bombay 1.

Journalism—All-India Newspaper Editors' Conference, 50-51, Theatre Communications Building, Connaught Place, New Delhi.

Labour Management—National Institute of Labour Management, Post Box 6959, Bombay 27.

Law—The Bombay Advocates' Association, Presidency Small Causes Court, 2nd Floor, Carnac Road, Bombay 2; Bombay Incorporated Law Society, 113-115, Mahatma Gandhi Road, Bombay 1.

Library Science—Bombay Library Association, c/o Siddharth College, Anand Bhawan, Dr. Dadabhai Naoroji Road, Bombay 1.

Medical Science—Bombay Medical Council, Swadeshi Mills Estate, next to Roxy Cinema, New Queen's Road, Bombay 4.

Milowners' Organization—Milowners' Association, Bombay, Elphinstone Building, Veer Nariman Road, Post Box No. 95, Bombay 1.

Mining—The Mining (Institution) and Metallurgical Institute of India, 27, Chowringhee, Calcutta 15.

Natural History—Bombay Natural History Society, 114, Apollo Street, Bombay 1.

Opticians' Organization—Bombay Optical Association, c/o Balliwalla and Homi, Hornby Road, Bombay 1.

Personnel Management—Indian Institute of Personnel Management, 15, Park Street, Calcutta 16.

Pharmacy—Indian Pharmaceutical Association (Bombay State Branch), Kalam Kutir, 3rd Floor, 213-19, Frere Road, Bombay 1.

Plastic Manufacture—All-India Plastic Manufacturers' Association, Chowpatty Chambers, Sandhurst Bridge, Bombay.

Printing—Bombay Presidency Printers' and Lithographers' Association, Narandas Building, 18, Ballard Estate, Bombay 1.

Psychology—Bombay Psychological Association, c/o R. J. Shah, Block 31, Plot 78, Marine Drive, Bombay 1.

Radio and Electronics—All-India Radio Merchants' Association, Fateh Manzil, Opera House, Bombay 4; Radio and Electronics Society of India, Fateh Manzil, Opera House, Bombay 4.

Technology—Sugar Technologists' Association, Nawabganj, Kanpur.

Textile Manufacture—The Textile Association (India), Ganesh Bhawan, Suparbaug Road, Parel, Bombay 12.

Transport—Air-Transport Association of India, Malhotra Building, Connaught Circus, New Delhi; Indian Road and Transport Development Association, 27, Hastion Road, Bombay 1.

The addresses of some useful institutes are given below:

Institute of Jute Technology, 12, Regent Park, Tollygunge, Calcutta; Indian Institute of Sugar Technology, Kanpur; Indian Statistical Institute, 203, Barrackpore, Trunk Road, Calcutta 35; Forest Research Institute, Dehra Dun; Indian Agricultural Research Institute, New Delhi; Indian Dairy Research Institute, Bangalore; Malaria Institute of India, Delhi; Indian Lac Research Institute, Nankum, Ranchi; Indian Cancer Research Institute, Parel, Bombay; Development Commissioner, Small-scale Industries, Shahjahan Road Hutments, New Delhi; All India Handloom Board, Wiltet Road, Bombay 1; All India Handicrafts Board, Ministry of Commerce and Industry, Taj Barracks, Jan Path, New Delhi.

VOCATIONAL GUIDANCE BUREAUS

Below we give a list of these Bureaus.

Central Bureau of Educational and Vocational Guidance, 33, Probyn Road, Delhi 8; State Bureau of Educational & Vocational Guidance, Orissa, Radha Nath Training College, Cuttack-2; Bureau of Educational & Psychological Research, David Hare Training College, Calcutta; State Bureau of Educational & Vocational Guidance, Prantiya Shikshan Mahavidyalaya, Jabalpur, M. P.; Bureau of Psychology, Allahabad; Vocational Guidance Officer, Elphinstone Technical High School Building, 3, Cruickshank Road, Bombay-1; State Bureau of Educational & Vocational Guidance, Bihar, Department of Education, S. P. Verma Road, Patna; Vocational Guidance Officer, State Bureau of Educational & Vocational Guidance, Department of Education, Gwalior (Guidance Units at Indore and Ujjain); Vocational Guidance Officer, Educational & Vocational Guidance Bureau, Jeeban Bharati, Greenlands, Nanpura, Surat; Vocational Guidance Bureau, B. R. College, Agra; Vocational Guidance Bureau, Manava-Bharati, Musoorie; Gujarat Research Society, 46-48, Esplanade Road, Bombay; Vocational Guidance

Bureau, Y.M.C.A., Indore; Vocational & Educational Counselling Services, 44, Palace Court, Calcutta-16; Vocational & Educational Counselling Services, Training School for Village Teachers, Moga (Punjab); Guidance Institute, 1,762, Kirlokar Road, Belgaum; D. M. Institute of Education, Section of Educational & Vocational Guidance, Moga (Punjab); Vocational Guidance Centre, Chintamanrao High School, Shahapur-Belgaum, Belgaum; Counselling Director, Y.M.C.A., Bangalore; Vocational Guidance Sub-Bureau, Government of Bombay, Tilak College of Education, Poona-2; Assistant Vocational Guidance Officer, Vocational Guidance Sub-Bureau, A.G. Teachers' College, Navrangpura, Ahmedabad-9; Vocational Guidance Officer, Vocational Guidance & Employment Counselling Unit, Sub-Regional Employment Exchange, Charbagh, Lucknow; Director, State Bureau of Educational & Vocational Guidance, Himaynagar, Hyderabad; Director, State Bureau of Educational & Vocational Guidance, Bikaner (Rajasthan); Director, State Bureau of Educational & Vocational Guidance, Trivandrum (Kerala); Counsellor, State Bureau of Educational & Vocational Guidance, Shillong; Psychological Research Institute, Khar, Bombay.

EMPLOYMENT EXCHANGES

As already mentioned many employment exchanges have vocational guidance units attached to them. For the latest position at any time the Director-General of Resettlement and Employment, Ministry of Labour and Employment, New Delhi should be contacted.

These units give what is called youth employment service and employment counselling service for adults with job experience.

The Manpower Division of the Directorate-General of Resettlement and Employment at 18, Gurdwara Road, New Delhi conducts a programme of employment market information. This is collected through the various employment exchanges in the country. Each State has a State Employment Market Information Unit which is part of the State Directorate of National Employment Service. For any information about this the State Directors of National Employment Service should be addressed.

The object of the employment market information scheme is the study of employment market conditions in different areas, on a continuing basis, with a view to making available data regarding the supply and demand for manpower and the various other factors that affect the situation from time to time.

Under the Employment Market Information Scheme data are being collected from both the public and private sectors on the basis of an establishment reporting system.

Quarterly information is obtained from private employers regarding changes in employment, nature and volume of current openings, difficulties experienced, if any, in filling them and the occupations in which shortage is experienced.

In addition, data are also collected in regard to the occupational pattern of employment as well as anticipated demands during the subsequent years for different categories of personnel. The information received from employers is studied along with other relevant material including what the Employment Exchange operations have to reveal.

Employment market studies are made on an area basis. Individual area studies would be combined to give regional and national pictures. Among other things, the data would be used for adjusting vocational training facilities and for vocational guidance and counselling.

The Statistical Section of the Manpower Division is responsible for processing manually and on machines all data received from Employment Exchanges. The Statistical and Employment Market Information Sections also undertake special studies in the field of employment and manpower.

Employment market studies are in progress at the time of writing in a number of areas. Among

them are Delhi, Kanpur, Ambala, Gauhati, Cuttack, Indore, Nagpur, Bangalore, Coimbatore and Ernakulam. These will be increased to a hundred and fifty areas by 1960-61.

Quarterly reports on the employment market in Delhi have been and are being published since 1956. Reports on other areas are also being issued.

The Directors of Employment in each State will provide information in regard to the programme in their respective States. The Manpower Division also brings out studies on employment and unemployment. Two such studies relate to (i) the pattern of graduate unemployment and (ii) the supply and demand for school teachers.

GUIDANCE UNITS

Below we give a list of employment exchanges where vocational guidance units have been established.

Sub-Regional Employment Exchange, Near Railway Station, Lucknow (U.P.); Youth Employment Service and Employment Counselling Unit, 13, Selimpore Road, Calcutta-13; The Regional Employment Exchange, No. 108-A, the Mall, Ambala Cantt.; The District Employment Officer, No. 41, Whites Road, Royapettah, Madras-14; The Regional Employment Officer, Brij Kishore Path, Patna; The Regional Employment Officer, 14, Daryaganj, Delhi; The Regional Employment Officer, Hyderabad (Deccan), Tootiq Vile, Khairatabad, Hyderabad (Deccan); The Regional Employment Officer, Hassan Chambers, 2nd Floor, Parsi Bazar Street, Fort, Bombay-1.

The addresses of State Directors of National Employment Service are given below:

State Director of National Employment Service, 23, Staff Road, Ambala Cantt.; Director of National Employment Service, 5, Infantry Road, Bangalore; Labour Commissioner and Director of Employment, Government of Rajasthan, Plot No. C-32, Sarojini Marg, Bhagwandas Road, 'C' Scheme, Jaipur; Secretary and Ex-officio Director of Employment, Van Ross Junction, Trivandrum; State Director of National Employment Service, Grove Side, Keating Road, Shillong; State Director of National Employment Service, 28, Theatre Road, Calcutta; Director of Employment, Mercantile Chambers, 2nd Floor, Graham Road, Ballard Estate, Bombay; Additional Director, National Employment Service, Building No. 6-2-28, Mumtaz Mansion Lane, Safabad, Hyderabad; Director of National Employment Service, Gobind Bhavan, Jabalpur; Director of National Employment Service, New Secretariat Building, Room No. 94, Ground Floor, Patna; Director of Employment and Training, Government of Uttar Pradesh, Civil Secretariat, Lucknow; Director of National Employment Service, Old Secretariat Building, Durga Bazar, Cuttack; Director of National Employment Service, Shadow Bush, No. 8, Haddows Road, Madras; Director of Employment and Training, 18, Gurdwara Road, New Delhi.

PUBLICATIONS

There are a large number of publications which give vocational guidance.

In general, these career books mention the occupations that are open to students who leave at various stages of their school career, the minimum qualifications that are necessary, the educational courses that one has to take, the duration, the cost, the names of the institutions that provide these courses, and the emoluments the posts carry.

Once again it would be impossible to give a full list of these publications. The student has to refer to the publishers, some of whom are listed below not in any special order.

Some books of a general nature are (prices are liable to change):

Facilities for Technical Education in India (Government of India publication, Re. 1).

Scientific Institutions and Societies in India (Bureau of Education, Government of India, Rs. 2-2-0).

Some Careers for Women by Avabai Mehta (Thacker & Co., Rampart Row, Bombay, As. 8).

Careers for Boys (As. 10), Choice of a Career (As. 13) by F. S. Chotia (New Book Co., Hornby Road, Bombay 1).

Directory of Universities and other Institutions of Higher Learning (Manager of Publications, Government of India, Delhi, Rs. 2-6-0).

Professional and Technical Studies in India by A. N. Sharma (Metropolitan Book Co. Ltd. 1, Fair Bazar, Delhi, Rs. 2-12-0).

Hand-Book of the Universities (Inter University Board, C.S.I.R. Bldg., New Delhi).

A Write-Up on the Scope for University Graduates (University Students' Information Bureau, Madras University, Rs. 6-50).

A Hand-Book of Training Facilities in India, Part I, Institutional Training (in two volumes.)

A Hand-Book of Training Facilities in India, Part II, Inplant Training.

Both the books are published by the Occupational Information Unit of the Directorate-General of Resettlement and Employment, Gurdwara Road, New Delhi.

Choosing a Career by C. T. Philip (Oxford University Press, Apollo Bunder, Bombay 1, Rs. 4. Education edition: Rs. 3).

Directorate-General of Resettlement and Employment

The most important single source of information for all India purposes is the Directorate-General of Resettlement and Employment, Ministry of Labour and Employment, Government of India, New Delhi.

It has prepared for each State a separate hand-book giving particulars of technical and professional courses that are available in that State, the period of training, the fees charged, etc.

There is also an all-India volume.

All these are brought up-to-date from time to time.

The Occupational Information Division of the Directorate has brought out a series of career pamphlets. These are available for sale at all Employment Exchanges. Copies have been sent to all colleges and high schools. A list of these pamphlets is given below.

Two books of general interest may be mentioned here.

The first is entitled the Pattern of Graduate Unemployment.

This study analyses graduates registered for employment according to degrees they possess, the subject of their specialisation, the class obtained, the age distribution, their previous employment and their job preference.

Among the graduates registered with the Employment Exchanges (according to the study) it was found that 48.5 per cent held a bachelor's degree in arts, 27.7 per cent in science and 12.8 per cent in commerce. The incidence of unemployment was most acute among graduates with commerce degree, 60.4 per cent of graduates sought clerical employment, 19.5 per cent professional and technical posts, 15.7 per cent administrative and executive jobs and 4.4 per cent other types of jobs.

A second study—Supply and Demand of School Teachers—was published in January, 1958. Of 8.86 lakh persons seeking employment assistance through the Employment Exchanges at the end of November, 1957, about 34,000 (3.8 per cent) were registered for the job of teachers. 53 per cent of them were untrained and 47 per cent trained. 26 per cent of those registered for teachers were women, 11 per cent of the total were graduates who desired teachers' jobs in high schools; 28 per cent wanted jobs in middle schools and 61 per cent in primary schools.

According to this study, there were more teachers than vacancies in Andhra Pradesh, Delhi, Kerala, Mysore, Madras, Punjab, U. P. and West Bengal. A shortage of teachers was noticed in Madhya Pradesh, Rajasthan, Orissa and Bombay.

A project that is of considerable value for the standardisation of occupational nomenclature in the country is the preparation of a National Classification of Occupations. This work which is now in hand aims at the preparation of an occupational dictionary, job analyses and definitions of over a thousand occupations have been completed.

CAREER PAMPHLETS

The Occupation Information Unit of the Directorate General has also brought out:

A series of career pamphlets known as Guides to Careers, a list of which is given below. They can be had from the State Directorates or Employment Exchanges.

Most of the career books are priced 6 nP.

The following are for those who have passed the Matriculation or lower examination.

The Architect; The Pharmacist; The Vaccinator; The Sanitary Inspector; The Pattern Maker; The Instrument Mechanic; The Draughtsman (Mechanical Engineering); The Machinist; The Road Roller Driver; The Overseer (Civil); The Draughtsman (Civil); The Tool Maker; The Social Educational Organiser; The Wireman; The Co-operative Supervisor; The Veterinary Doctor; The Gram Sevka; The Librarian; The Nurse; The Stenographer; Careers for School Leavers; The Auxiliary Nurse; The Teacher (Primary School); The Teacher (High School); The Electrician; The Health Visitor; The Turner; The Tractor Operator; The Radio Technician; The Surveyor; The Moulder; The Panchayat Secretary; The Welder; The Plumber; The Extension Officer (Industries); Careers in Community Projects; The Agriculture Officer.

The following are for those who have passed the Intermediate:

The Chemical Technologist; The Civil Engineer; The Chemical Engineer; The Mining Engineer; The Machine Driller; The Aeronautical Engineer; The Automobile Engineer; The Metallurgist; The Mechanical Engineer; The Electrical Engineer; The Telecommunication Engineer.

The following are for those who have taken a degree:

The Accountant; The Statistician.

There are Hindi versions of some of the career books. These are given below. The price is the same as that of the English original.

The Veterinary Doctor; The Gram Sevka; The Librarian; The Electrician; The Teacher (Primary School); The Teacher (High School); The Auxiliary Nurse; Careers for School Leavers; The Tractor Operator; The Health Visitor; The Stenographer; The Sanitary Inspector; The Panchayat Secretary; The Accountant; The Mining Engineer; The Metallurgist; The Overseer (Civil Engineering); The Social Education Organiser; The Draughtsman (Mech. Engineering); The Machinist; The Vaccinator; The Pharmacist; The Chemical Technologist; The Aeronautical Engineer; The Tool Maker; The Civil Engineer; The Wireman; The Architect; The Surveyor; The Co-operative Supervisor; The Chemical Engineer; The Nurse.

The Y.M.C.A. Publishing House, 5, Russel Street, Calcutta 16, has also brought out a Vocational Guidance Series. The prices vary between 25 nP. and Rs. 1-00.

Careers in the Building Industry; Careers in Accountancy; Careers for Medical Graduates; Careers in Forestry and Fisheries; Careers in Engineering; Careers in Agriculture; Careers for Women; Careers in Government Services.

The Vocational Service Committee of the Bombay Rotary Club of Bombay has published a series through the Oxford University Press,

Apollo Bunder, Bombay 1. They are entitled the Rotary Guide to Careers and are all priced between 50 nP. and Rs. 1-50.

The books in the Rotary Guide to Careers series are:—

Architecture; Engineering; Civil Engineering; Mechanical Engineering; The Book Trade; All India Services; Defence Services; Bombay Government Services; A Medical Career; Cost Accounting; Agricultural Engineering.

The following are now out of print:

Banking; Law; Accountancy.

The Vocational Guidance Bureau, Elphinstone Technical High School Building, 3, Crisakahank Road, Bombay 1, of the Bombay Government has also a series of booklets. It also brings out monographs which give detailed information about individual careers, in Bombay State for students. The Bureau is, in fact, a store-house of information about courses and careers not only in Bombay State but also for all-India purposes.

The booklets range in prices from An. 1 to As. 9.

The titles are given below:

S. S. C.—What Next?; Facilities for Commercial Education in the State of Bombay; Earn While You Learn: Social Work as a Career; Courses for Non-S. S. C.'s; Are you Planning a Technical Career?; Life Assurance as a Career; Facilities for Training in Village Industries; Inter—What Next?; Librarianship as a Career; Careers in the Merchant Navy; Careers in the Police Force; Forestry as a Career; Psychology as a Career.

For possible careers on the railways there is a Railway Board (New Delhi) booklet entitled 'Railway Careers'.

The Central Bureau of Educational and Vocational Guidance, 33, Probyn Road, Delhi 8 has a series entitled 'Occupational Orientation Filmstrips.' These film strips are issued with printed comments with as wide a coverage of the world of work as the secondary school pupil may be expected to know. They are meant for use in schools. The titles are given below:

In Farm and Field; In Workshop and Laboratory; Business is Business; Dealing with People; Public Administration and Private; Men in Uniform; Arts, Crafts and Letters.

SCHOLARSHIPS

Lists of scholarships are obtainable from the heads of schools and colleges and from the Directors of Education of individual States.

It would not be possible to give a list of the various scholarships offered by official and non-official bodies in the country. They would be too numerous to mention.

Information about Scholarships awarded by the Ministry of Education, Government of India, New Delhi, for studies in India is given in "Government of India Scholarships for Studies in India". (Obtainable for 60 nP. from the Manager of Publications, Civil Lines, Delhi-8.)

The Ministry of Education, Government of India, New Delhi has also published a pamphlet on "Scholarships for Studies Abroad", which is obtainable from the Manager of Publications, Civil Lines, Delhi-8 for 37 nP.

The UNESCO publication, "Study Abroad" gives information about scholarships and other awards available for studies abroad. The publication is available from leading booksellers, or from UNESCO, 21, Curzon Road, New Delhi.

Below we give a list of scholarships offered by the Government of India. For details reference should be made to the Scholarships Division of the Ministry of Education, New Delhi:

Modified (Central) Overseas Scholarships Scheme (other than scientific, engineering, technological, fine arts and medical subjects).

Union Territories Overseas Scholarships (other than scientific, engineering, technological, fine arts and medical subjects).

Foreign Languages Scholarships Scheme.

Twenty Fully Paid Overseas Scholarships Scheme (other than scientific, engineering, technological, fine arts and medical subjects).

Agatha Harrison Fellowship Scheme.

Indo-German Industrial Co-operation Scheme—Scholarships to Indian nationals for studies in West Germany and Fellowships to German nationals for studies in India (other than scientific, engineering, technological, fine arts and medical subjects).

London University Institute of Education Fellowships.

General Cultural Scholarships Scheme.

Cottage Industries and Vocational Training Scholarships Scheme.

Scholarships to Bhutanesse Students.

Scholarships to Sikkimesse Students.

Admission of private foreign students to Indian Universities/Institutions recommended by our Missions.

Facilities offered by Indian State Governments/Universities to African Students for studies in India.

Scheduled Castes, Scheduled Tribes and other Backward Classes Scholarships Scheme for post-Matriculation Studies in India.

Overseas Scholarships to Scheduled Castes, Scheduled Tribes and other Backward Classes Students.

Partial Financial Assistance (Loan) Scheme and recoveries of loans under the Scheme.

Research Scholarships in Humanities.

Scholarships/other educational facilities to the Children of Political Sufferers.

Colombo Plan Scholarships/Fellowships (other than scientific, engineering, technological, fine arts and medical subjects).

Point Four Programme Fellowships/Scholarships (other than scientific, engineering, technological, fine arts and medical subjects).

U. N. Social Welfare Fellowships/Scholarships Programme.

UNESCO Fellowships/Scholarships (other than scientific, engineering, technological, fine arts and medical subjects).

Scholarships/Fellowships to Students from South and South-East Asian countries under the Colombo Plan (other than scientific, engineering, technological, fine arts and medical subjects).

Fellowships/Scholarships from Foreign Governments, Institutions and Bodies (other than scientific, engineering, technological, fine arts and medical subjects).

Programme for Exchange of Scholars between India and Foreign Countries (other than scientific, engineering, technological, fine arts and medical subjects).

Post-Matric Merit Scholarships Scheme.

Merit Scholarships in Public Schools.

Scholarships for Higher Studies in Hindi to Students of non-Hindi Speaking States.

Reciprocal Scholarships Scheme in the case of Scholars coming for study of Humanities.

Fellowships to French nationals under the French Fellowships Scheme in the case of Scholars coming for study of Humanities.

Financial Assistance to educational institutions and Indian students abroad.

United States Educational Foundation in India.

* The latest edition Feb. 1959 is entitled 'Scholarship for Study at Home and Abroad' (Ministry of Scientific Research and Cultural Affairs, Price 25 nP.).

Co-ordination of foreign aid projects, e.g., T. O. M., Colombo Plan, Ford Foundation, Point Four Programme, etc.

Post-School Scholarships for the Blind.

Post-School Scholarships for the Deaf.

Scholarships for Handicapped.

Scholarships for the Mentally Retarded Children.

The Ministry of Scientific Research and Cultural Affairs has schemes of its own for subjects other than humanities.

Old Overseas Scholarships Scheme.

Modified (Central) Overseas Scholarships Scheme.

Fully Paid Overseas Scholarships Scheme.

Union Territories (Central States) Overseas Scholarships Scheme.

Indo-German Industrial Co-operation Scheme: Practical Training, Post-Graduate Studies, Fellowships to German nationals for studies in India.

Colombo Plan for Studies Abroad and in India.

Colombo Plan Correspondence Course.

UNESCO Fellowships for Studies Abroad and in India.

Ad hoc awards offered by the Foreign Governments: Governments of U.S.S.R., Czechoslovakia, Austria, France, Belgium, Yugoslavia, U.A.R., Japan, Rumania, Italy, Switzerland, Israel, Sweden, Hungary, Netherlands, Norway.

German Democratic Republic Scholarships Scheme (East Germany).

Hamburg Chamber of Commerce Scholarships Scheme (West Germany): Training of Polytechnic Teachers, Training of Technicians.

Federal Republic of Germany Scholarships Scheme.

Hamburg University Students' Union Scholarships Scheme (West Germany).

Ad hoc offers of West German Government of Museology, Assyriology.

German Academic Exchange Service Scholarships Scheme for unspecified subjects.

Federal Republic of Germany Scholarships for Studies in Fundamental Scientific Research (Atomic Energy).

Federation of British Industries.

Brush Abee Group Scholarships.

Royal Commission of Exhibition 1851 and Rutherford Scholarships.

I.A.E.S.T.E. for Training Abroad.

T.C.M. Scheme for Studies in U.S.A.

Reciprocal Scholarships Scheme in Scientific, Engineering, Technological and Fine Arts and Medical subjects.

Exchange Programmes of Scholars: Governments of China, U.S.S.R., Czechoslovakia, Poland, Yugoslavia, Rumania.

French Fellowships Scheme in Scientific, Engineering, Technological and Fine Arts and Medical subjects.

Scheme for Cultural Scholarships to the Young Artists.

German Democratic Republic Government Scholarships for Post-Graduate Studies.

German Democratic Republic Government Scholarships for Practical Training.

French Government awards for specialized training.

U.N.T.A. Scholarships.

Similar offers by other Governments/Organisations, Universities for studies in Science, Technology and Culture.

ANDAMAN AND NICOBAR ISLANDS

Capital: Port Blair.

Area: 3,215 sq. miles. Pop. 40,000 (approx.) (1958).

The Andamans are a group of 204 islands of various sizes large and small lying between the 6th and 14th Parallels in the Bay of Bengal. The northernmost 'Landfall Island' is 560 miles from the mouth of Hooghly River. The headquarters Port Blair is about 780 and 740 miles from Calcutta and Madras respectively. The main part of the group is composed of five large islands, viz., North Andamans, Middle Andamans, South Andamans, Baratang and Rutland Islands generally known as the Great Andamans. To the south of the Great Andamans is the island of Little Andaman. The extreme length of the Great Andaman Islands is 290 miles and the extreme breadth 32 miles the total land area being approximately 2,580 sq. miles. These islands consist mostly of a mass of hills covered with dense tropical forests and separated by three straits and several creeks. These islands have several very good harbours—Port Blair, Port Cornwallis, Mayabander and Port Elphinstone.

The Nicobar Islands numbering 19 from Car Nicobar in the north to Great Nicobar in the south intervene between Little Andaman and Sumatra. The southern island of Great Nicobar is about 100 miles from Pulo Brasse of Achin Head in Sumatra and the northern island of Car Nicobar 75 miles from Little Andaman. The extreme length of the seaspace occupied by the Nicobars is 163 miles and the extreme width is 36 miles. The islands in the Nicobar group are partly hilly and partly flat.

The climate of the islands can be generally described as tropical; warm but tempered by pleasant sea breezes. The islands are exposed to both monsoons with north-easterly gale from November to January and south-westerly gale from May to October. The weather is quiet only from February to April and to some extent in October. The average rainfall is 125 inches. The maximum temperature varies between 85 and 92 degrees throughout the year. The scenery of the islands is everywhere strikingly beautiful.

POPULATION

The population of the islands according to the 1951 census was 30,971 of whom 22,957 lived in rural areas. The population increased with the arrival of displaced persons from East Bengal. In 1958 the population was approximately 40,000.

The population can be mainly divided into four groups: (a) Aborigines; (b) Andaman Indians; (c) Nicobarese; (d) East Bengal settlers.

(a) *Aborigines*: The aborigines of the Andamans are descendants of a Negrito race, supposed to have been the earliest people to inhabit South East Asia. Essentially there are two main species *Eriantaga*, that is the forest dwellers who comprise the Jarawas and Sentenelese, and the coastal tribe to which the Onges and the Andamanese belong. The Andamanese were originally the most numerous of all the tribes but their number has decreased probably due to their contact with civilisation. They now number 23 in all. Their Chief Loka has now been enlisted in the Bush Police (Constabulary). The Onges are estimated at 150 according to the 1951 Census. The information regarding the Jarawas and Sentenelese is wholly scanty as the tribes are hostile and avoid all contact with administration. According to the 1951 Census, the estimated total number of Jarawas was 60 only, but this figure is obviously undependable.

(b) *Andaman Indians*: From 1858 to 1942 and from October 1945, the Andaman Islands were a Penal Settlement, and except for the steadily increasing number of the aborigines, almost the entire population consisted of convicts and of people who were in these islands in connection with these convicts—administrative personnel, merchants catering to them etc. The strength of the population therefore in this period depended entirely on the number of convicts that were sent to these islands from the mainland. After the issue of the Proclamation abolishing the Penal Settlement, remitting all sentences and offering repatriation at Government expense, which facility was availed of by some 4,200 persons during 1945-46, the population sunk to a little under 14,000 in 1947. This population originally known as local borns has since been recorded as "Andaman Indians" during the 1951 census.

(c) *Nicobarese*: The Nicobarese belong to a completely different race group from the aborigines of the Andamans. They obviously form an integral part of that great yellow race which populated the best part of South-East Asia in prehistoric days. Their number according to the 1951 census is approximately 12,000 spread all over the Nicobar group of islands. Within the last century the race has registered a considerable increase in population. It has doubled itself in fifty years. The entire

population of the Nicobarese from Car Nicobar to Great Nicobar has the same culture and outlook on life.

From 1858 to 1942 the islands were used by the Government of India as a penal settlement for convicts serving life sentences and long terms.

The islands were occupied by the Japanese in March 1942 and re-occupied by the Government of India in October 1945.

With the re-occupation of these islands the penal settlement was abolished and convicts were given an opportunity to return to the mainland.

202 families of displaced persons from East Pakistan were settled in the South Andamans during 1949 under a pilot scheme sanctioned by the Government of India, Ministry of Rehabilitation. The process has continued and so far 2,200 agricultural families have been settled in the various parts of the Andaman group of islands. More agriculturists are expected to be settled during the 2nd Five Year Plan.

The number fixed for 1958-59 was 300 families (210 from W. Bengal and 100 from Bihar).

When India became a Republic in January 1950, these islands were given the status of part 'D' Territory under the direct administration of the President. A new A.C. Power Station was established at Port Blair. A Junior Division of the National Cadet Corps was raised. Social work and cultural activities were organised. A plan for large-scale colonisation of these islands was approved by the Government of India in 1952. The judicial administration of the islands was placed under the jurisdiction of the Calcutta High Court.

AGRICULTURE, INDUSTRY

In the year 1957-58, 28,721 tons timber was shipped to the mainland yielding a revenue of Rs. 66,82,000.

The species of timber found in the forest region are mainly padank, Andaman redwood, Gurjan and Papaya. Gurjan is in great demand for the manufacture of plywood and Papaya for the manufacture of splints and veneers.

Since 1954 teak plantations are being raised in the South and Middle Andamans with great success.

There is a Government saw mill on Chatham Island in Port Blair besides six other smaller units in north, middle and south Andamans. The W.I.M.Co. has a splint factory at Haddo, Port Blair in South Andaman.

There are 40 co-operative societies.

The islands are slowly being made self-sufficient in paddy and rice with the incoming of West Bengal agriculturists, and now grow approximately half their annual requirements. No proper survey of the mineral resources of these islands has yet been undertaken.

Coconuts are next to timber the most important among the produce of the islands and a major item in the diet of the Nicobarees. Exports which go to Calcutta and Madras generally are in the form of nuts and copra. The marketing is done through co-operative societies which are being run by the Nicobarees themselves.

A coconut oil mill is being installed at Dundas Point in South Andamans by a local contractor.

A cork factory has already been established in Kmlus village in Car Nicobar Island.

Rubber trees are being planted in extensive areas by planters in south and middle Andamans. Experiments of planting jute in middle Andamans have proved successful.

There is plenty of scope for fruit growing and pepper. Such fruit as papaya, pineapple, citrus, bananas, mangoes, etc. can be easily grown.

Port Blair has a 450 kW power station established in 1950. An A.C. power station also has been installed in Car Nicobar.

Port Blair has a city Transport Service comprising six passenger buses and one school bus.

There are one high school, 2 middle schools, 42 primary schools, 9 primary-cum-basic schools and one Girls' school. The total number of students in all these schools is 3,588. A Junior Division of the N.C.C. was raised in the High School.

The Government Hospital at Port Blair has 218 beds. Besides the Port Blair Hospitals, there are hospitals at Car Nicobar, Nancowry and Rangat. The total strength of beds is 838 including the bed strength of the present T.B. Hospital at Gambudat.

There are 23 dispensaries all over the Islands.

Comprehensive schemes have been drawn up and put into operation for effective control of diseases like malaria, sharia and V.D. A Malaria

and Malaria Survey Control Unit under the National Health Scheme has been set up and is operating in the Nancowry group of Islands.

A V.D. Unit has been set up in Car Nicobar. The incidence of diseases in these islands is remarkably low compared to that of the mainland.

The Administration runs its own passenger-cum-cargo service between the island and the mainland with two motor vessels M.V. Andamans and M.V. Nicobar. The former is an 8,000 ton class ship and was built by the Hindustan Shipyard. Between these two vessels, 36 round trips are made to the mainland giving an average of one round voyage every tenth day.

The Administration also possesses a steamship S.S. Chhulunga for inter-island coastal communication.

The Hospital Ship M.V. Indus equipped as a travelling dispensary-cum-hospital was gifted to the Administration by the Australian Government under the Colombo Plan for rendering medical aid for the people of distant islands to whom the hospital is not readily approachable.

THE SECOND FIVE-YEAR PLAN

The Plan involves an outlay of Rs. 6 crores. Of this about 80 per cent will be spent on colonisation and refugee rehabilitation. Two thousand acres of unproductive forests will be cleared and brought under coconut plantation. The production of timber is to be raised to 75,000 tons per annum by the end of the plan period. Two veterinary hospitals and two veterinary outposts will be constructed. 100 miles of new roads will be constructed.

The Social Service Programme included in the Plan with an outlay of Rs. 67.5 lakhs envisages gradual but substantial improvements in the spheres of education, health, housing, water supply and tribal welfare. Two N.E.S. Blocks, one in Car Nicobar and the other in south Andaman have been established.

A scheme for the establishment of cottage industries has been formulated with a view to extending employment opportunity and standard of living of the rural population.

Some of the important changes envisaged as a result of the implementation of the recommendations of the Andaman Education Committee are: Four new Basic Primary Schools are to be set up in the headquarters area. New Basic Schools will be opened in rural areas. A Senior Basic School for girls will be opened in Port Blair. Social education will be introduced.

A School for the Training of Teachers in Junior Basic Education will be set up at Port Blair. The expansion of educational facilities in tribal areas is to be speeded up.

New modern hospitals will be constructed at Port Blair and Car Nicobar. Four Maternity and Child Welfare Centres at Mayabunder, Rangat, Wimberleygunj and Car Nicobar, will be opened. Schemes have been included for the expansion and development of co-operative societies. A branch of the State Bank of India has been opened at Port Blair. The annual volume of business is of the order of Rs. 80 lakhs for exports and Rs. 55 lakhs for imports. The Bank has also taken over the Government Treasury business.

ADMINISTRATION

The Andaman Islands are administered by the President acting through a Chief Commissioner and an Advisory Council of 5 Members. The seat of administration is at Port Blair, which is connected with Calcutta and Madras by a steamer service which calls at Port Blair every tenth day.

The islands are connected to India by wireless telegraphy.

For revenue purposes, the Islands form one revenue district under the Deputy Commissioner and three Assistant Commissioners stationed at Port Blair, Mayabunder and Car Nicobar. The Forest administration is controlled by the Chief Conservator of Forests who is ex-officio Secretary to the Chief Commissioner in the Forest Department. The Chief Conservator has three Divisional Forest Officers under him one each in South, Middle and North Andamans.

Besides the Deputy Commissioner who is also the District Judge, the district officers include the Superintendent of Police, two Executive Engineers, the Senior Medical Officer, Harbour Master, Marine Engineer, Agricultural Officer, Education Officer and the Controller, Andaman Labour Force.

The Chief Commissioner's Secretariat consists of a Secretary, Secretary (Forests), Development Secretary and two Assistant Secretaries.

The budget estimates for 1957-58 were: Revenue Rs. 1,41,49,000, expenditure Rs. 4,68,25,000.

Chief Commissioner, M. V. Rajwade, I.A.S.

Advisory Council, Lachman Singh, M.P., K. R. Ganesh, Aftab Ali, John Richardson, Rajan Ranjan Sarkar.

ANDHRA PRADESH

Capital: Hyderabad.

Area: 1,05,963 sq. miles; Population: 9,12,60,133 (1951).

No. of Districts: 20.

No. of talukas: 183.

The total number of District Boards in the State: 20. The number of Municipal Corporations: 2. The number of City and Town Municipalities in Telangana: 79; Municipal Councils in Andhra: 40; number of Panchayats in Telangana: 1,252; Panchayats in Andhra region: 10,000; number of towns and cities in the State: 293; number of villages in the State: 26,450.

The total national income of the State for 1955-56 is estimated to be Rs. 825.10 crores. Strength of Legislative Assembly: 302.

The strength of the Legislative Council: 90.

No. of members from Andhra Pradesh to the Rajya Sabha: 18.

No. of members from Andhra Pradesh to the Lok Sabha: 48.

* Includes one nominated.

Government has decided on the recommendation of a Committee that the minimum wage in the State should be Rs. 56 from Nov. 1, 1958, and that of the clerical staff Rs. 80. About 40,000 Class IV Government servants would benefit. The total burden on the State would be Rs. 4 crores annually.

Regional Committee: A Regional Committee for the Telangana area called the Andhra Pradesh Regional Committee was constituted at Hyderabad on March 21, 1958 in accordance with the provisions in the States Reorganisation Act by an order of the President of the Indian Union in February 1956. All the 108 members elected from the Telangana region to the State Legislative Assembly are members of the Regional Committee.

The Committee advises the State Government on all matters pertaining to the Telangana region. The Government is normally expected to undertake measures or introduce reforms and other legislative measures in consultation with

this committee. The Telangana region comprises nine districts of the former Hyderabad State, namely Adilabad, Nizamabad, Karimnagar, Medak, Warangal, Hyderabad, Nalgonda, Khammam and Mahbubnagar.

There is no regional committee for the Andhra region of the State.

Chairman, Regional Committee, K. Achuta Reddy.

Madras-Andhra Border Dispute: The Pataskar report on the Madras-Andhra border recommended the transfer of parts of Chingleput and Salem Districts to Andhra and a part of Chittoor District including the Taluka of Tiruttani to Madras.

DISTRICTS

Districts with District headquarters in brackets: Anantapur (Anantapur) Chittoor (Chittoor), Cuddappah (Cuddappah), East Godavari (Kakinada), Guntur (Guntur), Krishna (Masulipatnam), Kurnool (Nandyal), Nellore (Nellore), Srikakulam (Srikakulam), Vishakhapatnam (Vishakhapatnam), West Godavari (Eluru),

Hyderabad (Hyderabad), Mahboobnagar (Mahboobnagar), Warangal (Warangal), Khammam (Khammam), Karimnagar (Karimnagar), Adilabad (Adilabad), Nizamabad (Nizamabad), Medak (Sangareddy), Nalgonda (Nalgonda).

TALUKAS

Names of districts showing within brackets the talukas in each district.

Vishakapatnam District (Narsipatnam, Ellamanchilli, Anakapalli, Vishakapatnam, Sringavarapukota, Vijayanagaram, Bhimunipatnam, Chodavaram and Chintapalli).

Srikakulam District (Tekkali, Sompeta, Ichchapuram, Srikakulam, Patapatnam, Narasannapeta, Bobbili, Parvatipuram, Palakonda, Salur and Chipurupalli).

East Godavari District (Kajahmundry, Ramachandrapuram, Rajole, Kakina, Tuni, Bhadrachalam, Amalapuram, Peddapuram, Pithapuram, Rampa (Chodavaram, Yellavaram, Nagur and Kothapeta).

West Godavari District (Bhimavaram, Tadepalligudem, Eluru, Kovvur, Polavaram, Narsapuram, Chintalapudi and Tanuku).

Krishna District (Masulipatnam, Vijayawada, Nuzvid, Nandigama, Kalkalur, Gudivada, Divi, Jaggayyapeta, Udvannavaram and Tiruvuru).

Guntur District (Guntur, Ongole, Bapatla, Tenali, Repalle, Narsaraopet, Palnad, Vinukonda and Sattenapalli).

Nellore District (Gudur, Kavali, Kovur, Nellore, Udayagiri, Kanigiri, Rapur, Atmakur, Kandukur, Daril, Sullurupet, Podili and Venkatagiri).

Chittoor District (Chittoor, Madanapalli, Vayalpad, Kalahasti, Punjanur, Tiruttani, Palameru, Chandragiri, and Puttoor).

Cuddappah District (Cuddappah, Proddutur, Rajampet, Jammalamadugu, Pulivendla, Badwei Rayachoti, Siddhavattam and Kamalapuram).

Kurnool District (Kurnool, Dronachalam, Nandyal, Pattikonda, Nandikotkur, Siruvella, Kambam, Markapuram, Kollukuntla, Banganapalli, Adoni and Aloor).

Anantapur District (Anantapur, Madakasira, Kadiri, Gooty, Hindupur, Penugonda, Kalyandurg, Dharmavaram, Tadipatri, Rayadurg and Urvakonda).

Hyderabad District (Hyderabad West, Hyderabad East, Shahabad, Medchal, Ibrahimpatnam, Tandur and Vikarabad).

Mahbubnagar District (Mahbubnagar, Wanaparti, Atmakoor, Makhtal, Pargi, Shadnagar, Kalvakurti, Achampet, Nagarkurnool, Kollapur, Gadwal, Alampur and Kodagall).

Warangal District (Warangal, Pakhal, Mulug, Mahboobabad, Parkal and Jangaon).

Khammam District (Khammam, Madhira, Yellandu, Burgampahad and Palvancha).

Karimnagar District (Karimnagar, Siricilla, Metpally, Jagtial, Sultanabad, Mahdevpur and Huzarabad).

Adilabad District (Adilabad, Uttnoor, Khanapur, Nirmal, Boath, Chinnoor, Sirpur, Lakshetipet and Asifabad).

Nizamabad District (Nizamabad, Kamareddy, Yellareddy, Banawada, Bodhan and Armoor).

Medak District (Sangareddy, Andole, Medak, Siddipet, Gajwel, Narsapur, Zaheerabad and Narayankhed).

Nalgonda District (Nalgonda, Miryalguda, Deverkonda, Ramannapet, Bhongir, Suryaset and Huzurnagar).

A white paper published in Nov. 1957 envisages the abolition of District Boards and the formation of block and District Councils.

POPULATION

Population of districts based on 1951 census: Anantapur 1,483,591; Chittoor 1,810,377; Cuddappah 1,161,731; Godavari East 2,414,808; Godavari West 1,697,727; Guntur 2,549,996; Krishna 1,779,484; Kurnool 1,618,621; Nellore 1,795,632; Srikakulam 2,123,136; Karimnagar 1,428,168; Warangal 1,325,984; Nalgonda 1,252,810; Khammam 700,006; Hyderabad

1,511,336; Mahbubnagar 1,586,837; Adilabad 902,522; Nizamabad 778,158; Medak 1,245,266; Vishakapatnam 2,072,698.

GEOGRAPHY

The shape of Andhra Pradesh is rather curious. A short neck with protruding belly would be an apt description. It has a chain of mountains, the Eastern Ghats, running over its entire length on the eastern and northern borders.

In the far north too the country is hilly.

There are huge forest areas in Srikakulam, Vishakapatnam, Godavari, Kurnool, Warangal and Adilabad Districts.

The landscape is varied and rich. It ranges from the smiling ever-green plains of the Godavari and Krishna deltas, the rocky drought-stricken plateau of Rayalaseema, the undulating uplands of Northern Circars to the flat sandy downs in Nellore and Guntur.

The climate is warm and humid or hot and humid according to the season.

The average annual rainfall is highest in the north varying between 45 inches and 60 inches. It gradually decreases to the south and south-west down to about 20 inches.

Two-thirds of the rain is from the south-west monsoon.

The rainfall is erratic both in time and quantity. The smaller the rainfall the more erratic it is.

Srikakulam, Vishakapatnam, parts of Godavari and Nellore suffer from periodic floods and droughts, while the others are more liable to suffer from droughts.

There are no mountains of the type of the Sahyadri range, but there are hills and tablelands scattered throughout the State. Some of the hills are high and are covered with useful forest, some carry scrub jungle, while many are quite bare.

The soil in the area covered by the former Andhra State consists of the alluvial of the deltas and littoral tracts, red, black and brown soils.

The agricultural value depends on the textures. The interesting point is that while the top-soil is being washed away year after year, the remaining soil at the bottom continues to produce in the same measure as before. The average yield of rice per acre in Andhra region is 1,293 lbs. while in Telangana area it is 679 lbs. (The all-India average is 729 lbs.).

There are two major rivers in the area of the former Andhra State, the Godavari and the Krishna, three medium rivers with a large number of tributaries, and twenty-nine minor and small rivers. It is estimated that together they carry annually 150 million acre ft. of water into the Bay of Bengal.

The Godavari flows for the major part through the State before it falls into the Bay of Bengal. Its main tributaries are the Manjira, the Pranahita, the Indravati, and the Sabari, some of which flow partly in the Telangana area.

The main tributaries of the Krishna are Tungabhadra, Yerla, Warna and Dudhganga.

The medium rivers are the Pennar, the Nagavalli, the Vamsadhara.

The river system of Telangana consists of two great basins, that of the Godavari and the Krishna. The former with a length of more than 600 miles in the area has a number of tributaries, the chief of which are the Painganga, the Wardha and the Pranahita from the north, and the Manjira and the Maner from the south. Among its tributaries the most important are the Bhima, the Musi on which the capital stands, and the Tungabhadra, which forms the southern boundary of the Raichur-Mudgal Doab. The Telangana region, abounds in tanks and artificial lakes constructed mainly for the purpose of irrigation.

In Telangana the soil has granitic and calcareous formation. It is the land of rice and jowar. The hills are bare of vegetation and the land is covered with huge fantastic tors and boulders. Also as the soil is sandy, the rivers dry up in hot weather, necessitating the storage of water in tanks and artificial lakes for purposes of irrigation.

AGRICULTURE

The total geographical area of the State is 6,66,80,868 acres.

Net area sown in 1955-56 was 279 lakh acres or 41.8 per cent of the total geographical area. Barren and uncultivable land : 72.46 lakh acres.

Land put to non-agricultural uses : 33.38 lakh acres.

Cultivable waste : 41.19 lakh acres.

Permanent pastures and other grazing lands : 28.92 lakh acres.

Land under miscellaneous crops, trees and groves not included in the net area sown : 6.31 lakh acres.

Current fallows : 48.34 lakh acres.

Other fallow lands : 17.29 lakh acres.

Forests 139.92 lakh acres.

Area sown more than once 303.85 lakh acres.

Total cropped area : 303.98 lakh acres.

Production figures for 1955-56 of some of the main crops are as follows : (Cereals 52,59,481 tons); Rice 30,49,697 tons; Jowar 11,31,433 tons; Maize 1,11,863 tons; (Pulses 2,73,867 tons); Tuar 43,784 tons; Green Gram 71,111 tons; Sugarcane 5,25,771 tons; Chillies 1,12,271 tons; (Oilseeds 12,38,827 tons); Groundnut 10,70,119 tons; Castor 62,439 tons; Cotton (Bales) 1,27,940; Tobacco 1,31,108 tons; Bajra 3,08,830; tons; Ragl 2,20,120 tons; Minor millets 4,30,870 tons; Bengal gram 41,884 tons; Black gram 24,320 tons; Horse gram 79,019 tons; Onions 1,09,325 tons; Sesamum 62,217 tons; Mesta 1,09,000 tons.

Position 1956-57 :

Total area under crops in 1956-57 : 30 million acres.

Area under cereals and millets (1956-57) : 18,964,000 acres.

Production of cereals and lesser millets (1956-57) : 55,20,000 tons.

Area and production respectively within brackets for 1956-57 of rice and jowar : Rice (7,104,000 acres; 3,301,000 tons); Jowar (6,180,000 acres; 1,052,000 tons).

The total production of rice is estimated at 40 lakh tons in 1954-59. Out of this 8 to 10 lakh tons may be available for export.

The more useful species of timber produced are Kosum, Toun, Rosewood, Irul, Teak. Bamboo suitable for the manufacture of paper pulp also occur in abundance.

Total Forest area : 14 mln. acres.

LAND REFORMS

According to the census of land holdings conducted in 1954 in the Telangana region and in 1955 in Andhra region, the total number of holdings in Andhra Pradesh is 42,43,655 comprising an area of 3,41,91,769 acres. The average size of a single holding is 8.1 acres. 39.87 lakh holdings are under the personal cultivation of the owners wholly or partly and the remaining 2.66 lakh holdings are completely leased out. The area leased out is 39.29 lakh acres or 11.5 per cent of the total owned area in the holdings. The remaining 88.5 per cent or 302.63 lakh acres are under the personal cultivation of the owners, and they include lands put to non-agricultural uses.

The Tenancy Acts in force are the Hyderabad Tenancy and Agricultural Lands Act, the Hyderabad Prevention of Fragmentation and Consolidation of Holdings Act, the Estates Land Act, the Rent Reduction Act, the Inams Abolition Act and the Andhra Tenancy Act.

An ordinance was promulgated in 1957 calling upon those owning more than 20 acres of land in the former Andhra region to furnish details of their holdings to the Government.

In 1958 a bill, fixing ceiling on land holdings for the entire State of Andhra Pradesh, was drafted and introduced in the State Assembly. The proposals in it have received the approval of the Planning Commission. This fixes the maximum holding as one fetching an annual income of Rs. 5,400.

The definition of 'estate' under the Estates Land Act was enlarged in 1956 so as to include within its scope inam hamlets and inam Khandrigas in inam villages, thereby ensuring the application of the Rent Reduction Act and to some extent the Abolition Act to these inams. Legislation for the abolition of all 'inams' other than 'estates' and for their conversion into ryotwari tenure, was undertaken. With a view to completing the scheme for the abolition of intermediaries proposals are under Government's consideration for legislation for the abolition of the post-1936 inam estates also. The Andhra Tenancy Act was enacted in 1955 providing mainly for the regulation of grants payable by tenants to landlords and for the prescription of a minimum period for agricultural leases. The Hyderabad Tenancy Act was amended so as to confer the right of protected tenancy on a larger class of tenants than had hitherto enjoyed such benefits.

All those who had cultivated land continuously for six years within a prescribed period were classified as protected tenants. They numbered, according to a census taken in 1953-54, about 620,000 in the entire former State and about 260,743 in the nine districts of Telangana. So long as the tenant paid his rent—which in case of dispute was determined by the Government according to a formula linked with the land revenue—he enjoyed absolute rights of cultivation.

The Government promulgated an ordinance to ban all evictions retrospectively from March 21, 1952. Some 600 suits were stayed and more than 5,000 tenants restored to their lands.

The protected tenants were given special privileges, including the right to purchase land held by them on easy terms. There was a limit to the extent of land they could thus purchase.

The tenant's total extent of land, including his own, should not exceed one family holding, which is defined as the extent of land capable of yielding a gross annual income of Rs. 1,600.

The ceiling on present holdings of a landlord was fixed at 4.5 family holdings, while that on future holdings was scaled down to three acres.

Any protected tenant can notify his desire to purchase the land under his occupation provided the landowner does not own more than two family holdings in all. In case the landowner fails to concede his request, an application is made to a tribunal, which will decide how much of the land should be sold to him and at what price.

The Act fixed the maximum limits of the reasonable price which the tenant should pay. They were computed in multiples of land revenue—for dry, *chalka* lands 60 times the land revenue and for wet lands irrigated under flow water or wells 24 times the land revenue.

The price is payable in 16 instalments spread over not more than eight years.

Of the 260,743 protected tenants in Telangana, only 13,125 exercised their right of purchase and bought 142,417 acres.

Towards the end of 1955, it was decided to apply section 38-K of the Tenancy Act in certain selected areas, by which the protected tenants automatically became the owners of the lands, whether or not they made any application in writing to that effect, and it was up to the landlord to prove that this or that particular plot of land was required by him.

This was applied throughout Khammam district and in the Mulug taluka of Warangal district.

By the end of 1957 11,426 protected tenants in Khammam and 1,900 in Mulug had become "owners" of their lands.

It was estimated that throughout Telangana, there were about 5,400 substantial landholders, that is, those who owned more than the statutory limit of 4.5 family holdings (that would yield an annual gross income of Rs. 7,200). In terms of acres, though they vary from district to district, it is estimated that on an average, a family holding ranges from six to nine acres of wet land and 21 to 60 acres of dry land.

The substantial landholders in Telangana together own about 3,958 acres of dry land (assuming six acres of dry land as equivalent to one acre of wet land). The surplus land available for distribution among the landless will be in the neighbourhood of 536,000 acres.

Consolidation of land holdings and prevention of fragmentation was being worked out on an experimental basis in 50 selected villages.

LIVESTOCK

The figures (latest available, 1956) for livestock are in thousands.

Total Cattle 11,276

1. Males over 3 years 4,842 including 23 34 breeding bulls.

2. Females over 3 years 3,762.17 including 1,431 34 in milk.

3. Young Stock under three years 1,200 24.

Total males 6,130.98; total females 5,145.56.

Total Buffaloes 17,214.18

Total males 8,058.74

Total females 9,155.43

Total Goats 3,693.41

Total Horses and Ponies 31.51

Males 16.11

Females 15.40

Mules 0.382.

Donkeys 76.42

Camels 0.107

Pigs 620.84

Total Poultry 14,705.62

Hens 4,649.63; Cocks 1,800 72; Chicken

7,956.62; Ducks 298.73.

LARGE-SCALE INDUSTRY

The main industries are Sugar, Paper, Cement, Cigarettes and Textiles. There is a big sugar factory at Bodhan in Nizamabad District and there are other factories in different places. Paper mills are at Sirpur in Adilabad District and Rajahmundry in East Godavari District. Cement factories are at Vijayawada and other places. Cigarette factories are concentrated in Hyderabad City. Textile Mills are in Hyderabad, Warangal and a few other towns. Others worth mentioning are the Government Ceramic Factory at Gudur, Block Glass Factory at Gudur and the proposed Sri Venkateswara Paper and Strawboard Mills, Tirupathi.

In the Telangana area there are eleven textile factories which employ 8,030 persons, 111 tobacco units employing 8,300 persons, two cotton and spinning factories employing 600 persons. Then there is the ship-building yard at Vishakhapatnam.

A fertilizer factory by the Government and one to manufacture cycle parts are to be set up—the latter at Vijayawada.

MINERALS

The chief minerals produced in the State are coal, iron ore, limestone, manganese and asbestos. The coal industry is situated at Kothagudem, Tandur, Yellandu and Sastri in Telangana region. Other minerals are widely distributed. According to the Geological Survey of India, two large deposits of iron ore containing an estimated reserve of nearly 389 million tons of ore have been located in Guntur and Nellore districts.

Production figures for 1955 are as follows:— (The first figure within brackets shows the output in tons and the second figure indicates the value in lakhs of rupees): Coal (1,681,576 tons; Rs. 369.95 lakhs); Manganese (101,000 tons; Rs. 156.15 lakhs); Mica (4,150 tons; Rs. 114.54 lakhs); Iron Ore (663,000 tons; Rs. 48.81 lakhs); Limestone (244,000 tons; Rs. 35.82 lakhs); Asbestos (321 tons; Rs. 3.09 lakhs); Barytes (4,342 tons; Rs. 0.78 lakhs).

COTTAGE INDUSTRIES

The number of workers employed in small-scale and cottage industries, according to the 1951 census, was 1,107,368 and these were distributed over 355,010 establishments. The most important industry is that of handloom. There are about 4 lakh handlooms in the State; besides, there are 14,000 looms for woven fabrics. The State has thus the largest number of looms in India and this industry provides employment for about 323,000 persons and livelihood for 1,615,000 persons. Assuming that the overall production per month per weaver is 100 yards, the annual output of handloom cloth per annum works out to about 39 crore yards of cloth.

Other important cottage industries are Kambl weaving which employs about 39,000 persons, coir making employing about 12,000 persons and basket making which employs about 40,000 persons.

Certain handicrafts of Andhra Pradesh are world famous. Notable among these are the silver filigree articles of Karimnagar, the exquisite toys of Nirmal, Kondapalli, Nakkapalli and Tirupathi, the carpets of Warangal and Eluru and the lac goods of Narsapur.

TRANSPORT

The total railway route mileage open for traffic in Andhra Pradesh is 2,902 miles out of which 1,633 miles are Broad Gauge, 1,244 miles Metro Gauge and 25 miles Narrow Gauge. The total road mileage including National Highways, State Highways, major district and other district roads is 14,466 miles.

The Andhra Pradesh Road Transport is a nationalised service now largely serving Telangana area. In 1955-56 the road mileage covered by it was 3,577; its total fleet strength 442. Its total earnings from the Telangana area stood at nearly Rs. 1,82,33,000 in 1954-55 and Rs. 1,79,82,000 in 1955-56 while the expenditure was Rs. 1,65,09,000 and Rs. 1,71,28,000 respectively. The number of passengers carried in 1954-55 was 44,815,888 and in 1955-56 it was 47,308,052.

After the Government decided to extend the nationalised road transport to the Andhra region also, a Road Transport Corporation was formed which took over certain routes in Krishna District as a first step. This was challenged by the private operators affected and the Supreme Court gave a decision against the Government. Further action to be taken in this matter is under the Government's consideration.

There is a well-developed airport at Begumpet in Hyderabad city; there are landing grounds near Vijayawada and Vishakhapatnam.

Many canals in the Andhra area are used for boat transport.

Production figures of the various industries are given below :

Commodity	Unit	Production, 1956	Value 1956 (In lakhs of Rs.)
Sugar	000 tons	126	791.13
Paper	"	16.9	201.12
Cement	"	221	180.39
Cigarettes	Crores	541	423.16
Cotton Piecegoods	Lakh Yards	427	N.A.
Cotton Yarn	Lakh Lbs.	222	350.54
Electricity	Million KWT	263	..
Coal	Lakh tons	16.82	369.95
Fertilisers	Tons.	9,184	..

Fertiliser mixture 3,812 tons; Superphosphate 4,203 tons; Bonemeal 1,169 tons.

* Figures for 1956.

There are two broadcasting stations in the State—at Hyderabad and Vijayawada. There were 3,434 community listening sets in the State on 1st November 1958.

The City of Secunderabad is the headquarters of the Secunderabad Division of the Central

Railway and is the junction of the Broad Gauge and Metre Gauge systems. From here lines radiate east, south, west and north. The total mileage open for traffic which now constitutes the Secunderabad division of the Central Railway is 1,461 miles.

Hyderabad City is connected air with Bombay, Nagpur, Madras, Vishakapatnam and Bangalore. Hyderabad City is served by Begumpet aerodrome. Hyderabad is also linked by air to Delhi and Calcutta.

POWER PROJECTS

Installed capacity of State . 192,876 K.W. (1958).

Actual production in State . 246·903 million units (1956-57).

The following table gives particulars about power projects in Andhra Pradesh :

Name.	Location	Installed capacity	Production in million units	Cost	Commissioning date
HYDRO-STATIONS :					
† Machkund	Machkund (Orissa)	59,500 K.W.	155·149	About 18·75 crores (1st stage)	1955
‡ Tungabhadra	Tungabhadra Dam & Hampi (Mysore State)	18,000 K.W.	6·587	7·5 crores (1st stage)	1956-57
Nizamsagar	Nizamabad District	15,000 K.W.	16·578	..	..
THERMAL STATIONS :					
Vishakapatnam	Vizag.	6,750 K.W.	3·198	..	..
Vijayawada	Vijayawada	12,000 K.W.	1·289	..	..
Nellore	Nellore	5,000 K.W.	2·789	..	1950
Hussainsagar	Hyderabad	24,000 K.W.	53·556	About 3·3 crores	1922
Ramagundam	Ramagundam	37,500 K.W.	..	..	1956
DIESEL STATIONS** :					
Giddalur	Giddalur	52 K.W.	0·034	..	1955
Markapur	Markapur	170 K.W.	0·005	..	1956
Cumbum	Cumbum	170 K.W.	0·001	..	1956

† This is a joint venture of the Andhra Pradesh and the Orissa States. The cost and power generated are to be shared in the ratio of 70 : 30. This project was started in 1946.

‡ This scheme is under the control of the Tungabhadra Board constituted by the President of the Indian Union consequent on the formation of the Andhra State, from 1-10-1953 and the transfer to the Mysore State from that date of 7 taluks of Bellary District in which the project is located. The expenditure and the benefits of power are to be shared by Andhra and Mysore Governments in the ratio of 80 : 20. This project was started in 1953. The installed capacity is that of two generators.

** A number of stations were progressively stopped with the advent of hydro-power from Tungabhadra Dam.

Chittoor, Hindupur, Warangal Yellandu :

For Chittoor and Hindupur, the installed capacity is 6,162 kW. and the production in 1956-57 was 23·653 million units.

Bulk supply of hydro-power is being purchased from (1) Mettur Project at 7 points of supply in Chittoor area. The maximum demand recorded 2,779·4 kW. as against the original agreement of 3,400 kW. (2) Mysore Jog Power at Bellary. Maximum demand recorded 2,830 kW. as against 2,000 kW. (3) Mysore Sivassamudram Power at Hindupur. Maximum demand recorded 553 kW. as against 700 kW.

For Warangal the installed capacity is 800 kW. and production in 1956-57 was 3·151 million units. For Yellandu the installed capacity is 160 kW. and production in 1956-57 was 0·336 million units.

For Warangal and Yellandu power is being purchased in bulk from the local mills and distributed by Government.

SECOND PLAN

Investigations on the following power projects are being undertaken during the Second Plan period. (1) Nagarjunasagar Hydro-Electric Scheme; (2) Lower Sileru Hydro-Electric Scheme; (3) Nagarjunasagar Canal Power House; (4) Brisailam Hydro-Electric Scheme; (5) Bangareddy Hydro-Electric Scheme; (6) Laxmipuram Hydro-Electric Scheme; (7) Pulichintala Hydro-Electric Scheme; (8) Siddeswaram Hydro-Electric Scheme.

The targets of power production proposed during the Second Plan period are as follows: Installed capacity 1,44,100 kW.; Transmission lines to be constructed, H.T. and L.T. 2,330 miles; Total load to be connected 3,77,100 kW.; Aggregate peak demand 1,27,000 kW.; Consumers that will be served 30,000; Agricultural Services 5,400; Villages and towns to be electrified 340; Per Capita consumption 20 units.

IRRIGATION

Statement showing the net area irrigated by different sources, gross area irrigated and area irrigated more than once in Andhra Pradesh during 1955-56 : Govt. canals 3,128,624 acres; Private canals 63,571 acres; Tanks 2,638,636 acres; Wells 702,915 acres; Other sources 254,194 acres.

Total net area irrigated 6,787,940 acres. Total gross area irrigated 7,907,157 acres. Area irrigated more than once 1,119,217 acres.

A sum of Rs. 14·57 crores was spent on major and medium size irrigation projects in the Andhra region during the First Plan period. Six major irrigation projects, viz., the Tungabhadra, Krishna regulator-cum-road bridge, Upper Pennar, Bomperu Drainage, Ballapadu (Second stage) and Bhairavani-Tippa Projects, were taken up for execution to benefit an area of 290,875 acres in the districts of Krishna, Guntur, Nellore and Anantapur. On these alone Rs. 11·14 crores was spent during the First Plan period. Seventeen medium projects to provide irrigation facilities to 379,875 acres of land were taken up for execution and four of them were completed during the First Plan period. On these a sum of Rs. 343·22 lakhs was spent. Four of the medium projects are located in Srikakulam district, three each in Nellore and Chittoor districts, two each in Cuddappah and Anantapur districts and one each in Vishakapatnam, West Godavari and Kurnool districts.

A sum of Rs. 718·00 lakhs was spent during the First Plan period on two major irrigation projects in Telangana, viz., the Rajolibanda Diversion Scheme for providing irrigation facilities to about one lakh acres in the Mahbubnagar district and the Kadam Project benefiting an area of 67,000 acres in the Adilabad district. They are continued as spill-over schemes in the Second Plan and a sum of Rs. 270·05 lakhs is provided for them. Also during the First Plan period a sum of Rs. 115·81 lakhs was spent on five medium irrigation projects, viz., Kollisagar and Sarlasagar Projects to benefit 60,000 acres in Mahbubnagar district, the Musi and Bhitman-

pally Projects benefiting 43,860 acres in Nalgonda district and the Sirala Project benefiting 3,000 acres in Adilabad district. In the Second Plan these schemes get a provision of Rs. 64·80 lakhs. The total area benefited by these major and medium projects is 273,860 acres.

The Kadam dam (in Adilabad district), 5,945 ft. long, was completed by the middle of 1958; but it suffered serious breaches on September 1, 1958 due to heavy floods in the river. The Government have appointed a Committee to enquire into the causes of this calamity.

A unique achievement with regard to the Musi project in Nalgonda District is that without damming the river or building a reservoir, irrigation water for 2,000 acres of land has been given already through the right flank canal. The reservoir, when completed, will be an 8 sq. mile sheet of water. Irrigation water for 10,000 acres was expected to be given by June 1958 and the complete development of 38,000 acres will be over in two years.

All the major and medium irrigation projects except the four medium projects completed during the First Plan period are included as continuing schemes in the Second Plan. The Vamsadhara Project is a new major scheme included in the Second Plan. A sum of Rs. 19·95 crores is provided in the Second Plan for the Nagarjunasagar Project which is common to both the regions of Andhra Pradesh.

The major and medium irrigation projects included in the Second Plan for Andhra are expected to bring 4·49 lakh acres more under irrigation during the Second Plan period while the area ultimately expected to benefit from these, amounts to 27·30 lakh acres.

Nagarjunasagar Project. The project in its first stage comprises the construction of a masonry dam 302 feet high above the foundation level, across the Krishna river near Nandikonda about 90 miles below Siddeswaram, and two canals taking off from the reservoir, known as the left and the right bank canals. The dam is situated about ten miles from Machera railway station in Guntur district. Large areas extending

† Was inaugurated on Dec. 24, 1957.

between the Krishna and Godavari in the north and the Krishna and the Pennar in the south can be commanded by the reservoir.

The project will have a gross storage capacity of 5.44 million acre feet and is expected to be completed in 1965.

The right bank canal which will be 135 miles long will carry a discharge of 11,000 cusecs in the first Stage. The left bank canal will be 108 miles long and will lead up to the river Muneru in the first stage, and will flow through Telangana.

The cost of the first Stage of the project, namely, construction of the dam and the two canals is estimated to be about Rs. 98.27 crores.

The present scheme which forms the first Stage of the project will irrigate about 2.06 million acres of land spread over the districts of Guntur, Kurnool, Nellore, Warangal and Nalgonda.

The second stage of the project which will be taken up later on will provide for the generation of electric power.

Besides these, other medium projects taken up during the First Plan are Kollasagar project (Mahbubnagar District), Sarla Sagar project (Mahbubnagar District), Bhemanpally project (Nalgonda District) and Sirala project (Adilabad District).

In the Second Plan the provision made for the execution of major projects is Rs. 897.76 lakhs, for medium (spill over) projects Rs. 360.85 lakhs and new medium schemes Rs. 376.34 lakhs.

Malaria Control Units covering about 4 million population is contemplated. A Central Malaria Laboratory and Museum are planned.

With a view to intensifying the control of filariasis in the endemic zones of Nizamabad, Mahbubnagar, Medak and Karimnagar districts, three control units are proposed during the Second Plan period under the National Filariasis Control Programme. In the former Andhra State two survey units and one Filariasis Control Unit were established in 1955 and the survey of endemic areas and control of endemic filariasis have registered considerable progress at the close of the First Plan period.

Total no. of Government hospitals and dispensaries in the State as on 31st July 1958 : 776.

No. of beds available : 16,128.

Second Plan provision for the Medical and Health Development Programme in the State : Rs. 11.5 crores.

EDUCATION†

There are three Universities in the State : The Andhra University at Waltair, the Osmania University at Hyderabad and the Sri Venkateswara University at Tirupati. Total no. of students in the three universities at the end of 1956-57 : Men 41,867 ; women 3,587.

Total no. of educational institutions in the State at the end of 1956-57 : 33,250. No. of students in these institutions : 31,16,482, which is 9.2 per cent of the population of the State. Graduate teachers under training in various institutions number 882.

Besides a large number of Colleges offering general education, two Agricultural Colleges, four Medical Colleges, two Science Colleges, two Veterinary Colleges, two Women's Colleges, a Law College and four Engineering Colleges exist in the State. There are 11 Colleges giving higher education in Sanskrit. One novel experiment is a Janata College in Warangal district where rural youth are given training in better methods of agriculture, rural social service, health and hygiene, rural surveys and crafts.

As for training facilities, there are 4 B.Ed. Colleges, besides a number of Secondary Grade Training Centres and Basic Training Centres. The old type of adult schools are being replaced by Social Education Centres.

No. of primary schools : 27,537 ; enrolment about 22,90,036.

No. of secondary schools : about 953 ; enrolment about 4,53,312.

No. of Colleges : 85 ; enrolment about 50,000. No. of nursery schools : 17 ; enrolment 1,283. No. of oriental schools : 51 ; enrolment 4,255. Public libraries in the State : 1,418.

THE SECOND FIVE-YEAR PLAN

The total outlay envisaged in the Second Five-Year Plan of Andhra Pradesh is Rs. 175.73 crores. The detailed allocations are as follows :

	In crores of Rupees
Agricultural and Community Development	39.85
Irrigation and Power Projects ..	76.47
Industries	14.28
Roads	7.60
Education	12.79
Health including Water Supply ..	10.99
Housing	5.16
Social Welfare and Labour ..	5.83
Miscellaneous	2.67
Total	175.73

The following tables show particulars about some irrigation projects :

Name of Project	District/Area benefited	Total cost Rs. in lakhs	Development Expenditure Five years 1951-56 Rs. in lakhs	Area to be irrigated on completion in '000 acres
Baliapad, IInd Stage	Nellore	58	50	8
Komperu drain	Guntur	98	41	10
Upper Pennar	Anantapur	84	84	6
Bhalrajanitippa	Bellary* and Anantapur	1.02	1.02	8
Tungabhadra	Kurnool, Anantapur, Cuddappah	19.70	11.40	411
Total	—	23.10	14.17	443

Other projects (the name, irrigation benefit in lakh acres and the probable or actual date of completion) are :

Krishna Barrage, 1.17, 1958-59 ; Godavari First Phase, 0.67, 1958-59 ; Sarla Sagar, 0.046, March 1958 ; Rajolimbunda, 1.14, 1959 ; Nagavalli, 0.09, March 1958 ; Vegavathi, 0.064, March 1958 ; Gambiragedda, 0.105, March 1958 ; Seethanagaram, 0.04, March 1958 ; Narayana-puram, 0.368, March 1959 ; Kalangi, 0.043, 1958-59 ; Mallimadugu, 0.040, 1958-59 ; Lower Sagileru, 0.03, March 1958 ; Pancha Nadi, 0.015, March 1958 ; K. C. Canal, 1.959, 1958-59 ; Cheenarayawami, 0.011, March 1958 ; Musil, 0.38, 1958-59 ; Koli Sagar, 0.12, 1958-59.

Second Plan Schemes : Paleru Bitraganta, 0.048, 1960-61 ; Paidigam, 0.035, 1960-61 ; Jutpally, 0.022, 1960-61 ; Lakkanpur, 0.03, 1960-61.

CO-OPERATION

The total number of Co-operative Societies in the State (1956-57) : 19,198 ; membership : 22,88,590. Share capital : Rs. 59,26,06,000.

The number of agricultural credit societies is 9,697 with a membership of 7,48,298.

The percentages of villages covered and rural population served by co-operative societies at the end of July 1958 were 72.5 and 23.7 respectively. Efforts were being made to raise them to 75 and 33 respectively by the end of March 1959. During 1957-58 the following amounts were distributed among agriculturists as loans : Short-term Rs. 759 lakhs ; medium term Rs. 123 lakhs ; long term Rs. 83 lakhs.

COMMUNITY DEVELOPMENT

Total no. of Stage I blocks in the State on April 1, 1958 : 130 ; Stage II blocks : 45.

Community development blocks including four multi-purpose projects : 34 ; Pre-extension blocks : 13.

Ad-hoc panchayat samithis inaugurated on July 1, 1958 : 20.

Achievements under the Community Development Programme upto 31st March 1958 are as follows :

No. of villages covered : 12,917 ; population covered : 13,576,000 ; area covered : 43,876.55 sq. miles ; Government expenditure : Rs. 7,38,58,665 ; people's contribution : Rs. 4,18,53,921 ; drinking water wells dug : 7,794 ; drinking water wells renovated : 38,799 ; new roads constructed : 6,332 miles ; existing roads improved : 5,003 miles ; no. of culverts constructed : 2,466 ; no. of adult literacy centres opened : 5,028 ; no. of adults made literate : 2,21,180 ; no. of persons provided with additional part-time employment : 63,784 ; no. of persons given additional full-time employment : 32,910 ; no. of co-operative societies functioning : 7,235 ; membership of co-operative societies : 7,48,600.

PUBLIC HEALTH

Plague, Cholera, Small-pox, Tuberculosis, Malaria, Filariasis, and Yaws are among the common diseases in the State, but Government efforts to fight these have produced remarkable results in the case of some. Plague used to be almost an annual visitation to Hyderabad City but drastic preventive measures taken in recent years have practically eliminated it. Cholera, Small-pox and other seasonal epidemics continue to attack people but Government steps to reduce their incidences are also proving effective. The B.C.G. vaccination campaign against tuberculosis is in full swing and by the close of the First Plan period nearly 18,00,000 persons were tested and 6,23,000 vaccinated in the former Andhra State. In Telangana region also the scheme is being extended.

Organised assault on malaria is going on, regions vulnerable to the disease claiming priority. An anti-malaria unit was organised at Lakshnavaram in Warangal district during the First Plan period. Ample provision has been made in the Second Plan to provide equipment for the existing three Malaria Control Units functioning in the Telangana region. In the Andhra districts the establishment of four

* Now in Mysore. † There is a small discrepancy between figures here and those given by the Government of India under 'Educational Statistics'.

BUDGET FOR 1959-60

See under "Late Particulars".

ANDHRA PRADESH STATE FINANCIAL CORPORATION

Was established in February 1954.

Object :—Financial assistance to medium and small scale industries established within the State.

Authorised Capital : Rs. 4 crores.

Distribution of shares : 1,50,000 shares of Rs. 100 each are distributed as follows : (a) State Government 70,000; (b) Reserve Bank of India 20,000; (c) Scheduled Banks, Co-operative Banks, Insurance Companies, Investment Trusts and other financial institutions, 50,380; (d) Others 9,620.

Following are figures upto March 31, 1958† (combined Andhra and Hyderabad) :
No. of applications received : 130
No. of applications sanctioned : 76

(Figures in nearest thousands)

Amount of loans sanctioned	Rs. 135,29,000-00
Amount disbursed ..	Rs. 64,92,000-00*
Amount recovered ..	Rs. 12,99,000-00
Rate of interest ..	6% per annum (net)
Total expenses ..	Rs. 89,000-00
Total income ..	Rs. 6,44,000-00**
Net Profit ..	Rs. 5,55,000-00**

ANDHRA UNIVERSITY

(Waltair)

Chancellor : Governor of Andhra Pradesh.

Pro-Chancellor : Dr. B. Gopala Reddi.

Vice-Chancellor : Dr. V. S. Krishna, B.A. (Oxon.), Ph.D. (Vienna).

Registrar : K. V. Gopalaswamy, M.A. (Oxon.), Barrister-at-Law.

Deputy Registrar : V. Srinadhri Rao, M.A.

The Professors are as follows :

K. Rangadharma Rao, M.A., D.Sc. (Madras), D.Sc. (Lond.) (Professor and Head of the Department of Physics).

Swami Jnanananda, M.Sc., D.Sc., Ph.D., F.I.P.S. Sigma XI (Professor and Head of the Department of Nuclear Physics.)

V. Ramaswamy, B.A. (Cantab.), Ph.D. (Cantab.) (Professor and Head of the Department of Mathematics).

G. J. Somayaji, M.A., L.T., Vidwan, P.O.L. (Professor and Head of the Department of Telugu).

K. R. Srinivasa Iyengar, M.A., D.Litt. (Professor and Head of the Department of English).

Prof. K. K. Das, B.Com. (Lond.), D.Sc. (Harvard) (Professor and Head of the Department of Commerce).

S. Meenakshisundaram, M.A., D.Sc. (Professor and Head of the Department of Mathematical Physics).

T. Venkatarayudu, M.A., Ph.D. (Birla Professor, Department of Mathematical Physics).

G. Gopala Rao, M.Sc., A.I.C. (Lond.), D.Sc. (Allahabad) (Vikrama Deo Professor and Head of the Department of Chemistry).

C. Venkata Rao, M.Sc. (Hons.), D.I.C. (Lond.), Ph.D. (Del.), M.I.I.C.H.E., M.P.M.W. Eppatok (Professor and Head of the Department of Technology).

S. Rangaswamy, M.A., Ph.D., D.Phil. (Pharm.) (Basle), F.R.I.C. (Lond.), F.R.S.A., F.A.Sc. (Professor and Head of the Department of Pharmacy).

K. Nagabhushanam, M.A., M.Lic., D.M. (Stockholm) (Professor and Head of the Department of Statistics).

C. Mahadevan, M.A., D.Sc., F.A.Sc., M.A.I.M.S., F.N.I. (Principal, University Colleges and Professor and Head of the Department of Geology and Geo-Physics).

Dr. P. N. Ganapathy, M.A., M.Sc., D.Sc., F.A.S.C., F.Z.S.I. (Professor and Head of the Department of Zoology).

S. Venkataraman, B.A., M.L. (Professor and Head of the Department of Law).

S. T. Krishnaswamy Chetti, M.A., M.Sc. (Lond.), D.I.C. (Lond.), F.R.M.S. (Professor and Head of the Department of Applied Physics including Manufacturing Section).

Bh. S. V. Raghava Rao, M.Sc., A.I.C. (Lond.), Ph.D. (Lond.), A.I.I.Sc. (Vishakapatnam District Board Professor of Chemistry).

J. Venkateswarlu, M.Sc., D.Sc., Ph.D. (Cantab.), F.A.Sc., F.R.S. (Professor and Head of the Department of Botany).

Prof. C. Kunhan Raja, M.A. (Mad.), D.Phil. (Oxon.) (Professor of Sanskrit).

B. Sarveswara Rao, M.A., Ph.D. (Lond.) (Professor and Head of the Department of Economics and Sociology).

The Heads of Departments who are not professors are as follows :—

S. T. Krishnamachari, B.A., B.L., C.P.F. (Paris), D.I.A. (Berlin) (Reader and Head of the Department of French and German).

K. Sachidanandamurthy, B.A. (Hons.) (Reader and Head of the Department of Philosophy).

D. Seetapathi Rao, B.A., B.Sc. (Engg.), M.Sc. (Engg.) (Lond.), D.I.C. (Lond.) (Reader and Head of the Department of Engineering).

University Colleges (5)

University College of Arts and Commerce, Waltair.

Jeypore Vikramadeo College of Science and Technology, Waltair.

Erskine College of Natural Sciences, Waltair.

University College of Law, Waltair.

University College of Engineering, Waltair.

Affiliated Colleges**PROFESSIONAL COLLEGES (7)**

Agricultural College, Bapatla, Guntur Dist.

College of Engineering, Kakinada.

St. Joseph's Training College for Women, Guntur.

Medical College, Guntur.

Government Training College, Rajahmundry.

Andhra Medical College, Vishakapatnam.

Kakinada Medical College, Kakinada.

FIRST GRADE COLLEGES (24)

S. K. B. Ramani College, Amalapuram, East Godavari Dist.

A. M. A. L. College, Anakapalli.

West Godavari Bhimavaram College, Bhimavaram, West Godavari Dist.

V.K.S. College, Chirala, Guntur Dist.

Sir C. Ramalinga Reddy College, Eluru.

Chintalapati Satyavati Devi St. Theresa's College for Women, Eluru.

Gudivada College, Gudivada, Krishna Dist.

Government College for Women, Guntur.

Andhra Christian College, Guntur.

Hindu College, Guntur.

Pithapuram Rajah's Govt. College, Kakinada.

Andhra Jatheeya Kalasala, Masulipatam.

Hindu College, Masulipatam.

S.S.N. College, Narasaraopet.

The Narsapur College, Narsapur, West Godavari Dist.

P. B. N. College, Nidubrolu, Guntur Dist.

C. S. R. Sarma's College, Ongole.

Government Arts College, Rajahmundry.

V.S.R. College, Tenali, Guntur Dist.

Andhra Loyola College, Gunadala Post, Vijayawada.

S.R.B. and C.V.B. College, Vijayawada.

Mrs. A.V.N. College, Vishakapatnam.

M.R. College, Vizianagaram.

Government Arts College, Srikakulam.

SECOND GRADE COLLEGE (1)

St. Joseph's College for Women, Waltair R.S.

ORIENTAL COLLEGES (14)

Sri Markandeya Oriental College, Ankiripalli, Kistna Dist.

Andhra Nalanda Oriental College, Gudivada.

Sri Ramakrishna Sanskrit College, Arundalpeta, Guntur.

Saradaniketanam, Guntur.

S.V.J.V. Sanskrit College, Kovvur, West Godavari Dist.

Narasimha Sanskrit College, Chittigudur, Masulipatam.

Chalapalli Rajeswari Sanskrit College, Modakurru, Kothapet Taluk, E.G. Dist.

Sri Bhavanarayanaswami Sanskrit College, Ponur, Guntur Dist.

Andhra Women's Sanskrit College, Rajahmundry.

Sree Gouthami Vidya Peetham Oriental College, Rajahmundry.

Kota Lakshminah Naidu Sanskrit College, Tenali, Guntur Dist.

Maharajah's Sanskrit College, Vizianagaram.

Maharajah's Music College, Vizianagaram.

Oriental College, Vijayawada.

1957-58, Budget

Income	Rs. 61,43,331
Expenditure	Rs. 73,85,962

Grants :

(a) From State Govt. ..	Recurring.
	Rs. 5,12,555

(b) From University Grants Commission ..	Recurring.
	Rs. 62,470
	Non-recurring.
	Rs. 5,14,145

Total No. of students at the University Colleges, in 1957-58 : 1,788.

Total number of Colleges affiliated and oriental colleges : 51.

This university is teaching as well as affiliating.

OSMANIA UNIVERSITY

Hyderabad 7.

The Osmania University was established in 1918 under Royal Charter which was revised in 1947 and 1950. It is a residential, teaching and affiliating university. It comprises eleven Faculties, namely, Arts, Science, Commerce, Medicine, Engineering, Agriculture, Veterinary Science, Education, Law, Religion and Culture and Technology. There are 6 University Colleges, 7 constituent Degree Colleges (including one exclusively Women's College), 3 constituent Pre-university Course Colleges, 16 Affiliated Colleges (including 2 Medical Colleges, 12 degree Colleges and one Women's College), 1 Pre-University Course College, 2 Constituent Evening Colleges (one Degree and one Pre-University Course) for those in employment.

In the Arts and Science Faculties, English and Hindustani, the latter with Persian and Devanagari Script, are the media of instruction. In all professional courses English is the only medium of instruction. The course of study in M.Sc. Technology has been abolished and a new degree course B.Chem. Technology and B. Chem. Engineering has been instituted. It is of four years' duration after Intermediate Science or pre-professional course. The courses of study in Oriental learning in Sanskrit for entrance test, Dip. O. L. and B.O.L., have been framed. Twelve private Oriental Institutions have been recognised to coach students for these courses. In 1954-55 two new courses of study, the Certificate of Proficiency in Journalism and Diploma in Journalism, were introduced. Diploma and Certificate in Public Administration also introduced in 1956-57.

† More up-to-date figures when available are given under 'Late Particulars.'

* Includes Rs. 8,00,000 originally disbursed by the Madras Industrial Investment Corporation Ltd., Madras and subsequently transferred to Andhra State Financial Corporation. ** Interest on investments taken at gross and includes Rs. 63,738 income-tax on investments deducted at source.

New courses in 1957-58: Dip. in Russian and Italian, M.D., M.S., D.O., and D.L.O., B.E. (Mining).

New courses instituted in 1958-59: M.Sc. (Agriculture); M. Tech. and in Medicine; D.O.P. (Clinical Pathology); D.C.H. (Child Health); M. S. Ophth. M.Sc. (Anatomy, Physiology & Psychology); Dip. in Forensic Medicine.

The University is completely autonomous though it is wholly financed by the Government. The University Council, consisting of 16 members is the governing body. The Vice-Chancellor is the chief administrative officer. The other bodies of the University are the Finance Committee, Academic Council, Senate, Library Committee, Committee of Exams., Faculties and Boards of Studies and the Equivalence Board.

Budget (1958-59): Receipts: Rs. 95,29,887. Expenditure: Rs. 99,49,395.

Contribution by State Government: Rs. 49,22,000.

Library: 121,952 (English 37,240; Urdu, Persian, Arabic 17,037; Oriental 18,028, Gift 10,212; Salarjung 30,426). There are 6,604 MBS.

Admission: The qualification necessary for entrance to the Pre-university Course is the Higher Secondary Certificate or equivalent certificate.

Enrolment (1957-58): 16,725 (Arts and Science: Boys 9,708; Girls 1,877; Professional: Boys 4,870; Girls 270).

Degrees: B.A., M.A., Ph.D. in Arts, B.A., M.A., Ph.D. in Religion and Culture; B.Sc., M.Sc., Ph.D. in Science; B.Com. and M.Com. in Commerce; B.E., M.B.E.S., M.D., M.S., D.O. and D.G.O., B.V.Sc., B.Sc. (Agriculture), B.Ed., M.Ed., LL.B. and LL.M., B. Tech. Technology, B. Chem. Engineering, Dip. O.L. and B.O.L. in Sanskrit, Certificate in Journalism and Public Administration, Diploma in Journalism, French, German, Italian, Russian, Hindi and Public Administration; M.Sc. (Agriculture), M. Tech., D.C.P.; D.H.P.; D.L.O.; M.S. Ophth.; M.Sc. (Anatomy, Physiology, Pathology); Dip. in Forensic Medicine.

CHANCELLOR

N. Sanjeeva Reddy.

VICE-CHANCELLOR

D. S. Reddy, M.A. (Oxon.).

REGISTRAR

Dr. I. Topa, Ph.D. (Felburg).

DEANS OF FACULTIES

Arts, Prof. M. Abdul Qader.
Science, Dr. M. Ramial.
Agriculture, Prithviraj.
Medicine, Dr. Bankat Chandra.
Veterinary Science, Dr. K. J. Devadnam.
Law, Justice P. J. Reddy.
Education, Dr. Shripati Shri Devi.
Commerce, Imtiaz Hussain Khan.
Technology: C. V. D. Murthy.
Engineering, J. C. Hardikar.
Religion and Culture, Dr. I. Topa.

UNIVERSITY PROFESSORS

Chemistry, Dr. N. V. Subba Rao.
Physiology, Dr. Seetaramiah.
Civil Engineering, Prof. Ziauddin Ansari, Prof. Hafeezullah.
Agriculture, Dr. H. A. Rasvi.
English, Vacant.
Botany, Prof. M. Sayeeduddin.
Education, Vacant.
Urdu, Prof. A. Q. Sarwar, Dr. Syed Mohiuddin Zoro.
Veterinary Science, Prof. M. Habeeb Khan. (On foreign service).
Physics, Dr. B. Satyanarayan, Prof. S. Mohd. Ali Khan.
Medicine, Dr. B. K. Naik.
Arabic, Vacant.

History, Vacant.

Mechanical Engineering, Prof. Abid Ali.

Sociology, Dr. Jaffar Hasan.

Pharmacology, Dr. Yousufuddin Ansari.

Philosophy, Dr. Mir Valiuddin.

Economics, Prof. M. Abdul Qader.

Electrical Engineering, Prof. V. M. Gadgil.

Sanskrit, Dr. A. Sharma.

Pathology, Dr. V. Gopal Rao.

Zoology, Dr. S. N. Singh.

Marathi, Vacant.

Kannada, Prof. D. K. Bhimsen Rao.

Telugu, Prof. K. Lakshmi Banjanam.

Surgery, Dr. I. Chalapathy Naidu, Dr. Bahadur Khan.

Law, Prof. G. C. Venkata Subba Rao.

Mining and Engineering, Prof. H. S. Sheshgiri Rao.

Chemical Technology, Dr. B. S. Kulkarni.

Anatomy, G. Hanamanth Rao.

Obstetrics and Gynaecology, Dr. (Mrs.) P. M. Naidu.

Plant Breeding, Prof. H. A. Rasvi.

Civil Engineering, Prof. M. Hafizullah.

Russian Language, Prof. Krishnenninkov.

Medicine, Dr. Bankat Chandra.

History of Medicine, Dr. D. V. Subba Reddy.

Bio-Chemistry, Dr. K. Ranganath Rao.

Bacteriology, Dr. P. V. Ramana Rao.

Social & Preventive Medicine, Dr. C. L. Ahluwalia.

Ophthalmology, Dr. P. Ramchander.

Forensic Medicine, Dr. I. Bhowhana Rao.

Anatomy, Dr. (Mrs.) Y. Jaya.

Physiology, Dr. Shankar Rao.

Pediatrics, Dr. Harishchandra.

Radiology, Dr. H. Syed Ali.

ADDITIONAL PROFESSORS

Midwifery, Dr. B. S. Surti, Dr. (Mrs.) Kanaka Durgamba.

Ophthalmology, Dr. P. Silva Reddy.

Mental Diseases, Dr. Natrajan.

UNIVERSITY COLLEGES

University College of Arts & Commerce, Osmania University, Hyderabad 7.
University College of Agriculture, Osmania University, Hyderabad 7.
University College of Education, Osmania University, Hyderabad 7.
University College of Engineering, Osmania University, Hyderabad 7.
University College of Science, Osmania University, Hyderabad 7.
University College of Veterinary Science and Animal Husbandry, Osmania University, Hyderabad 7.

CONSTITUENT COLLEGES

Nizam College, Gunfoundry, Hyderabad.
Women's College, Sultan Bazar, Hyderabad.
College of Law, Abid Road, Hyderabad.
City Intermediate Science College, Hyderabad.
Saifabad Intermediate Science College, Hyderabad.
Chaderghat Intermediate Arts College, Hyderabad.
Evening College of Arts & Commerce, Hyderabad.
Evening College of Arts & Commerce, Secunderabad.
Secunderabad College of Arts & Science, Secunderabad.
Arts & Science College, Warangal.

AFFILIATED COLLEGES

Osmania Medical College, Afzal Gunj, Hyderabad.
Vivek Vardhini College, Gauliguda, Hyderabad.
Badruka College of Commerce, Nampalli Station Road, Hyderabad.
Anwarul-Uloom Inter Arts and Commerce College, Saifabad, Hyderabad.
Raja Bahadur Venkatrama Reddy Women's College, Narayanguda, Hyderabad.
Nanakram Bhagvandas Mahavidyalaya, Charkam, Hyderabad.
Teachers' Training College, Warangal.
College of Arts and Science, Karimnagar.
College of Arts and Science, Khammamet.

College of Arts and Science, Siddipet.
New Science College, Narayanguda, Hyderabad.
Girra Arts and Science College, Nizamabad.
Nagarjuna Arts and Science College, Nalgonda.
Gandhi Medical College, Hyderabad.

Adilabad Science College, Adilabad.

Mumtaz Science College, Malakpet, Hyderabad.

Total number of Arts and Science Colleges: Science Colleges 7; Arts and Science 16 and Professional 9.

Total number of Women's Colleges: Two.

Total enrolment in Arts and Science Colleges: Boys 9,708; Girls 1,877.

Total number of Professors: 53; Lecturers: 1,096.

Total number of Professional Colleges: 18 (Education, two; Agriculture, one; Veterinary Science, one; Engineering, one; Law, one; Medical, two; Commerce, one). Total enrolment in Professional Colleges: Boys 4,870; Girls 270.

SRI VENKATESWARA UNIVERSITY TIRUPATI

This University was inaugurated on September 2, 1954. This is the third University in the State and is a residential-cum-affiliating University. Instruction is provided in courses leading to Pass, Honours, Post-Honours and Research degree examinations in Mathematics, Philosophy, Economics, Physics, Chemistry and Zoology at the University College run by the University.

Colleges in five districts of Andhra Pradesh are affiliated to it—Kurnool, Cuddappah, Anantapur, Chittoor and Nellore.

The Intermediate Course of Study has been abolished and the one year Pre-University and three year Degree Courses of Study have been introduced with effect from the academic years 1957-58 and 1958-59 respectively.

Admissions to the two year pass courses will be stopped with effect from the academic year 1959-60.

Honours Courses of study have been abolished with effect from the academic year.

The University College is run by the University at Tirupati. There are at present six teaching departments upto the Post-Honours and Research Standard in the University College.

Post Honours and Research degrees were started with effect from the academic year 1957-58.

ARTS COLLEGES

First Grade Colleges (9).
Government Arts College, Cuddappah.
Government Arts College, Anantapur.
Basant Theosophical College, Madanapalle.
Sri Venkateswara College, Tirupati.
Sri Padmavati College for Women, Tirupati.
Osmania College, Kurnool.
V. R. College, Nellore.
Kavali College, Kavali.
Govt. K. V. Reddy College for Women, Kurnool.

PROFESSIONAL COLLEGES

College of Engineering, Anantapur.
Government Training College, Kurnool.
Government Training College, Nellore.
Kurnool Medical College, Kurnool.
Andhra Veterinary College, Tirupati.

ORIENTAL COLLEGES

Sri Venkateswara Oriental College, Tirupati.
Islamia Arabic College, Kurnool.
Jamia Mahammadia Arabic College, Rayadurg, Anantapur District.
Veda & Sanskrit College, Nellore.

Personnel

Chancellor: The Governor of Andhra Pradesh.
Pro-Chancellor: S. B. P. Pattabhi Rama Rao, B.A., B.L., Minister of Education, Andhra Pradesh.

Vice-Chancellor: S. Govindarajulu, M.A., B.L. (Cantab), B.L., Bar-at-Law.
Registrar: M. Ramannuja Rao Naidu, M.A.

Principal, University College: Prof. T. A. Purushottam, M.A., Ph.D. (Lond.).

Heads of Departments of Honours and Post-Graduate Courses: Vacant. (*Zoology*); Prof. S. Ramachandra Rao (*Physics*); Dr. K. Neelakantam (*Chemistry*); Vacant (*Mathematics*); Prof. T. A. Purushottam (*Philosophy*); Prof. E. K. Warrier (*Economics*).

Total number of students in the University College at the beginning of the academic year 1958-59: Boys 538; Girls 78. Total 616.

The total strength of the University (including University College) in 1957-58 was 10,034.

General Account (ordinary) for 1955-56:

Receipts: Rs. 11,73,397-1-0 (This amount includes State Government grant of Rs. 3,50,000)

Charges: Rs. 10,15,151-15-10.

Grants Development and Capital Accounts 1955-56 Receipts: Rs. 27,45,976-6-0 (Includes Government grant: Rs. 7,50,000; University Grants Commission grant: Rs. 3,25,000; T.T.D.: Rs. 6,50,000).

Charges: Rs. 14,97,335-10-0.

HYDERABAD MUNICIPAL CORPORATION

Mayor, K. Krishnaswamy Mudhiraj.

Dy. Mayor, Ghulam Mohammed Khan Lodhi.

Commissioner, C. N. Shastri, I.A.S.

City Engineer, Mir Mahboob Ali.

Medical Officer of Health, Dr. Ghulam Ahmed.

Executive Engineer, Drainage, T. Mohammed Osman.

Mechanical Engineer, Gopalakrishnan.

Spl. Officer Re-assessment, Prem Chand.

Asstt. Commissioner, B. Ravindranath.

Assessor and Collector, Thakurial.

Examiner of Accounts, Gopi Krishan.

Secretary, B. B. Kapoor.

Municipal Magistrate, N. Ratan Lal.

Publicity Officer, M. Narasimha Rao.

COUNCILLORS

Names of members showing within brackets the Constituency which each member represents:

K. V. Narasimha Chari (Domsalguda); K. Lakshminarayana (Kawadiguda); Syed Ali Hussain, Lachmiah (R) (Musheerabad); Smt. Sushila Verma (Zamistanpur); M. A. Rasheed (Chikadpalli); Daniah, G. (R), Smt. Sujata Devi, A. R. (Amberpet); Sayyid Ahmedullah Qadri (Khudbiguda); Jagjivan Pershad Jaiswal (Lingampalli); Smt. Fakunnisa (Himayatnagar); Ramaswamy (Ramkote); Mahenderjee (Gulbarg); Erram Satyanarayan (Basimah Bazar); E. Ishwariah (Gowliguda); Prakash Sangam (Kattalmandi); Kalva Suryanarayan (Gandhi Bhavan); M. Magboob Ahmed James (Darga Yusufain); Raj Reddy (Gunfoundry); M. R. Sham Rao (R), S. Shankariah (Khairatabad); D. Yashiah (Amberpet); Gulam Afzal Bishani (Jubilee Hill); M. Roshan Ali Khan, Satyanarayan (R) (Golconda); M. Babu Rao (Nampalli); Thakur Bakhtawar Singh (Aghapura); Mohd. Azamuddin (Mallapalli); D. Narasimloo (Asafnagar); G. Narayan Reddy (Karwan); Ranjit Singh (Rasarkhanpet); Srinivas (Mustaidpura); Srinivas Rao (Subzimidandi); H. Narsing Rao (Mangalhat); D. Satnarayan Shastri (Goshamahall); Hari Krishan Sharma (Jumerat Bazar); K. Krishna Swamy Mudiraj (Chudi Bazar); Pratap Singh (Dhoolpet); Phokarmal Gupta (Siddiamber Bazar); Chandrabhanu Yadav (Asfal Gunj); Ram Rao Doko (Begum Bazar); B. Ram Dev (Sayeedabad); Dr. D. N. Babu Rao (R), Dev Raj (Chanchalguda); Sardar Ali Khan (Asampura); M. Bansi Lal Jaiswal (Yakutpura); Abu Yusuf, V. Yedgir Rao (R) (Dabirpura); Shankar Singh Verma (Jangammet); Anjiah Rebba (Balagunji); Bodo Veeraswamy, Shankar Lal Galkwad (R) (Idi Bazar); Syed Bin Abdullah Ba Hameed (Malaram); Rupu Reddy, Narsing Rao (R) (Umda Bazar); Kaniram (Dood Bowli); Magan Chand Vodi (Hussaini Alam); Syed Ahmed (Qasipura); B. Krishan Lal (Gulzar Hous); K. Gopal Rao (Petia Buri); Naseeruddin Ahmed (Chelapura); K. Srinivas Rao (Darushifa); Dr. Hyed Aktar Ahmed (Purani Havelli); Gulam Mohd. Khan Lodhi (Pathergatti); Jahandar Ali Khan Afzar (Mogulpura); Manohar Raj Saxena (Shah Ali Bunda). Note: R. means Reserved.

BUDGET FOR 1959-60

Income	Rs. 1,19,78,344
Expenditure	Rs. 1,16,85,044
Surplus	Rs. 2,93,300

SECUNDERABAD MUNICIPAL CORPORATION

Mayor, A. Narayanaswamy, B.A., LL.B.

Deputy Mayor, Mohd. Siddique.

Commissioner, M. Dharamraj Mathur, B.A.

Assistant Commissioner, S. M. Mutura, B.A.

City Engineer, P. Ramachandra Reddy, B.E., A.M.I.E.

Assistant City Engineer, Jaffer Mohiuddin.

Medical Officer of Health, Dr. S. R. K. Reddy, L.M. & S., D.P.H., D.T.M.

Secretary, C. Ram Reddy, B.A.

Licence Officer, Murtaza Ali Zaidi.

Taxation Officer, Bipin Chandra, B.A.

Conservancy Officer, A. R. Bhaktul.

Legal Adviser, K. Ramgopal, B.A., LL.B., Advocate.

Public Relations Officer, T. Rajagopalachari, B.A., LL.B.

Examiner of Accounts, Mohd. Sherfuddin, H.A.S.

MEMBERS

Shrinati Kumudini Devi; M. M. Malani; G. Narasimha Rao; A. Vishwanath Rao; J. Gandiah; D. Augamiah; Mohd. Siddique; A. Sardar Singh; C. Rajanarimha; A. Narayanaswamy; Ved Prakash Dusej; G. Achiah; J. Venkatesham; B. Nagabushanam; C. R. Krishna Rao; M. Ramchandiah; S. S. Gupta; D. Padma Rao; A. K. Babiah; K. Sreeramulu; M. Swamy; B. P. Reddy; K. R. Abbiah; T. Ramaswamy; M. Suryanarayana; K. R. Lingamiah; N. Ramaswamy; B. Mallikarjuna Rao.

Estimated income for 1959-60: Rs. 27,59,997.

Estimated expenditure for 1959-60: Rs. 27,59,997.

ASSOCIATIONS, INSTITUTIONS, ETC.

ADMINISTRATIVE STAFF COLLEGE OF INDIA

Bella Vista, Hyderabad 4.

Gives training in administration for business executives.

Principal, General S. M. Shrinagesh.

ADONI GROUNDNUTSEEDS AND OIL MERCHANTS ASSOCIATION LTD.

Ward No. XIX, Door No. 16, Gosha Hospital Road, Adoni.

President, T. G. Krishna Murthy. **Vice-President,** T. G. Ramachandra Gupta.

ALL-INDIA GRAPHITE, CRUCIBLE MANUFACTURERS ASSOCIATION (Regd.)

Rajahmundry.

President, Nanubhai H. Bhutt, B.Sc.

Secretary, Manojalli Subbanna.

ALL-INDIA RAILWAY USERS FEDERATION

Simhagadam, Purnanandampeta, Buckinghampet P.O., Vijayawada.

President, K. L. Narasimha Rau.

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ALUMINIUM CASTWARE MANUFACTURERS ASSOCIATION

Rajahmundry.

ANDHRA CHAMBER OF COMMERCE

Andhra Chamber Building, 272/73, Angappa Naick Street, Madras 1.

Also at 68-B, Rashtrapati Road, Secunderabad.

President, V. Emburumanar Chetty.

Vice-Presidents, S. Venkatarangam; Dundoo Fentiah; P. Brahmiah.

Treasurer, G. Cunniah Chetty.

Secretary, M. S. Sambasivam.

Asstt. Secretary-in-Charge of Secunderabad Office, K. G. Mohan Rao.

THE ANDHRA FILM CHAMBER OF COMMERCE

Gandhinagar, Buckinghampet, P.O.

Vijayawada 2.

ANDHRA HISTORICAL RESEARCH SOCIETY

Rajahmundry.

President, N. Kameswara Rao. **General Secretary,** B. Subba Rao. **Jt. Secretary,** N. Raghavarao.

ANDHRA NATAKA KALA PARISHAD

Gudivada (Dt. Krishna).

President, M. B. Apparao, M.A., M.L.A. **Vice-President,** Kaza Venkatesham. **General Secretary,** P. Suryachandra Rao.

ANDHRA PRADESH CHEMISTS & DRUGGISTS ASSOCIATION

Metropolitan Club, Hanuman Tekdi, Hyderabad.

President, J. F. Da Costa Fernandes. **Secretary,** B. Anantha Reddi. **Treasurer,** G. N. Desai.

ANDHRA PRADESH FLYING CLUB

Begumpet Aerodrome, Hyderabad 16.

Patrons: Governor and Chief Minister of Andhra Pradesh, H.E.H. The Nizam. **President:** M. P. Pal, I.C.S., **Chief Secretary, Government of Andhra Pradesh.** **Secretary:** Lt.-Col. M. M. Ali.

Subscription: Rs. 30 per annum or Rs. 5 per month (Temporary). Entrance fee: Rs. 30.

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Pahade Nivas, Osmangunj, Hyderabad.

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4-3-349, Bank Road, Hyderabad.

President, V. V. Sastry. **Secretary,** Dundoo Balanarajah.

THE ANDHRA PRADESH OIL MILL-OWNERS ASSOCIATION

879, Sultan Bazar, Hyderabad.

President, V. V. Sastry. **Secretary,** Dundoo Balanarajah. **Joint Secretary,** Tokernshi Lalji Kapadia.

ANDHRA PRADESH PRINTERS' ASSOCIATION

Opp. Deepak Mahal Talkies, Narayanguda, Hyderabad.

President, A. P. Nagan. **Secretary,** Pulli Mallikarjun.

ANDHRA PRADESH SANGEETA NATAKA AKADEMI

Room No. 3, Special Block 'B', M.L.A. Quarters, Hyderabad.

President, B. B. Ramakrishna Raju, M.L.A. **Vice-President,** 'Padma Sri' Dwaram Venkateswami Naidu. **Hony. Secretary,** L. N. Gupta, I.A.S.

ANDHRA SAHITYA PARISHAT

(Telugu Academy)

Kakinada.

President, Kaviramrat Poet Laureate Sripada Krishnamurthy Sastry. **Secretary,** Dantu Bhaskarao. **Jt. Secretary,** Duvvuri Suryanarayana Sastry.

ANDHRA YUVAJANA SANGAM

Shanker Veedhi, Secunderabad.

Founded in 1946 by Nakka Venkiah.

President, J. Sathiah; **Organising Secretary,** A. S. Malliah; **General Secretary,** K. Baliah Goud.

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State Chief Commissioner, M. P. Pal, I.C.S. *State Commissioner (Scouts)*, S. M. H. Naqvi. *State Commissioner (Guides)*, Mrs. Z. E. Banji.

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Director, Dr. G. S. Murty, M.Sc., Ph.D. Assoc., I.A.R.I.

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Vijayawada 2.

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President: C. S. Tyabjee; *Sr. Vice-President*: P. L. Bhandari; *Secretary*: C. A. Rebello.

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SHREE GOUTHAMI VIDYA PEETHAM

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A literary body having ten branches. Traditional Courses—Pareeksha Kendram (Dakshina Kasi), Oriental Research and Publications Section, Astronomy Section, Music Section (Carnatic music and kachipudy dance) Free Boarding and Lodging Hostel of Vidya Peetham for poor students, and The Saraswathy Bhavanam Library.

President, S. V. Ramamurthy Garu. *Local President*, A. Rama Rao. *Founder Secretary and Treasurer*, K. Jagannadha Rao Gopal Rao.

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Kasaratta Road, Hyderabad 2.

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Hussainnagar, Hyderabad.

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A-10-438, Hardikarbagh, Himayennagar, Hyderabad Dn.

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No. 2, Rashtrapathi Road, Secunderabad.

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No. 15-9-312, First Floor, P.O. Afzalgunj, Hyderabad.

President, Krram Satyanarayan, M.C. & M.L.C. *Vice-Presidents*, Sreekrishenji Dhoot, Ramkrishnarao Banjilkar. *Hon. Secretary*, Laxminarain Moolchand.

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3364, Rashtrapati Road, Secunderabad 3.

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INDIAN INSTITUTE OF ECONOMICS

Hyderabad.

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Sultan Bazar, Hyderabad.

President, Dr. Digumbar Singh; *Hon. Secretary*, Dr. M. Y. Mirza.

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(Krishna District Branch), Masuligatan P.O.

President, Dr. C. B. Ethirajulu, M.B.B.S., F.D.S. *Secretary*, Dr. D. Subbarao, M.B.B.S.

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Superintendent-in-Charge, M. Hari Gopal, L.B.E. (Bomb.).

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Matwada, Warangal.

Music and Literary Society.

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Cultural organisation for promoting dance, drama and music.

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KALA MANDAL
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President, Dr. B. G. Banade, M.B.B.M. *Vice-President*, D. K. Kelkar, M.A., LL.B. *Secretary*, R. K. Waghmare, M.A.B.T.

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Bagh Lingampalli, Hyderabad.
President, Smt. Vimala Bai Melkote *Secretary*, S. Udupachar. *Librarian*, R. B. Havaldar.

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President, Dr. A. N. Rao; *Vice-President and Treasurer*, Tadepalli Srimulu Garu; *Secretary*, M. L. N. Gupta Garu.

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10 14, Fort, Kurnool.
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MADRAS MICA ASSOCIATION
Gudur (Nellore Dist.).
President, P. Kota Reddy Garu, B.A. *Vice-President*, P. Venkatakrishna Reddy. *Secretary*, Palepu Dasarathama Reddy.

THE METAL MERCHANTS' & MANUFACTURERS' ASSOCIATION
Gunduvuri Street, Rajahmundry.
President, Sampatkumar Bang. *Hony. Secretary*, P. Sundaram & P. Srimurthy.

METHODIST CHURCH IN SOUTH INDIA
Hyderabad Annual Conference, Hyderabad.

MICA SCRAP DEALERS' ASSOCIATION
Gudur.
President, N. Mastan Reddy.

THE NATIONAL YOUTHS' UNION
2462/2, Rangrez Bazar, Secunderabad.
President, M. P. Sreenivasuloo. *General Secretary*, K. S. Sathyanarayana, B.A. *Treasurer*, B. Heraji Rao, B.Com., LL.B.

NATYA KALA NIKETAN
3-4-168, Bagh Lingampally, Hyderabad.
President, G. V. Sulibhavi. *Secretary*, K. D. Jagagirdar. *Treasurer*, G. N. Joshi.

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Hon. Secretary and Treasurer, Kalahasti Ramanatham, B.A., B.Ed.

NUTRITION RESEARCH LABORATORIES
(Indian Council of Medical Research).
Tarnaka, Hyderabad 7.
Director, Dr. V. N. Patwardhan, M.Sc., Ph.D., F.N.I. *Dy. Director*, Dr. C. Gopalan, M.D., Ph.D.

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President, D. Ramamohan Rao; *Hony. Secretary*, K. Atma Ram.

THE RAJAHMUNDY CHILLIES MERCHANTS ASSOCIATION
17/156, Opposite to Vullitosa Post Office, Rajahmundry.

President, Grandhi Nagabhushanam. *Vice-President*, Chalumuri Apparao. *Secretary*, Mavuri Veerabhadradu.

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Rajahmundry.

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17/156, Opposite Vullitosa Post Office, Rajahmundry.

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RAMAKRISHNA GANDHARVA VIDYALAYAM
Governorpet, Vijayawada.
President, M. V. Silva Sarma, B.A., B.L. *Secretary*, B. Sathyanarayana, B.A. *Principal*, Sangeetha Vidwan M. Lakshmi Narasimha Sastry, Dip. in Music.

REGIONAL RESEARCH LABORATORY
Hyderabad 9.
Director, Dr. S. Husain Zaheer.

SANMITHRA NATYAKALA SAMITI
825 B/2, Sultan Bazar, Hyderabad 1.
President, G. Hanmanth Rao. *Vice-President*, Dachejally Papiah. *Secretary*, S. Srinivas Naidu.

SARASWATI GANA SABHA
Surya Kala Mandiram, Vallabhbhai Street, Kakinada.
President, K. S. Narasinga Rao. *Vice-President*, D. Bhaskararao. *Secretary and Treasurer*, C. N. Srinivas Rao.

SRI SARADA NRYTYANIKETANAM
Kakinada.
Free School of Dance, Drama and Music and organisation of Dance and Drama Troupe.
Founder and Director, M. V. Ramana Murthy. *President*, Dr. A. Ellah. *Vice-President*, K. P. Sridhar. *Secretary*, K. A. Achary.

SECUNDERABAD TRADES ASSOCIATION
151, Sappers Lines, Secunderabad.
President, Hukamchand.
Honorary Secretary, P. T. Parakh.

SOCIAL EDUCATION CENTRE
H. No. 4043, Bandimet, Secunderabad.
Chairman, Rao Saheb P. Venkateswarloo. *Chief Convenors*, M. G. Ramchander, N. Narayan Rao. *Convenor*, Pandurang Rao Dhage.

SRI VENKATESWARA UNIVERSITY ORIENTAL RESEARCH INSTITUTE
Tirupati, Chittoor District.
Director, J. Chenna Reddy. *Curator-Librarian*, N. Subramania Sastri.

ST. JOHN AMBULANCE ASSOCIATION (INDIA)
(Andhra Pradesh State Branch)
St. Mary's Road, Secunderabad.

President, The Governor of Andhra Pradesh, Bhimsen Sachar. *Chairman*, Smt. Lalita Sachar. *State Secretary*, A. G. Naidu.

TAMARIND MERCHANTS' ASSOCIATION
Rajahmundry.
President, Anala Venkata Apparao.

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Tuni, East Godavary District.
President: D. Ch. Yarakayya. *Secretary*, Maddala Ramachandra Rao, B.A., B.L. *Treasurer*, Ch. Venkata Subbaryudu.

SREE VENKATESWARA AYURVEDA KALASALA, SANSKRIT PATASALA
Rangayyapparao St., Vijayavada 1.
President, Board of Management, Rao Bahadur L. L. Pantulu. *Vice-President*, Board of Management, Dr. Y. Suryanarayana Rao. *Principal*, Ayurvedalankara Dr. Nuri Venkateswara Sastry, A.V.A.C., A.L.I.M.

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414, Gandhi Bhavan Road, Hyderabad.
President, Mrs. Prem Lal Gupta. *Secretary*, Roop Lal.

VISHAKAPATNAM STEVEDORES ASSOCIATION
Vishakapatnam.
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VIZAGAPATAM MERCHANTS' ASSOCIATION
Main Road, Vishakapatnam.
President, A. Narasinga Rao. *Hony. Secretary*, K. Janakiramiah. *Hony. Treasurer*, V. M. Rao.

VUYYURU POLYTECHNIC
Vuyyuru P.O., Krishna Dist.
Principal, M. R. A. Gaudraz, B.E., Dip. A.R.T.C. (London).; *Head of Civil Engg. Section*, C. Narasimha Murthy, B.E.; *Head of Electric Engg. Section*: C. B. Gupta, B.Sc., B.E.

YOUNG MEN'S CHRISTIAN ASSOCIATION
Sardar Patel Road, Secunderabad.
Chairman, John Prasad. *Secretary*, David L. Kunder.

YOUNG WOMEN'S CHRISTIAN ASSOCIATION
King Koti Road, Hyderabad.
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YOUTHS' CULTURAL ASSOCIATION
18, Temples, Audlahnagar, Secunderabad.
Hon. Secretary, C. Ramanandham; *Jt. Secretary*, B. Babu Rao; *Treasurer*, M. Sathyanarayana.

(For 'Advertisement' see under 'Index' for page)

ASSAM STATE

Area : 47,089⁹ sq. miles.

Population (1951 census) : 8,830,732.

According to the 1951 Census figures, Naga Hills-Tuensang Area has a population of 212,975, but this leaves out the population of 2,006 sq. miles of Tuensang. Only a 50 sq. mile area of Tuensang (then known as Naga Tribal Area) was covered by the 1951 Census and the population there was recorded as 7,025.

There can be no estimate of the population of N.E.F.A. under the 1951 Census since only thin strips of territory of the Agency were covered by census operations and those now forming part of Assam. The total population of N.E.F.A. as at present constituted (See North East Frontier Agency), is very roughly estimated at 6,50,000.

Capital : Shillong.

Of the total population (census) males number 4,812,166, females 4,231,541, urban 414,418, rural 8,629,289. The rural population is subdivided into Agricultural at 6,606,216, Non-Agricultural 2,023,073.

Population according to religion : Hindus 5,894,738; Muslims 1,096,456; Christians 585,399; Buddhists 22,875; Jains 4,245; Sikhs 4,107; Jews 209; Other religions : Tribal 527,712; Non-Tribal 8,144; Zoroastrians 27.

Number of Scheduled Castes : 424,044; Scheduled Tribes : 1,735,245.

Density of population per sq. mile (Assam State) : 183.2⁹. No reliable figures on birth rate, death rate or infant mortality in the State can be found.

Nearly one half of the area of Assam State is covered by hills. Plains : 23,033 sq miles; Hills : 22,734 sq. miles. Besides, a total area of 1,322 sq. miles, mostly hilly, has been transferred to Assam State from N.E.F.A. The hill areas are sparsely populated and inhabited by the hilltribes. Plains : 7,805,558; Hills : 907,316. Areas transferred from N.E.F.A. : 57,858. Density : Plains : 338.88; Hills (including Transferred Areas) : 42.62.

DISTRICTS

Names of Districts with headquarters in brackets : Goalpara (Dhubri); Kamrup (Gauhati); Darrang (Tezpur); Nowgong (Nowgong); Sibsagar (Jorhat); Lakhimpur (Dibrugarh); Cachar (Silchar); Garo Hills (Tura); United Khasi-Jaintia Hills (Shillong) which is also the capital of the state; United North Cachar and Mikir Hills (Diphu); Mizo previously called Lunghai Hills (Aizawl).

The hill districts have been given, under the Constitution of India, a large measure of self-governing rights according to their respective tribal traditions and customs, exercised through Autonomous District Councils under the supervision of the Government of Assam.

For purposes of Autonomous District Councils, United North Cachar and Mikir Hills are two Districts : North Cachar Hills (Haflong); Mikir Hills (Diphu).

Number of Circles : In Assam Tahsils are termed as Circles : 52.

Number of Local Boards (District Boards) : 15.

Number of Municipalities : 17.

Number of Town Committees : 14.

Number of Cantonments : 1.

Number of Panchayats : (at the end of October 1958) : Rural 422; Primary 2,857.

Number of villages : 25,327.

There is no city in Assam. Names of towns with a population of over 50,000 (according to 1951 Census) : Shillong : 53,756 (excluding Cantonment area comprising a population of 4,746).

Forty per cent of the population are recorded as speaking Assamese and about 24 per cent

Bengali. Other languages spoken in the State are Hindi, Oriya, Mundari, Nepali and a great variety of languages and dialects, classified under the general heading Tibeto-Burman languages.

Number of people speaking the main languages (1951 census) : Assamese : 4,972,493; Bengali : 1,719,155; Hindi : 335,588.

GEOGRAPHY

Assam has three distinct natural divisions : Brahmaputra or Assam Valley, Surma or Barak Valley and the hills.

The river basins are naturally fertile and present in the main few difficulties to the cultivator. Rainfall being high the problem in general is to dispose of the surplus water and to control the action of floods rather than irrigation in the usual sense.

Rice is the staple food crop. Tea and jute are the most important crops grown for export. Besides, potatoes are also cultivated in Assam. A good deal of short staple cotton and fruits like oranges and pineapples are grown in the hills.

Rainfall is everywhere abundant, and ranges from 50 to 258 inches a year leaving aside the highest recorded rainfall in this part of India with the maximum reached at Cherrapunji in the Khasi Hills 32 miles south of Shillong (905 inches in 1861; record precipitation for one day is 41 inches). This is reputed to be the wettest place in the world. Temperatures are moderate.

Earthquakes of considerable severity have taken place. By far the worst in recent times was that which occurred on August 15, 1950, one of the world's five biggest recorded tremors. According to old records the Assam earthquake of 1897 is regarded as the severest in human history.

COTTAGE INDUSTRIES

Main cottage industries : Sericulture and Weaving. Principal areas for Sericulture : Sibsagar, Nowgong and Lakhimpur Districts.

Handloom weaving is done in most of the families in Assam. There are professional weavers in Cachar District and Suakuchi area in Kamrup District.

Number of fly and throw-shuttle looms in the State : 500,000.

Value of total production : Rs. 6,26,00,000.

Value of production of individual industries : Weaving products (Rs. 5,50,00,000); Muga raw silk (Rs. 50,00,000); Mulberry raw silk (Rs. 9,00,000); Open Eri Cocoon (Rs. 27,00,000).

Production of individual industries : Cloth—55,000,000 yards; Mulberry raw silk—30,000 lb.; Muga raw silk—200,000 lb.; Open Eri Cocoon—520,000 lb.

Total number of workers in Cottage Industries : 20,00,000 (inclusive of part-time and whole time workers in sericulture and weaving).

Number of workers in individual industries : Weaving (1,200,000); Sericulture (800,000).

Budget grant for Sericulture and Weaving (1958-59) : Rs. 48,84,000.

AGRICULTURE

Latest available :

Main food crops of the State : Rice, Rape, Mustard, Sugar-cane, Potato, Pulses, Maize and Oranges.

Main cash crops of the State : Tea, Jute, Cotton and Tobacco.

Production of food crops in tons (figures are for 1957-58 and include Naga Hills District) : Autumn Rice : 376,458; Winter Rice : 1,244,474;

Spring Rice : 11,438; Rape and Mustard : 56,233; Sugar-cane : 86,128 (in terms of gur); Potato : 115,154; Pulses, Rabi : 26,774; Tur (Arhar) : 1,794; Maize : 7,689; Gram : 928; Wheat : 1,436; Other cereals and small millets : 1,990; Castor : 762; Sesamum : 3,645; Linseed : 280.

Production of individual cash crops : Tea : 367,879,407 lb. (Black Tea : 362,905,567 and Green Tea : 4,973,840 lb.); Jute : 1,094,116 bales (one bale—400 lb.); Cotton : 8,249 bales (1 bale—392 lb.); Tobacco : 6,910 tons; Mesta : 11,588 bales (one bale—400 lb.).

Total geographical area of the State : 32,896,640 acres (Survey of India).

Total area sown (estimated) : 6,300,116 acres. Area sown more than once : (estimated) : 902,220 acres.

Area under food crops : (estimated) : 5,023,497 acres.

Area under cash crops : (Tea, jute, cotton, tobacco and mesta) (estimated) : 797,570 acres.

Area under individual food crops : Autumn rice 1,072,900 acres; Winter rice 3,116,550 acres; Spring rice 21,350 acres; Rape and Mustard 295,300 acres; Sugar-cane 65,400 acres; Potato 70,670 acres; Pulses, Rabi : 171,355 acres; Tur (Arhar) : 6,340 acres; Maize : 36,040 acres; Gram Pulse : 4,220 acres; Wheat : 6,440 acres; Other cereals and small millets : 9,160 acres; Castor : 5,495; Sesamum : 18,900; Linseed : 1,860.

Area under individual cash crops : Tea—384,065 acres; Jute—349,350 acres; Cotton—34,040 acres; Tobacco—24,115 acres; Mesta—6,000 acres.

The cultivation of oranges, which is a principal crop, is mainly confined to the Khasi-Jaintia Hills which are a non-cadastrally surveyed area. Hence no data available.

Bam Cultivation : Prevails in the hill districts of Assam. Trees and shrubs on hill slopes selected every year are cut down and burnt and then crops grown on the bald patches. The area is then abandoned for a number of years so that trees may grow again and fertility recouped.

Under this system a particular group of people jointly occupy a particular area. They have no individual right over the land. In lieu of land revenue they pay a tax known as House Tax, Hoc Tax or Dao Tax which generally varies from Rs. 2 to Rs. 3 per family.

Veterinary : Total number of cattle : 5,145,576 (Cows—4,735,506, Buffaloes—475,231), Horses and Ponies—15,501, Sheep—32,604, Goats—917,239, Fowls—6,050,724, Other livestock—291,920 (1951 livestock census).

PLANTATIONS

Latest available :

Plantation in the State : Tea.

1956 :

Area under Plantation : 1,395,304 acres.

Number of Plantations (number of main and out gardens) : 818.

Area under Tea : 384,065 acres.

Produce from plantation : Tea : 367,879,407 lbs. (Black tea—362,905,567 lbs.; Green tea—4,973,840 lbs.).

Average daily number of workers :

a) Permanent garden labour : 457,821.

b) Permanent outside labour : 29,436.

c) Temporary outside labour : 42,371.

Fisheries : Variety of fish produced : Rahu, Katia, Mrigal, Mall, etc.

1956-57 :

Number of fish farms 9 (under Government control).

Fish seed collecting centres 14.

* There is some discrepancy between the figures supplied by the Central Govt. and the State Govt.

FORESTS

Main types of Forest with some species of trees of economic importance occurring in them:

Evergreen forests, mixed deciduous forests, deciduous and dry deciduous forests, riverain forests, Savannah forests, swamp forests, bamboos and temperate forests.

A large area under forests falls in the hill districts which are sparsely populated and covered with vegetation.

Assam possesses one of the richest fauna in Asia and it is claimed that outside Africa, there is no part in the world with so many varieties of animals, birds, reptiles and insects. Rhinoceroses, elephants, wild buffaloes, bisons (called 'Mithuns' by most of the hill tribes in Assam and the N.E.F.A.) swamp deer, Sambhar, spotted deer, barking deer, tiger, leopards, black panther, King Cobra, pink-headed duck and Giant Hornbill are some of the well-known specimens of wild life.

Four sanctuaries and two game reserves with a total area of about 500 sq. miles, are maintained by the Government Forest Department for the protection of the interesting and in some cases the numerically dwindling species. Kaziranga and Manas are the two most famous sanctuaries, both nearly the same size, 166 and 162 sq. miles respectively. Kaziranga, in the heart of Assam and situated on the South Trunk River, is easily accessible and affords every facility to the visitor to see the famous one-horned rhinoceros from elephant back at close range. The sanctuary at Manas at the foot of Bhutan Hills is the more attractive from the scenic point of view.

1956-57 (unless otherwise mentioned):

Total forest area in State: 17,664 sq. miles.

Reserve forests: 6,368 sq. miles; Protected forests: 110 sq. miles; Unclassed State forests: 10,424 sq. miles.

Total area of private forests (1955-56): 975 sq. miles inclusive of Corporation Forests.

Total revenue from forests and total expenditure.

Revenue	Rs. 90,26,371.
Expenditure	Rs. 67,53,221.

Main Forest produce with the quantity and value of each variety in brackets:

Timber (74,90,000 cft., Rs. 73,71,285); Firewood (61,02,000 cft., Rs. 1,44,625); Bamboo (27,31,448 Nos., Rs. 1,74,952); Elephants (233 Nos., Rs. 1,97,301); Cane (68,13,676 rft., and 3,360 bundles, Rs. 2,58,784); Lac (405 maunds 20 seers, Rs. 2,281); Elephant tusks (1 maund 6 seers 7 chhataks, Rs. 1,131); That (21,08,937 bundles and leases, Rs. 32,322 and Rs. 83,067 respectively); Flabery (leases, Rs. 74,478); Stone (10,91,738 cft., Rs. 42,331); Sand (17,52,545 cft., and leases, Rs. 1,56,302 and Rs. 3,384); Drugs (Rs. 65,622); Spices (Rs. 201); Incense & Perfumes (Rs. 7,180); Fibres & Flosses (Rs. 25).

Afforestation undertaken (1956-57):

Artificial regeneration ..	48,930 acres.
Natural regeneration ..	1,13,851 acres

Total 1,62,781 acres

Expenditure—Rs. 3,46,452.

Grazing allowed: Cows: 13,546 Nos.; Buffaloes: 13,710 Nos.; Sheep and Goats: 23 Nos.; Other livestock: 279.

Vanamahotsava:

Number of trees planted:	
Edible fruits: 1,907	
Others: 40,552	
Total: 42,459	

Number of trees survived:	
Edible fruits: 493	
Others: 31,761	
Total: 32,254	

Percentage of survivals to planted: 76.

LAND TENURE SYSTEM

There are two classes of land tenure system in the State—the permanently settled estates and the temporarily settled estates.

Permanently settled estates: These are found in Goalpara District and Karimganj Sub-division of the Cachar District. The land is held by zamindars having intermediaries under them. The actual tillers of the land are the tenants who hold land either directly under the zamindars or intermediaries. The tenants also pay a fixed amount of rent.

In common with other States having the permanent settlement system, Assam Government has passed laws to end samindari rights. All area of 15,39,497 acres has already been acquired by Government out of the total permanently settled area of 17,02,055 acres. The rights of intermediaries between tillers and Zamindars that is, of tenure holders and jottars, are now being abolished in Goalpara District. Steps for the acquisition of Zamindari in Karimganj are in progress. Total compensation is estimated at about Rs. 5 crores.

Temporary settlement system: Also known as the Ryotwari system. Prevails in the other plains districts of the State. These lands are assessed to full revenue and are called Khiraj lands.

The peculiarity of this system is that generally the cultivators hold lands directly under the Government unlike the lands in permanently settled estates.

The Khiraj lands are again divided into two categories, periodic and annual. The periodic landowner has a heritable and transferable right whereas the annual landowner (technically called "settlement holder") has a right of user only and has no right of transfer or subletting. Subject to the payment of the land revenue the owners of annual lands get renewal of the lease from year to year. There is a great demand in Assam that annual settlement should be abolished and periodic settlement made the general rule.

Besides these, there are some La-Khiraj (full revenue free) and niaf-Khiraj (half revenue free) tenures in Assam and also a number of Fee Simple tenures. These Fee Simple tenures are for cultivation of tea. These tenures are initially revenue-free, but subsequently they have been assessed at full rate of revenue under Assam Revenue Free Waste Land Grants Act, 1948.

There are three tenancy Acts in Assam, viz. The Goalpara Tenancy Act, The Sylhet Tenancy Act and the Assam (Temporarily Settled Districts) Tenancy Act. The former two Acts apply to the Districts of Goalpara and Cachar (those portions of former Sylhet District which have remained in Assam after partition) respectively. The last Act applies to the plains districts of Assam. These Acts confer rights of occupancy, determine the rent payable by the tenants and regulate the relationship between the landlords and the tenants. The Assam Adhikars Protection and Regulation Act, 1948, governs the conditions regarding crop-rent payable by the crop-sharing tenants and prescribe the conditions on which the landlord can resume possession for personal cultivation. Government has also passed a law called the Assam Fixation of Ceiling on Land Holdings Act (1956), whereby the holding of agricultural lands has generally been limited to a maximum of 150 bighas (about 50 acres) per family.

Hill Districts: In the hill districts of Assam, land administration is carried on by the Autonomous District Councils according to local customs and usages. The provisions of revenue regulations and tenancy acts in force for the plains districts do not apply there and even land-revenue as it exists in the plains, is not realised there. In its place, a house tax or hoe tax is levied on the people. In many parts of the hills, land is held in common by entire villages.

MINES, INDUSTRIES

The only minerals in Assam worked on a commercial scale are coal, limestone and petroleum oil. Petroleum output about 100,000,000 gallons; coal output 4,72,900 tons; and limestone output approximately 1,000,000 tons. The most extensive coal measures hitherto worked are in the Naga Hills, Lakhimpur District and Khasi-Jaintia Hills. Important deposits also exist in the Garo Hills; but those are yet to be exploited. Limestone is quarried in the Khasi-Jaintia Hills. Petroleum is worked only in Lakhimpur and refined there. An oilfield has been found at Nahorkatiya.

An oil refinery is to be set up in the State.

Silk is manufactured in the Assam valley; also cotton weaving prevails as a cottage industry, women playing a predominant part. In this valley there are no caste weavers. In the Surma Valley or Cachar weavers carry on a brisk manufacture on a commercial scale. These handloom products find a ready market on account of the great scarcity of mill made cloth. There is no textile mill in Assam and the entire requirement of mill-made cloth has to be imported from other States.

Tea is the main industry, but there is a large petroleum mining concern with Digboi in Upper Assam as the centre and also some coal-mines. There is a big match manufacturing concern at Dhubri. Boat-building, brass and metal and earthenware, limestone burning, cane and bamboo work, furniture making, sola hat, smithy, brick making, mustard oil pressing, rice and saw mills are other industries. But agriculture employs about 80 per cent of the population. Assam carries on a considerable trade with the adjoining hill tribes and countries.

Power Projects: The only power project the Umtru Hydro-electric Project was started in 1949-50 and completed in 1956-57 at a total cost of Rs. 211.67 lakhs. The project benefits Kamrup, Nowgong and Kand Jhills. The installed capacity is 7,500 kW.

TRADE

Assam has to import almost every article of daily necessity. Unlike in previous years the State has now to supplement the local production of rice—the staple food—by imports from the rest of India. During 1958 import of rice from other States on private trade account was banned and the requisite quantity had to be moved on Central Government account. The State's requirement of wheat was also met by the Central Government with imported wheat.

Manufactured goods, textiles, iron and steel, cement, medicine, sugar and pulses are some of the main items of import. Exports from Assam are tea, jute, timber, cane, bamboos, petroleum, limestone, fish, poultry and fresh fruits.

Assam's trade for the most part, was with areas now included in East Pakistan, but after partition it has dried up to a great extent and the traffic is maintained only by exports of fruits and vegetables and imports of fish, eggs and poultry.

TRANSPORT

Much of the trade of Assam is carried by river. Steamer companies maintain fleets of vessels which ply to and from Neamat, Disangmukh, Tezpur, Gauhati, Goalpara, Dhubri, Karimganj, Silchar and many other smaller stations.

During the dry season the formation of *chars* and sandbanks restrict the volume of riverine traffic and after the 1950 earthquake, Upper Assam has been forced to rely more on road and rail transport.

The rail system in Assam is entirely metre-gauge. On November 1, 1958 the total mileage in the State was 1,455.08.

From January 1958, the entire railway system in Assam has been made part of a new Zone of the Indian Railways—the North East Frontier Railway. Pandu (Maligaon) near Gauhati has been made the head-quarters of N.E.F. Railway.

The railway system enters Assam by the north bank of the Brahmaputra and continues on the more important south bank after crossing the river by a ferry between Amnigaon and Pandu. From Pandu the line stretches eastward to Tinsukia, 324 miles away. Short branch lines connect the important towns of Dibrugarh, Nowgong, Jorhat, Sibsagar and Tezpur to the main line.

The construction of a road-rail bridge to link the two banks of the Brahmaputra has now been taken in hand. The bridge is expected to be completed in 1961 and the cost is estimated at Rs. 10 crores.

Because of the slender surface link between Assam and the rest of India, air services are of great value to the State. The first direct link by air between Calcutta and Gauhati was established in 1947. This air service was originally on a non-scheduled basis but very soon it became a daily service and now there is more than one service a day. Almost all the big towns—Tezpur, Jorhat, Dibrugarh, North Lakhimpur, Nalbari, Dhubri and Gauhati are served by daily scheduled flights. Pasighat and Along in N.E.F.A. have also been placed on the airmap.

Before independence the State had only 2,610 miles of motorable roads—2,040 miles in the plains and 570 miles in the hills. After the achievement of independence an extensive programme of road-making was taken in hand and on March 31, 1956, the total length of motorable roads stood at 6,627 miles including 797 miles of National Highway. Of these 5,163 miles were in the plains and 1,464 in the hills. Besides, there were on this date 1,641 miles of bridle roads.

Nationalisation of motor transport in the State was started in 1948, and till August 1958, 1,062 miles were covered. The Second Five-Year Plan aims at nationalising 830 miles.

On November 1, 1958 :

Number of passenger buses : 337

Number of cars : 21

Number of Goods Vehicles : 138

Number of other vehicles (ambulance, staff car, etc.) : 15

Number of passengers carried in a day (1955-56) : 11,340

Goods carried in a day (1955-56) : 7,870 maunds.

The State Transport organisation provides employment to 2,549 persons. Capital invested till March 31, 1957 is Rs. 1,05,05,430. Profit in 1956-57 stood at Rs. 30,18,403. The State Transport is under the administrative management of a Board, with the Minister for Transport as Chairman.

Shillong is reached by a 63-mile nationalised motor route from Gauhati, the nearest railhead, steamer ghat and air station. Assam Government's State Transport carries both passengers and goods on a monopolistic basis on the National Highway, in combination with railway and steamer services on out-going terms.

The programme of road-making has its special significance in that it is designed to make Assam self-sufficient in ensuring quick transport of its exports to and imports from other parts of the Indian Republic without having to pass through Pakistan. At the same time communications within the State are being improved by provision of necessary feeder roads from and to the arterial road system of the State so that local surplus produce may find good markets.

CIVIL SUPPLIES

In January 1958 the Assam Government promulgated a Food Grains Licensing and Control Order with immediate effect to regulate the sale, purchase, storage and milling of rice and paddy throughout the State.

There was some uneasiness over the 1958 food prospects and it was expected that the shortfall might amount to about 100,000 tons.

No dealer can now purchase, store or sell any rice or paddy exceeding ten maunds without any licence.

The State Government may also compel, for the purpose of "maintaining or increasing supplies or securing an equitable distribution and availability at fair prices", the holders of food stocks to sell to the Government or other specified persons at prices determined by the Central Government.

The movement of food grains out of Goalpara, Nowgong, Sibsagar, Cachar, Kamrup and Darrang districts and North Lakhimpur and Dibrugarh sub-divisions, without permits, has been banned.

An exception has been made, however, in the case of *bona fide* travellers carrying food grains not exceeding five seers.

Rice is the staple food in Assam.

A new Roller Flour Mill has been functioning since May 1957, but the maida and fines produced by this mill are quite inadequate to meet the requirements of the State.

Arrangements have been made for the supply of 1,500 tons of maida per month from Calcutta flour mills in addition to the local production of about 450 tons.

The entire requirements of sugar, salt, cloth and yarn have to be imported as there is no production unit for any of these commodities.

The demand for sugar prior to decontrol in June 1953 was about 2,500 tons monthly. This has now gone up to 5,000 tons. For the entire quantity Assam depends on mills in other States.

In the matter of cloth there is no control on movement or price, but the licensing of dealers still continues.

State's requirements: Rice—1,693,125 tons (annual); Wheat—5,000 tons (monthly); Salt—200,000 md. (monthly); Sugar—8,000 tons (monthly); Cloth—5,000 bales per month; Yarn—3,000 bales per month.

CO-OPERATION

For statistical information see the main article on Co-operation. Some specific types of co-operative societies and their number, not dealt with in the article on Co-operation, are given below.

Small Size Credit Societies (2,470); Consumers & Trading (1,070); Weavers' (885); Urban & Salary Earners' (162); Farming (135); Industrial Societies (110); Multipurpose Societies (97); Fishery (98); Large Size Credit (82); Rice Producers' (38); Primary Marketing (27); Primary Milk (11); Wholesale & Supply (9); Sub-divisional Co-operative Union (5); Milk Union (2); Housing (2); Better Living (2); Cotton Ginning Mill (2); Jute Baling (1); Sugar Mill (1); Apex Weavers' (1); Apex Marketing Society (1); Apex Bank (1).

Number of Central Banks : 14.

Apex Bank : 1 with 17 branches:

Assam Co-operative Apex Bank (1957-58) :

Working capital	Rs. 5,08,29,159
Deposits	4,93,286
Paid-up share capital	43,21,000
Profit	7,52,175

Budget allotment for the department for the year 1958-59 : Rs. 31,70,000.

STATE HELP FOR AGRICULTURE

During the 2nd Five-Year Plan, the department set a target of 3.82 lakh tons of additional foodgrain, out of which 1.04 lakhs were expected to be achieved during 1957-58.

The target is expected to be reached through various development measures such as (i) minor irrigation, (ii) application of manures and fertilizer, (iii) bringing more area under improved seeds, (iv) reclaiming new land and (v) adopting better methods of cultivation.

Minor Irrigation : During 1957-58, 216,650 acres benefited through Minor Irrigation Projects, which were expected to produce additional production potential of 27,130 tons of foodgrain.

Manure and Fertilizer : 42,690 acres were covered by various manures and fertilizer, which were expected to produce an additional 2,700 tons of foodgrain.

Improved seeds : During the year, 46,220 acres were brought under improved seeds which were expected to give 3,470 tons of additional foodgrain.

Improved cultural practices : 18,420 acres were covered by improved cultural production (which also includes plant protection measures), which is expected to produce 1,690 tons of additional foodgrain.

Besides, 1,400 acres of land were covered by soil conservation projects in the hill districts, which were expected to give additional production potential of 460 tons of foodgrain.

Another 50,000 tons of additional foodgrain was expected to be obtained from the production potential created by the permanent schemes opened during the 1st year.

HEALTH SERVICES

Latest figures available :

Commonest diseases in State and mortality from each disease during 1957.

Diseases	Persons affected	Death
Malaria	74,613	5,797
Kala-Azar	3,670	160
Total : All fevers	not available	22,627
Small Pox	not available	67
Dysentery and Diarrhoea	not available	3,098
Respiratory diseases	not available	3,546
Injuries	not available	829

Total number of hospitals and dispensaries : 490.

Number of Allopathic hospitals and Dispensaries : 478 ; (Rural—398 ; Urban—80).

Total number of Ayurvedic dispensaries : 12.

Types of special hospitals and the number of each : T.B. Hospitals—11 (450 beds); Mental Hospital—1 (740 beds); Leprosy Hospitals and Clinics—15 (755 beds); Kala-Azar Hospitals—3 (301 beds).

Total number of Allopathic doctors (Rural and Urban)—2,075.

Total number of Ayurvedic doctors (Rural and Urban)—259.

Total number of Nurses—954.

Total number of Midwives—982.

Total number of Dhals (Rural and Urban)—857.

Total number of Compounders—2,350.

Total number of outdoor patients treated in Hospitals—1,830,000.

Total number of Government Hospitals and Dispensaries—455 (rural 384 ; urban 71).

Total number of Government doctors : Allopathic—350 ; Ayurvedic—12.

Total number of Government Nurses : 260.

Total number of Medical Colleges : Allopathic—1 ; Ayurvedic—1.

Total number of Students: Allopathic—514; Ayurvedic—24.

Special Medical Research Institutes—2 (Pasteur Institute, Shillong; Malaria Institute, Shillong).

Budget allotment (1958-59): for Public Health:—Rs. 1,09,84,000; for Medical: Rs. 1,11,48,000.

EDUCATION

For statistical information on Education, see the main article on Education. Information on certain special topics is given below.

Nursery Schools:

Total number of Nursery Schools: 24 (boys 6; girls 18).

Total enrolment: 921 (boys 440, girls 484).

Total number of teachers: 38.

Number of schools with Nursery classes attached (1955-56): 15 (urban areas 3; rural areas 12).

Total expenditure on Nursery Schools: Rs. 41,028 (excludes expenditure on unrecognised institutions).

European and Anglo-Indian Schools:

Number of European and Anglo-Indian Schools: 4.

Total enrolment: 1,278.

Total Government grant: Rs. 33,478.

Sanskrit Tols:

Number of Sanskrit tols: 139.

Enrolment: 3,668.

Government grant: Rs. 74,000.

Arabic Madrasahs:

Number of Arabic Madrasahs: 121.

Total enrolment: 12,500.

Government grant: Rs. 92,252.

Number of European and Anglo-Indian Schools owned by State Government: 1; by Private agencies: 3.

Number of Sanskrit Tols owned by State Government: Nil; by Private agencies: 139.

Number of Arabic Madrasahs owned by State Government: 1; by Private agencies: 120.

Number of nursery schools owned by State Government: 1; by Private agencies: 23.

Schools for Defectives:

Total number of schools for defectives: 2.

Total enrolment: 64.

Number of teachers: 5.

Government grant: Rs. 8,660 (for one school).

Research Institutions:

Kamrup Anusandhan Samity, Gauhati.

Assam Provincial Museum, Gauhati.

Assam Paribhasa Committee, Gauhati.

Universities:

Number of Universities: One (Gauhati University).

SOCIAL EDUCATION

Number of Social Education Centres organised so far throughout the State: 694.

In order to cater for the post-literacy courses 428 village libraries were given grants-in-aid in 1957.

Adults both male and female are generally admitted into the Social Education Centres.

Total number admitted: 28,114 (men 25,529; women: 2,585).

Total budget for the scheme in the State: Rs. 4,45,000.

Number of adults who appeared in the literacy tests held from the Social Education Centres: 24,307 (men: 21,843; women: 2,464).

Number of adults who came out successful: 18,471 (men: 16,430; women: 2,041).

Number of teachers in Social Education Centres: 694.

Hindi in the Education System:

Hindi has been introduced as a compulsory subject in selected secondary and special schools of the State.

Total number of schools where Hindi has been introduced as a compulsory subject: 507.

The number of candidates who appeared at the different examinations conducted by the Assam Rastrabhasa Prachar Samity: Prathama—10,045; Prabosika—4,478; Probodh: 1,784; Bisharad—539.

Total number of candidates who appeared at different examinations conducted by Assam Rajya Rastrabhasa Prachar Samity (1956): 3,391.

Basic Education:

The Scheme for Basic Education was first introduced in this State only in the year 1949-50 on the lines of the Wardha Education Scheme.

Due attention was paid to the productive side of Basic Education.

It is expected that the existing 8 Government training centres with Basic Schools under them will earn on an average Rs. 1,000 per centre.

LABOUR

Average daily number of workers in registered factories at the end of March 1958: 68,825 (Men 59,527; Women 7,323; Adolescents 1,376; Children 599).

Names of industries in which a minimum wage is fixed: Tea Plantation, Motor Transport, Rice and Oil Mills, Agriculture, Road Construction, Building Operations and Stone-breaking or crushing.

Average monthly earnings of workers in some of the more important industries (in March 1957) (earnings include basic wage as well as other cash remunerations like dearness allowance and overtime; basic wages are shown in brackets):—Plantations: Rs. 45 (Rs. 30-50); Tea factories: Rs. 52-12 (Rs. 37-25); Rice Mills: Rs. 80-31 (Rs. 61-44); Plywood factories and Saw Mills: Rs. 67-66 (Rs. 48-19); Match factory: Rs. 114-50 (Rs. 49-12); Petroleum: Rs. 194-50 (Rs. 102-37).

Total number of Trade disputes for the year 1956-57: 6,504.

Total number of Strikes: 16 (14 in tea plantations).

Total number of workers affected: 4,762 (4,373 in tea plantations).

Number of man-days lost: 24,132.

Number of registered Trade Unions in State (November 1, 1958): 128.

Total membership of Trade Unions: No reliable figure available; but on March 31, 1958, the total for 34 Unions stood at 66,815.

Number of Labour Welfare Centres in State: 20 including two training centres.

Under the Subsidised Industrial Housing Scheme for industrial workers as sanctioned by Assam Government's Directorate of Housing, 303 tenements were built till September 30, 1958.

Under the Plantation Labour Act, 644 Tea estates were expected to provide housing for their workers during 1957 and of them 561 estates returned a total of 7,588 pucca, 488 semi-pucca and 1,704 kutcha houses. The other 83 estates were classed as defaulters.

COMMUNITY PROJECTS

The Community Development Projects and Blocks and the National Extension Service Blocks taken up in the State till March 31, 1957 cover a total area of about 17,257 sq. miles with a population of 28,62,288 (about 94 per cent of the State population) in about 9,915 villages. There are in all 53 blocks in operation now.

HOUSING

Housing authority: Director of Housing, Shillong.

Finance available for housing: Schemes are entirely financed by loans and subsidies from the Government of India, Ministry of Works, Housing and Supply except that for slum clearance schemes a matching subsidy is given by the State Government. Staff expenses for all schemes are borne by the State Government. Allotment by Government of India for the Second Five-Year Plan period: Rs. 141.50 lakhs excluding staff expenses of the order of Rs. 15 lakhs.

The Schemes are: (1) Subsidised Industrial Housing for industrial workers Rs. 10,00,000; (2) Plantation Labour Housing for tea estate workers—Rs. 30,00,000; (3) Low Income Group Housing—Rs. 79,50,000, under which two types of loans are granted: (a) for tenements for municipal sweepers at a ceiling loan of Rs. 2,800, per tenement, and for residential houses by private individuals, with a maximum loan of Rs. 8,000 per house; (4) Rural Housing for improving housing condition in villages—Rs. 10,00,000, and (5) Slum Clearance—Rs. 12,00,000.

Types of houses built: Tenements for municipal sweepers at a ceiling cost of Rs. 3,500 per tenement, and residential houses by private individuals with no prescribed ceiling.

Financial help given to local bodies: To Municipalities for sweepers' tenements, 80 per cent of the estimated cost of construction or Rs. 2,800 per tenement, whichever is less.

The Housing Board advances loans also to private individuals for construction of residential houses at the rate of 80 per cent of the cost of construction or Rs. 8,000, whichever is less, repayable with interest at 5½ per cent per annum in 18 years.

Progress of implementation of the schemes till September 30, 1958: (1) Construction of 303 tenements under Subsidised Industrial Housing Scheme—Rs. 9,09,000; (2) Initial expenses towards implementation of Plantation Labour Housing Scheme—Rs. 67,000; (3) Sanctions to local bodies for construction of tenements for sweepers—Rs. 7,00,000, and to private individuals for residential houses—Rs. 60,00,000; (4) Preliminaries undertaken for Rural Housing, and (5) Construction of 272 tenements undertaken under the Slum Clearance Scheme at an estimated cost of Rs. 8,98,000.

BUDGET (1958-60)

See under 'Late Particulars'.

FIVE-YEAR PLAN

See under article 'Second Five-Year Plan'.

THE ASSAM FINANCIAL CORPORATION

('Glenerquahrt', Shillong)

(Position as on March 31, 1958): †

The Corporation came into being on 14th August 1954.

Aims and objects: To contribute to the industrialisation of the State by providing credit, medium and long term to industrial concerns present or future in Assam.

Authorized capital: Rs. one crore divided into one lakh shares.

The one lakh shares are distributed as below:

1. Government of Assam ..	50,000
2. Reserve Bank of India ..	20,000
3. Scheduled Banks, Insurance Companies, Co-operative Banks and other financial institutions.	25,000
4. Parties other than those referred to above ..	5,000

Total number of applications received: 123

Total number of applications accepted for loan: 50

Total amount of loan sanctioned: Rs. 1,07,50,000

Total amount of loan advanced: Rs. 54,03,448

Rate of interest charged: Six per cent to seven per cent.

	Rs.
Income (1957-58)	5,25,664
Expenditure	73,746
Profit	4,51,918

† Later figures if available are given under 'Late Particulars.'

POPULATION OF DISTRICTS (1961 Census)

Assam Districts.	Total	Males	Females	Rural	Urban
1. Cachar	1,115,865	588,806	527,559	1,054,489	61,376
2. Goalpara	1,108,124	588,999	519,125	1,067,495	40,629
3. Kamrup	1,490,898	799,391	691,001	1,416,512	73,880
4. Darrang	913,841	491,618	422,223	891,390	22,451
5. Nowgong	886,955	476,578	410,377	843,420	43,535
6. Sibsagar	1,212,224	647,982	564,292	1,172,905	39,319
7. Lakhimpur	1,078,157	586,306	491,851	1,021,723	56,434
8. United Khasi and Jaintia Hills	363,599	186,652	176,947	305,087	58,512
9. Lushai Hills	196,202	96,136	100,066	189,252	6,950
10. Garo Hills	242,075	124,054	118,021	242,075	.. .. .
11. United Mikir and North Cachar Hills	165,440	86,430	79,010	163,272	2,168

Names of Districts showing the area in square miles* and population respectively of each District followed by the names, area in square miles and population respectively of the talukas in that particular District within brackets:

Cachar District: 2,687; 1,115,865 (Haikandi: 512; 195,650; Karimganj: 709; 378,324; Silchar: 1,459; 541,891).

Darrang District: 3,361; 913,841 (Mangaldai: 1,272; 402,501; Tezpur: 1,534; 511,340).

Garo Hills District: 3,140; 242,075.

Goalpara District: 3,983; 1,108,124 (Dhubri: 2,881; 779,835; Goalpara: 1,098; 328,280).

Kamrup District: 3,837; 1,490,898 (Barpeta: 1,254; 539,423; Gauhati: 2,590; 950,969).

Lakhimpur District: 4,927; 1,078,157 (Dibrugarh: 2,808; 831,968; North Lakhimpur: 1,345; 246,189).

Mizo Hills (Lushai): 8,134; 196,202 (Aijal: 4,861; 135,985; Lungleh: 3,282; 60,217).

Nowgong District: 2,187; 886,955.

Sibsagar District: 3,456; 1,212,224 (Golaghat: 1,363; 333,553; Jorhat: 1,094; 434,660; Sibsagar: 1,019; 441,011).

United Khasi and Jaintia Hills District: 5,546; 363,599 (Jowai: 1,513; 67,031; Shillong: 4,041; 295,968).

United Mikir and North Cachar Hills District: 5,895; 165,440 (Mikir Hills: 3,995; 125,777; North Cachar: 1,888; 39,663).

* There is a discrepancy between the figure obtained by adding the areas of individual districts and the figure for the area of the State as a whole given at the top of the article.

UNIVERSITY OF GAUhati

Gauhati, Assam.

VICE-CHANCELLOR

S. K. Bhuyan, M.A., B.L., Ph.D. (Lond.), D. Litt. (Lond.).

REGISTRAR

P. Datta, M.A., B.L.

Teaching, Affiliating and Residential.

Subjects where provision exists for post-graduate and research:

Assamese, Philosophy, Economics, History, Education, Mathematics, Statistics, Botany, Commerce, English, Physics, Chemistry, Geology, Anthropology, Agricultural Botany, Sanskrit, Political Science, Culture and Civilisation of Assam.

Number of colleges affiliated: 30 (including one constituent college).

Number of students: Affiliated Colleges: 14,242; University Departments: 1,370; Constituent College (Law College): 860.

Grant from State Government:

Annual recurring grant of Rs. 6,00,000.

Receipts: Rs. 17,65,407-15-9 (1956-57).

Expenditure: Rs. 16,69,850-3-3 (1956-57).

LIST OF COLLEGES *

Assam Agricultural College, Jorhat.
Assam Medical College, Dibrugarh.
Assam Veterinary College, Gauhati.

B. Barooah College, Gauhati.

B.N. College, Dhubri.

Cotton College, Gauhati.

D. C. Baruah Girls' College, Jorhat.

Dibrugarh H.S. Kanol College, Dibrugarh.

Darrang College, Tezpur.

D.M. College, Imphal (Manipur).

Gurucharan College, Silchar.

Handique Girls' College, Gauhati.

J.B. College, Jorhat.

Karimganj College, Karimganj.

Lady Keane Girls' College, Shillong.

M.C. College, Barpeta.

Nalbari College, Nalbari.

Nowgong College, Nowgong.

Sibsagar College, Sibsagar.

St. Anthony's College, Shillong.

St. Edmund's College, Shillong.

St. Mary's College, Shillong.

University Law College, Jhalukbari.

ASSOCIATIONS, ETC.

AMERICAN BAPTIST FOREIGN MISSION SOCIETY (ASSAM MISSION)

Pan Bazar, Gauhati.

President, Miss Florence Wormser; Secretary, Rev. R. G. Beers; Ag. Treasurer, Miss Florence Wormser.

ASSAM CHAMBER OF COMMERCE

Keating Road, SHILLONG.

President, Md. Umaruddin.

Senior Vice-President, P. C. Chaudhuri.

Vice-Presidents, K. L. Bajorin, S. D. Goswami.

Honorary General Secretary, D. P. Agarwal.

Honorary Joint Secretary, Madan Mohan Oberai.

THE ASSAM CO-OPERATIVE TRAINING INSTITUTE

P.O. Joysagar.

Superintendent, Syed Ikram Hussain.

ASSAM ENGINEERING INSTITUTE

Bamuni Maidan, Chandmari, Gauhati.

Principal: Dr. D. R. Khashtgir, D.Sc., M.I.E., M.I.C.E., M.A. ASCE.

ASSAM NATIONAL CHAMBER OF COMMERCE

P.O. Ulubari, Gauhati.

Hon. Secretary: S. C. Deb.

ASSAM RESEARCH SOCIETY

Gauhati.

President: P. D. Chaudhuri. Jt. Secretaries: Dr. P. Goswami, M. C. Das.

ASSAM SAHITYA SABHA

Chandrakanta Handique Bhawan, Jorhat.

President: Principal P. D. Chaliha, M.A., B.L.;

General Secretary: Binanda Ch. Barua, B.A.;

Asst. Secy.: Jatindra Nath Goswami, M.A., B.T.

ASSAM SANGIT NATAK ACADEMY

Kismet, Upland Road, Shillong.

President: Fasil Ali, Governor of Assam;

Chairman: Debeshwar Sarma, Education Minister, Assam State; Hon. Secretary: Rani Sabita Debi.

BINAPANI NATYA SAMITY

Haibargaon (Dt. Nowgong).

President: Rabindra Nath Bordoloi; Secretary: Keshab Chandra Hazarika; Asst. Secretary: Jogendra Nath Bhattacharyya.

ASSAM TEXTILE INSTITUTE

Gauhati

Principal: H. K. Varma.

Lecturer in Weaving: D. M. Barua; Lecturer in Textile Chemistry: B. Sen; Lecturer in Physics: A. K. Sharma; Lecturer in Textile Design: N. Srikantiah.

THE COUNCIL OF BAPTIST CHURCHES IN ASSAM & MANIPUR

Pan Bazar, Gauhati.

President: Jonathan Thumra; General Secretary: Rev. Edward Singha; Treasurer: Miss Florence E. Wormser.

DIOCESE OF SHILLONG

Bishop's House, Shillong.

Bishop of Shillong: Most Rev. S. Ferrando, S.D.B.; Secretary: Rev. M. Bianchi, S.D.B.

H.R.H. THE PRINCE OF WALES INSTITUTE OF ENGINEERING AND TECHNOLOGY

Jorhat.

Principal: Harendra Nath Barua, B.Sc. (Mining).

INDIAN MEDICAL ASSOCIATION

Assam State Branch

Pan Bazar, Gauhati.

President: Dr. Major G. S. Guha; Vice-President: Dr. R. Goswami; Hon. Secretary: Dr. B. N. Chaudhury.

KAMARUPA ANUSANDHAN SAMITY

Gauhati

President: P. D. Chaudhury, M.A., B.L.; Jt. Secretaries: Dr. P. D. Goswami, M.A., D.Phil., M. C. Das, M.A.

NARAYANI HANDIQUI HISTORICAL INSTITUTE

Department of Historical and Antiquarian Studies in Assam, Gauhati.

Deputy Director & Officer-in-Charge of the Department: Dr. Pratap Chandra Choudhury, M.A. (B.H.U.), Ph.D. (Lond.).

PASTEUR INSTITUTE & MEDICAL RESEARCH INSTITUTE

Shillong.

Director: Dr. R. L. Cunville; Asst. Director: Dr. L. M. Koki; Biochemist: Dr. J. K. Barooah.

SILCHAR SANGEET VIDYALAYA

Silchar (Dis. Cachar).

President: S. M. Deb; Secretary & Principal: S. P. Bhattacharyya.

TOCKLAI EXPERIMENTAL STATION

Cinnamara P.O.

Director: H. Ferguson, B.Sc. (Agr.).

* Besides the list below, there are seven other Colleges.

NAGA HILLS-TUENSANG AREA

Area : 6,331* sq. miles.

Population : 355,000 (approximately). According to the 1951 census figures, Naga Hills-Tuensang (as now constituted) has a population of 2,12,975, but this leaves out the population of 2,005 sq. miles of Tuensang. Only a 50 sq. mile area of Tuensang (then known as Naga Tribal Area) was covered by the 1951 census and the population there was recorded as 7,025.

Headquarters : Kohima.

Administrative Districts with headquarters shown within brackets: Kohima (Kohima); Mokokchung (Mokokchung); Tuensang (Tuensang).

This administrative unit comprising the Naga areas of Assam State and North-East Frontier Agency, that is, the Naga Hills district of Assam and the Tuensang Frontier Division of NEFA, came into being on December 1, 1957, following the acceptance by the Government of India of a resolution passed by a Naga convention at Kohima which advocated this course as a step preliminary to solving the political deadlock there.

The Naga Hills-Tuensang Area is, like NEFA, administered by the President of India through the Governor of Assam. The responsibility for the administration rests with the External Affairs Ministry. The Governor has under him, for this Area, a Commissioner who in turn is helped by three Deputy Commissioners in the three districts and other staff.

The economy of the unit is entirely dependent on its abundant forests. Revenue is derived from house tax and forest produce like bamboo, cane, timber, thatch and 'Agar'. Rice is grown but all other necessities of life have to be imported. The Naga tribes depend on their own cottage industry for cloth but yarn is imported.

The main tribes in the Area are : Angami, Sema, Lhotha, Ao, Rengma, Chakasang, Sangtam, Konyak, Chang, Phom, Yimchunggur, Khimungan.

Education (in November 1958) :

Total number of Lower Primary schools : 377.
Total number of students : 20,728.
Total number of teachers : 744.
Total number of L.P. schools owned by Government : 355.
Total number of Upper Primary schools : 3.
Total number of students : 402.
Total number of teachers : 12.
Total number of U.P. schools owned by Government : 3.
Total number of Middle English schools : 35.
Total number of students : 3,559.
Total number of teachers : 175.
Total number of M. E. schools owned by Government : 35.
Total number of High English schools : 7.
Total number of students : 2,760.
Total number of teachers : 105.
Total number of H. E. schools owned by Government : 7.

Public Health (in November 1958) :

Total number of hospitals : 29.
Total number of dispensaries : 21.
Total number of civil doctors : 57.

Communications : The area is dependent on roads for all its communications. The railhead Dimapur (or Manipur Road) is the starting point of a National Highway which runs through Kohima to Imphal, headquarters of the Union Territory of Manipur and the nearest airport served by scheduled flights of the Indian Airlines.

Roads in November 1958 :

National Highway, from Dimapur to Mao : 64 miles.
Roads capable of taking 3-ton trucks : 200 miles.
Jeepable roads : 526 miles.
Mule paths : 183 miles.
Porter tracks : 166 miles.
Total : 1,139 miles.

Total length of new roads now being constructed : 392 miles.

Revenue and Expenditure : 1958-59 :

Revenue : Rs. 3,00,000.
Expenditure : Rs. 4,74,00,000.

NORTH-EAST FRONTIER AGENCY

Area : 31,592 sq. miles.

Headquarters : Shillong.

Population : The latest census of India, in 1951 did not extend to the whole of the North-East Frontier Agency and only a very small portion of the territory was covered, which now forms part of Assam. These figures are included in the total population of Assam. The population of N.E.F.A. is very roughly estimated now at 650,000.

The North-East Frontier Agency, geographically and constitutionally a part of Assam but administered by the Union Government, is situated on the borders of Bhutan, Tibet and Burma.

The Agency is inhabited exclusively by hill tribes who have only recently been integrated with the rest of India. The main tribes are : Monpas, Sherdukpen, Akas, Apatanis, Dadas, Tagins, Hill Miris, Minyongs, Padams, Gallongs, Membas; Pallihos, Ramos, Bokaros, Boris, Mishmis, Singphos, Khampis, Wanchoos, Nokteys, and seven tribes of Nagas—Konyaks, Phoms, Changs, Sangtams, Semas, Yimchunggurs and Khimungans.

Before Independence the area was practically unadministered. Since August 15, 1947, considerable attention is being devoted to it and it is now administered by the Ministry of External Affairs, with the Governor of Assam acting as the Agent of the President of India under the provisions of the Sixth Schedule (Part B) of the Constitution. The Governor is assisted by an Adviser. The N.E.F.A. is completely separate from Assam administratively.

The Agency Secretariat is situated in Shillong, capital of Assam.

Divisions in the Agency with headquarters in brackets: Kameng Frontier Division (Bomdila); Subansiri Frontier Division (Ziro); Siang Frontier Division (Along); Lohit Frontier Division (Tesu); Tirap Frontier Division (Khela).

Each Division is under the charge of a Political Officer. The Sub-divisions are entrusted to Assistant Political Officers, who have under them Base Superintendents and Area Superintendents. The system of administration has been organised on a single line. At the Secretariat in Shillong the heads of various departments are integrated and in the Divisions, the Political Officers are assisted by all the technical departments. Senior officers of the Agency are drawn from a newly created special cadre—Indian Frontier Administrative Service.

GEOGRAPHY

The North-East Frontier Agency is a wild mountainous country and presents a remarkable topographical variety. The northern regions bounded by the Himalayas are perennially snow-bound. On the east, the hill ranges bordering on Burma stand as formidable slopes. Near Assam State areas the Agency has some plains.

The entire area is intersected by rivers, numbering about 50, including the Dihang, continuation of the Tsan-po of Tibet, which emerges in Assam as the mighty Brahmaputra. About 15,000 sq. miles of the total area, are estimated to be covered by forests.

The fauna and flora are very rich. Wild elephants, buffaloes, tigers and various kinds of deer are found. To the people of the Agency, the mithun, described as a cross between a cow and a buffalo, is most important as it serves as the standard of value and the medium of exchange.

Monsoon sets in from the month of April and continues till October. Rainfall is heavy except in the Monpa-Sherdukpen area.

LANGUAGES AND DIALECTS

Just as a large variety of tribes is found in the Agency, so also a large number of distinct languages and dialects are spoken. A vast amount of research still remains to be done but broadly the following is the list Division-wise (dialects of the main language are given in brackets):

Kameng Frontier Division : Monpa or Brahmi (Monpa, Dirang Monpa, Lish Monpa); Miji; Aka; Khos; Sherdukpen; Dafa; Sulung; Tibetan. **Subansiri Frontier Division :** Dafa; Apatani; Hill Miri; Mikir. **Siang Frontier Division :** Adi (Tagin or Moya, Gallong, Bori, Bokar, Karka, Simong, Milang or Gomru, Bomdo, Pailubu, Ramo, Panggi, Tangam, Padam, Minyong, Pail); Memba. **Lohit Frontier Division :** Khamba; Digaru; Idu (Bebejya Idu); Miju; Singpho; Khapti. **Tirap Frontier Division :** Tangba (Yogli, Tikhak, Lungchang, Moshang, Havi, Lungri, Longphi, Ponthal, Rundra, Muglom); Noktey (Borduria, Soha); Wancho.

Very few of these languages have a script and it is one of the objectives of the Agency Administration in the sphere of education, to provide the people with a medium for writing their languages.

EDUCATION

Education in the Agency is of the Basic type. Some of the schools have already been converted into the Basic pattern and the rest are in the process of conversion.

Due emphasis is laid on instruction in crafts and agriculture. Attached to every school is an agricultural garden where seasonal vegetables are grown by the students through improved methods. Different craftlike carpentry, weaving, cane and bamboo work and soap-making are also practised. The products of these activities may be utilised by the students either for their own use or sold by them for economic gain.

Up to the Primary stage, the mother tongue of the students is sought to be made the medium of instruction in schools, after which Hindi takes the place up to the Xth Class. Assamese is introduced as a compulsory second language from Class VI. Assamese will, however, be retained as the medium of instruction for those students who are using it at present and the switchover to Hindi will be gradual.

The task of preparing text-books in tribal languages is being given great importance. Thirty-four text books for Grade I have been translated into 13 tribal languages and books for Grades II and III are under preparation. A Philological Section in Shillong looks after the accuracy of the translations.

In 1947, when the Department of Education was set up there were only two Lower Primary Schools in the entire Agency. At the end of 1956-57 the situation was :

Number of institutions : Lower Primary—110; Middle English—13; High English—8; Total—126.

A Basic Education Training Institute at Margherita runs reorientation courses for the teachers.

For other statistical data on Education in N.E.F.A., see main article on Education.

COTTAGE INDUSTRIES

The people of the Agency have a great tradition of artistic and cultural self-reliance. The Administration aims at assisting them to develop their capabilities and to improve their standard of living by adopting better technique.

* There is some discrepancy between the figures given by the Central Govt. and the State Govt.

Cottage Industries Training and Production Centres have been opened at 13 places to impart training in weaving, spinning, knitting, carpet-making, carpentry, wood-carving, cane and bamboo work, smithy and pottery. Rearing of silk and *endi* is demonstrated at sericultural farms at three centres.

Till the end of 1956-57, 906 persons were trained in different crafts and 345 more were under training at the beginning of the next financial year. About 100 instructors impart training in crafts and sericulture. Expenditure during 1956-57 : Rs. 5,25,073.

PUBLIC HEALTH

1956-57 :

Main types of disease with number of patients treated within brackets :

Malaria (51,412); Diarrhoea and dysentery (20,741); Goitre (13,456); Venereal disease (2,847).

Number of Hospitals : 30; Number of beds : 561; Number of Leprosy colonies : 3; Number of leprosy patients treated : 191; Number of dispensaries : 36; Number of doctors : 87; Number of Nurses : 15; Number of out-door patients treated : 3,28,270; Number of indoor patients treated : 5,232.

Two B.C.G. teams toured Pasighat area of the Slang Frontier Division of the Agency covering a population of 5,503. The campaign will be carried on until the whole of the Agency is covered.

A Health Training and Research Centre has been started to train rural health workers drawn from the villages.

Expenditure in 1956-57 : Rs. 21,06,850.

AGRICULTURE

Agriculture is the mainstay of the people of the Agency. Generally, the *jhum* system is followed as in the hills of Assam and the yield is not enough to meet the requirements.

A radical change from *jhumming* to permanent cultivation is not considered possible in the difficult terrain of the Agency and the objective

of the Agriculture Department of N.E.F.A. is to introduce permanent cultivation wherever possible and simultaneously to improve *jhumming* on scientific lines.

Since independence, over 23,500 acres of land have been developed for permanent cultivation and 10,000 acres more are proposed to be so developed during the Second Five-year Plan period.

No data are yet available on the total area under cultivation or on the nature and quantity of crop produced.

State help towards agriculturists consists of :

(i) Subsidy towards land reclamation, minor irrigation, purchase of tools, purchase of seeds, purchase of plough bullock, agricultural education and training and purchase of improved cattle, pigs and poultry;

(ii) Technical advice and guidance along with free services with necessary equipment for plant protection, organisation of marketing facilities, organisation of exhibitions, organisation of conducted tours, organisation of crop competitions, organisation of demonstration of improved crops, veterinary aid and livestock upgrading.

LAND TENURE

There is no regular land tenure system in N.E.F.A. as in other settled areas. Each tribe has its own customary system, giving individual as well as joint right on the land as under the jurisdiction of each village. Land belonging to each village is controlled by village elders organised in institutions similar to *panchayats* and they are guided by the old customs which vary greatly from place to place.

As no regular survey has yet been undertaken a detailed description is not available.

COMMUNITY PROJECTS

Community Development and National Extension Service Blocks in the Agency cover 1,200 sq. miles with a total population of 80,454. A special N.E.F.A. type block has been evolved by the Administration with the approval of the Ministry to meet the specific needs of the people with less expenditure. The main emphasis is laid, on self-sufficiency in food, better roads, water supply and sanitation.

COMMUNICATIONS

The difficulty of communications in the densely forested mountainous terrain is one of the major problems in the Agency. The highest priority is assigned to communications so that easy contact may be established with every part of the territory.

The total mileage of roads, paths and tracks in the Agency on March 31, 1957 :

Roads : 533 miles; Bridle Paths : 267 miles; Mule Paths : 297 miles; Porter Tracks : 2,671 miles; Total : 3,768 miles.

On March 31, 1957, seven airfields and three light plane strips were in commission and plans were in hand for five more airfields and two more airstrips. For the development of the interior, carriage of mail and cash and the evacuation of casualties the Administration depends greatly on light aircraft while bigger planes are used for landing or dropping supplies all over the Agency.

A wireless network has been set up to provide quick connection among the various administrative centres and outposts.

POWER DEVELOPMENT

A provision of Rs. 13,00,000 has been made in the Second Five-Year Plan for the development of power in the Agency. Of this amount, Rs. 11,00,000 is for providing diesel generating sets at 15 places for supply of electricity and Rs. 2,00,000 for survey of hydro-electric schemes.

SUPPLY

Air supply in the interior areas of N.E.F.A. commenced in January 1951. The Indian Air Force and chartered companies fly regular sorties to land or air-drop supplies. The total tonnage air-lifted during the calendar year 1956 was 6,881 tons. Up to October 31, 1957, the total tonnage air-lifted was 7,360 tons.

Under a State Trading Scheme all ration and stores for the Agency Service (corps and for sale to the people, are procured centrally at Jorhat, N.E.F.A.'s air base and supplied by air to the interior.

BIHAR STATE

Area : 67,113 sq. miles *

Total Population 38,783,778 *

Capital : Patna

Administrative Divisions :—Patna, Bhagalpur, Tirhut and Chota Nagpur.

* Districts with names of District Headquarters in brackets in each Division :

Patna Division : Patna (Patna); Gaya (Gaya); Shahabad (Arrah).

Tirhut Division : Muzaffarpur (Muzaffarpur); Saran (Chhapra), Champaran (Motihari); Darbhanga (Laheria-sarai).

Bhagalpur Division : Bhagalpur (Bhagalpur); Monghyr (Monghyr), Purnea (Purnea); Santal Parganas (Dumka); Saharsa (Saharsa).

Chota Nagpur Division : Ranchi (Ranchi); Hazaribagh (Hazaribagh); Palamau (Daltonganj); Singhbhum (Chaibassa); Dhanbad (Dhanbad).

Number of Districts : 17; Number of District Boards : 17; Number of Municipalities (including Patna Municipal Corporation) : 49.

Number of Notified Area Committees : 28; Number of notified Panchayats : 8,999 (1956); Names of towns with a population of over 50,000 : Patna, Monghyr, Jamshedpur, Muzaffarpur, Gaya, Chapra, Bhagalpur, Arrah, Ranchi, Darbhanga and Gaya.

(For names, area and population of taluks see this article under the heading Population.)

GEOGRAPHY

Bihar is more thickly populated than Germany. Hindus form an overwhelming majority of the population. Though Muslims form about one-tenth of the total population they constitute more than one-fifth of the urban population of the State. The scheduled tribes account for 10.6 per cent before the enactment of the Bihar and West Bengal Transfer of Territories Act, 1956. These are inhabitants of the Chota Nagpur plateau and the Santal Parganas, the latter district being a continuation of the plateau in a north easterly direction.

Although there is a great deal of mineral wealth in Chota Nagpur and important industries are developing in connection with it, still for the bulk of the population of the State agriculture continues to be the basic occupation. Over 80 per cent of the population depends wholly on agriculture, while only 7.8 per cent depends on industries.

The soil throughout the whole of that portion of the Indo-Gangetic plain lying within the State boundaries is extremely fertile, particularly in North Bihar, in parts of which the density of the population is more than 900 people to the square mile. The State occupies a transitional position between Ganges delta with its damp climate so suitable for the paddy crop and the State to the north and west where large irrigation schemes have had to be provided to enable the soil to produce its bounty. As in the delta of the Ganges, rice is by far the most important crop as it occupies normally an area of approximately 12 million acres or over 50 per cent of the net cropped area of the State. In the circumstances, the importance of the south west monsoon to the State of Bihar cannot be overestimated.

In addition to the rice crop, however, other grain crops are grown on a tolerably large scale. Of the monsoon cereals, maize, wheat and barley are extensively grown. The cultivation

of oilseeds like castor, mustard and linseed forms a large and important part of the agriculture of Bihar.

After Uttar Pradesh, Bihar is the most important white sugar area in India, some one-sixth of the total production of white sugar in the country being turned out in Bihar factories.

Jute has been an important crop and is confined almost entirely to the Purnea District part of which has gone to West Bengal after reorganization.

Tobacco is a crop of increasing importance in the State and one which is likely to expand in importance.

LARGE-SCALE INDUSTRY

The large-scale industries are :

Iron and Steel, Aluminium, Lead, Foundry, General and electrical engineering, Bicycles, Tanning, Leather goods and foot-wear making, Sulphate of ammonia, Hume pipe and R.C.C. products, Asbestos products, Glass and glass-ware, Ceramics, Cement, Heavy chemicals, Woollen textiles, Cotton textiles, Jute textiles, Silk and Art silk, Tobacco, Distilleries, Benzol, Sugar, Food industries, Roller flour mills, Mica and Shellac.

The figures below are for 1957. The first figure shows the number of units and the second the workers.

Iron and steel (6; 32,390); Sugar (34; 21,825); Cement (7; 4,614); Mica (138; 12,122); Bidi (357; 8,742); Coke ovens (5; 1,595); Jute mills (3; 5,916); Cotton mills (7; 1,537); Woollen mills (1; 642); Cigarettes (1; 2,013); Pulp and paper (2; 3,097); Shoes (1; 667); Tannery (1; 287); Rice mills (575; 7,228); Oil mills (377; 2,425); Shellac (80; 1,959).

MINERALS (1956)

Chief Minerals	Quantity
Iron ore	1,849,217 tons
Coal	19,590,347 "
Mica	93,912 cwt.
Manganese	46,482 tons
Kyanite	22,079 "
Asbestos	8,824 cwt.
Copper ore	388,987 tons
Chromite	2,682 "
Steatite	161,207 cwt.
Slate	665 tons
Limestone	1,572,579 "
Igneous rocks	508,274 "
Fireclay	37,375 "
China clay	41,884 "
Silica	15,995 "
Bauxite	50,974 "

The distribution of the minerals is as follows : Coal in Jharia, Bokaro, Kurnapura, parts of Raniganj; iron ore in Noamundi, Gua, Buda Bunde in Singhbhum District; mica in a 90-mile long and 20-mile broad belt extending from Gaya District through Hazaribagh to Monghyr and Bhagalpur Districts; copper at Bakha, Mosaboni, Dhubani and Badia in Singhbhum; bauxite at Fakirpat, Serendag in Ranchi District and at Netarhat in Palamau District; limestone at Banjar, Rohtas, Banlia in the districts of Shahabad, Palamau, Hazaribagh and Singhbhum; China clay in Singhbhum, Dhanbad, Bhagalpur and Santal Parganas; Fire clay at Jharia and Daltonganj in Monghyr and Singhbhum Districts; manganese in Singhbhum District; kyanite at Lapsa Bura, Ghagdi, Kanyaluka in Singhbhum and Dhanbad Districts; steatite at Belaipahari, Digha, Bhitardari and Narda in Singhbhum District and Fakhukata in Dhanbad District; chromite near Chaibasa; pyrites in Shahabad District; graphite in Palamau and Chota Nagpur; apatite at Nandup, Pathargara, Badia, Sunrui in Singhbhum District; antimony at Hiasu in Hazaribagh District; asbestos at Barhans and Saranghori in Seraikella State and in Monghyr District; ochre in Singhbhum District and in Rajmahal hills in Santal Parganas; tungsten at Tatanagar; uranium deposits have also been located in Bihar.

Workers employed in mines in 1956* : Iron ores—13,602; Coal—177,303; Mica—19,336; Kyanite—2,284; Manganese—1,036; Chromite—318; Copper ore—4,070; Asbestos—208; Limestone—7,192; China clay—2,571; Stone (igneous rock)—3,040; Fire clay—262; Bauxite—425.

AGRICULTURE

The following statement shows the figures of out-turn of principal crops obtained by crop cutting and eye-estimation during 1956-57 (in thousand tons) :—

Paddy (autumn and winter) 4,632; Wheat 137; Gram 251; Barley 107; Maize 383; Masoor 18; Arhar 48; Khesari 232; Peas 12; Sugarcane 3,673; Potato 251; Tobacco 7; Jute 1,378 (bales); Chillies 6; Rice 3,088.

The following figures show areas under principal crops in 1956-57 (in thousand acres) :—

Rice 12,346; Wheat 1,832; Gram 1,981; Barley 922; Maize 1,553; Masoor 275; Arhar 316; Khesari 1,762; Peas 100; Sugarcane 403; Tobacco 41; Potatoes 123; Jute 689, Chillies 57; Marus 364.

During 1957-58 Bihar, one of the five top producers of rice among the States, produced 2,198,000 tons of rice.

There are about 4 lakh cane-growers in Champaran, Saran, Darbhanga and Muzaffarpur. Tobacco is grown in Muzaffarpur, Monghyr, Purnea, Darbhanga, and jute in Purnea part of which has gone to West Bengal after reorganization.

Variety of fish produced (inland) : Carg, Cat-fishes, feather backs, Murrells and miscellaneous.

Estimated production of fish : 10 lakh maunds valued at Rs. 7 crores approximately.

Estimated fishing population: 22 lakhs.

There were 275 Blocks in March 1958. Of these 205 were C. D. Blocks of stage I, 23 of stage II and 47 C. D. Blocks of the old pattern.

* After transfer of territory to W. Bengal.

They covered 37,718 villages with an area of 32,450 square miles and a population of 182·20 lakhs.

As at end of June 1958, the money value of the peoples' contribution was estimated at Rs. 9·21 crores as against Government expenditure of Rs. 8·94 crores.

FORESTS (1955-56)

Total forest area : 13,286 square miles. Types of forests : Mainly sal.

Total revenue from forests for 1956-57 : Rs. 1,04,60,582 and total expenditure : Rs. 1,05,22,448.

The following is the latest information available, 1956-57 :

Main forest produce	Quantity
Timber	3,248,000 c.ft.
Fuel	4,086,000 "
Bamboo	9,173,000 Nos.
Sabalgrass	22,255 mds.

Three afforestation divisions have been functioning in the State since 1951. An area of 5,659 acres was afforested upto 1956-57.

LIVESTOCK : According to the 1956 livestock census the State of Bihar after reorganization of its boundaries possesses 2·62 crores of animals as detailed below :

1. Cattle : 14,398,399.

(i) Adult oxen : 6,379,154 ; (ii) Adult cows : 4,301,393 ; (iii) Young stock : 3,717,852.

2. Buffaloes : 3,426,450.

(i) Adult he-buffaloes : 683,402 ; (ii) Adult she-buffaloes : 1,618,700 ; (iii) Young stock : 1,124,348.

3. Sheep : 1,051,342
4. Goats : 6,524,732
5. Other animals : 841,087

Total : 28,242,010

6. Poultry : 8,638,494.

TRANSPORT

Total mileage of roads : 7,941 miles ; metalled roads : 5,378 miles ; unmetalled roads : 2,563 miles.

Total mileage of waterways : Length open to navigation : 900 miles.

State transport, by name Rajya Transport, operates in the whole of south Bihar except in the district of Daltonganj.

It has a fleet of 490 buses. The fare is 7½ ples per passenger mile exclusive of a sales tax of 12½%.

The area is divided into four Divisions : Patna, Gaya, Bhagalpur and Jamshedpur. Every Division has its own workshop and stores. The Central Workshop and Stores are at Phulwarisharif Camp Jail in Patna.

The State Government have decided to form a Road Transport Corporation with Railways as 25 per cent shareholders and it is expected that the Corporation will come into being at any time in 1959.

Statistics for the year ending 1957-58:

Number of Routes operated	105
Route Mileage	4,433
Total Fleet	490 } 120 petrol 370 diesel
Operating Fleet	322
Total Schedules	288
Total effective mileage	1,00,98,905
Total Passengers Carried	2,48,64,191

IRRIGATION

Area irrigated by Government Irrigation works : 948,458 acres ; private canals : 566,393 ; tanks : 595,288 ; wells : 524,741 ; other sources : 1,748,979 (1956-57).

The area under assured irrigation before the inception of the First Plan was 8·98 lakh acres in South Bihar and 1·39 lakh acres in North Bihar. Area added during First Plan was 3·64 lakh acres in South Bihar and 2·81 lakh acres in North Bihar. Target for the Second Plan is 6·55 lakh acres in South Bihar and 0·24 lakh acres in North Bihar.

Expenditure under assured irrigation before the First Plan was Rs. 343·44 lakhs in South Bihar and Rs. 106·56 lakhs in North Bihar. Expenditure during the First Plan was Rs. 758·03 lakhs in South Bihar and Rs. 326·05 lakhs in North Bihar. Expenditure during the Second Plan will be Rs. 1,476·91 lakhs in South Bihar and Rs. 415·00 lakhs in North Bihar.

The larger Irrigation works are Son Canal System in Shahabad, Patna and Gaya districts ; Tribeni Canal (recently expanded and extended) and Dhaka and Teer Canals in Champaran District ; Sakri Canal in Gaya, Patna and Monghyr Districts ; Saran Canal (recently renovated) in Saran District ; Kamala Canal in Darbhanga District ; Kosi and Durgawati Irrigation Schemes (completed), Kohra Reservoir (under execution) in Shahabad District ; Jamini Kola, Semaria-Gurgawan Embankment-cum-Irrigation Scheme, Mayurakshi Left Bank Canal in Santal Parganas ; Panchana, Sirnawa,

Lokain, Bhartua-Nandan Kulti Irrigation Schemes (Completed) and Panchana Phase II Scheme (under execution), in Patna District ; Batana, Chariari, Mahugain, Nitane, Hulla, Keshwar River Scheme, Jamunia Irrigation Scheme and Upper Morhar Irrigation Scheme (completed) and Lilajan, Adri, Dhawa and Lower Morhar Irrigation Scheme (under execution) in Gaya District ; Ajan, Gidheshwari, Ganalli, Kundghat, Kharagpur Lake, Kaurihari, Nagi and Lower Kuli in Monghyr District ; Sonhula Tarar, Gebua Weir, Khajia Danr (Phase I), Mahmuda, Chandan Bhasi, Khalkhalia Embankment and Khajia Phase II Scheme (completed) and Chandan Phase I and Badua Scheme (partly in Monghyr district) under execution in Bhagalpur District ; Arandh, Bucha opa, Kita and Rajia Irrigation Scheme (completed) and Kanchi Weir and Hata Water Supply Schemes (under execution) in Ranchi District ; Charwa, Gonda, Jurga, Jamunia, Ghaghra Irrigation Schemes (completed) and Lotia and Kuti Pisi Irrigation Scheme (under execution) in Hazaribagh District ; Sadabah, Kararbar, Batre and Chordanda Schemes (completed) and Jinjoi, Chako Adra and Sonre (Karar) Irrigation Scheme (under execution) in Palamau district ; and Kaida, Brahmini and Sonua Irrigation Scheme (completed) and Torlow, Boro and Rajbandh Irrigation Scheme (under execution) in Singhbhum district.

Besides this the Irrigation Department have constructed 946 State Tubewells in all, 496 of which are located in South Bihar and 450 in North Bihar.

TRADE

Statement showing exports and imports during 1956-57. The first three items in numbers, rest in maunds.

Article.	Exports.	Imports.
Horses, ponies, mules	75	29
Cattle (excluding sheep and goats)	68,514	51,610
Sheep and goats	99,788	2,972
Bones	171,413	4,755
Cement	12,842,752	731,028
Coal and coke	2,91,731,054	29,078,005
Cotton twist and yarn	8,588	148,411
Cotton piecegoods	11,989	548,057
Dyes and tans	9,776	2,219
Fruits dried	24,213	117,769
Glass	272,345	101,793
Maize	52,252	689,325
Jawar and Bajra	20,980	124,415
Hemp, Indian and others	22,632	9,495
Hides	371,277	18,785
Skin	30,236	831
Hides and skins (tanned) and leather	19,103	10,936
Jute (loose)	87,898	5,023
Jute (Fucca bales)	4,540,048	52,634
Gunny bags and cloths	450,916	455,893
Iron and steel bars, sheets, girders	15,885,805	5,332,926
Lao and shelles	39,857	64,005
Manganese ore	2,411,851	8
Oil cakes	424,860	554,445
Kerosene oil	76,824	3,514,530
Vegetable oil	—	—
Coconut oil	13,502	69,725
Castor oil	14,446	7,342
Groundnut	40,412	238,877
Salt	83,599	4,164,936
Sugar	2,885,009	888,298
Gur	577,465	346,147
Tea	16,841	43,515
Tobacco (raw)	309,345	101,513
Wood and timber including teak	2,541,056	1,628,805

A number of Chaur Drainage Schemes has also been constructed involving an expenditure of Rs. 100·47 lakhs to reclaim about 2 lakh acres of depressions for Rabi cultivation.

The total water resources available in the State of Bihar is 26·99 million acre ft. of which 9·57 million acre ft. can be utilised for assured irrigation of 41·32 lakh acres at an estimated cost of Rs. 79·59 crores.

North Bihar abounds in snow-fed rivers and the problem there is primarily that of flood control. Irrigation is provided only in pockets, where the rainfall is erratic and where the area is made partially or wholly flood free. For tackling these problems, North Bihar has been divided into six river basins, viz., (i) Basin between Gogra and Gandak, (ii) Basin between Gandak and Burhi Gandak, (iii) Basin between Kamla and Kosi and (iv) Basin between Kosi and Mahananda.

Most of the important rivers of North Bihar have already been embanked or are scheduled to be embanked in the near future with provision of Irrigation-cum-Drainage sluices in the embankments. For this, a separate master plan for flood control has been prepared at an ultimate cost of Rs. 70 crores. Irrigation Schemes have been planned for utilising 12·4 million acre ft. of the water resources available in North Bihar including the Kosi and Gandak Projects which will bring under assured irrigation 59·64 lakh acres of arable lands at an approximate cost of Rs. 65 crores.

The Master plan for irrigation in Bihar envisages assured irrigation facilities for 100·86 lakh acres of the total 253 lakh acres of arable land in the State at an estimated cost of Rs. 144 crores.

In addition to this, there are also minor irrigation schemes costing less than Rs. 1 lakh each. These schemes are likely to bring under irrigation 50 lakh acres of land at an estimated cost of Rs. 140 crores.

Flood Control Schemes have been undertaken by the State Government at a cost of Rs. 1,279 lakhs and 943·33 miles of additional embankment is nearing completion from which 26·49 lakh acres of land will be protected by the end of the Second Plan.

Flood control is mainly confined to North Bihar. An area of 24·87 lakh acres was protected from flood before the inception of the First Plan. An additional area of 0·96 lakh acres was protected from floods during the First Plan. During the

2nd Plan an additional area of 20 lakh acres will be protected from floods.

Under the drainage scheme 37 lakh acres were reclaimed in North Bihar before the First Plan and 43 lakh acres during the First Plan. During the Second Plan 1·84 lakh acres are to be reclaimed.

There are 32 schemes for implementation during the Second Plan period including the Kosi Project. Of these 14 are new and the rest are spill-over from the First Plan period.

Power Projects Continuing Schemes

Scheme	Scope	Date of beginning	Date of completion	Amount provided in 2nd Plan (Rs. lakhs)
Utilisation of D.V.C. Power in Patna-Gaya area ..	Patna & Gaya Districts ..	1951	1959	11·29
Utilisation of D.V.C. Power in Dehri-Aurangabad, Bhabua & Buxar area ..	Gaya, Palamau & Shahabad Districts	1954	1959	50·87
Extension of supply to Cement Works at Khelari & Coal Mines in Bokaro area ..	Hazaribagh District	1954	1959	25·77
Electrification of Mini-Chakradharpur-Chalbaria and Gua area ..	Singhbhum District	1954	1959	29·96
Extension from Malthon to Jamalpur-Monghyr-Bhagalpur Sahelganj ..	Monghyr, Bhagalpur and Santhal Parganas	1954	1961	196·67
Electrification of Dumka and adjoining area ..	Santhal Parganas	1954	1959	1·57
Extension of supply to Katthar, Kishunganj, Saharsa and Baiganj in North Bihar	Purnea, Saharsa and Muzaffarpur Districts	1954	1959	45·57

NEW SCHEMES

Scheme	Scope	Date of beginning	Date of completion	Amount provided in 2nd Plan (Rs. lakhs)
Electrification of towns villages in mining areas of Singhbhum district ..	Singhbhum District	1956	1961	64·60
Extension of power supply to Mica Mines area ..	Hazaribagh and Monghyr Districts ..	1956	1961	54·16
Power Development in Coal Mines area of Manbhum, Ranchi, Hazaribagh and Palamau districts ..	Dhanbad, Hazaribagh, Ranchi and Palamau Districts ..	1956	1961	133·62
Electrification of Jamtara, Karmataur and extension to Madhupur, Deoghar & Giridih area ..	Santhal Parganas District	1956	1961	53·20
Extension of Elec. Supply to Shahabad District for utilising D.V.C. Power ..	Shahabad District	1956	1961	117·80
Extension to Patna and part of Monghyr District for utilising D.V.C. Power ..	Patna and Monghyr	1956	1961	74·10
Electrification of Pakur and extension to Dumka and surrounding area ..	Santhal Parganas District ..	1956	1961	21·85
Power Development in Rural and urban areas of Bhagalpur, Santhal Parganas and Monghyr districts ..	Bhagalpur, Santhal Parganas and Monghyr	1956	1961	128·35
Utilisation of D.V.C. Power in Gaya District ..	Gaya	1956	1961	120·70
Steam Station in North Bihar	Monghyr, Darbhanga, Muzaffarpur, Saran	1956	..	203·55
Distribution extension under Steam Station in North Bihar ..	Monghyr, Darbhanga, Muzaffarpur, Saran	1956	1961	180·50
Taking over of derelict supply undertakings, their development and loans to licensees	Entire State	1956	1961	141·55
Rural Electrification in Bihar	Entire State	1956	1961	158·70

Progress of Electrification as for 1957-58 :

	1957-58	Targets for 1961
Total expenditure (Progressive) (rupees in lakhs) ..	1,755·007	2,973
Miles of H.T. lines ..	5,249	8,250
Miles of L.T. lines ..	1,995	4,600
Number of sub-stations ..	2,289	5,000
Number of consumers ..	64,249	1,60,000
Number of villages and towns ..	790	1,600
Number of tube-wells and surface wells ..	2,402	3,000
Demand in kW ..	62,200	1,60,000
Number of units sold (million kWh) ..	143·3	250
Gross revenue collected (rupees in lakhs) ..	168·66	500

LAND TENURE

The land tenure system in Bihar is governed by the following Tenancy Acts: The Bihar Tenancy Act, 1885, The Chota Nagpur Tenancy Act, 1908 and the Santhal Parganas Tenancy (Supplementary Provision) Act, 1949. The above Acts protect all types of raiyats against eviction and ensure special privileges to scheduled castes and scheduled tribes against alienation.

The raiyats are classified as raiyats at fixed rents or rates and occupancy raiyats. A very small area is held by non-occupancy raiyats who have no permanent and heritable interest in their holdings. There is also a small number under raiyats having occupancy rights holding of lands both under raiyats at fixed rents and under occupancy raiyats.

The Government of Bihar enacted the Bihar Land Reforms Act, 1950 which provides for the liquidation of Zamindari system in the State.

The Bihar Land Reforms Act, 1950 was put into force with effect from 25th September 1950, and now all intermediary interests have been acquired by the Government. Actually the vesting of the estates started from May 1952. The Zamindari system in Bihar now stands completely abolished.

The Government has laid down a sliding scale for the assessment of compensation. Where the net income does not exceed Rs. 500, the compensation payable is twenty times the net income, and where the net income computed exceeds Rs. 1,00,000 it is payable at three times the amount.

The total compensation is estimated at more than Rs. 150 crores. Provision has been made for the payment of ad interim compensation.

The assessment of compensation for mines and minerals has either to be fixed by agreement or by a tribunal appointed for the purpose.

As for funds to finance compensation, the proposal for Zamindari abolition in Bihar has been drawn up as a self-liquidating scheme. So all the compensation money will be realised from the beneficiaries.

The gross rental from the agricultural land and from salrati and other sources in the State is likely to be about Rs. 12 crores, which is likely to increase further as a result of reclamation of waste lands, the development as well as expansion of the forests, mines, salrats, etc.

The amount of compensation will be paid in cash or in bonds or partly in cash and partly in bonds. The bonds will be either negotiable or non-negotiable and non-transferable, and will be payable in forty equal instalments, and carry interest at two and a half per cent per annum with effect from the date of issue.

The maximum rent that a tenant has to pay to the landlord, has been fixed at 85 per cent of the gross produce. The tenant in Bihar has the option to pay rent in cash or kind.

Official statistics show that agricultural production has increased because of the new systems of tenure, the increase being estimated at 722,000 tons at the end of the First Plan.

Legislation for imposing a ceiling on existing or future agricultural holding has not been enacted in the State. The matter is under active consideration of the Government.

The Bihar Consolidation and Prevention of Fragmentation Act, 1956, provides for the consolidation of holdings and prevention of fragmentation. Actually some pilot projects have been taken up and it is expected that at the end of the Second Plan, about 20 lakh acres of land will be consolidated.

Reclamation

About 99,000 acres of vacant and waste lands have been settled with about 60,000 families belonging to the scheduled castes, scheduled tribes and backward classes (of list I). All waste and vacant lands of Government for agricultural purposes have been kept earmarked for settlement with the members of these three classes and no premium is charged from them at the time of settlement which is made on a permanent basis.

For restoring lands to the tenants who lost them in the Kosi area and also some tenants who lost these in the district of Ranchi, two special Acts were enacted in this State. One is Kosi Area Land Restoration Act, 1951 and the other is the Ranchi District Tana Bhagat Baiyats Agricultural Lands Restoration Act, 1947. For restoration of lands to the privileged persons, namely persons holding one acre of land or less besides homestead, the Bihar Privileged Persons Homestead Tenancy Act, 1947 was passed. This Act is meant primarily to give relief to the privileged tenants most of whom belong to the scheduled castes, scheduled tribes and backward classes of list I.

This is being carried out through the Waste Land Reclamation Department on Government waste and vacant lands and also on lands donated in the Bhoodan Yagna. The Waste Land Reclamation Department has already reclaimed more than 3 lakh acres of land and several Blocks have been set up for rehabilitating the landless agricultural labourers with whom lands also are settled for agricultural and homestead purposes.

Bhoodan

About 23 lakhs acres of land have been donated to the Bhoodan Yagna in this State and legislation known as Bihar Bhoodan Yagna Act, 1954, was passed which regulates the transfer of Bhoodan lands to the Committee and also the administration of these lands. A Committee known as the Bihar Bhoodan Yagna Committee has been set up under the Act, consisting of not more than nine members including Mr. Jai Prakash Narayan, Dr. Shri Krishna Sinha (Chief Minister) Bihar, and Pt. Binodanand Jha (Minister, Revenue) as members.

Under the Bhoodan Yagna movement about 3 lakhs of acres have been distributed already among the landless labourers. For the rehabilitation of Bhoodan tenants, ten pilot projects at a cost of Rs. 2½ lakhs are under execution through Co-operative Societies. There is also another scheme under execution at a total cost of Rs. 30 lakhs which will rehabilitate 10,000 Bhoodan families who are mostly landless.

Scarcity and Relief Operations: The State suffered in 1957-58 drought due to heavy damage to rabi crop. It was followed by another drought due to failure of paddy crops. The entire State was affected in varying degrees. The total short-fall in the yield of the rabi crops of 1958-59, as compared to the annual average production of the 5-Year period ending 1956-57, was 2,22,278 tons. From the beginning of the year 1957-58 to the pre-Bhadral period of 1958-59, there was a total short-fall in production of over 18.6 lakh tons as compared to the average annual production of the five years ending 1956-57.

The amount of expenditure incurred by the State Government on various relief operations came to Rs. 3,00,50,526 during 1957-58 and to Rs. 6,49,77,148 during 1958-59 upto 19th November 1958.

The State Government and millions of peasants did their best in saving as much of the standing crop as they could with the limited sources of irrigation available to them. Pumps, canals and tubewells were worked to capacity and every ounce of water available near the fields was diverted to save the paddy crop.

The Government had collected seeds for the spring crop and provided cash to the peasants who were unable to buy seeds without Government aid.

CO-OPERATION

Figures as on 30-6-1957 :

Number of Co-operative Societies: 23,853; Membership: 1,042,120; Working capital: Rs. 13,64,79,570; Share capital: Rs. 2,15,63,323; Reserve Fund: Rs. 1,38,59,302

Types of Co-operative Societies and number of each type: Provincial and Central banks 47 other Central Societies 110; total Central Societies 157; Primary Credit Societies with limited liability 17; Primary Credit Societies with unlimited liability 1,302; multipurpose (1957): 11,791 (registered); 333 (converted); Weavers' Co-operative Societies (1957): 989 (as on 30-6-1958); sales emporia 106 (as on 30-6-1958); Vishwakarma 42; oilmen's 149 (1957); vegetable growers 64; fishermen's 68; primary stores 337; teachers' stores 168; Harijan Co-operative 55; Cane Marketing unions 69; Cane Growers' Co-operative Societies 7,868; Milk Societies 20; Industrial Societies other than Vishwakarma Industrial Societies: 98; Ghee Producers' Societies: 5; Palm Gur Producers' Societies: 14; Jute Growers' Societies: 12; Biri Workers' Society: 1 (1957); other types including consumers' stores, and Teachers' Co-operative Societies: 183.

Position about multipurpose Societies as on 30-6-1957 is as follows: number of members 4,01,102; paid up share Capital Rs. 33,80,311 reserves Rs. 14,33,766; loans to financing banks and others Rs. 95,15,706.

Bihar State Co-operative Bank: paid up shares Rs. 44,21,100, deposits Rs. 1,62,11,766, loans from other sources Rs. 72,12,668, reserves Rs. 17,12,847, working capital Rs. 2,95,58,381, loans to central banks and societies Rs. 1,49,06,750.

Weavers Societies: Number 789; value of goods produced Rs. 2,48,91,676; value of goods sold Rs. 2,64,97,221.

Consumers' Co-operative Stores, number 337. The apex organization of all Co-operative Societies is the Bihar Co-operative Federation, the annual Government grant for which is about Rs. one lakh.

ANIMAL HUSBANDRY

At the end of the year 1956-57 there were 288 veterinary hospitals and dispensaries including 10 mobile veterinary dispensaries in the State.

HEALTH SERVICES

The following particulars are for 1957 :

Allopathic hospitals 100; Allopathic dispensaries 689; Beds in allopathic hospitals 7,400; Ayurvedic and Unani dispensaries 223 and 11 respectively; T.B. hospitals 5; Mental hospitals 2; Beds in T.B. hospitals 741 and in Mental hospitals 1,830.

Allopathic doctors 6,378 (1958); Nurses 432 (1958), Trained dais in urban and rural areas 480; Compounders 1,908; Ayurvedic and Unani doctors 476; Nurses 276; Compounders in Government employment 236.

Number of Medical Colleges (Allopathic) 2; Government Ayurvedic 1; Private 2; Government Unani 1.

At the end of 1957 there were 855 Hospitals and Dispensaries, out of which 201 were maintained by the State Government and 654 by District Boards.

There were 40 first class medical officers, 750 assistant surgeons, 190 sub-assistant surgeons, 432 nurses, 108 mid-wives, 206 dais.

741 beds in all were available for T.B. patients. There is one sanatorium at Itki, two at Ranchi, one at Kailwar and a T.B. Centre in Patna. The total number of B.C.G. tests and vaccinations upto December 1957 were 1,09,92,652 and 62,12,059 respectively.

There is a leprosarium at Brahmba near Ranchi with a provision for 75 beds.

A separate infectious diseases hospital has been opened in Patna city.

20 malaria control units each covering a population of one million are working at an estimated cost of Rs. 31 lakhs.

20 epidemic doctors and 100 health assistants are permanently maintained at the divisional headquarters in addition to 30 doctors and 210 health assistants appointed temporarily during the epidemic season.

450 vaccinators are working in a mass vaccination scheme to re-vaccinate the entire population at a cost of Rs. 16,000.

Training facilities for M.B.B.S. are available for 160 persons, for nurses 220, auxiliary mid-wives 150, compounders 400, dressers 60 to 70, operation room assistants 8, dais 375, sanitary inspectors 75, health inspectors between 100 and 120 and lady health visitors 60 each year.

LABOUR

Average daily number of workers in registered factories in 1957: 1,79,693; number of factories: 5,430 (1957).

Number of women employed in non-season factories in 1957: 9,768.

Industries in which minimum wage is fixed: Agricultural employment; Woollen carpet making and shawl making; Rice, flour, dal and oil milling; Bidi making; Lac manufacturing; Road construction and building operation; Stone breaking and stone crushing; Employment in public motor transport; Tanneries and leather manufacturing; Mica works; Tea plantations; Employment in local bodies.

Number of strikes: 67 (1957).

Number of lockouts: Nil.

Number of man-days lost: 4,67,998 (1957).

Number of workers involved: 48,199 (1957).

Number of Disputes settled by conciliation: 47 (1957).

Number of awards: 29 (1957).

Important State laws affecting industrial labour: Bihar Maternity Benefit Act, 1947; Bihar Workmen's Protection Act, 1948.

Number of registered trade unions (upto October 1958): 558.

Total membership of trade unions: 2,91,945 (1955-56).

Total amount of maternity benefits given to women workers during 1957: Rs. 78,648-53 nP.

Total amount of compensation paid in 164 fatal cases in 1957: Rs. 3,15,413-20 nP.; in 313 permanent disablement cases: Rs. 1,74,820-05 nP. Compensation paid to temporary employees for injuries in 1957: Rs. 2,44,772-65 nP.

Number of temporary disabled persons: 6,058.

Number of labour welfare centres: 41 (including six model State welfare centres) (1957-58).

Under the Second Five-Year Plan, the State Government have been implementing the Subsidised Industrial Housing Scheme by constructing 4,371 tenements at an estimated cost of Rs. 170 lakhs. The projects are distributed as follows:—

1. Katihar (Purnea—Jute Mill etc.) 200 tenements Rs. 7½ lakhs.

2. Jamshedpur—1,140 tenements: Rs. 44 lakhs.

3. Adityapur (Jamshedpur) 2,012 tenements: Rs. 77-88 lakhs.

4. Mugma (Dhanbad) 100 tenements Rs. 3,57,000.

5. Kumar Dhubi (Dhanbad) 575 tenements: Rs. 21,17,500.

6. The details of the remaining projects are being worked out.

The work on the Katihar Project is in full swing while that at Jamshedpur has begun. The other schemes are to start soon.

EDUCATION (1954-57)

On March 31, 1957 there were 29,685 primary schools with 49,217 teachers and 16,53,992 pupils. The State Government provide free education upto class V i.e. upto the primary stage. Free and compulsory primary education continued to be imparted in 16 towns in urban areas and in 19 villages in the rural areas. Compulsion is in respect of boys only of the age-group 6-10.

The percentage of pupils of the age-group 6-11 would be about 30 in 1956-57. Age group 11-14: 14 per cent.

There were 3,379 Middle and Senior Basic Schools with 18,444 teachers and 4,37,858 pupils. The number of High and Post-Basic Schools stood at 1,053 with 12,015 teachers, and 3,03,133 pupils. There were 7 Nursery Schools imparting pre-primary or pre-basic education with 18 teachers and 383 pupils on roll.

Since its inception in 1938, the scheme of Basic education has made rapid strides. There are 21 Post-Basic schools, 619 Senior Basic schools, 1,657 Junior Basic schools, 62 Junior and Senior Training schools and 3 Basic Training colleges. The Rural Institute of Higher Studies continued to impart higher rural education at the University stage to pupils completing the post-basic stage.

There are two universities, namely (1) the Patna University, a purely teaching university, its jurisdiction comprising the area of the Patna Municipal Corporation and (2) the Bihar University, a teaching-cum-affiliating university for the rest of Bihar having its present headquarters at Patna.

The control over High Schools is exercised through the Board of Secondary Education which accords recognition to schools and also distributes the grants sanctioned by Government.

The conduct of the Secondary School Examination (the final public examination after the completion of secondary stage) as a qualifying examination for admission to the collegiate course, is in the hands of an independent body, namely the Bihar Secondary School Examination Board.

Students are taught through their mother-tongue upto Class VII. Hindi is the medium of instruction from class VIII to XI. Teaching of Hindi as compulsory subject begins from Class IV. From January 1959, English may be taught as an optional subject from Class VII.

The percentage of literacy in the State as a whole is 12-23.

(For more details like number of institutions, etc. see the main article on Education).

BUDGET 1958-59

See under 'Late Particulars'.

POPULATION

	Total	Males	Females	Rural	Urban
1. Patna	2,528,272	1,297,266	1,231,006	2,070,478	457,794
2. Gaya	3,070,499	1,535,362	1,535,137	2,853,807	216,692
3. Shahabad	2,688,440	1,358,443	1,329,997	2,507,861	180,579
4. Saran	3,155,144	1,501,253	1,653,891	3,028,986	126,158
5. Champaran	2,515,343	1,267,406	1,247,937	2,410,483	104,860
6. Muzaffarpur	3,520,739	1,730,750	1,789,989	3,385,043	135,696
7. Darbhanga	3,769,534	1,844,201	1,925,333	3,609,443	160,091
8. Monghyr	2,849,127	1,434,824	1,414,303	2,582,010	267,117
9. Bhagalpur	1,429,069	728,681	700,388	1,307,024	122,045
10. Saharsa	1,308,198	672,677	635,521	1,308,198	—
11. Purnea	2,247,943	1,174,397†	1,073,546†	2,163,481†	84,462†
12. Santhal Parganas	2,322,092	1,172,594	1,149,498	2,225,312	96,780
13. Hazaribagh	1,937,210	981,264	955,946	1,804,084	133,126
14. Ranchi	1,861,207	938,255	922,952	1,736,162	125,045
15. Dhanbad	905,783	498,044†	407,739†	822,693†	83,090†
16. Palamau	985,767	498,564†	487,203	948,760	37,007
17. Singhbhum	1,585,195	855,322†	829,873†	1,385,139†	200,056†

† Estimate figures on the basis of 1951 census.

Area in sq. miles of the Districts in the State: Bhagalpur 2,179; Champaran 3,553; Darbhanga 3,345; Dhanbad 1,114; Gaya 4,766; Hazaribagh 7,010; Monghyr 3,975; Muzaffarpur 3,018; Palamau 4,930; Patna 2,164; Purnea 4,299; Ranchi 7,015; Saharsa 2,088; Santhal Parganas 5,461; Saran 2,669; Shahabad 4,404; Singhbhum 5,123.

Names of the Districts with the names of the taluqs, area in sq. miles and their population respectively within brackets: Patna District (Patna city: 30; 161,870; Patna Sadar: 295; 466,450; Dinapur: 437; 533,552; Barh: 572; 532,010; Bihar: 782; 834,390); Gaya District (Sadar: 1,911; 1,178,039; Nawada: 951; 613,724; Jahanabad: 607; 582,567; Aurangabad: 1,270; 696,115); Shahabad District (Sadar: 920; 885,270; Buxar: 683; 536,754; Sasaram: 1,493; 826,728; Bhabua: 1,237; 440,138); Saran District (Sadar: 1,043; 1,256,306; Siwan: 849; 1,075,948; Gopalganj: 786; 822,854); Champaran District (Sadar: 1,528; 1,443,061; Bettiah: 1,097; 1,071,382); Muzaffarpur District (Sitamarhi: 1,007; 1,201,086; Sadar: 1,222; 1,377,181; Hajipur: 786; 942,472); Darbhanga District (Madhubani: 1,504; 1,361,699; Sadar: 890; 1,078,089; Samastipur: 1,128; 1,329,748); Monghyr District (Khangaria: 757; 584,902; Begusarai: 715; 793,942; Sadar: 1,168; 937,204; Jamal: 1,303; 533,079); Bhagalpur District (Sadar: 992; 841,309; Banka: 1,194; 587,760);

Saharsa District (Rupaul: 987; 431,547; Madhepura: 1,156; 876,651); Purnea District (4,239; 2,247,943); Santhal Parganas District (Deoghar: 951; 422,824; Dumka: 1,474; 537,200; Godda: 854; 447,976; Jamtara: 696; 290,056; Rajmahal: 846; 346,615; Pakur: 699; 277,421); Hazaribagh District (Sadar: 3,404; 974,494; Chatra: 1,544; 262,514; Giridih: 2,046; 700,202); Ranchi District (Sadar: 2,069; 744,423; Khunti: 1,545; 412,950; Gumla: 2,056; 421,922; Simdega: 1,247; 281,912); Dhanbad District (1,111; 905,783); Palamau District (Sadar: 3,250; 784,207; Latehar: 1,671; 201,560); Singhbhum District: 5,102; 1,685,195.

BIHAR UNIVERSITY

Patna-4.

Founded 1952.

Chancellor, Dr. Zakir Hussain, M.A., Ph.D.

Vice-Chancellor, Dr. Dukhan Ram, B.Sc., M.B. (Cal.), D.L.O., D.O.M.S. (Lond.).

Treasurer, Rameshwar Prasad Singh, B.A., M.L.O.

Registrar, Pinak Pani Roy Choudhury, B.Sc.

Controller of Examinations, Amarendra Narayan, M.Sc.

Inspectors of Colleges, Dr. Biman Bihari Majumdar, M.A., Ph.D., F.R.S.; Vacant.

Deputy Controller of Examinations, Dinesh Prasad Verma, M.A.

The Bihar University is a teaching-cum-affiliating University.

Provision for teaching up to the Post-graduate standard has been made in the following subjects: English, Hindi, History, Economics, Political Science, Geography, Physics, Chemistry, Psychology, Philosophy, Sanskrit, Anthropology, Sociology, Rural Economics and Co-operation, Commerce, Botany, Zoology, Mathematics and Statistics. Scholars work under Professors and submit their theses for research degrees.

Number of colleges affiliated: Constituent Colleges: 2; Affiliated Colleges: 78.

Number of students: 56,272.

Income. (1958-59 budget estimates): Rs. 1,00,37,404.

Expenditure: Rs. 1,04,01,782.

Grant from the State Government: Recurring Rs. 44,62,554; Non-recurring Rs. 24,50,000.

Colleges: (A) Constituent Colleges: Langa Singh College, Muzaffarpur; Ranchi College, Ranchi; T. M. J. College, Bhagalpur (only the University Department). (B) Affiliated Colleges: (i) Technical and Professional Colleges: Bihar Agricultural College, Sabour (Bhagalpur); Bihar Institute of Technology, P.O. Sindri Institute (Manbhum); Bihar Veter-

inary College, P.O. Veterinary College, Patna; Bria Institute of Technology, Post Box No. 61, Meera, Ranchi; Chotanagpur Law College, Ranchi; Darbhanga Medical College, Darbhanga; Indian School of Mines and Applied Geology, Dhanbad; Musaffarpur Institute of Technology, Musaffarpur; Ranchi Agricultural College, Kanke (Ranchi); S. K. J. Law College, Musaffarpur. (d) *Other Colleges:* Anjibit Singh College, Bikramganj (Shahabad); A.N.S. College, Barh (Patna); Bindeshwar Singh College, Dinapore (Patna); Chandradhari Mithila College, Darbhanga (*also teaching Law*); College of Commerce, Patna; D.A.V. College, Siwan (Saran); Darshan Shah College, Katihar (Purnea); Deoghar College, Deoghar (S.P.); D. K. College, Dumri (Shahabad); Ganesha Dutta College, Begusarai (Monghyr); Ganesh Lal Agarwal College, Daltonganj (Palaman); Gaya College, Gaya; Giridih College, Giridih (Hazaribagh); Godda College, Godda (S.P.); Gopalganj College, Gopalganj (Saran); Gopeshwar College, Hathwa (Saran); Gorelal Mehta College, Banmankhi (Purnea); H. D. Jain College, Arrah; Harihar Saha College, Kishunganj, P.O. Uda-Kishunganj (Saharsa); Jagdam College, Chapra; Jagjivan Ram Shramik Mahavidyalaya, Jamalpur (Monghyr); Jal Prakash College, Narainpur (Bhagalpur); Jal Prakash Mahila Mahavidyalaya, Chapra; Jamshedpur Co-operative College, Jamshedpur; Kabir Moti Darshan College, Parbatta (Monghyr); Kanhai Lal Sahu College, Nawadah (Gaya); Kisan College, Sohsarai (Patna); Koshi College, Khagaria (Monghyr); K. K. Memorial College, Jamni (Monghyr); Lakshmi-Narayan College, Bhagwanpur (Musaffarpur); M.D.D. Mahila College, Musaffarpur; Maharaja Ram Ranvijay Pd. Singh College, Arrah; Maharani Janki Kunwar College, Bettiah (Champaran); Maharshi Vishwamitra Mahavidyalaya,

Buxar (Shahabad); Maiti Dhari College, Naubatpur (Patna); Marwari College, Bhagalpur; Millat College, Laheriasarai (Darbhanga); Munshi Singh College, Motihari; Murarka College, Sultanganj, Bhagalpur; Nalanda College, Biharhariff (Patna); Purnea College, Purnea; R. D. & D. J. College, Monghyr; Ragho Prasad Sinha College, Jaintpur (Musaffarpur); Raja Shih Prasad College, Jharra (Manbhum); Rajendra College, Chapra; Raj Narain College, Hajipur (Musaffarpur); Ram Dayala Singh College, Musaffarpur; Ram Krishna College, Madhubani (Darbhanga); Ram Ratan Singh College, Mokamoh (Patna); Ranchi Women's College, Ranchi; S.R.K. Goenka College, Sita-marhi (Musaffarpur); S. Sinha College, Aurangabad (Gaya); Saharsa College, Saharsa; Saheb-ganj College, Sahebganj (S.P.); Samastipur College, Samastipur (Darbhanga); Santhal Parganas College, Dumka; Sardar Vallabhbhai Patel College, Bhabua (Shahabad); Shanti Prasad Jain College, Sasaram (Shahabad); Shrichand Udasin College, Hilsa (Patna); Shrikrishna Ramkrishn College, Barbigha (Monghyr); Somewati Mahtab Das College, Poonpoo (Patna); St. Columba's College, Hazaribagh; St. Xavier's College, Ranchi; S. Mahila Mahavidyalaya, Bhagalpur; Swami Sahajanand College, Jahanabad, Gaya; T. N. J. College, Bhagalpur (*also teaching Law*); Tata College, Chalbasa; Thakur Prasad College, Madhopura (Saharsa).

PATNA UNIVERSITY

Patna 5.

Chancellor: Dr. Zakir Husain, M.A., Ph.D. Governor of Bihar.

Vice-Chancellor: Dr. Balbhadra Prasad, D.Sc. (Lond.).

Treasurer: Ram Charitra Singh, M.Sc.

Registrar: Jagatnandan Sahay, M.A. (Pat), F.D. (Lond.).

Deans of the Faculties: Arts, Dr. Iqbal Hussain, Science, Dr. N. S. Nagendranath; Law, V. V. Deshpande; Education, Rameshwar Prasad; Medicine, Dr. Gaya Prasad; Engineering, R. K. Verma; Commerce, Dr. B. R. Misra.

Constituent Colleges, University Departments and Institutes of the University: Colleges: Patna College; Science College; Bihar National College; Bihar College of Engineering; Prince of Wales Medical College; Patna Law College; Patna Training College; Patna Women's College; Magadh Mahila College; Women's Training College.

University Departments: Ancient Indian History and Culture; Bengali; Botany; Chemistry; Applied Economics and Commerce; Economics; Education; English; Psychology; Geography; Geology; Hindi; History; Labour and Social Welfare; Mathematics; Philosophy; Physics; Political Science; Sanskrit; Sociology; Statistics; Urdu; Arabic; Persian; Zoology; Malthill; Anatomy; Physiology; Pharmacology; Pathology; Medicine; Surgery; Obstetrics and Gynaecology; Ophthalmology and Otorhinolaryngology.

Institutes: Institute of Psychological Research & Services; Institute of Public Administration; Institute of Music.

Number of teachers in the University: 533.

Number of students in the University: 9,783 (Men 8,019; Women 1,764).

BUDGET 1957-58

Income: Rs. 16,652,536. (This includes income from Government.) Recurring: Rs. 7,764,003 and non-recurring Rs. 8,888,533.

Expenditure: Rs. 17,582,688.

ASSOCIATIONS, INSTITUTIONS

AGRICULTURAL RESEARCH INSTITUTE SABOUR (BHAGALPUR).

Regional Director: Dr. R. H. Richharia, M.Sc., Ph.D. (Cantab.), F.R.S., F.R.S.A.

ARTS AND ARTISTS

Nabin Kuthi, Ahok Raj Path, Patna 4.

Music, Dance and Drama.

President: Mahabir Prasad; *Vice-President:* Brajeshwar Prasad Sinha; *Secretary:* Smt. Meenakshi De.

BHAGALPUR LITERARY & SCIENTIFIC INSTITUTE

Cleveland Road, Bhagalpur.

Hon. Asst. Secy.: Sukumar Sarkar, B.A., B.L.

BHARTIYA NRITYA KALA MANDIR (College of Indian Traditional Dances).

Chajjibagh, Patna 1.

President: K. Abraham, I.A.S., Education Secretary, Govt. of Bihar, Patna, *Director:* Hari Uppal.

THE BIHAR ACADEMY OF MUSIC, DANCE AND DRAMA

Sinha Library Road, Patna 1.

Chairman: Dr. Sir S. Sultan Ahmed; *Hon. Secretary:* N. K. Gaur; *Associate Secretary:* Onel Do.

THE BIHAR CHAMBER OF COMMERCE (Estd. 1926).

Judges' Court Road, P.O. Box No. 71, Patna 1.

Representative organisation of the industries, trade and commerce of Bihar—stands to promote and safeguard the industrial and com-

mercial interests of the State. Membership open to commercial and industrial companies and persons interested in trade, commerce and industry—given seats in University Senate, Railway and other Advisory Committees and other local bodies.

President: Harak Chand Jain.

Hon. Secretary: Dwarka Prasad Ojha.

BIHAR HARIJAN SEVAK SANGH

Annie Besant Road, Patna-4.

President: Acharya Badrinath Varma.

Secretary: Nagendra Narayan Sinha.

BIHAR INDUSTRIES ASSOCIATION

Sinha Library Road, Patna-1.

President: Shanti Prasad Jain.

Chairman: Brij Mohan Agarwalla, M.L.O. *Dy. Chairman:* Murali Manohar Jaysawal.

BIHAR RASHTRA BHASHA PARISHAD Kadamkuan, Patna 3.

Research Institute for Hindi Literature and Language.

President: Kumar Ganganand Sinha; *Director:* Acharya Shiva Pujan Sahaya.

BIHAR RESEARCH SOCIETY

Museum Buildings, Patna.

Vice-President: Kumar Ganganand Sinha; *Hon. Gen. Secy.:* Dr. B. P. Sinha; *Editor of the Journal:* Dr. K. K. Datta.

GOVERNMENT VACCINE INSTITUTE AND PASTEUR INSTITUTE

Namkum (Ranchi).

Superintendent: Dr. N. K. Prasad.

BIHAR STATE CANE GROWERS' CO-OPERATIVE ASSOCIATION LTD.

Co-operative Federation Bldg., Budh Marg, Patna.

President: Nandkishore Narain.

Gen. Secy.: Mathura Prasad Sinha, M.L.C.

Secretaries: B. P. Rai; B. B. Sinha.

CENTRAL MINING RESEARCH STATION

Post Box 50, Dhanbad (Bihar).

Director: Dr. J. W. Whitaker; *Asst. Director:* S. Bagchi Senior; *Scientific Officers:* Dr. G. N. Badami, Dr. S. Guruswamy.

CO-OPERATIVE TRAINING INSTITUTE

Pusa, District Darbhanga.

Principal: K. F. Sinha, B.Sc., Dip-in-Ed, C.H.D. (Manchester).

DIOCESE OF CHOTA NAGPUR

Diocesan Office, P. Box 1, Ranchi

Bishop of Chota Nagpur: The Rt. Rev. Dilbar Hans; *Archdeacon of Chota Nagpur:* The Ven. J. A. Cable. *Secretary, Diocesan Council:* A. S. G. Turkey.

EASTERN ZONE MINING ASSOCIATION Chalbasa, Singhbhum Dist.

President: S. R. Rungta; *Hon. General Secretary:* L. P. Sao; *Office Secretary:* G. Chattopadhyay.

GAIT PUBLIC LIBRARY AND INSTITUTE Gardanibagh, Patna-2.

President: S. Mahto; *Vice-Presidents:* K. Prasad, S. O. Mishra; *Secretary:* J. N. Sahaya.

GOVERNMENT SILK INSTITUTE

Bhagalpur.

Supdt.: R. N. Banerjee.

BIHAR SMALL SCALE INDUSTRIES ASSOCIATION

Rajendra Path, Patna 1.

President : Mathura Prasad Singh, M.L.C. ; *General Secretary* : C. C. Pathak ; *Treasurer* : Maha Singh.**GRAIN CHAMBER LTD.**

Muzaffarnagar.

Chairman : Deep Chandra ; *Vice-Chairman* : Hira Lal.**INDIAN COAL MERCHANTS' ASSOCIATION**

Jharia.

President : M. S. Shetia ; *Vice-President* : Malik Chand.**INDIAN COLLIERIES UNION**

P. O. Katrasgarh (Dist. Dhanbad).

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Patna.

Curator : S. A. Shere.**PATNA POLYTECHNIC**

Gulzarbagh, Patna-7.

Principal : Dr. A. N. Dhar, Dr. Ing. (Dresden)
M.I.S.E.**RABINDRA PARISHAD**

Rabindra Bhawan, Gardiner Road, Patna 1.

Chief Patron : Dr. S. K. Sinha, Chief Minister, Bihar State ; *Chairman* : Dr. Sachin Sen, Editor, 'Indian Nation' ; *Hon. Secretary* : Dipendra N. Sircar.**SHILPA KALA PARISHAD**

C/o Govt. School of Arts & Crafts, Patna 1.

Secretary : Radhamohan (Principal, Govt. School of Arts & Crafts, Patna 1).**SOIL CONSERVATION SOCIETY OF INDIA**

15, Bayley Road, Patna.

Chairman of the Society and Editor of the 'Journal of Soil and Water Conservation in India', K. S. V. Raman, I.C.S. (Retd.) ; *Secretary* : N. C. Hole ; *Treasurer* : P. C. Goswami ; *Asstt. Editor* : P. G. Sinha.**VIDHYA KALA MANDIR**

Mah : Kasipur, Patna 4.

Affiliated to Bhatkhande Sangeet Vidyapeeth, Lucknow and recognised by the Sangeet Natak Akademi.

Managing Director : S. C. Verma.**YOGODA BRAHMACHARYA VIDYALAYA**

Ranchi.

Recognised under the Board of Secondary Education, Bihar.

Started in 1917. Imparts academical and spiritual education, and also teaches Yogic lessons. It is conducted by the Yogoda Sat-Sangha Society which has its headquarters in Calcutta 36. Yogoda Sat-Sangha Neva Ashram at Ranchi is a subsidiary institution of the Society.

Secretary : Swami Satchidananda Giri.**ADMINISTRATIVE PERSONNEL**

(See under 'Administrative Personnel of States')

BIHAR LEGISLATIVE COUNCIL

(See under 'General Elections')

BIHAR LEGISLATIVE ASSEMBLY

(See under 'General Elections')

BOMBAY STATE

For 'Administrative Personnel' see under article 'States Administrative Personnel'. For membership of State legislature see under article 'General Elections.'

DISTRICTS

Area : 190,641.*

Population : 48,264,622.*

Capital : Bombay.

Districts : The districts given below are grouped according to the six Administrative Divisions into which the State is broken up. The District headquarters are given in brackets after the name of the District :

Ahmedabad Division (Ahmedabad) : Ahmedabad (Ahmedabad), Banaskantha (Palanpur), Baroda (Baroda), Broach (Broach), Kaira (Kaira, Nadiad), Mehsana (Mehsana), Panch Mahals (Godhra), Babarkantha (Himmatnagar).

Aurangabad Division (Aurangabad) : Aurangabad (Aurangabad), Bhilr (Bhilr), East Khandesh (Jalgaon), Nanded (Nanded), Osmanabad (Osmanabad), Farbhani (Farbhani).

Bombay Division (Mulund, Bombay) : Danga (Ahwa), Greater Bombay (Bombay), Kolaba (Alibag), Nasik (Nasik), Ratnagiri (Ratnagiri), Surat (Surat), Thana (Thana), West Khandesh (Dhulia).

Nagpur Division (Nagpur) : Akola (Akola), Amaravati (Amaravati), Bhandara (Bhandara), Buldana (Buldana), Chanda (Chanda), Nagpur (Nagpur), Wardha (Wardha), Yeotmal (Yeotmal).

Poona Division (Poona) : Ahmednagar (Ahmednagar), Kolhapur (Kolhapur), Poona (Poona), Satara North (Satara), Satara South (Sangli), Sholapur (Sholapur).

Rajkot Division (Rajkot) : Amreli (Amreli), Gohilwad (Palitana), Halar (Jamnagar), Kutch (Rhuji), Madhya Saurashtra (Rajkot), Sorath (Junagadh), Zala (Surenhranagar).

The five constituent units of the new Bombay State are Kutch, Saurashtra, Marathwada (roughly the Marathi-speaking Districts of the former Hyderabad), Vidarbha (roughly the Marathi-speaking Districts of the former Madhya Pradesh) and the residuary Bombay State (that is, the former Bombay State bereft of the Karnatak Districts).

The area and the population (in thousands) of these constituent units are given below :

Kutch : 16,724 sq. miles ; 568,000. Saurashtra : 21,451 sq. miles ; 4,187,000. Bombay (residuary) : 90,123 sq. miles ; 30,768,000. Marathwada : 25,694 sq. miles ; 5,185,000. Vidarbha : 36,880 sq. miles ; 7,607,000.

Some other census relating to Bombay State :

Density : 15 per cent ; Rural population : 72.1 per cent ; Urban population : 27.9 per cent ; Agricultural population : 62.5 per cent.

Area under cultivation : 55 per cent of the total area ; Per capita area under cultivation : 1.38 acres ; Area under food crops : 68.2 per cent of the total cultivated area ; Area irrigated : 5.6 per cent of the total cultivated area ; Area under forests : 14.5 per cent of the total area of the State.

Bombay State now bulks larger in the size and economy of the country than before 1st Nov. 1956.

The area is 15 per cent of that of the Indian Union and the population 13.4 per cent.

The value of its annual textile production is about 70 per cent of that of the country and the number of persons employed in the industry 67 per cent of the number employed in the country as a whole.

It has 27.7 per cent of the area in India under ground nut, and 50 per cent of the area in India under cotton.

INDUSTRIAL PRODUCTION—1957 & 1958

Name of Industry	Unit	1957	1958 (Estimates)	Percentage of Bombay State to All India (1958)
Cotton Yarn millmade	..	907	832	49.7
Cotton cloth millmade	..	3,585	3,321	67.3
Vanaspati	..	112.02	105.96	34.5
Soda Ash	..	91,925	83,524	100.00
Caustic Soda	..	8,617	12,560	26.9
Sulphuric Acid	..	49.20	49.71	22.8
Power Driven Pumps	..	31	38	50.7
Glassware (excluding scientific ware and thermos flasks)	..	31.83	38.43	27.5
Sugar†	..	240	319	16.1
Bicycles	..	164.37	152.24	16.3
Cement	..	912	905	14.2
Salt	..	578	732	64.5

* Estimates. † Figures relate to crop season, Oct. to Nov. 1956-57 and 1957-58.

OTHER INDUSTRIES

Names of industries in Bombay State other than those given in the above table, showing the production of each industry for the year 1957 : Woollen fabric : 25,78,000 yds ; Liquid Chlorine : 22,58,000 tons ; Rectified Spirit : 10,88,000 gallons ; Denatured Spirit : 5,54,000 gallons ; Power Alcohol : 2,70,000 gallons ; Glycerine refined : 2,867 tons ; Glue : 8,376 cwt. ; Liver Extract injectible : 2,44,13,000 c.c. ; Liver Extract oral : 2,15,000 lbs. ; Plastic P.F. moulding power : 26,32,000 lbs. ; Copper sheets and circles : 2,507 tons ; Brass sheets and circles :

7,789 tons ; Oil pressure lamps : 38,400 ; Diesel engines : 15,945 ; Electrical conduit pipes : 23,02,500 ft. ; Rubber and plastic inflated and flexible cables : 95,02,000 yds. ; Electric lamps : 29,11,000 ; Electric fans : 77,000 ; Storage batteries : 89,000 ; Electric motors : 1,47,000 H.P. ; Power transformers : 5,11,000 K.V.A. ; Radio receivers : 72,323 ; Cars and trucks : 15,024.

In 1957 there were 21 sugar factories (9 co-operative). They crushed 2,800,000 tons of cane to produce 319,000 tons of sugar.

The State produces Ambar Khadi valued at Rs. 19 lakhs (Saurashtra Rs. 16 lakhs).

MINERAL PRODUCTION

Name of Mineral	Units of Quantity	1957	
		Quantity	Value (Rs. 000)
Asbestos	..	—	—
Bauxite	..	11,104	93
Calcite	..	1,076	11
China Clay	..	23,857	431
Coal	..	624	12,276
Fine Clay	..	3,042*	—
Iron Ore	..	1,21,589	1,090
Lime Stone	..	6,17,480	2,564
Manganese Ore	..	3,73,098	50,419
Ochre	..	—	—
Salt	..	21,82,370	55,266

* Figure for 1956.

Iron ore deposits have been discovered in Ratnagiri District over 100 square miles.

* Note that there is a small difference in the figures relating to area and population as published by the Government of India and the Government of Bombay. These are the Bombay Government figures.

Of the manganese ore produced in India 21.1 per cent would be mined in this State.

The installed capacity of electrical energy in the new State is about 27.7 per cent of the installed capacity of the country as a whole, and the amount of electricity generated about 39.8 per cent.

The number of motor vehicles is 26.2 per cent of the country as a whole.

The State has 22.6 per cent of the total Indian student population.

POLITICAL SET-UP

The State has 43 Districts. All the Districts are territorially compact except two—Amreli and Nanded. Amreli is broken up into eight parts separate from one another all in the Kathiawad peninsula, while Nanded has Rajura and Kinwat Talukas (former Hyderabad State) which is separated from the main body of the District by Yeotmal.

Each of the six Administrative Divisions has a Divisional Commissioner.

The State is a member of the Western Zonal Council, the other member of which is Mysore.

The Bombay Secretariat has eleven Departments:

The Political and Services Department, Home Department, Revenue Department, Agriculture and Forests Department, Education Department, Local Self Government & Public Health Department, Finance Department, Public Works Department, Legal Department, Industries & Co-operation Department, Labour & Social Welfare Department.

The total number of officers in the I.A.S. Cadre has been tentatively fixed at 219 and of the I.P.S. at 144.

The strength of the Legislative Assembly is 397 (306 elected and one nominated from the Anglo-Indian community), and of the Council 108. The State sends 66 members to the Lok Sabha and 27 to the Rajya Sabha.

DEVELOPMENT

Eleven special funds amounting to Rs. 14 crores are to be constituted for the development activities of the State.

This constitutes a new orientation of the financial policy of the Government and marks a change from orthodox finance to welfare finance.

The funds set up from the State's accumulated reserves would be utilised for creating more physical assets, wealth and amenities so that the standard of living of the people, particularly in rural areas, might be raised.

The funds will be utilised for specific purposes. A high-level committee will lay down the general lines of policy for the guidance of the various departments according to which expenditure from the funds will be incurred.

A water supply fund of Rs. 3,00,00,000 will be utilised for financing water supply schemes in villages and small municipal towns. Another fund of Rs. 50,00,000 will be used for providing relief to those who are affected by natural calamities, apart from famine.

Long-term loans will be given to municipalities, district local boards and village panchayats from a fund of Rs. 50,00,000 for making available amenities such as playgrounds, parks, gardens and theatres.

A sum of Rs. 2,00,00,000 will be set aside for a fund for the construction of hostels for students, quarters for teaching staff and school and college buildings. The construction of residential quarters for nurses, midwives, school-mistresses and women social workers in rural and semi-urban areas will be undertaken from a fund of Rs. 1,00,00,000.

A housing fund with Rs. 2,00,00,000 will provide co-operative housing societies, municipalities or local boards with loans for encouraging building activities.

Another fund of Rs. 1,50,00,000 will be utilised for granting long-term loans for the development of the economically backward areas of the State. Fishery co-operatives will benefit from a Fisheries Development Fund of Rs. 50,00,000.

JOINT STOCK COMPANIES

The number of Joint Stock Companies in Bombay State, their authorized capital and paid-up capital respectively as on March 31, 1958. The figures in brackets show the percentage to the

All-India figures: Rs. 5,515 crores (19.10); N.A.; Rs. 442.5 crores (38.12).

The position about different categories of Joint Stock Companies for the year 1958 is shown in the following table:

Category	No. of coys.	CAPITAL	
		Authorised	Paid up
		Rs.	Rs.
Agriculture and allied activities	112	5,69,825	1,63,064
Mining and quarrying	93	9,98,183	4,09,739
Processing and Manufacture foodstuffs, Textiles, leather and products thereof	693	1,83,90,380	93,93,444
Processing and Manufacture metal chemicals and products thereof	989	1,47,36,758	56,15,277
Processing and manufacture not elsewhere classified	578	1,09,13,423	44,65,098
Constructions and utilities	170	64,58,629	30,57,536
Commerce (Trade and Finance)	2,182	1,94,29,054	87,91,965
Transport and Communications and Storage	177	1,03,65,801	26,83,135
Community and Business Services	166	8,52,923	3,15,588
Personal and other services	310	20,02,885	5,05,792
Total for the State	5,870	8,47,15,361	3,54,00,638

Agricultural Production

CEREALS AND PULSES

(Figs. '00 tons.)

Year	Rice	Wheat	Jowar	Bajri	All cereals
1956-57*	15,731	5,970	30,877	8,445	67,930
1957-58 (Final forecast)	13,678	5,081	32,756	10,171	67,231
1958-59 (tentative estimates)	15,163	N.A.	N.A.	11,064	N.A.

Year	Tur	Gram	All Pulses	Cereals and Pulses
1956-57*	4,358	2,297	12,035	79,965
1957-58 (Final forecast estimate)	3,629	1,641	9,423	76,654

* Provisional.

End of First Plan : 73.28 lakh tons foodgrains ; Second Plan target : 88.51 lakh tons.

The annual deficit of foodgrains is about 10 lakh tons.

COTTON AND GROUNDNUT

Year	Cotton (in bales of 392 lbs. each)	Groundnut (in 00 tons)
1956-57	22,108	14,043
1957-58 (F. F. Estimates)	21,303	12,646
1958-59 (Tentative Estimates)	25,907	13,994

SUGARCANE AND TOBACCO

Year	Sugarcane (in gur) (in 00 tons)	Tobacco (in 00 tons)
1956-57*	7,402	693
1957-58 (F. F. Estimates)	7,685	510

* Provisional.

Three endowment funds, each amounting to Rs. 1,00,00,000, will finance research schemes in the medical scientific, industrial and agricultural spheres.

In agriculture, there are various schemes to be undertaken for improvising methods of cultivation and for providing new facilities to agriculturists and students of agriculture.

Starting of slum clearance schemes, youth employment services, audio-visual education, sheltered workshops for the handicapped, labour welfare centres where there are none at present, new homes for beggars, are all among the miscellaneous schemes included for implementation in the 1959-60.

Other schemes are the establishment of a theatre-cum-museum for children, extension of cashewnut cultivation, of co-operative fisheries, milk supply schemes in Rajkot and Baroda, purchase of milk-bar equipment, development of national parks, holiday resorts and hot springs.

On irrigation works an amount of nearly Rs. 23 crores is proposed to be spent. Some of the important ones include Purna, Mahi Canal, Kakrapar, Khadakvasla, Girna River, Shetrunji, Ukai, Ghod and other projects.

SMALL-SAVINGS SCHEME

The position for the State is as follows:
1957-58 : Target : Rs. 26 crores ; Achievement : Rs. 14.62 crores.

1958-59 : Target : Rs. 26 crores ; Achievement : Rs. 21.63 crores.

1959-60 : Target : Rs. 26 crores.

The District-wise figures are given below:
The physical achievement is in Rs. lakhs. The second figure shows the percentage of performance in relation to the target set. The figures are for 1958-59.

Bhir	20,28,050	253.5
Babarkantha	34,54,533	230
Parbhani	21,95,405	220
Danga	1,79,562	199.50
Ahmednagar	38,52,270	154
Osmanabad	20,61,086	136
Banaskantha	16,32,000	136
Akola	39,76,048	132
Chanda	16,06,684	123
West Khandesh	36,55,316	122
Meliana	23,02,000	115
Amreli	9,16,398	114.5
Bhandara	12,46,000	113
Kaira	1,35,61,000	113
Sorath	32,80,976	109
Amravati	32,09,529	107
Baroda	58,53,000	107
Nanded	18,97,731	104
North Satara	23,13,931	92.6
South Satara	22,99,848	88.5
Nasik	33,37,562	86
Ratnagiri	14,67,721	86
Madhya Maharashtra	41,94,264	84
Panchmahals	16,55,000	83
Surat	1,05,44,379	81.75
Buldana	16,14,730	80
Aurangabad	16,13,708	79.81
Nagpur	64,41,005	76
Greater Bombay	7,69,64,000	70
Wardha	14,04,217	70
Kolaba	10,33,553	69
Thane	33,77,592	67.55
Broach	10,77,000	63
Kolhapur	27,94,000	62
Sholapur	29,29,042	58.6
East Khandesh	17,25,000	57.50
Ahmedabad	84,29,000	56
Kutch	16,88,730	56
Poona	55,11,813	50
Yavatmal	9,24,780	49
Zalawad	6,63,036	44
Halar	11,99,574	42.8
Gohilwad	16,68,044	41.5

IRRIGATION

The general position is as follows :—

1. Area under irrigation at the end of First Plan : 32.72 lakh acres.
2. Second Plan target : 8.80 lakh acres.
3. Second Plan allotment : Rs. 92.60 crores.
4. Amount spent : Rs. 47.72 crores.
5. Area under irrigation at present : 36.94 acres.

(For details see p. 376).

EDUCATION

Year	Primary	Secondary	Higher	Others*	Total	Percentage
<i>Growth of Institutions</i>						
1956-57 ..	45,553	2,210	205	18,310	66,278	158.33
1957-58 ..	48,731*	2,368	210	19,387	70,696	168.89
1958-59 ..	51,909	2,528	215	20,464	75,114	179.44
<i>Growth of Pupils</i>						
1956-57 ..	50,87,833	7,87,224	1,11,868	4,42,622	64,29,547	144.05
1957-58 ..	54,44,295*	8,72,404	1,22,472	5,20,431	69,59,602	155.92
1958-59 ..	58,00,767	9,57,584	1,33,076	5,98,240	74,89,667	167.79

* Provisional.

PUBLIC HEALTH

Item	1957	1958 (Estimates)
No. of hospitals and dispensaries	1,750	1,760
No. of indoor patients treated—		
Males	3,02,757	3,63,308
Females	3,04,856	3,65,587
Children	1,37,866	1,65,439
Total	7,45,279	8,94,334
No. of outdoor patients treated—		
Males	68,14,777	81,77,732
Females	60,28,072	72,83,686
Children	65,59,136	78,70,963
Total	19,401,985	2,32,82,381

No. of leprosy patients : about 1,80,000.

Christian Mission hospitals : 41 ; dispensaries 10.

Figures for the following items are for the year 1956 :

No. of Staff : Medical Officers 2,809 ; Midwives 493 ; Nurses 1,757 ; Dais 255 ; Compounders 1,322.

No. of beds : Male 10,018 ; Female 8,683.

No. of Surgical operations. Operations performed 54,946.

CO-OPERATION—1957-58

Types of Societies	No. of Societies	No. of members (Thousands)	Working Capital (000 Rs.)	Advances (000 Rs.)
Agricultural	23,224	21.85	76,63.91	87,20.44
Non-Agricultural	8,394	17.38	88,73.77	37,82.92
Land Mortgage Banks	26	52	1,86.84	1,84.62†
Central Banks	63	219	85,57.72	199,73.37

Population covered by co-operative movement in 1957-58 : 2,07,20,000 (Estimates).

Percentage of population covered to total population during 1957-58 : 38.47 (Estimates).

* This figure is now exclusive of the Agricultural Societies like Consumers and Housing Societies working in the rural areas as these Societies are now grouped under Non-Agricultural Societies under the revised criteria for classification of societies as prescribed by the Reserve Bank of India.

† Figure is regarding loan due.

COMMUNITY PROJECTS

Year	No. of Blocks of CPA Pattern	No. of Villages covered	Population covered (in 000)
1956-57	176.25	18,113	11,784
1957-58	244.25	25,802	16,277
1958-59	292.25	30,447	19,235

ADMINISTRATIVE DIVISIONS

1. AREA AND POPULATION

Below we give statistical picture of Bombay State by Administrative Division.

	Bombay State	ADMINISTRATIVE DIVISIONS					
		Rajkot	Ahmedabad	Bombay	Poona	Aurangabad	Nagpur
1. Area (in square miles) ..	190,641	39,960	26,599	28,269	23,701	30,249	36,863
2. Number of towns ..	625	105	120	111	124	90	75
3. Number of villages ..	54,279	5,651	10,634	10,358	6,460	8,728	12,448
<i>Population (Figs. in thousands).</i>							
Rural Population—							
Total ..	34,615	3,429	6,772	6,857	6,106	5,480	5,971
Males ..	17,415	1,733	3,477	3,360	3,067	2,776	3,002
Females ..	17,200	1,696	3,295	3,497	3,039	2,704	2,969
Urban Population —							
Total ..	13,650	1,594	2,427	4,572	2,244	1,176	1,636
Males ..	7,407	796	1,301	2,636	1,174	605	845
Females ..	6,243	798	1,126	1,936	1,070	571	791
Total Population (1951) ..	48,265	5,023	9,199	11,429	8,350	6,656	7,607

Source : Census of India, 1951.

2. TOWNS AND VILLAGES

Administrative Divisions										No. of villages	No. of towns	Density per sq. mile
I. Rajkot ..	..	..	..	..	..	..	..	..	..	5,651	105	126
II. Ahmedabad ..	..	..	..	..	..	..	..	..	..	10,634	120	346
III. Bombay ..	..	..	..	..	..	..	..	..	..	10,358	111	404
IV. Poona ..	..	..	..	..	..	..	..	..	..	6,460	124	291
V. Aurangabad ..	..	..	..	..	..	..	..	..	..	8,728	90	228
VI. Nagpur ..	..	..	..	..	..	..	..	..	..	12,448	75	206
Bombay State ..										54,279	625	253

3. AGRICULTURAL CLASSES AND THEIR DEPENDENTS

(Figures in Thousands)

	Bombay State	ADMINISTRATIVE DIVISIONS					
		Rajkot	Ahmedabad	Bombay	Poona	Aurangabad	Nagpur
1. Cultivators of land wholly or mainly owned and their dependents ..	19,063	1,624	4,033	3,256	4,423	3,127	2,600
2. Cultivators of land wholly or mainly unowned and their dependents ..	3,982	425	887	1,492	395	317	466
3. Cultivating labourers and their dependents ..	5,863	200	637	856	668	1,468	2,035
4. Non-cultivating owners of land ; Agricultural rent receivers and their dependents ..	968	88	215	108	205	178	174
Total ..	29,876	2,337	5,772	5,712	5,691	5,090	5,275

4. NON-AGRICULTURAL CLASSES AND THEIR DEPENDENTS

(Figures in Thousands)

	Bombay State	ADMINISTRATIVE DIVISIONS					
		Rajkot	Ahmedabad	Bombay	Poona	Aurangabad	Nagpur
1. Production other than cultivation ..	6,640	905	1,258	1,985	944	523	1,025
2. Commerce ..	3,610	536	710	1,165	447	296	456
3. Transport ..	1,033	129	137	442	118	74	133
4. Other services and miscellaneous sources ..	7,106	1,115	1,322	2,125	1,151	674	719
Total ..	18,389	2,685	3,427	5,717	2,660	1,567	2,333

5. LAND UTILIZATION AND AREA UNDER CROPS, 1955-56

(Figures in '000 acres)

	Bombay State	ADMINISTRATIVE DIVISIONS					
		Rajkot	Ahmedabad	Bombay	Poona	Aurangabad	Nagpur
<i>Land Utilisation—</i>							
1. Total geographical Area ..	120,065	24,369	16,727	18,208	18,448	18,940	23,372
2. Area under Forests ..	15,342	229	1,197	4,232	1,873	946	6,867
3. Barren Land ..	16,938	9,905	2,077	2,558	1,358	471	570
4. Land put to non-agricultural uses ..	2,601	511	323	152	214	427	976
5. Culturable Waste ..	3,529	443	593	1,125	394	296	679
6. Land under tree crops and groves ..	1,721	1,109	90	206	27	48	241
7. Permanent pastures and grazing grounds ..	5,697	1,184	861	523	547	943	1,637
8. Current fallows ..	3,434	1,008	336	493	411	935	251
9. Other fallows ..	4,145	224	255	1,053	831	1,007	776
10. Net area Sown ..	66,657	9,756	10,996	7,867	12,795	13,868	11,356
11. Gross cropped area ..	69,494	9,929	11,684	8,320	13,387	14,275	11,898
<i>Area under Major Groups of Crops—</i>							
1. Cereals, pulses ..	44,472	5,809	6,853	5,532	10,031	9,007	7,323
2. Sugar crops ..	262	28	5	26	169	29	6
3. Fruits and vegetables ..	429	38	54	110	96	65	67
4. Condiments and spices ..	563	33	99	44	90	182	115
5. Miscellaneous food crops ..	23	1	13	7	4	1	2
6. Total food crops ..	45,736	5,902	7,024	5,719	10,390	9,233	7,414
7. Oilseeds ..	7,736	2,105	978	591	1,228	1,976	863
8. Cotton and other fibres ..	11,585	1,487	2,396	836	263	2,992	3,610
9. Drugs and Narcotics ..	286	19	186	6	65	3	7
10. Fodder crops ..	4,081	411	1,053	1,166	1,429	18	4
11. Miscellaneous non-food crops ..	69	1	52	1	12	3	3
12. Total non-food crops ..	23,757	4,022	4,660	2,601	2,998	4,992	4,484
13. Total area under crops ..	69,493	9,929	11,684	8,320	13,387	14,275	11,898

6. AREA AND PRODUCTION OF FOOD GRAINS, 1955-56

(Figures in thousands)

		Bombay State	ADMINISTRATIVE DIVISIONS					
			Rajkot	Ahmedabad	Bombay	Poona	Aurangabad	Nagpur
1. Rice ..	{ Area (Acres)	4,021	35	809	1,440	446	152	1,138
	{ Outturn (Tons)	1,439	10	154	644	178	29	424
2. Wheat ..	{ Area (Acres)	3,554	402	834	410	335	743	830
	{ Outturn (Tons)	735	147	190	72	56	120	149
3. Jowar ..	{ Area (Acres)	18,056	2,274	1,412	824	5,683	4,324	3,539
	{ Outturn (Tons)	2,587	89	154	147	841	662	694
4. Bajri ..	{ Area (Acres)	8,792	2,567	1,918	1,226	2,038	969	76
	{ Outturn (Tons)	826	147	239	139	202	88	10
5. Ragi ..	{ Area (Acres)	718	2	62	467	181	5	1
	{ Outturn (Tons)	210	..	24	150	35	1	0.1
6. Maize ..	{ Area (Acres)	558	6	481	17	32	13	10
	{ Outturn (Tons)	186	1	170	4	8	3	2
7. Barley ..	{ Area (Acres)	36	4	20	....	4	6	1
	{ Outturn (Tons)	7	1	4	..	1	1	0.1
8. Tur ..	{ Area (Acres)	1,576	6	143	105	222	563	543
	{ Outturn (Tons)	438	....	29	24	48	67	270
9. Gram ..	{ Area (Acres)	1,671	176	266	140	299	571	219
	{ Outturn (Tons)	243	12	47	21	44	87	31
10. Mug ..	{ Area (Acres)							
	{ Outturn (Tons)							
11. Math ..	{ Area (Acres)	472						
	{ Outturn (Tons)	3						
12. Udid ..	{ Area (Acres)	867						
	{ Outturn (Tons)	90						

Total acreage under food 1956-57: 44.49 mln. acres; 1957-58: 41.97 mln. acres.

Additional irrigation aimed at the end of Plan: 15.48 lakh acres.

Allotment for minor irrigation (Second Plan): Rs 12.60 crores.

7. AREA AND PRODUCTION OF NON-FOOD GRAINS, 1955-56

(Figures in Thousands)

	Bombay State	ADMINISTRATIVE DIVISIONS					
		Rajkot	Ahmedabad	Bombay	Poona	Aurangabad	Nagpur
1. Sugarcane .. { Area (Acres)	261	28	5	25	169	23	6
{ Outturn (Tons)	746	57	10	63	546	62	8
2. Potatoes .. { Area (Acres)	25	6	3	2	19	....	....
{ Outturn (Tons)	49	....	11	4	34	....	....
3. Chillies .. { Area (Acres)	365	18	18	36	63	131	99
{ Outturn (Tons)	52	....	5	5	15	13	13
4. Groundnut .. { Area (Acres)	4,755	1,653	511	399	750	1,129	813
{ Outturn (Tons)	1,062	236	111	106	193	345	71
5. Sesamum .. { Area (Acres)	749	323	139	52	31	99	105
{ Outturn (Tons)	57	15	15	6	2	7	11
6. Castor Seed .. { Area (Acres)	323	123	179	15	7	7	3
{ Outturn (Tons)	37	8	26	2	....	1	1
7. Rape, Mustard & Linseed .. { Area (Acres)	786	5	141	3	46	207	384
{ Outturn (Tons)	65	....	13	0.3	4	17	30
8. Tobacco .. { Area (Acres)	255	0.2	185	9	61	2	6
{ Outturn (Tons)	61	....	50	2	10	0.3	1
9. Cotton .. { Area (Acres)	11,322	1,467	2,373	822	242	2,835	3,563
{ Outturn (Bales of 392 lbs each)	1,920	274	740	188	36	285	397
10. Total Cereals .. { Area (Acres)	36,817	5,295	5,986	4,753	8,863	6,289	5,631
{ Outturn (Tons)	6,696	395	1,066	1,228	1,344	911	1,283
11. Total Pulses .. { Area (Acres)	7,638	514	867	779	1,169	2,717	1,591
{ Outturn (Tons)	1,109	24	129	118	149	317	371

8. AREA IRRIGATED BY SOURCES AND CROPS, 1955-56

(Figures in Thousand Acres)

	Bombay State	ADMINISTRATIVE DIVISIONS					
		Rajkot	Ahmedabad	Bombay	Poona	Aurangabad	Nagpur
Area Irrigated by Sources—							
1. Government canals	587	34	55	76	309	6	107
2. Private canals	61	....	3	17	41	....	....
3. Tanks	468	8	47	7	9	9	387
4. Wells	2,270	535	81	138	599	319	97
5. Other sources	98	2	14	9	49	7	17
6. Net irrigated area	3,485	580	701	246	1,008	342	608
7. Gross irrigated area	3,920	663	717	301	1,203	420	610
Area Irrigated by Crops—							
1. Rice	686	28	74	30	45	16	492
2. Wheat	864	287	245	90	128	107	9
3. Jowar	648	82	20	7	434	105	....
4. Bajri	126	45	10	....	66	5	....
5. Barley	17	4	7	....	1	5	1
6. Maize	40	4	8	2	17	4	....
7. Tur	6	....	....	....	6	....	....
8. Gram	126	12	10	15	58	27	3
9. Other pulses	9	2	6	1	2	3	....
10. Sugarcane	256	25	5	25	167	28	6
11. Potatoes	6	....	3	2	12	....	....
12. Chillies	136	2	8	29	36	35	26
13. All food crops	3,324	534	505	263	1,075	368	608
14. Cotton	126	23	67	3	30	2	1
15. Groundnut	23	2	....	2	17	1	....
16. Tobacco	29	....	26	....	3	....	....
17. Fodder crops	161	91	3	11	30	5	1
18. All non-food crops	536	129	212	44	128	21	2
19. Total area irrigated	3,920	663	717	307	1,208	419	610

9. LIVE-STOCK, 1955-56

(Figures in Thousands)

	Bombay State	ADMINISTRATIVE DIVISIONS					
		Rajkot	Ahmedabad	Bombay	Poona	Aurangabad	Nagpur
1. Cattle—							
Males above three years ..	8,875	890	1,553	1,543	1,231	1,556	1,802
Females above three years ..	5,986	675	797	1,016	900	1,126	1,474
Young Stock	5,654	730	762	911	793	1,156	1,303
2. Buffaloes—							
Males above three years ..	326	6	8	150	64	21	76
Females above three years ..	2,045	368	1,008	415	473	397	284
Young Stock	—	280	794	230	309	273	199
3. Sheep	3,703	1,251	464	233	1,068	338	830
4. Goats	7,189	990	1,406	1,076	1,518	1,058	1,151
5. Horses and Ponies	242	57	41	34	24	55	30
6. Donkeys	176	50	70	8	13	20	15
7. Camels	45	12	31	—	—	1	—
8. Pigs	164	—	—	35	36	37	57
9. Poultry	10,759	126	908	4,052	3,021	753	1,899
10. No. of Ploughs	3,691	349	833	789	374	339	1,007
11. No. of Carts	1,874	254	296	277	229	320	499

Total livestock in the State in 1956 : 37,072,908 ; wooden ploughs 3,303,878 ; iron ploughs 387,469 ; tractors 3,118.

10. FORESTS, 1955-56

	Bombay State	ADMINISTRATIVE DIVISIONS					
		Rajkot	Ahmedabad	Bombay	Poona	Aurangabad	Nagpur
Area under—							
1. Reserved Forests ('000 acres)	11,253	420	229	3,497	1,767	871	4,469
2. Protected Forests	4,449	N.A.	....	550	132	74	3,693
3. Other Forests	2,675	459	1,652	391	29	145	N. A.
4. Total area under Forests ('000 acres)	18,377	879	1,881	4,438	1,928	1,090	8,162
Value of Forest Produce ('000 Rs.)—							
1. Timber .. .. .	....	....	2,377	19,037	1,200	93	N. A.
2. Fuel .. .. .	....	16,000	958	12,769	1,526	....	N. A.
3. Minor Forest Produce ..	....	40,198	1,443	1,785	232	255	N. A.

11. ROAD MILEAGE IN BOMBAY, 1956

	Metalled	Non-Metalled	Total
1. Ahmedabad	1,093.16	2,191.44	3,284.60
2. Baroda	1,664.86	3,699.85	5,364.71
3. Bombay	691.00	45.00	736.00
4. Nasik	2,777.00	3,543.00	6,320.00
5. Poona	3,017.37	4,125.74	7,143.11
6. Thana	1,776.31	1,306.52	3,082.83
7. Aurangabad	3,690.70	3,529.50	7,220.20
8. Nagpur	4,943.00	984.00	5,927.00
9. Rajkot	1,858.00	1,011.00	2,869.00
Total	21,511.40	20,416.05	41,927.45

EMPLOYEES' STATE INSURANCE SCHEME

The following particulars show the position as on 31st December 1958 in relation to the Greater Bombay and Vidarbha Region.

Total No. of employees : 5,07,888.

The following particulars show the position as on 31st December 1958 in the relation to Greater Bombay.

Total No. of insured workers : 4,73,888.

Total number of panel doctors : 1,113 (192 Ayurvedic, 6 Unani and rest allopathic).

Total number of general beds sanctioned : 500.

Total T.B. beds : 250.

Number of diagnostic centres : 6 ; number of ambulances : 6.

Number of laboratory tests : 66,890 ; number of persons screened : 18,626.

Number of persons X-Rayed : 18,286

Number of approved chemists : 114.

Number of costly drugs : 141.

The following particulars show the position as on 31st December 1958 in relation to Vidarbha.

In the eight districts here the scheme has so far been implemented in three towns : Nagpur Akola and Hinganghat. Number of employees covered : 34,000.

Diagnostic and special treatment are provided at the Mayo Hospital and the Medical College Hospital, Nagpur.

General medical treatment is provided under the service system, that is, in the State Insurance Dispensaries.

The number of beds reserved in Nagpur : 75 (includes 25 T.B. and 10 maternity beds) ; in Akola 6, in Hinganghat 4.

In addition to the above five, T.B. beds are reserved in the T.B. Sanatorium at Buldana.

The Offices concerned are :

1. Employees' State Insurance Corporation, Bombay Regional Office, Colaba Causeway, Bombay 5.

2. Administrative Medical Officer, the Employees' State Insurance Scheme, Bombay State, Indian Mercantile Chambers, Ballard Estate, Bombay 1.

3. Regional Administrative Medical Officer, Employees' State Insurance Scheme, Vidarbha Region, Nagpur.

12. MOTOR VEHICLES IN BOMBAY STATE ON 31st DECEMBER 1956

	Ahmedabad	Baroda	Bombay	Nasik	Poona	Thana	Aurangabad	Nagpur	Rajkot	Total
1. Motor Cycles ..	1,485	479	2,600	540	1,928	154	268	1,227	148	8,829
2. Motor Cars ..	4,026	2,408	26,200	1,508	3,808	779	531	5,336	482	45,078
3. Taxi cabs ..	113	95	3,650	211	270	82	94	310	109	4,934
4. Stage Carriages ..										
(i) Diesel Engine ..	672	59	688	353	651	229	216	769	45	3,682
(ii) Petrol Engine ..	141	48	63	20	51	81	135	399	71	1,009
5. Lorries ..										
(i) Private Carriers ..										
(a) Diesel Engines ..	21	78	40	29	59	5	57	35	8	332
(b) Petrol Engines ..	402	210	3,250	212	403	116	494	105	48	5,240
(ii) Public Carriers ..										
(a) Diesel Engines ..	172	147	320	141	449	89	57	685	55	2,115
(b) Petrol Engines ..	1,618	1,482	4,520	1,709	1,526	1,135	494	1,299	407	14,190
6. Auto Rickshaws ..	271	110	7	4	250	—	20	—	3	665
7. Ambulances ..	37	2	62	20	24	5	11	12	6	179
8. School Buses ..	16	4	65	9	12	2	—	6	—	114
9. Private Service Vehicles ..	—	—	60	—	—	—	—	—	—	60
10. Others ..	—	147	550	290	106	17	25	742	55	1,932
Total ..	8,974	5,269	42,075	5,046	9,537	2,694	2,402	10,925	1,437	88,359

13. ELECTRICITY, 1955-56

	Bombay State	ADMINISTRATIVE DIVISIONS					
		Rajkot	Ahmedabad	Bombay	Poona	Aurangabad	Nagpur
1. Installed capacity (kW.) ..	5,71,669	28,283	1,13,366	3,69,141	18,803	3,216	37,700
2. Energy Generated (lakh Kwts.) ..	24,357	697	5,509	16,286	320	57	1,538
3. Utilisation of Energy (lakh Kwts.)—							
(a) Domestic (lakh Kwts.) ..	1,459	96	192	957	161	20	33
(b) Commercial (lakh Kwts.) ..	1,040	27	108	715	165	12	10
(c) Industrial (lakh Kwts.) ..	16,509	399	3,426	11,430	428	11	816
(d) Others (lakh Kwts.) ..	980	50	221	182	92	14	421
(e) Total Utilisation (lakh Kwts.) ..	19,983	572	3,997	13,284	846	57	1,280

Installed capacity for private installation at Nanded is not included.

14. EDUCATION, 1955-56

	Bombay State	ADMINISTRATIVE DIVISIONS					
		Rajkot	Ahmedabad	Bombay	Poona	Aurangabad	Nagpur
1. No. of towns and villages with schools ..	....	4,459	6,313	7,758	5,659	N.A.	N.A.
2. No. of villages without schools ..	....	1,247	4,525	2,711	795	Do.	Do.
3. Higher Education—							
Institutions ..	180	12	41	56	35	5	31
Pupils ..	1,01,576	4,527	19,371	44,554	16,693	2,813	13,678
4. Secondary Education—							
Institutions ..	2,091	184	400	598	367	191	351
Pupils ..	7,39,593	83,198	1,28,784	2,28,055	94,981	68,406	1,36,169
5. Primary Education—							
Institutions ..	43,863	4,784	8,687	10,995	8,086	5,099	6,212
Pupils ..	47,19,512	4,08,852	9,98,088	12,98,707	10,21,872	4,31,269	5,70,024
6. Other Education—							
Institutions ..	18,579	1,747	4,496	6,495	4,674	1,045	122
Pupils ..	4,74,877	44,794	1,11,595	1,75,021	1,12,092	24,079	7,296
Total No. of Institutions ..	64,713	6,727	13,624	18,144	13,162	63,402	6,716
Total No. of Pupils ..	60,35,558	5,41,071	12,57,838	17,37,837	12,45,578	5,26,567	7,27,167
7. Colleges for Engineering—							
Institutions ..	10	1	8	2	2	....	2
Pupils ..	7,706	316	2,866	2,305	1,488	....	731
8. Colleges of Medicine—							
Institutions ..	19	1	4	7	4	....	3
Pupils ..	6,290	298	1,154	2,502	997	....	1,339
9. Veterinary Colleges—							
Institutions ..	1	....	....	1	....	....	....
Pupils ..	252	....	....	252	....	....	....
10. Colleges of Agriculture—							
Institutions ..	4	....	1	....	1	....	2
Pupils ..	1,079	....	234	....	396	....	449
11. Colleges of Commerce—							
Institutions ..	12	1	3	4	2	....	2
Pupils ..	8,602	345	1,844	4,055	1,253	....	1,105
12. Colleges of Law—							
Institutions ..	8	....	1	4	2	....	1
Pupils ..	4,746	....	1,140	2,710	292	....	604
13. Colleges for other professions—							
Institutions ..	5	2	....	1	1	....	1
Pupils ..	2,139	637	....	1,333	57	....	112

At the beginning of 1958 there were 143 multi-purpose schools in Bombay State.
1959 March: No. of primary schools 34,675; enrolment 3,373,319.

15. MEDICAL AND PUBLIC HEALTH, 1955-56

	Bombay State*	ADMINISTRATIVE DIVISIONS					
		Rajkot	Ahmedabad	Bombay	Poona	Aurangabad	Nagpur
Medical—							
1. No. of Dispensaries ..	1,595	373	256	160	111	136	{ 187
2. No. of Hospitals ..		45	41	62	33	8	
3. No. of Subsidised Dispensaries ..	360	5	115	135	84	21	...
4. No. of Beds in Hospitals— ..	18,237	2,494	3,036	5,500	2,753	889	2,711
(a) Males	8,703	1,218	1,419	3,117	1,410	466	1,309
(b) Females	9,534	1,276	1,617	2,478	1,343	423	1,402
5. No. of patients treated— ..							
(i) Outdoor patients ('000) ..	14,479	3,068	2,107	2,615	1,420	2,863	3,108
(ii) Indoor patients ('000) ..	734	65	107	170	72	23	38
Vital Statistics—							
1. Deaths due to principal diseases— ..							
(a) Cholera .. ..	....	5	4	49	20	N. A.	9
(b) Small-pox .. ..	....	44	689	479	696	N. A.	1,238
(c) Dysentery .. ..	....	284	3,271	9,882	60,567	N. A.	11,738
(d) Fevers .. ..	....	2,897	72,749	41,064	46,873	N. A.	6,318
(e) Tuberculosis and other respiratory diseases ..	....	655	25,338	22,109	30,911	N. A.	12,796
(f) Others .. ..	....	6,667	....	....	....	N. A.	708
2. Birth rate per thousand of population .. ..	....	N. A.	37.6	37.3	34.5	N. A.	40.5
3. Death rate per thousand of population .. ..	....	N. A.	14.5	16.5	13.8	N. A.	20.6
4. Infant mortality (Per 1000 live births) .. ..	....	N. A.	110.0	104.8	90.3	N. A.	157.6

* These are revised figures. The figures in the rest of the columns are first estimates.

16. CO-OPERATIVE SOCIETIES, 1955-56

	Bombay State	ADMINISTRATIVE DIVISIONS					
		Rajkot	Ahmedabad	Bombay	Poona	Aurangabad	Nagpur
<i>Central Banks including State Banks, Provincial Land Mortgage Banks and Banking Unions—</i>							
Number of Societies	60	8	8	8	9	9	18
Members	1,69,628	81,761	9,872	21,372	26,581	6,432	23,560
Share Capital (in '000 Rs.) ..	31,755	3,973	4,475	8,697	4,152	3,215	7,243
Working Capital (in '000 Rs.) ..	5,10,637	57,263	62,352	2,07,836	52,734	38,753	97,699
<i>Primary Land Mortgage Banks—</i>							
Number of Banks	25	—	3	4	3	8	7
Members	39,683	—	5,006	12,653	6,265	4,962	10,797
Share Capital (in '000 Rs.) ..	1,275	—	446	437	139	121	132
Working Capital (in '000 Rs.) ..	14,229	—	3,974	4,209	1,744	1,257	3,045
<i>Agricultural Credit and Non-Credit Societies—</i>							
Number of Societies	21,752	1,708	2,921	3,305	3,686	5,536	4,596
Members	16,52,902	1,03,251	2,84,780	3,25,665	3,87,210	3,82,175	1,69,551
Share Capital (in '000 Rs.) ..	91,748	4,966	15,307	17,919	41,764	8,954	2,838
Working Capital (in '000 Rs.) ..	3,42,238	23,738	62,860	60,339	1,26,140	42,651	26,510
<i>Non-Agricultural Credit and Non-Credit Societies—</i>							
Number of Societies	6,063	722	1,439	1,972	1,176	266	488
Members	15,35,555	56,022	3,11,910	7,62,050	2,38,119	55,444	1,12,010
Share Capital (in '000 Rs.) ..	1,37,975	2,170	19,613	98,616	14,710	2,564	5,802
Working Capital (in '000 Rs.) ..	5,58,172	10,546	1,11,317	3,57,976	67,374	18,651	22,308

Percentage of people covered by the co-operative movement: 38; Percentage of villages covered: 81.

No. of villages that have panchayats: about 19,000; Percentage of villages: 70.

ROAD TRANSPORT

Passenger road transport is nationalised. Goods transport operations are not nationalised, but are carried on in competition with private operators, on an experimental basis.

The table below shows the position of the transport bodies at a glance, as revised in the budget estimates for 1958-59.

	No. of passengers carried (in '000)	Capital invested (Rs. in lakhs)	Total gross revenue (Rs. in lakhs)	Total expenditure (Rs. in lakhs)
Bombay State Road Transport Corporation	20,86.84	1,277.13	1,256.51	1,193.55
Saurashtra State Road Transport Corporation	1,43.22	104.00	107.13	105.18
Kutch State Road Transport Corporation	19.43	32.71	21.00	23.03
Provincial State Service, Nagpur	1,45.80	73.40	88.10	79.60
State Transport, Marathwada	1,08.79	63.18†	87.45	64.16
Total	25,04.08	1,550.40	1,560.19	1,465.47

Note :—The figures in all columns except those of Bombay State Road Transport Corporation are budgeted figures. † Excluding the value of capital invested by the former Govt. of Hyderabad as the value of assets transferred is still to be finalised.

More details are available for 1957-58. These are given below.

STATE TRANSPORT

The Bombay State Road Transport Corporation was constituted under the provisions of the Road Transport Corporation Act, 1950.

The data given below relate to Bombay State excluding the merged areas (Vidarbha, Marathwada, Kutch and Saurashtra) and covers the period from April 1957 to March 1958.

Position as on 31st March 1958 :

Capital invested in the Corporation :	
State Government ..	Rs. 803.25 lakhs
Government of India ..	Rs. 406.65 lakhs
No. of passenger vehicles owned by the Corporation ..	2,837
No. of goods vehicles owned by the Corporation ..	656
No. of nationalised City Bus Services ..	Three (Baroda, Surat and Kolhapur)
No. of municipalised city bus services ..	Four (Bombay, Poona, Ahmedabad and Sholapur)

Rate per passenger mile after nationalisation ..	Nine pies
Total No. of routes operated ..	2,117
Route mileage operated ..	54,481
No. of persons employed ..	19,383

The Corporation has two major workshops for major overhauls, 13 Divisional Workshops for running repairs and servicing, and 123 depot and sub-depot workshops for maintenance of vehicles. The central workshop is at Dapodi, the regional workshop is at Ahmedabad, the divisional workshops are at the divisional headquarters of the 13 S.T. divisions and the depot and sub-depot workshops are at the various operating points spread over the entire residual State.

Annual results of the year 1957-58 :	
Total bus miles operated ..	7,06,71,188
Total number of passengers carried by the Corporation ..	18,44,31,617
Total revenue expenses of the Corporation for 1957-58 ..	Rs. 10,14,00,685
Total revenue for 1957-58 ..	Rs. 11,14,86,189
Cost of staff per bus mile (in nP) ..	34.16
Expenses per bus mile (in nP) ..	136.21

The Corporation provides comfortable buses, long distance express services for the convenience of long distance passengers, well-equipped bus stations at important places with all modern facilities, adequate services to meet the normal traffic demands, and special services for fairs and other special occasions.

Passenger amenities provided by the Corporation as on 31st March 1958 : Booking Offices 179; Bus Stations 146; Passenger Stands 120; Canteens 145; Lavatories 165; Water Arrangements 193; Waiting Rooms 135.

MERGED AREA

The information given below covers the period from April 1957 to March 1958 for the 4 nationalised road transport undertakings in Saurashtra, Vidharbha, Marathwada and Kutch.

The nationalised transport services in these areas are directed and co-ordinated by a department of the Government of Bombay, under the Motor Transport Controller, known as the Transferred Road Transport Undertakings' Department.

The names of the Transport Authorities are :

- (a) Saurashtra : Saurashtra State Road Transport Corporation, Rajkot.
- (b) Kutch : Kutch State Road Transport Corporation, Bhuj.

These Corporations are constituted under the provisions of the Road Transport Corporation Act, 1950.

Passenger Road Transport is almost completely nationalised in Kutch with 59 routes under operation.

In Saurashtra, however, passenger services are partially nationalised, and only 212 routes have been taken over.

- (c) Vidarbha : Provincial Transport Services, Nagpur.

Government has constituted a Board to manage the operations of the Provincial Transport Services under the supervision of a High Power Committee. 81 routes have been taken over in the districts of Nagpur, Wardha, Yeotmal, Amravati and Bhandara. Of these 81 routes, 17 are city service routes operated in Nagpur City.

- (d) Marathwada : State Transport (Marathwada), Aurangabad.

The State Transport (Marathwada) undertaking is run departmentally under the supervision of a High Power Committee constituted by the Government of Bombay, and operates 85 routes including two city services.

Position as on 31-3-1958 :

(a) Total capital investment in the units :	
Contribution by State Government ..	Rs. 201.44 lakhs
Contribution by Central Government ..	Rs. 44.60 ..
Total ..	246.04 ..

The Central Government has contributed towards capital only in the case of the Saurashtra and Kutch Corporations and the Provincial Transport Services, Nagpur, while the entire capital for Marathwada which is a Government department, is contributed by the State Government alone.

- (b) Total no. of passenger vehicles owned by the 4 units .. 721
- (c) Total no. of trucks owned by the 4 units .. 21
- (d) Total no. of nationalised city bus services .. 4 (at Nagpur, Aurangabad, Nanded, and Rajkot).
- (e) Total no. of routes operated as on 31st March 1958 .. 410 (Rural) ; 27 (City).
- (f) Route mileage operated as on 31st March 1958 .. 15,896
- (g) No. of persons employed .. 4,335

Rate and fare structure :

The rate per passenger per mile charged in the 4 units is as under :—

- (a) Saurashtra : At 9 pies per passenger per mile on a mileage system. Minimum fare charged is one anna.

- (b) Kutch : At 12 pies per passenger per mile for lower class services and at 18 pies for upper class accommodation on a mileage system. Minimum fare charged is 2 annas.

- (c) Vidarbha : At a telescopic rate of 7.5 pies to 5 pies per passenger per mile with a surcharge on fares of 1 anna per rupee or part thereof and two annas per rupee or part thereof on fares in excess of one rupee. Minimum fare charged is 2 annas.

- (d) Marathwada : At 10.28 pies per passenger per mile or 3½ annas per stage of 4 miles or part thereof. Minimum fare charged is 3½ annas.

Under the Saurashtra State Road Transport Corporation there are two workshops, one each at Rajkot and Junagadh, while under the Kutch State Road Transport Corporation there is a workshop at Bhuj.

As regards the Provincial Transport Services, Nagpur, the Central Workshop is situated at Nagpur, while in the case of State Transport (Marathwada) the workshop at Aurangabad carries out major repairs as well as day-to-day maintenance.

Operational results of the period from April 1957 to March 1958 :

(a) Total No. of passengers carried by the buses in the 4 transport units ..	397.30 lakhs
(b) Total revenue from April 1957 to March 1958 ..	Rs. 264.29 lakhs
(c) Total gross mileage operated ..	202.80 lakhs
(d) Cost of staff per bus mile ..	26.1 nP.
(e) Expenses per bus mile ..	96.3 nP.

Amenities :

Comfortable buses are provided and regular bus services are operated in all the 4 units. For the convenience of long distance travellers express services are operated. At all important places, well-equipped bus stations with all modern facilities have been provided.

Way-side stands at traffic centres for en route passengers have also been provided at important places.

Adequate arrangements for the supply of extra buses have also been made to meet the traffic demand and special services are also run for fairs and on other special occasions.

Passenger amenities provided in the 4 units :

Total no. of Depots 33; Booking Offices 72; Bus Stands 28; Sheds 58; Canteens 25; Lavatories 55; Water Arrangements 68; Waiting Rooms 35.

ELECTRIC POWER DEVELOPMENT

The following table shows the position of electric power development in Bombay State :

(in million K.W.H.)

Year	Electricity generated	Electricity consumed			Public Lighting	Other purposes	Total consumption	No. of concerns
		Domestic	Commercial	Industrial				
1957	3,313.84	226.30	171.28	2,371.68	24.83	83.97	2,878.06	205
1958*	3,534.44	233.12	173.54	2,469.81	27.03	93.61	2,997.11	—

* Estimates based on 10 months average.

Note :—For regionwise figures see table No. 13.

TATA PROJECTS

The greatest hydro-electric undertakings in the State are the three schemes developed and brought into operation by Tata Sons, Ltd., and continued under their management until 1929, when they were transferred to the management of the Tata Hydro-Electric Agencies, Ltd., in which Messrs. Tata Sons retain a majority interest. These undertakings are :—

- The Tata Hydro-Electric Power Supply Company, Ltd. Supply started in 1918.
- The Andhra Valley Power Supply Company, Ltd. Supply started in 1922.
- The Tata Power Company, Ltd. Supply started in 1927.

The three Hydro-Electric Companies are interconnected with the 118 MW Chola Steam Station of the Central Railway, Electricity Board's 54 MW Steam Station also at Chola under the same roof as the Railways; together they are operated as a Hydro-Thermal system under the co-ordinated control of the Hydro Companies.

The three Hydro Companies have constructed a modern Steam Thermal Station of 125 MW capacity at Trombay which is also interconnected to the system.

This station which consists at present of two 62,500 kW units was opened on 15th Dec. 1956. A third unit of the same capacity is under construction. (For details see below.)

The Tata Hydro-Electric System serves an area in the State of Bombay of more than 800 square miles.

It is the largest power system in the country having a fixed capital expenditure in excess of Rs. 30 crores and an annual output representing more than one-sixth of the total electricity production.

Electric service is rendered to the textile mills and other industries of Bombay and the suburban areas, to local authorities, and, in bulk for retail distribution, to the electrical undertakings supplying Greater Bombay, Poona and ten other localities within the area.

The transmission network of the system consists of 573 circuit miles of 100,000-volt overhead lines and 9.5 miles of 100 KV gas filled underground cables and the distribution network of 134 circuit miles of 22,000-volt overhead as well as 113 miles of 22,000-volt and 126 miles of 6,600-volt underground cables.

Substantial additions to the transmission and distribution network are expected to be made during the next few years.

The interconnected transmission lines of the Railway add another 272 circuit miles to form the combined Tata Hydro-Railway Grid.

The second unit at Trombay was commissioned into service in April 1957 bringing the total installed capacity of the Tata Electric System to 399 KW.

A new Receiving Station at Carnac Bunder having an installed transformer capacity of 160 MVA was also brought into service in April 1957. This Receiving Station, which is feeding Southern Bombay, has greatly facilitated distribution of power in this area.

During the 12 months of 1957-58 (April to March) the system demand was 388.8 MW.

The sales by Tatas during the period was 1,626 million units and the purchase of Thermal Energy to supplement Hydro during the year was 212 million units.

Information for the Calendar year 1958: Total installed capacity of Tata-Rly. interconnected system: 513 MW. Total production of the system: 2,288 million kWh. Total Sales to Tata consumers: 1,709 million units. Total number of Tata consumers: 162.

Khopoli.—The hydraulic works of the Tata Hydro-Electric Power Supply Company are situated near Lonavla at the top of the Bhore Ghat. The monsoon rainfall is stored in three lakes, namely Lonavla, Walwan and Shikrawta, from which it is conveyed in open masonry canals to the Forebay at Khandala and thence through steel pipes to the Power House at Khopoli at the foot of the Ghats, where the head at turbine nozzles is 1,726 feet or approximately 750 lb. per sq. inch. The capacity of the Power Station at Khopoli is 70,000 kW.

This scheme was formally opened by the Governor of Bombay on the 8th of February 1915.

Bhivpuri.—Investigations in 1917-18 led to the discovery of a site on the Andhra River just to the north of the Tata Hydro-Electric Supply Company's lake, where additional power could be developed.

These investigations resulted in the formation of the Andhra Valley Power Supply Co. and the construction of the schemes, the principal features of which consist of a reservoir formed by a dam about 190 feet high, across the Andhra River and a tunnel 8,700 feet long driven through solid trap rock to the scarp of the Ghats, from which the water is taken in steel pipes 4,600 feet long to the turbines in the generating station at Bhivpuri. The head of water at turbine nozzles is 1,743 feet or approximately 750 lb. per sq. inch.

The electrical energy is transmitted to Bombay over a transmission line 57.5 miles long for augmenting the supply from Khopoli.

The present capacity of this station is 72,000 kW.

Shira.—The Tata Power Company's scheme on the Nila-Mula River to the south-east of Bombay was investigated and developed along lines similar to the Andhra Valley scheme and has an installed capacity of 132,000 kW.

The power is transmitted to Bombay over a transmission line 76 miles long and is used to augment the supply of the two earlier companies to mills, factories and railways.

The Trombay Thermal Power Station, the most modern of its kind in India, is situated on a 132-acre land on the south shore of Trombay Island, about seven miles north-east of Bombay. The station consists, at present, of two 62,500 kW units, and the layout permits expansion to an ultimate of four such units. A third unit of the same capacity is under construction and is expected to be completed by mid 1960.

The plant is of semi-outdoor type, designed on the unit system basis with one boiler and one turbine per unit. The radiant type, water tube boilers at Trombay are designed to burn refinery waste gas, oil, and low-grade coal, and each of them is capable of generating steam at a rate of 600,000 lbs./hr at 1,325 psig and 955° F. The steam from the boiler will be delivered at 1,250 psig and 950° F to a 22 stage, twin cylinder, impulse turbine, which exhausts the steam into a single shell two pass condenser at 2½" Hg absolute. The steam in the condenser is cooled by means of sea water pumped from Bombay harbour through a 4,066 ft. long 72" diameter steel pipe which projects approximately 2,000 ft. into the sea from the low water line. The condensed steam is fed back to boiler at 410° F after passing through 5 feed-water heaters.

Each turbine drives a hydrogen cooled 13.8 KV, 50,000/62,500 KVA generator, which is connected to the transmission grid through a 80,000 KVA, 13.8/100 KV transformer.

The station was opened on 15th Dec. 1956.

ELECTRICITY BOARD SCHEMES

The original Bombay State Electricity Board for the pre-reorganization Bombay State was reconstituted on 1st February 1957, and the new Board has now taken over the assets and liabilities of all the State Electricity schemes in the merged areas.

Members of the Board: U. N. Mahida (Chairman), P. C. Hanotia, J. K. Modi, P. H. Bhutta, K. C. Patel, G. L. Natu.

The Board, with a view to improving its administrative efficiency decentralised its functions at the head office by creating two full-fledged zonal offices, in charge of a Joint Chief Engineer; one at Nagpur and the other at Ahmedabad. The two new zones thus constituted were named as East Zone with head office at Nagpur and North Zone with headquarter at Ahmedabad. The East Zone comprises areas of Vidarbha, Marathwada, and Khandesh, while the North Zone comprises areas of Gujarat, Saurashtra and Kutch.

The Divisions in Maharashtra area not covered by the aforesaid zones, such as Kolhapur and Talegaon, are under S.E. (M) Circle with H.Q. at Kolhapur, who works directly under the C.E.

Position as on 31st March 1958 :

Total installed capacity ..	1,27,748 kW.
Steam ..	89,000
Hydro ..	5,824
Diesel ..	32,919.
Total number of towns and villages supplied with electricity ..	751
Total length of Transmission lines above 11 KV in circuit miles ..	3,772
Total number of consumers ..	1,24,805
Total production ..	about 724.46 million units during 1957-58.
Total sale ..	about 616.2 million units.
Total expenditure on Electricity Schemes upto 31st March 1958 ..	Rs. 2,876.85 lakhs (approx.).
Amount spent in 1957-58 on Electricity Schemes ..	Rs. 576.85 lakhs.
Working expenditure for the year ending 31st March 1958 ..	Rs. 402.60 lakhs.
Total estimated cost of the Schemes under the Second Five Year Plan ..	Rs. 3,300 lakhs.
Total estimated Foreign Exchange component required during the period ..	Rs. 1,385 lakhs.
Estimated Capital Expenditure for 1958-59 ..	Rs. 873.86 lakhs.

As a result of the intensive work carried out by the Bombay State Electricity Board the per capita consumption of electricity contributed by the Board is expected to be 25 kWh at the end of the Second Plan as against 12 kWh at the end of the First Plan.

The names of the more outstanding projects with the present installed capacity of each :—

North Gujarat Electric Grid Scheme ..	22,500 kW. (contracted power with M/s. A. E. Co.)
South Gujarat Electric Grid Scheme ..	22,500 kW.
R.H.E.-cum-F.I. Scheme ..	6,700 kW.
Bhatgar Hydro Electric Scheme.	1,024 kW.
Khaperkheda Thermal Scheme.	30,000 kW.
Ballarshah Power House ..	22,500 kW.
Shahpur Thermal Station ..	6,000 kW.
Rajkot Diesel Station ..	0,142 kW.
Sikka P.H. ..	8,000 kW.

The capital assets of the Board stood at about Rs. 36 crores on 31st March 1958.

Power Projects

Statement showing particulars about power projects in operation in Bombay State as on March 31, 1958.

North Gujarat Electric Grid Scheme : The Scheme makes bulk purchase from Ahmedabad Electricity Company. Purchased 136.3 million kWh and sold 120.50 million kWh. during 1957-58. No. of consumers : 15,717. Length of transmission lines : 11KV and above 887.62 miles.

South Gujarat Electric Grid Scheme : This has a power house at Utran. Existing capacity : 22,500 KW. No. of units generated during 1957-58 : 91.83 million KWh. No. of units sold during the same period : 80.14 million KWh. No. of consumers : 4,740. Length of transmission lines : 264.74 miles. Capacity under erection : 45,000 KW. Expected total capacity by end of 2nd Plan : 67,500 KW.

A new generator at Utran brought an additional capacity of 15,000 kW.

Radhanagari-cum-E. I. Scheme : This has three power houses. (1) Radhanagari Power House. Existing capacity : 4,800 KW. No. of units generated during 1957-58 : 14.20 million KWh. No. of units sold during 1957-58 : 12.42 million KWh. No. of consumers : 6,344. Length of transmission lines : 207.45 miles. Expected total capacity by end of 2nd Plan : 4,800 KW. (2) Kolhapur Power House. Existing capacity : 1,900 KW. Units generated during 1957-58 : 1.01 million KWh. Capacity under erection 1,390 KW. Of this one 550 KW set has since been installed at Kolhapur Power House. Expected total capacity by end of 2nd Plan : 3,290 KW. (3) Vishrambag Power House. Capacity under erection : 2,100 KW. Expected total capacity by end of 2nd Plan : 2,100 KW.

Bhatgar Scheme : Name of power house? Bhatgar. Existing Capacity : 1,024 KW. Units generated during 1957-58 : 2.65 million KWh. No. of Units sold during 1957-58 : 2.32 million KWh. No. of consumers : 780. Length of transmission lines : 54 miles. Expected total capacity by end of 2nd Plan : 1,024 KW.

Vidarbha Grid Scheme : This has three power houses. (1) Khaperkheda Power House. Existing Capacity : 30,000 KW. Units generated during 1957-58 : 107.80 million KWh. Capacity under erection : 30,000 KW. Expected total capacity by end of 2nd Plan : 60,000 KW.

(2) Ballarshah Power House. Existing capacity : 22,500 KW. Units generated during 1957-58 : 90.72 million KWh. Expected total capacity by end of 2nd Plan : 22,500 KW.

(3) Paras Power House : Capacity under erection : 30,000 KW. Expected total capacity by end of 2nd Plan : 30,000 KW.

Units sold in all the above three power houses during 1957-58 : 154.38 million KWh. No. of consumers : 26,158. Length of transmission lines : 1,861.88.

Shahpur Grid Scheme : This has two power houses. 1) Shahpur Power House. Existing capacity : 6,000 KW. Units generated during 1957-58 : 8.73 million KWh. Units sold during 1957-58 : 5.51 million KWh. No. of consumers : 10,822. Length of transmission lines : 157.69 miles. Expected total capacity by end of 2nd Plan : 6,000 KW.

2) Diesel Power House : Existing capacity : 3,681 KW. Units generated during 1957-58 : 0.45 million KWh. Expected total capacity by end of 2nd Plan : 3,681 KW.

Rajkot Grid Scheme : Rajkot Power House. Existing capacity : 6,142 KW. (AC) and 818 KW (DC). Units generated during 1957-58 : 13.62 million KWh. Units sold during 1957-58 : 9.95 million KWh. No. of consumers : 11,556. Length of transmission lines : 92.75 miles. Expected total capacity by end of 2nd Plan : 6,142 KW. (AC) and 818 KW. (DC).

Eight other diesel power houses. Existing capacity : 950 KW. Units generated during 1957-58 : 0.31 million KWh. Expected total capacity by end of 2nd Plan : 950 KW.

Diesel power houses have however been completely closed down and only Dhoraji and Manuvadar Stations are kept as standby at present.

Jamnagar-Sikka Scheme : There are two power houses. 1) Sikka Power House. Existing capacity : 8,000 KW. Units generated during 1957-58 : 49.97 million KWh. Capacity under erection : 8,000 KW. Expected total capacity by end of 2nd Plan : 16,000 KW.

Jamnagar Power House. Existing capacity : 3,007 KW. Units generated during 1957-58 : 1.53 million KWh. No. of consumers : 9,824. Length of transmission Lines : 35.88 miles. Expected total capacity by end of 2nd Plan : 3,007. After the extension of Sikka Power House, the Jamnagar Diesel Power House will be completely closed down.

Porbandar Scheme : Has one power house, Porbandar Power House. Existing capacity : 1,567 KW. Units generated during 1957-58 : 2.24 million KWh. Units purchased (1957-58) : 0.63 million KWh. Units sold (1957-58) : 2.60 million KWh. No. of consumers : 3,784. Length of transmission Lines : 4.10 miles. Capacity under erection : 15,000 KW. Expected total capacity by end of 2nd Plan : 16,567. 1,567 KW. of diesel capacity will be closed down after commissioning of the Porbandar steam station.

Minor Diesel Schemes unconnected to any Grid : There are 48 such schemes. Existing capacity : 14,399 KW. Units generated during 1957-58 : 13.85 million KWh. Units sold (1957-58) : 11.82 million KWh. No. of consumers : 29,886. Length of transmission Lines : 120.35 miles. Capacity under erection : 3,834 KW. Expected total capacity at the end of 2nd Plan : 18,233 KW. This includes the idle capacity of stations which would have been closed down at the end of the 2nd Plan consequent to their being connected to the grid systems.

Minor schemes based on bulk purchase like Ujjanagar, Pimpri-Talegaon, etc. : Units purchased (1957-58) : 4.12 million KWh. Units sold (1957-58) : 2.63 million KWh. No. of consumers : 5,494. Length of transmission Lines : 85.72 miles.

Kandla Thermal Scheme : Capacity under erection : 6,000 KW. Expected total capacity at the end of 2nd Plan : 6,000 KW.

Total in respect of all the above schemes as on March 31, 1958 : Existing capacity 127,288 KW. This does not include 455 KW of idle capacity at three diesel power houses in the North Gujarat area which have been closed down consequent on grid power being made available to the towns. Units generated (1957-58) : 398.91 million KWh. Units purchased (1957-58) : 141.05 million KWh. Units sold (1957-58) : 448.82 million KWh. No. of consumers : 124,806. Length of transmission Lines : 3,772.18 miles. Capacity under erection : 142,324 KW. Expected total capacity by end of 2nd Plan : 268,612 KW.

NEW CONSTRUCTION

As mentioned a number of these projects are being extended and work is in progress.

North Gujarat Grid : A transmission and distribution scheme started in April 1956 is to be completed in March 1961. The cost of the project is Rs. 234.72 lakhs. Out of this the amount spent so far (March 1959) is about Rs. 107.944 lakhs.

South Gujarat Grid : The Capacity is to be increased to 45,000 KW. Work started in April 1956 and is to be completed in March 1961. The cost of the project is Rs. 435 lakhs. About Rs. 267.24 lakhs have been spent.

Some projects in the residuary parts of the Bombay State are to be completed by March 1961. The total cost is Rs. 462.77 lakhs out of which Rs. 378.111 lakhs have been spent.

In the Vidarbha area the capacity of the Khaperkheda and Paras scheme is to be raised to 60,000 KW. Work started in April 1956 and is to be completed in March 1961. The cost of the project is Rs. 817.24 lakhs. There is also a transmission and distribution scheme for the rural areas. The cost is Rs. 68.40 lakhs.

In the Saurashtra area the Rajkot P.H. is to have a capacity of 3,000 kW and there is also D.C.-A.C. conversion. The scheme costs Rs. 34.80 lakhs and is to be completed in March 1961. The thermal station at Porbandar is to have a capacity of 15,000 KW. The cost is Rs. 225.84 lakhs. Work is to be completed in

March 1961. The Jamnagar-Sikka project will have an installed capacity of 9,000 kW. The cost is Rs. 96.5 lakhs. It is to be completed in March 1961. The Morvi-Wankaner scheme is estimated to cost Rs. 20 lakhs. Work has not started. The Surendranagar scheme is only a transmission scheme. The cost is Rs. 35 lakhs. It is due for completion in March 1961. The Bhavnagar scheme is also a transmission scheme. It will cost Rs. 50 lakhs and is due for completion in March 1961. The Shahpur project is to have a capacity of 10,000 kW. The cost is Rs. 60 lakhs, and is likely to spill over into the Third Plan. The Shahpur grid will have a capacity of 6,000 kW. The cost is Rs. 50 lakhs and is expected to be completed in March 1961. Then there is a group of miscellaneous schemes the total cost of which is Rs. 150 lakhs.

The total amount of money spent on the Saurashtra schemes till March 1959 was Rs. 516.70 lakhs.

In the Kutch area the Central station at Kandla is to have an installed capacity of 6,000 kW. The cost is Rs. 87.25. The scheme is to be completed by March 1961. There are a number of miscellaneous schemes the total cost of which is Rs. 102.40 lakhs and are to be completed by March 1961. Till March 1959 Rs. 93.63 lakhs were spent on them.

In the Marathwad area the rural electrification scheme in Bhir, Osmanabad, Puri, Hingoli and Latur will cost Rs. 16.48 lakhs. These are to be completed by March 1961. Till March 1959, Rs. 15.26 lakhs were spent. The Nanded scheme would have an installed capacity of 1,500 kW. The cost is Rs. 19.39 lakhs. The scheme is to be completed by March 1961. The sum spent till March 1959 was Rs. 6.09 lakhs.

CHOLA, KOYNA

A brief note each on two other power schemes is in order.

To relieve power shortage in the Bombay-Poona area the power house of the Central Railway at Chola was extended by the installation of three units each with an installed capacity of 18,000 kW. The station was sold to the Central Railway on Feb. 1, 1958. The scheme cost Rs. 4 crores and is operated as part of the Tata-Central Railway system.

The Koyna project provides for the use of the waters of the river Koyna—a tributary of the river Krishna—at Deahmukhwadi near Helwak in North Satara, about 150 miles south of Bombay, for the generation of hydro-electric power.

The entire scheme will be completed in three stages, and 4,80,000 kW of electricity ultimately produced.

The first stage involves the construction of a dam, about 208 ft. high with a storage capacity of 36,045 million c. ft., and a tunnel 21 ft. in diameter and 1,200 ft. long, which diverts the water westward to get a drop of about 1,570 ft.

The power house near Pophall will be located underground with a tail race tunnel 7,200 ft. long, discharging into Vasishti river.

In the first stage, four generating sets of 60,000 kW each will be constructed, with a provision for four additional units in the second stage.

A block of 230,000 kW of power will be transmitted to Bombay over a double circuit 220 kV transmission line, and about 10,000 kW to

Sholapur, Vishrambagh, Karad, and Satara Road area over 110, 33 and 11 kV transmission lines. Other places to which power will be supplied are Lonand, Wal, Panchgani, Mahabeshwar, Bhatgar, Pandharpur, and Kirsolkarwadi.

About 60,000 kW of power is expected to be released in 1960. This would be followed by an addition of 60,000 kW every six months to make a total supply of 240,000 kW for the first stage.

The work on the project commenced in January 1954, and has progressed considerably.

The first generating unit is expected to be commissioned after the monsoon in 1961, and the other three units at an interval of 6 months each thereafter.

The total expenditure incurred on the project up to December 1958 is Rs. 11.95 crores, of which Rs. 2.55 crores were spent during the First Plan period.

The first stage of the project will cost approximately Rs. 38.28 crores, including foreign exchange.

The provision for the project in the Second Plan is Rs. 29 crores.

The world Bank has granted a loan of 25 million dollars for the execution of the project. The loan is to be repaid over a period of 25 years starting with May 1965.

There is a separate Board called the Koyna Board which is in charge.

It is calculated that about 26,000 people living in 70 villages would be affected. By the end of Jan. 1959 about 1,500 had been rehabilitated.

HOUSING

BOMBAY HOUSING BOARD

The achievement of the Bombay Housing Board in the Greater Bombay area is given below in a tabular form. The position is as it existed at end of Sept. 1958.

No.	Scheme.	Tenements completed.	Under construction.	Total	Total expdtr. (Rs in lakhs)
1.	(A) Industrial Housing ..	20,860	2,052	22,912	901.49
	(B) Low Income Group Housing.				
1.	New construction of buildings	2,067	—	2,067	138.54
2.	Reconditioned hutments	787	—	787	15.26*
3.	'Own Your Own House' Scheme for Low Income Group	18	100	118	9.28
4.	Rental Housing Scheme for Low Income Group people under Deposit Rental basis	Nil	700	700	19.40
5.	Development of Sites for Low Income Group People on the north of Nala of the Juhu-Vile Parle Development Scheme ..	—	—	—	8.59
	(C) Rehabilitation Housing. Housing for D.P.s. .	25,378	612	25,990	519.92
	(D) Schemes on behalf of Private bodies.				
6.	Burmah-Shell Oil Refineries Ltd.	500	—	500	37.09
7.	Juhu-Vile Parle Development Scheme works of Development on behalf of 18 Co-operative Housing Societies ..	—	—	—	76.35
	Total ..	49,610	3,464	53,074	1,725.92

* 788 (out of 1,575) Military Hutments have since been demolished and the credits accrued have been adjusted accordingly.

Notes are given below about housing projects in Bombay.

In Bombay city itself it might be pointed out there are about 140 slum areas housing nearly half the city's population.

There are about 200,000 single-room tenements which house about 1,200,000 persons.

About 20,000 to 55,000 residential buildings are over 60 years old. About 9,000 of these accommodate as many as 500,000 persons.

The accommodation is enough for about 28-lakh persons. There is thus a shortage of 3 lakh tenements. The minimum cost of building these is about Rs. 180 crores.

The municipal bodies of Bombay, Ahmedabad, Poona, Nagpur, Surat, Ahmednagar, Dhulia and Malegaon have in all sixty-two schemes for slum clearance (See below).

There is a Rural Housing Cell for Bombay State at the State headquarters. It will provide technical guidance to local authorities in drawing up master plans for housing projects.

In Special Multi-purpose Projects—Community Development—National Extension Service Block areas, Collectors and Deputy Commissioners have been given power to advance loans to villagers on certain conditions.

One hundred and eight villages have been selected for the scheme.

The programme for 1960-61 is 19,000 tenements for industrial workers and 1,707 tenements for the low-income groups.

LABOUR AND SOCIAL WELFARE DEPARTMENT

The Government of Bombay undertakes construction of tenements for industrial workers under the Industrial Housing Schemes sponsored by the Government of India.

Till the end of the year 1957-58, the construction of 20,946 tenements costing Rs. 786.59 lakhs had been completed and the construction of 7,241 tenements costing Rs. 278.54 lakhs was under progress.

These tenements were constructed at Bombay, Ahmedabad, Nagpur, Rajkot, Nanded and other industrial centres.

The construction of tenements is undertaken through certain statutory bodies, viz., the Bombay Housing Board, the Saurashtra Housing Board and the Vidarbha Housing Board.

In Marathwada, the construction is departmentally undertaken.

Financial assistance is also given under the scheme to the Cooperative Housing Societies of industrial workers by way of loan and subsidy to the extent of 50 per cent and 25 per cent respectively of the total estimated approved cost. During the financial year 1957-58, Rs. 2,54,440 and Rs. 16,616 were granted as loan and subsidy respectively.

Low Income Group Housing

The scheme is intended to relieve the housing shortage in the case of persons whose total annual income does not exceed Rs. 6,000. The loan is granted upto 70 per cent of the estimated cost of construction of a tenement subject to the maximum limit of Rs. 8,000 at rates varying from 5 to 5½ per cent. per annum. It is repayable by half yearly or annual equated instalments within a period of 10, 20 or 30 years. The person repaying the loan instalments regularly gets a rebate of ½ per cent.

Loans on the abovementioned terms are granted to individuals, Cooperative Housing Societies, local bodies like Municipalities, Panchayats, charitable institutions, etc.

Loans granted to individuals and C. H. Societies are for construction of houses for the residence of the individuals or members of C. H. Societies.

Loans granted to local bodies, charitable institutions, etc. are for construction of houses for the low income group people on rental basis, rent being charged in accordance with the cost of construction, floor area etc., and also for development of land which is to be sold on no profit no loss basis to the Low Income Group people.

Authorities sanctioning the loans under the scheme are the Labour and Social Welfare Dept., Collectors, Registrar of Cooperative Societies, The Bombay Cooperative Housing Finance Society Ltd., Vidarbha Housing Board.

For the purpose of individuals who are not in a position to obtain house building sites and construct houses with loans obtained from the Govt. under this scheme, the Bombay Housing Board has been given a loan to construct houses and sell these houses on a hire-purchase basis.

The Scheme of Low Income Group Housing has recently been modified by the Government of India so that the State Governments are authorized to construct houses for rental purposes on No Profit No Loss basis, and accordingly a programme for the construction of houses in the bigger cities by the Bombay Housing Board has been formulated by the Government and 500 tenements are now under construction.

No. of tenements completed till the end of 1957-58 : 2,930

Land developed : 130 acres.

Total expenditure incurred on the scheme : Rs. 290 lakhs

The details of construction of tenements, shops and school buildings for Displaced Persons are given in under :—

Item.	Completed
Residential tenements in Displaced Persons Colonies	38,613
Shops	2,666
School buildings	15

Slum Clearance Scheme :

Government has decided to participate in the Slum Clearance Scheme of the Government of India, which provides for a Central loan of 50 per cent and a subsidy of 25 per cent, on condition that the State Governments and local bodies concerned bear the balance of the cost as their share of the subsidy.

It is proposed to concentrate first on large industrial cities such as Bombay, Ahmedabad, Poona and Nagpur, where slum conditions are bad.

Projects worth about Rs. 412 lakhs have already been forwarded to the Government of India, and that Government has so far sanctioned schemes worth Rs. 399.67 lakhs.

Proposals from other smaller Municipalities have also been called for and the scheme would be extended to these towns, if sufficient funds are available.

Besides the slum clearance scheme sponsored by the Govt. of India, loans are also given by the State Govt. to local bodies for their slum clearance projects not covered by the above mentioned scheme and also for housing their Harijan employees.

MARATHWADA

Brief notes on industrial housing and low-income group houses in Marathwada are given below.

No. of tenements completed upto the end of 1957 : 1,490 (Industrial Labour Houses) ; 267 (Low Income Group) ; Total : 1,757.

No. of tenements under construction : nil.
Total expenditure upto 31st March, 1957 : Rs. 50,37,572.

Size of tenements and no. of each class : 1,377 one-room ; 348 two-room ; 32 three-room. The size of a room is 12' x 9'

Cost of building : One-room Rs. 2,700 ; two-room Rs. 4,600 ; three-room Rs. 7,000.

Rent charged (provisional) : one-room Rs. 10 ; two-room Rs. 18 ; three-room Rs. 26. These are exclusive of water or electricity charges.

The location of these tenements is as follows.
Industrial Labour Houses : Aurangabad 200 ; Latur 200 ; Jalna 283 ; Nanded 807.

Low Income Group : Aurangabad 50 ; Nanded 41 ; Latur 40 ; Parbhani 25 ; Jalna 40 ; Hingoli 15 ; Basmathnagar 10 ; Udgir 15 ; Osmanabad 15 ; Bhir 15.

SAURASHTRA HOUSING BOARD

At the end of 1955, 700 tenements were completed under the industrial housing scheme. The target for the second Plan is a total of 6,034 tenements.

The tenements are one-roomed, with a total floor space (including bath, W.C.) of 276 sq. feet. Each tenement costs about Rs. 3,300. The Government of India has fixed the standard rent at Rs. 10 per month and service charges extra.

The District-wise distribution of the 700 tenements completed is as follows :

Gohilwad 200, Halar 200, Madhya Saurashtra 200, Sorath 40 and Zalawad 60.

During the year 1955-56 the construction of 1,000 subsidised industrial tenements was undertaken by the Board and all are completed and mostly rented. Their District-wise distribution is as follows :

Gohilwad 400, Halar 300, Madhya Saurashtra 200 and Zalawad 100.

During 1956-57 the construction of another 834 tenements was taken in hand and they are mostly completed.

Their District-wise distribution is as follows : Halar 60, Madhya Saurashtra 310, Sorath 240 and Zalawad 224.

During 1957-58, 500 tenements were expected to be constructed. Their distribution is as follows :

Gohilwad 50, Halar 100, Madhya Saurashtra 200, Zalawad 150.

Work in Gohilwad, Madhya Saurashtra and Zalawad is taken in hand.

During 1958-59, 1,000 tenements were to be constructed. Their distribution is as follows :—

Gohilwad 250, Halar 200, Madhya Saurashtra 400, and Zalawad 150. Work not taken in hand.

During 1959-60 and 1960-61, 1,000 S. I. tenements are to be constructed in each year.

With a view to providing fully developed plots to Co-operative Societies and individual applicants for the construction of houses on No Profit No Loss basis, it is proposed to develop land. Government has agreed to the grant of a revolving loan of Rs. 10 lakhs for development of land.

VIDARBHA HOUSING BOARD

Details about subsidised industrial housing schemes and low-income group housing schemes executed by the Vidarbha Housing Board are given below.

Under the industrial housing scheme plans for about 4,400 one-roomed tenements were drawn up during the First Plan period under the Government of India's original as well as the modified schemes of 1949 and 1952. Of these 4,400 tenements, 1,880 were completed.

The area provided by a tenement is roughly 220 sq. feet. The standard cost of building is about Rs. 2,700 inclusive of cost of land. The rent charged is Rs. 10 per month.

Details regarding the town-wise distribution of the tenements built are as follows :

Fifty tenements were built by the Vidarbha Mills at Achalpur. These were completed on May 1st, 1955. They were built under the Government of India's original scheme of 1949.

Under the Government of India's modified scheme of 1952, 460 tenements were built in Nagpur, 100 at Pulgaon and 100 at Hinganghat.

A third scheme was set on foot to construct 1,000 tenements at Nagpur and 200 at Akola. While the 980 tenements at Nagpur were completed, work on the 200 tenements at Akola has not started.

A fourth scheme has been drawn up for the construction of 2,000 tenements in Nagpur, 200 in Akola, 100 in Pulgaon and 200 in Achalpur. But work is still in the preparatory stage.

The ceiling cost of this scheme is now increased. In Nagpur it will be Rs. 3,500 with a rent of Rs. 12-50 per month, and in other towns it will be Rs. 3,300 with a monthly rent of Rs. 12-50.

Under the Low Income Group Housing Scheme, a 30 year loan is advanced to the State Government for disbursement to persons whose income does not exceed Rs. 6,000 a year or to Housing Co-operative Societies consisting of such persons. The loan assistance is limited to a figure not exceeding 80 per cent of the actual estimated cost of the house, inclusive of land, subject to a maximum of Rs. 8,000 per house. In the case of local bodies the loan assistance is limited to a figure not exceeding 80 per cent of the actual cost of the house, including land subject to a maximum of Rs. 2,800 per house. The remaining 20 per cent of the cost will have to be found from the builders' own resources.

The accommodation to be provided in each house built under the scheme, should not be less than 220 sq. ft. of floor area, and normally not more than 1,200 sq. ft. The Housing Board was asked by the old Madhya Pradesh Government to implement the Scheme.

The total amount of loan obtained from Government to the end of March 1957 was Rs. 1,10,93,400. A further sum of Rs. 5,00,000 was received from Government in June 1957 and Rs. 25,12,000 in March 1958 for disbursement during 1957-58 under the Scheme. Thus the total amount of loan obtained from Government was Rs. 1,41,05,000 of which Rs. 1,33,25,438 was disbursed to the end of Sept. 1958.

The progress achieved to the end of Sept. 1958 is as follows :

Period.	Qrs. built by Co-op. Societies.	Qrs. built by Local Bodies.	Qrs. built by Educational Institutions.	Qrs. built by Individuals.
1956-57 to 1958-59 (t.e. to end of Sept. 1958)	1,103	432	37	200
In progress	315	100	9	16

The tenements built under this scheme are being allotted on hire-purchase basis or on outright sale.

AAREY MILK COLONY, 1958

Started : March 1949.

Area : 3,167 acres.

Number of dairy farm units at Aarey : 28.

Number of buffaloes and other stock : 17,500 (including calves) (Aug. 1958).

Total quantity of milk per day from Aarey : 2,350 maunds.

Total quantity of milk per day from Anand : 1,170 mds.

Number of milk distribution centres in Greater Bombay : 963.

Total number of consumers taking milk from Scheme : 15,00,000.

Quantity of toned milk distributed to school children in Bombay city per day : 43,100 (6 oz.) bottles.

Value of milk distributed per annum : Rs. 4,20,00,000.

Number of bottles filled daily at the colony : 4,08,000.

Total quantity of whole milk processed per day : 2,750 maunds.

Total quantity of toned milk processed per day : 2,050 maunds.

Government employees working in the scheme : 5,000.

Private employees of the cattle-owners : 2,500.

Sale price of whole milk per seer : 88 nP.

Sale price of toned milk per seer : 44 nP.

LABOUR

Particulars about labour in Bombay State are given below :

Total number of registered Factories : 11,855 (As on June 30, 1958).

Number of Works Committees functioning : 277 (as on Sept. 30, 1958).

Average daily number of workers employed in factories : 9,54,634 (June 30, 1958).

Number of towns covered as on Sept. 30, 1958, by the :

Bombay Shops & Establishments Act : 88 (Municipal areas).

Saurashtra Shops & Establishments Act : 24 (Municipal areas.)

Central Provinces & Berar Shops and Establishments Act : 21.

Hyderabad Shops & Establishments Act : 46.

Number of industries covered by the Bombay Industrial Relations Act, 1946 : 10 (as on Sept. 30, 1958).

Number of workers covered by the Bombay Industrial Relations Act, 1946 : 5,00,356 (as on Sept. 30, 1958).

Number of registered trade unions in the State : 1,727 (As on Sept. 30, 1958).

Total membership of registered trade unions : 10,79,558.

Number of regd. trade unions affiliated to I.N.T.U.C. : 290.

Membership of unions affiliated to I.N.T.U.C. : 6,53,517.

Number of regd. trade unions affiliated to A.I.T.U.C. : 41.

Membership of unions affiliated to A.I.T.U.C. : 50,658.

Number of regd. trade unions affiliated to H.M.S. : 78.

Membership of unions affiliated to H.M.S. : 1,16,123.

Total number of disputes (1958) : 296.

Total number of workers involved : 2,39,953.

Total number of man-days lost due to the strikes : 12,65,770.

The number of welfare centres in the

(i) Saurashtra and Kutch Areas : 21.

(ii) Vidarbha Area : 5.

(iii) Marathwada Area : 1.

(iv) Remaining Areas of the State : 50.

Attendance at these centres as on 1957-58 :—

(i) Saurashtra & Kutch Areas : 10,55,515.

(ii) Vidarbha Area : 1,632.

(iii) Marathwada Area : 100.

(iv) Remaining Areas of the State : 2,12,27,122.

WAGES

The statement below shows the per capita annual earnings of factory workers during the year 1957 :

Industry.	Earnings Rs.
Processes allied to agriculture ..	151.31
Food except beverages	692.96
Beverages	955.37
Tobacco	461.98
Textiles	1,505.16
Footwear, other wearing apparel and made-up textile goods ..	888.47
Wood and Cork except furniture ..	856.77
Furniture and fixtures	1,284.81
Paper and Paper products	943.81
Printing, publishing and allied industries	1,325.60
Leather and Leather products (except footwear)	904.86
Rubber and rubber products ..	1,132.60
Chemicals and Chemical products ..	1,496.00
Products of petroleum and coal ..	2,113.59
Non-metallic mineral products (except products of petroleum and coal)	832.19
Basic metal industries	1,258.12
Metal products (except machinery and transport equipment) ..	1,297.18
Machinery (except electrical machinery)	1,315.79
Electrical machinery, apparatus, appliances and supplies ..	1,619.04
Transport equipment	1,861.62
Miscellaneous industries	1,245.62
Electricity, gas and steam	2,030.41
Water and sanitary services ..	1,161.14
Recreation services	1,388.22
Personal services	1,068.68

BOMBAY STATE FINANCIAL CORPORATION

The Bombay State Financial Corporation was set up by a notification of the Government of Bombay dated 30th November 1953 in exercise of the powers conferred by the State Financial Corporation Act, 1951.

The Corporation started functioning on 1st December 1953.

With effect from Nov. 1, 1956 the Bombay and Saurashtra State Financial Corporations were amalgamated and the new Corporation is called the Bombay State Financial Corporation, with headquarters in Bombay and branch offices in Rajkot and Nagpur.

The main office is at the United India Building, Sir Phirozesah Mehta Road, Bombay.

The branch office is at Vijay Kunj, Jagnath Road, Rajkot.

The main object of the Corporation is to provide financial assistance to medium and small-scale industrial concerns in the State for purposes of purchase of land, plant and machinery and other assets for renovation and expansion of existing units and for the development of new ones.

Under an arrangement with the Government of Bombay, the Corporation, on behalf of the Government of Bombay, considers applications from small and medium scale units, under the State Aid to Industries Rules from Rs. 10,000 up to Rs. 75,000 and in exceptional cases up to Rs. 1 lakh. Liberal terms are offered to the prospective loanes concerns under the scheme, the rate of interest chargeable being 3 per cent for loans up to Rs. 50,000 and 5 per cent for loans up to Rs. 1 lakh.

Industrial concerns which are eligible for financial accommodation from the Corporation are those engaged in or to be engaged in the manufacture, preservation or processing of goods, or engaged in mining or in the generation or distribution of electricity, or other forms of power.

The Government of Bombay has fixed the authorised capital of the Bombay State Financial Corporation at Rs. 4 crores divided into 400,000 fully paid-up shares of Rs. 100 each of which 200,000 fully paid-up shares of the total value of Rs. 2 crores were issued and subscribed.

The shares of the Bombay State Financial Corporation are guaranteed by the State Government as to the repayment of the principal. Payment of annual dividend at the minimum rate of 3½ per cent. per annum is also guaranteed by the State Government.

The dividend payable on shares of the Corporation is limited to a maximum of 5 per cent. per annum.

In October 1957, the Corporation issued 4½ per cent 1967 10-year bonds of the face value of Rs. 1,16,50,800 at Rs. 99/8 per cent. Repayment of the principal and interest at 4½ per cent on the bonds is also guaranteed by the Government of Bombay.

Rate of interest for loans advanced : 6½ per cent.

The period of loan is decided on merit but will not generally exceed ten years.

The amount of loan is advanced to the extent of 50 per cent. of the net value of the fixed assets, consisting of land, building, plant and machinery.

The Corporation received (inclusive of Rajkot branch) 66 applications during 1957-58 and the total amount of loan applied for exceeded Rs. 1,98,00,000. The Board of Directors of the Corporation sanctioned loans of the aggregate amount of Rs. 3,21,20,000 till that date.

BOARD OF DIRECTORS

Purushottam Kanji (Chairman), Ganesham G. Thakkar, Dr. M. R. Mandekar, T. K. Ramasubramaniyam, Pravinchandra V. Gandhi, D. V. Potdar, V. P. Pandit, P. H. Bhutta, P. C. Malhotra, O. H. Gheewala (Managing Director).

OFFICIALS

Managing Director, O. H. Gheewala, B.A., LL.B. Secretary, B. S. Pochkanawala, B.Sc. (Lond.), Bar-at-Law.

Officer-in-charge, Rajkot Branch, L. D. Dave, B.A., LL.B. Branch Manager, Nagpur, G. S. Joshi, M.A.

MISCELLANEOUS PARTICULARS

The total income of Bombay State is reckoned at Rs. 2,000 crores or about 20 per cent of the national income with a population of 13.5 per cent of the national population.

About 41 per cent of the insurance business is done in Bombay State. Out of about 5,140 banking offices in India about 1,260 are in Bombay State.

The State handles about 41 per cent of the foreign trade of India. The route mileage of railways is reckoned 6,363.

Some miscellaneous facts and figures are given below :
Bombay State Police : 87,364 (1959) ; Home Guards : 16,041.

Handlooms : 2,50,000 (registered : 2,00,000) ; under co-operative movement : 1,00,000.

Tonnage handled by minor and intermediate ports (1956-57) : 2,646,444.

Local Development Works (April 1953—March 1958) : 11,268 completed ; 3,371 in progress.

No. of licensed money-lenders (1957-58) : 12,937. Money advanced in Bombay City Rs. 64.72 crores. In old Bombay State : Rs. 123.14 crores.

About 30.9 per cent of total revenue is spent in salaries and D.A. of Government servants.

Fire-arms licences (1957-58) : 13,834 new, 75,847 renewed, 4,806 cancelled.

Arrears of Sales Tax on March 31, 1958 : Rs. 6,62,91,419.

PROGRESS REPORT

Some points from the progress report for the year 1958-59 are given below :

A foodgrains licensing order has been in force since Nov. 1, 1958. Dealers engaged in business of over 100 maunds have to take a licence and send in periodical returns.

There are about 4,200 fair price shops in the Districts and 1,400 in Greater Bombay.

A household foodgrains card system is now in operation in Bombay and Nagpur and a voluntary card system in Ahmedabad.

An area of 1,38,000 acres came under the irrigation of major and medium works from 1951-52 to 1957-58. About 438 tubewells were dug and nearly 412 wells developed till Oct. 1958. The Second Plan target is 400 new tubewells.

Before the end of Second Plan contour bunding of 17 lakh acres is proposed.

Land has been acquired for 240 seed farms against the Plan target of 323.

There will be a second dairy for Bombay city to handle 7,500 maunds a day in about two years.

There are now about 32,000 co-operative societies in the State with a membership of over 50 lakhs and a working capital of Rs. 251 crores.

Co-operative farming societies 499 ; membership 18,591 ; Paid up capital Rs. 15.64 lakhs ; Reserve fund : Rs. 9.68 lakhs.

About 60 per cent of the villages and 75 per cent of the rural population is covered by village panchayats.

The total number of Development Blocks is 320 covering almost half the rural population.

The recent oil find in Cambay will strengthen the industrial potentialities of the State. A pig iron plant will be established in the Chanda District.

It is proposed to establish 16 industrial estates, of which work on five has already started : Baroda, Poona, Kolhapur, Rajkot and Udhna near Surat.

Of the 18 co-operative sugar factories registered in the State 12 have gone into production and the erection of three more has been completed. The total crushing capacity of the 12 factories is 11,800 tons a day.

There are 24 electric power schemes in the Second Plan, all of which are expected to be completed by the end of the Plan. By the end of 1958-59 about Rs. 1,652.87 lakhs will have been spent.

The provisions of the Bombay Weights and Measures (Enforcement) Act, 1958 in so far as they relate to weights was put into force with effect from 1st Oct. 1958 in certain areas, and in respect of certain undertakings and classes of goods in the whole State.

There is now a 'Ports and Marine Organization' for the ports in the State under the control of a Principal Port Officer and Engineer with headquarters in Bombay.

With effect from 15th Jan. 1959 all industrial establishments employing 50 or more workers would come under the provisions of the Industrial Employment (Standing Orders) Act, 1946.

Employment in any shop or commercial establishment has been added to the schedule to the Minimum Wages Act.

There are 25 Employment Exchanges in the State, and 8 more are to be opened. A scheme of youth employment and counselling service to guide school-leaving boys is to be started in Nagpur and Rajkot.

By the end of 1958-59 about 40.23 lakhs, that is, 54.23 per cent of the total number of children in the age-group of 6-11 would be at school.

Families earning less than Rs. 900 a year will have their children's education free. It is calculated that about 41 per cent of urban and 70 per cent of rural population would benefit.

Over 12,400 tenements for industrial workers involving a total cost of Rs. 5.19 crores will have been completed by the end of the Second Plan. Over 700 tenements for low income groups will also have been completed. For Class III and IV Government servants

(Government constructed 392 tenements in Bandra and work on 600 more is in progress.

The reorganization of administrative machinery as well as the integration is almost complete. There are now Regional Officers in almost all departments.

Progress has also been made in the unification of laws. The Prohibition Act, 1949, was extended to the whole State except the outstall areas of Chanda District from April 1, 1959. Disparities in the rates of revenue assessment and court fees have been evened out.

TENANCY LAWS

In Bombay permanent tenants have full security of tenure and the right to acquire ownership on payment of six times the rent. Other tenants have security of tenure subject to the landlord's right to resume twelve to forty-eight acres of land depending upon the class of soil, for personal cultivation. The tenant is entitled to retain half his land.

All tenants were deemed to have acquired the right of ownership of non-resumable areas (with certain exceptions) on April 1, 1957 and are liable to pay compensation varying from 20 to 200 times the assessment plus value of improvements. The compensation is payable in instalments not exceeding 12 with simple interest at 4 per cent. Permanent tenants were required to pay compensation in lump sum.

The maximum rent is not to exceed two to five times the assessment. In addition, the tenant is required to pay the assessment on the land and the cesses. The total payment is not to exceed one-sixth of the gross produce.

Ceiling on future acquisition has been fixed at 12 to 48 acres of land depending upon the class of soil. The ceiling does not apply to existing holdings under the personal cultivation of the owners.

The Hyderabad Tenancy and Agricultural Lands (Amendment) Act, 1957 and the Bombay Tenancy and Agricultural Lands (Vidarbha Region and Kutch Area) Act, 1958, which grant more rights and protection to the tenants in the respective areas, are important landmarks in tenancy legislation. Inams and Jagirs in Kutch have been abolished by the Bombay Inams and Jagirs (Kutch Area) Abolition Act, 1958, which came into force on the 30th December 1958. The Bill passed for the abolition of the Inferior Village Watans is awaiting the President's assent.

HOLIDAY HOMES

Bombay State has a unique holiday resorts scheme designed to cater for the needs of the lower middle and poorer classes of people, —those with an income of Rs. 500 and less per month.

The scheme was put into effect in Oct. 1957, and the first holiday camp was inaugurated by the Chief Minister at Karla in Nov. 1957.

The period of stay is restricted to provide for as many people as possible during the season. The charges at the Government holiday camps vary from one rupee per head per day for individual visitors to Rs. 2 or Rs. 3 for a family of seven members. There will be cinema shows at the resorts and excursions to nearby places of interest are also included in the Government's scheme.

The holiday resorts are : Mahabaleshwar (5,000 feet above sea level) in North Satara district ; Karla (2,500 feet) in Poona district ; Panhala (2,700 feet) in Kolhapur district ; Matheran (2,200 feet) in Kolaba district ; Bhandardhara (2,400 feet) in Ahmednagar district (under construction) ; Toran Mal (3,400 feet) in West Khandesh ; Chikaldia (3,600 feet) in Amravati district ; Malimal (3,000 feet) in Aurangabad district ; Tithal (a seaside resort) and Umrahi in Surat district ; Chorwad in Sorath (Saurashtra) and Shukladhri in Broach district.

The holiday camps are now provided in every region of the State.

Out of an estimated total expenditure of Rs. 12 lakhs, Rs. 6 lakhs had already been spent on the holiday resorts.

BUDGET 1958-59

Revenue : Rs. 202.27 crores.

Expenditure : Rs. 224.13 crores.

(For details see under 'Late Particulars').

SECOND FIVE YEAR PLAN

The Second Five Year Plan of the reorganised Bombay State involves a total outlay of Rs. 350.28 crores. During the first two years of the Plan period a total expenditure of Rs. 98.14 crores was incurred.

For the year 1958-59 a development programme of the order of Rs. 76.78 crores was drawn up. As against this programme, the revised estimate of expenditure for 1958-59 was Rs. 78.12 crores. Thus by the end of March 1959 an aggregate expenditure of the order of Rs. 176.26 crores is expected to have been incurred, leaving a balance of Rs. 174.02 crores for the last two years of the plan period.

Owing to the difficulties arising from the reorganisation of the State, the foreign exchange crisis in the country, the import restrictions and certain shortages in essential materials like iron and steel which were experienced during the first two years of the plan period, the pace of development was rather slow during the two years 1956-57 and 1957-58. The year 1958-59 showed a better outlook and the development programme was stepped up considerably.

For the year 1959-60 also, it has been possible to raise the tempo of development. Accordingly a programme of the order of Rs. 90.17 crores has been drawn up.

These outlays are exclusive of the outlay on schemes sponsored by the Central Government and executed in this State through the State Government. These Centrally sponsored programmes include National Highways, roads financed from the Central Road Fund, schemes for the rehabilitation of displaced persons and certain special schemes for the Backward Classes and local development works programme.

The expenditure on Central programme is of the order of Rs. 6 crores per annum.

SOME PHYSICAL TARGETS

Item	Unit	Plan Target 1956-61	Achievement March 1958
Foodgrains	000 Tons	1,278	177
Minor Irrigation	000 acres	324	127
Larged-sized Co-operative Societies	no.	1,920	979
Small-sized Co-operative Societies	"	1,695	1,044
Panchayats	"	17,427	6,741
Villages Served	"	34,724	15,073
Additional installed capacity (power)	000 kW	203.51	13.71
Transmission lines	Miles	4,020	1,645
Towns and Villages Electrified	no.	720	338
Route Mileage (Transport)	Miles	Not fixed	18,422
Buses	no.	" 17,014	578
Educational Institutions	"	"	3,476
			(including classes opened)
Pupils :			
Primary	"	7,39,206	4,31,513
Middle Schools	"	1,57,946	1,20,824
Higher Secondary Schools	"	Not fixed	17,501
Training of Teachers	"	19,590	2,703
Additional Beds (Hospitals)	"	3,124	417
Family Planning Centres	"	232	34
Training facilities :			
Doctors	"	1,150	49
Nurses	"	1,430	779
Dias/Midwives	"	3,995	1,083
Housing :			
Units Built	"	—	10,933
Labour Welfare :			
Craftsmen	"	1,828	1,000
Training centres	"	11	11

(Rs. in lakhs)

Head	Plan 1956-61	1956-57	1957-58	Probables 1958-59	Provision 1959-60
I. Agriculture and Community Development—					
(i) Agriculture Production	829.18	56.62	99.48	362.90	401.17
(ii) Land Development	405.83	74.01	70.43	739.10	124.15
(iii) Minor Irrigation	1,201.29	194.76	348.09	128.67	515.11
(iv) Warehousing and Marketing	321.33	11.84	67.54	71.79	89.99
(v) Animal Husbandry	296.18	17.79	28.46	50.07	83.62
(vi) Dairying and Milk Supply	446.36	39.44	44.00	70.39	85.84
(vii) Forests	273.46	19.13	21.64	37.13	53.38
(viii) Soil Conservation	480.21	63.35	80.46	202.66	306.38
(ix) Fisheries	111.52	23.37	26.05	31.02	34.29
(x) Community Development and Rural Development	3,819.04	389.82	507.57	651.93	680.63
(xi) Co-operation	465.10	31.92	66.07	83.34	177.59
(xii) Miscellaneous	29.26	.33	.23	5.87	9.24
Total	3,675.22	922.84	1,355.32	2,434.87	2,561.39
II. Irrigation and Power—					
(i) Multipurpose Projects	4,659.70	308.89	432.55	2,005.18	1,002.60
(ii) Major and Medium Irrigation Projects and Miscellaneous	6,605.87	1,103.94	987.28		1,696.68
(iii) Power Projects	2,393.59	594.63	532.58	519.69	555.34
Total, Irrigation and Power	13,659.16	2,007.46	1,952.41	2,524.87	3,254.62
III. Industry and Mining	1,318.98	163.01	138.06	200.48	226.51
IV. Transport and Communications—					
(i) Roads	2,427.52	564.62	472.74	820.15	636.31
(ii) Road Transport	347.69	87.53	89.93	51.00	59.00
(iii) Ports and Harbours	149.20	27.53	27.75	35.49	45.00
Total, Transport and Communications	2,924.41	679.68	590.42	906.64	740.31
V. Social Services—					
(i) Education	2,994.04	206.26	300.17	425.01	618.53
(ii) Health	2,749.05	330.57	408.97	538.33	663.91
(iii) Housing	1,735.97	293.41	254.49	565.80	559.40
(iv) Other Social Services—					
(i) Labour and Labour Welfare	214.64	3.70	7.20	31.56	74.70
(ii) Welfare of Backward Classes	449.66	38.93	53.50	104.88	136.10
(iii) Social Welfare	167.60	5.18	10.54	26.31	50.03
Total, Social Services	7,610.96	878.05	1,034.87	1,691.98	2,092.67
VI. Scientific and Industrial Research etc.	881.20	42.91	50.33	52.06	141.40
Grand Total	35,069.94				
Deduct allocation for Abu Taluka	— 41.55				
	35,028.39	4,693.40	5,121.41	7,811.74	9,016.90

IRRIGATION PROJECTS

Name.	Location.	When Started*	Date of Completion.	Area to be irrigated (Acres).	Estimated Cost.	Amount spent.
Bagh River Project	Bhandara	1958	During 3rd Plan	Not finalised	3,20,40,000	4,50,313
Banas Project	Banaskantha & Mehsana	6-1957	1966	135,000	8,27,22,000	35,21,022
Bhodar Project	Junagadh	1956-57	1962-63	68,000	3,22,53,800	46,34,000
Bor River Project	Wardha	1956	During 3rd plan	26,250	2,20,00,000	38,97,195
Buedhlal Irrigation Tank	Sholapur	1953	1960	10,575	58,50,000	12,34,439
Dantiwada Project	Chanda	1958	During 3rd plan	Not finalised	1,13,00,000	5,02,225
Ekburjee Tank Project	Akola Dist.	Not started	....	12,000	41,82,024	13,023
Gangapur Project	Nasik & Ahmednagar	3-1956	1961	19,000	87,46,000	32,00,982
Gangapur Storage Project	Nasik	2-1949	6-1954	45,000	3,26,00,000	3,30,23,000
Girna Project	Nasik	3-1957	1961-62	1,42,870	8,64,88,000	76,77,847
Ghod Project	Ahmednagar	1954	1961	69,800	4,84,81,300	3,11,80,270
Harna River Project	Sabarkantha	1955	1962	69,800	26,58,488	32,78,101
Harni Project	Osmanabad	Not started	....	18,000	22,35,000	60,230
Hathmati Reservoir Scheme	Sabarkantha & Ahmedabad	3-1956	3-1963	5,62,000	11,34,51,10,720	11,32,52,720
Itadoh Tank Project	Bhandara	1958	During 3rd plan	Not finalised	91,00,000	5,57,225
Kadakra	Poona	3-1957	1961-62	77,000	10,64,59,200	1,28,39,920
Kadana Reservoir Project	Panchmahals Dist.	11 1955	Not finalised	4,55,000	13,09,00,000	55,45,631
Kakrapar	Surat	11-1947	3-1963	5,62,000	1,13,45,10,720	11,34,52,720
Karod Tank Scheme in Kalol	Pauchmahals	1955	1960	15,200	99,88,800	86,74,923
Katepurna River Project	Akola	1958	During 3rd plan	Not finalised	1,80,00,000	12,67,300
Khasapur Project	Osmanabad	1950	1955	13,500	51,26,600	15,000
Koyna Stage	N. Satara Dist.	....	....	1,00,000	10,75,00,000	....
Krishna Canal (Remodelling)	S. Satara	1954	1961	14,089	44,54,900	41,04,466
Mahli Project (Stage I)	Panchmahals	1954	1965	57,000	4,24,66,729	10,43,54,000
Manad Project	Osmanabad	Not started	....	25,000	1,40,41,000	2,53,841
Mosam River Weir Scheme	Nasik	1953	1959	21,000	57,25,868	29,27,057
Machhu Irrigation Project	Madhya	1949	1960-61	22,000	1,52,02,453	1,23,44,918
Meshwa Project	Saurashtra Dist. Kalra and Sabarkantha.	6-57	1961-62	19,000	1,03,45,000	13,77,646
Mote Fatewadi Canal Scheme .. ..	....	1953	1962	53,000	48,00,000	50,51,958
Moj Irrigation Project	Rajkot	1952	1956	15,000	96,45,395	78,58,610
Mula River Project	Ahmednagar Dist.	1-1957	During 3rd plan	1,37,500	9,12,00,000	81,53,851
Nirona Irrigation Dam & Canal Work	Kutch	Not started	....	9,170	22,00,000	5,000
Nalganga River Project	Buldana Dist.	1956	During 3rd plan	24,500	2,08,00,000	32,01,114
Narmada River Project	Baroda & Broach	Not started	....	9,97,500	23,00,00,000	1,00,000
Osat Irrigation Project	Junagadh	1954-55	1960-61	15,000	46,68,147	43,27,825
Patadungri Tank Scheme	Panchmahals	1953	1959	13,000	62,15,130	54,50,348
Pindrabadi Tank Project	Nagpur	Not Started	....	13,200	25,23,424	1,08,207
Purna Project	Marathwada (Parbhani Dist.)	2-1957	During 3rd plan	10,000	5,53,00,000	68,83,976
Radhanagari Hydro-Electric	Kolhapur	1940	Completed	18,000	1,66,25,000	1,37,57,667
Rudramata Irrigation Canal Works	Kutch	12-1957	1961	17,794	53,88,000	2,09,128
Saraswati Project	Mehsana	Not started	....	9,000	1,66,34,150	9,46,500
Shetrunji Project (Khodinar)	Anreli	6 1957	1961-62	32,000	1,23,92,000	18,89,763
Shetrunji Project (Palitana)	Rajkot	11-1955	1961-62	80,000	4,31,65,640	2,52,71,000
Sindhphnaa alias Ruper Irrigation Project	Osmanabad	Not started	....	12,000	49,00,000	51,00,000
Tarali River Bandhara	N. Satara	....	....	....	13,94,800	12,34,439
Thorala Irrigation Project	Rajkot	....	....	....	68,47,000	60,04,422
Ukal Project	Satara	5-1956	Not known	7,48,000	60,72,95,000	94,51,830
Vir Dam Project	Poona, Sholapur, North Satara.	10-1956	1961-62	99,850	5,41,00,000	14,56,063

* The first figure shows the month, the second the year.

GREATER BOMBAY

The area of Greater Bombay would be about 176 sq. miles and the population over 30 lakhs.

The area of Bombay City is 28 sq. miles and the population 2,329,020 (1951 census). The area of the Bombay Suburban District is about 150 sq. miles and the population about 7 lakhs (1951 census).

The northern boundary runs from the north of Dahisar village in the west, in the centre between the mile stones 21 and 22 on the Agra Road, and in the east north of Mulund Municipality.

The municipal area of Greater Bombay described above is also the area covered by Bombay City and the Bombay Suburban District from the point of view of revenue division.

The Collector for Bombay City is also the Collector for the Bombay Suburban District. Bombay City Collectorate is directly under the Government and is governed in accordance with the provisions of the Bombay City Land Revenue Act of 1876.

The Bombay Suburban District has besides the Collector, one Additional Collector, one District Deputy Collector, one Additional District Deputy Collector and two Mamlatdars one for each of the Talukas Andheri (also called South Salsette) with headquarters in Andheri, and Borivli with headquarters in Borivli. The headquarters of the Additional District Deputy Collector is at Andheri.

There are 30 Presidency Magistrates Courts, twelve Police Divisions and 34 police stations.

There are now six police stations under the Greater Bombay Police in the new area, one each at Borivli, Kandivli, Malad, Goregaon, Aarey and Mulund.

AGRICULTURE

In Bombay Island proper though about 8 sq. miles of unbuilt and undeveloped land is available there is practically no agriculture. Vegetables, flowers and fruit are grown in private gardens and Wadis but on a very negligible scale. In the newly merged areas and the adjoining suburbs, however, extensive paddy cultivation is carried on. Vegetables and fruit are also grown especially during the monsoon. The produce is largely marketed in Bombay.

COMMERCE AND INDUSTRY

Commercially and industrially Bombay is the second, if not the first City in India. It is the principal centre of the cotton textile industry (66 cotton mills with 64,134 looms and 3,160,954 spindles.) Its share in looms and spindles is about 31 per cent and 25 per cent respectively of the total in the country. There are 331 textile factories including silk, woollen and hosiery; 803 engineering undertakings; 188 establishments manufacturing articles of

food, drink and tobacco; 216 establishments producing chemicals, etc.; 50 hides and skins processing concerns, and 809 factories of a miscellaneous character.

There are about 34,127 registered shop-keepers in Bombay.

After Calcutta, Bombay is the biggest financial centre in India. The Stock Exchange, Bullion Exchange and Cotton Exchange regulate trading in stocks and shares of a wide circle of industrial undertakings. The Reserve Bank of India, the central banking and currency authority has its headquarters in Bombay. Thirty-three Scheduled Banks operate in Bombay. Of these six have their headquarters here. There are 15 foreign Scheduled Banks. Of these seven have their principal offices located in Bombay. The head office of the Life Insurance Corporation of India is also located in Bombay.

Being the best natural harbour in India, the trade carried through Bombay is about 46 per cent of the total trade of India. The principal items of import are bricks, cement, sand, etc.; China clay; coal; cotton; glassware; grain; hardware; iron and steel; kerosene; fuel oil; motor vehicle parts; machinery; boilers and railway materials; oilman stores; oils; vegetables, etc.; paper; piece-goods; petrol; sugar; timber; twist and yarn; Government and naval and military stores.

The main exports are coal; cotton; flour; groundnuts; hemp; hides and skins; kerosene and fuel oils; manganese ore; myrobalans; oil-cake; piece-goods; seeds; spices; sugar; wool packages; twist and yarn; Government and naval and military stores.

The total returns to the Central Government from Greater Bombay in customs revenue is about 46 per cent of the total revenue from the seaborne trade of India. The income-tax return to the Central Government from Greater Bombay is about 30 per cent of the total income from the country. The Corporation Tax amounts to about 20 per cent of the total income from this source.

COMMUNICATIONS

From the communications point of view Bombay holds a unique position. There are numerous air routes connecting Bombay with the rest of the country, and it is also directly linked with foreign countries aurally. The head offices of two chief railway systems, the Central and Western Railways are in Bombay which is rail linked with Calcutta, Delhi, Nagpur and Madras. It is the second biggest port and the chief sea communications centre of India. Greater Bombay's transport requirements are met by the local services of the two railways, Central and Western, besides the tram and bus services of the municipalised Bombay Electric Supply and Transport Undertaking.

1951 CENSUS

Note: After the census were taken Greater Bombay was enlarged and a population of about 700,000 was added to it. The census given below do not include particulars about these 700,000 persons. But the census would indicate in a rough way the chief census characteristics of the population of the area.

The number of each religious group in Greater Bombay is given below. The first figure shows the number of males, the second figure the number of females:

Hindus (1,291,004; 748,240); Sikhs (8,617; 5,367); Jains (47,110; 33,000); Buddhists (1,049; 448); Zoroastrians (34,924; 33,736); Muslims (268,902; 148,364); Christians (117,560; 88,639); Jews (9,247; 6,888); Non-tribals (846; 379).

NON-INDIAN NATIONALS

The number of non-Indian nationals in Greater Bombay is given below. The first figure shows the number of males, and the second figure the number of females:

Portuguese (7,398; 4,361); British (2,624; 2,222); Pakistani (1,388; 289); Iranian (1,101; 525); Nepalese (792; 78); Chinese (964; 396); American (320; 174); Afghan (199; 43); Arabian (184; 72); African (48; 35); Burmese (43; 48); German (70; 48); Swiss (79; 65); Ceylonese (105; 30); French (60; 40); Danish (88; 23); Russian (70; 20); Greek (24; 18); Swedish (31; 15); Israelites (43; 32); Italian (33; 28); Spanish (51; 4); Norwegians (55; 11); Australians (32; 14); Eire (23; 31); Iraqi (34; 20).

For the rest the figure is less than 50 for each group.

Beggars: It is reckoned that there are about 15,000 beggars in Greater Bombay. Money spent on charity is about Rs. 36 lakhs a year. Government runs about 15 homes under the Beggar Act with accommodation for about 3,000 inmates. Actually the number living at any time is much more than that. There are eight private institutions with accommodation for about 600 beggars.

AGE AND LITERACY

A ten per cent sample survey by age group showed the following position. The first figure in the brackets shows the number of males, and the second figure the number of females:

Number surveyed (171,940; 103,990); Literates (93,634; 38,847); Illiterates (78,286; 65,149).

Age group 5—9: Literates (5,141; 4,145); Illiterates (7,531; 8,191).

Age group 10—14: Literates (9,007; 6,747); Illiterates (3,833; 3,978).

Age group 15—24: Literates (27,566; 24,400); Illiterates (54,008; 76,571).

Age group 25—34: Literates (40,846; 13,707); Illiterates (51,492; 73,357).

Age group 35—44: Literates (14,527; 4,255); Illiterates (11,530; 7,249).

Age group 45—54: Literates (7,738; 2,106); Illiterates (5,995; 4,682).

Age group 55—64: Literates (3,170; 1,070); Illiterates (2,098; 2,531).

Age group 65—74: Literates (994; 460); Illiterates (467; 924).

Age group 75 and over: Literates (295; 152); Illiterates (143; 406).

OCCUPATION GROUPS

The main occupation groups in Greater Bombay are as follows. The first figure in the brackets shows the number of males and the second figure the number of females:

All Industries and Services

Employers (48,933; 1,614); Employees (879,268; 71,134); Independent workers (215,248; 21,251).

Fishing

Employers (480; 22); Employees (1,694; 125); Independent workers (2,808; 761).

Salt, Saltpetre, Saline substances

Employers (11; 0); Employees (988; 18); Independent workers (10; 2).

Foodstuffs, Textiles, Leather

Employers (4,567; 154); Employees (256,374; 19,558); Independent workers (21,900; 2,497).

Tobacco

Employers (91; 13); Employees (3,151; 1,045); Independent workers (1,719; 1,110).

Textiles

Employers (711; 37); Employees (206,713; 16,405); Independent workers (1,485; 157).

Wearing Apparel

Employers (1,832; 62); Employees (12,368; 314); Independent workers (10,413; 887).

Other Textiles

Employers (139; 4); Employees (11,733; 944); Independent workers (511; 89).

Leather and its products

Employers (336; 1); Employees (5,415; 178); Independent workers (4,704; 76).

Manufacture of Metals and Chemicals

Employers (2,039; 38); Employees (75,532; 1,964); Independent workers (6,049; 227).

Manufacture of Iron and Steel

Employers (131; 5); Employees (6,605; 132); Independent workers (195; 9).

Transport equipment

Employers (236; 7); Employees (22,282; 190); Independent workers (660; 6).

Electrical Machinery

Employers (175; 0); Employees (4,725; 104); Independent workers (598; 18).

Machinery including Engineering

Employers (431; 5); Employees (14,919; 259); Independent workers (1,534; 18).

Medical Preparations

Employers (59; 2); Employees (2,014; 185); Independent workers (67; 83).

Toy products

Employers (53; 1); Employees (1,443; 437); Independent workers (206; 12).

Rubber products

Employers (50; 0); Employees (2,100; 91); Independent workers (75; 2).

Wood and wood products

Employers (399; 10); Employees (16,693; 145); Independent workers (7,266; 303).

Printing and Allied Industries

Employers (600; 16); Employees (15,353; 172); Independent workers (653; 15).

Buildings

Employers (747; 7); Employees (10,004; 1,559); Independent workers (9,443; 296).

Roads, Bridges

Employers (6; 0); Employees (356; 53); Independent workers (34; 0).

Electric Power and Gas Supply

Employers (12; 0); Employees (2,821; 32); Independent workers (209; 1).

Sanitary Works

Employers (23; 1); Employees (8,854; 2,157); Independent workers (471; 100).

Commerce

Employers (28,342; 727); Employees (129,336; 4,744); Independent workers (91,453; 6,979).

Retail trade in foodstuffs

Employers (6,923; 239); Employees (20,469; 781); Independent workers (33,080; 4,595).

Retail trade in fuels

Employers (1,108; 31); Employees (8,389; 227); Independent workers (1,515; 115).

Retail in textile and leather

Employers (3,808; 63); Employees (8,643; 128); Independent workers (8,795; 158).

Wholesale trade in foodstuffs

Employers (710; 49); Employees (1,341; 170); Independent workers (1,724; 105).

Real estate

Employers (70; 4); Employees (2,059; 21); Independent workers (270; 15).

Insurance

Employers (163; 4); Employees (5,964; 148); Independent workers (642; 39).

Money lending, banking

Employers (1,058; 25); Employees (11,907; 350); Independent workers (5,244; 164).

Transport, storage, communications

Employers (1,374; 63); Employees (95,386; 2,491); Independent workers (15,795; 270).

Below we give the totals of some other categories. The first figure shows the number of males and the second the number of females:

Transport by road (33,982; 592); Transport by water (36,962; 601); Transport by air (2,534; 91); Railway transport (24,689; 424); Storage and warehousing (2,835; 417); Postal services (5,965; 216); Telegraph services (1,783; 77); Telephone services (1,657; 315); Wireless services (161; 3); Health, education and public administration (74,889; 12,170); Medical and health services (9,407; 4,466); Educational Services and Research (10,316; 4,334); Police (11,108; 209); Employees of municipalities and local bodies (18,597; 1,281); Employees of State Governments (14,832; 1,337); Employees of Union Govt. (14,715; 511); Employees of non-Indian Governments (172; 26); Services not elsewhere specified (226,880; 34,177); Domestic services (65,784; 21,091); Barbers and beauty shops (9,836; 104); Laundries and laundry services (13,871; 444); Hotels, restaurants, eating houses (46,725; 1,790); Recreation services (13,777; 1,270); Legal and business services (14,000; 1,143); Arts, letters, journalism (3,232; 137); Religious, charitable and welfare services (5,776; 312).

AGE GROUPS

In a 10 per cent sample survey the numbers in the different age groups were as follows:

	Males	Females
0	3,232	3,278
1—4	10,828	10,688
5—14	25,512	23,359
15—24	41,959	23,402
25—34	43,422	19,417
35—44	26,057	11,504
45—54	13,753	6,788
55—64	5,268	3,601
65—74	1,461	1,384
75 and over	438	558

Total number of households: 568,862.

22,695 households were examined in a sample survey. The number of persons living in them was 107,282—66,530 males and 40,752 were females.

Out of these households, the number of small households (3 members and less) was 9,110, and the number of persons living in them was 18,518; of medium households (4 to 6 members) 8,238, and the number of persons 30,699; of large households (7 to 9 members) 3,656, and the number of persons 28,454; of very large households (10 and above) 1,691, and the number of persons 20,611.

THE GREATER BOMBAY CORPORATION

THE municipal area of Greater Bombay is now divided into 18 administrative wards. These are A, B, C, D, E, F, G, H, K, L, M, N, P, R, and T.

For election purposes the municipal area of Greater Bombay is divided into 44 electoral wards—and are numbered 1 to 44.

From a demarcation point of view one or more electoral wards would go to make one administrative ward.

Total no. of seats : 131.

The administrative ward, the electoral ward, the area covered by the electoral ward, and the number of seats allotted to it are given below :

Administrative	Electoral	Area	Seats
A	1	Colaba	2
A	2	Fort	2
A	3	Bori Bunder	3
C	4	Mandvi	2
B	5	Dongri	2
B	6	Umerkhandi	3
C	7	Kharatalao	3
B & C	8	Kumbharwada	3
	9		3
C	10	Dhobi Talao	3
C	11	Fanaswadi	3
C & D	12	Girgaum	3
D	13	Khetwadi	3
D	14	Walkeshwar	3
	15		3
D	16	Tardeo	3
E	17	Kamathipura	2
E	18	Nagpada	2
E	19	Masgaon	3
E	20	Byculla West	4
E	21	Byculla East	3
	22		3
E & F	23	Sewri	3
F	24	Lalbaug	2
E & F	25	Parel	2
F	26	Naigaum	5
F	27	Matunga	2
F	28	Sion	3
	29	Love Grove	4
G	30	Lower Parel	3
G	31	Worli	4
G	32	Prabhadevi	4
G	33	Dadar	4
G	34	Mahim	5
H	35	Bandra East	4
H	36	Bandra West	3
K	37	Andheri Vile Parle (South)	3
K	38	Andheri Vile Parle (North)	4
L	39	Kurla	3
M	40	Chembur	2
N	41	Ghatkopar	3
P	42	Goregaon-Malad	3
R	43	Kandivli-Borivli	3
T	44	Muhund, Tulshi, and Vihar Lake area	1

The municipal government of Greater Bombay vests in the Municipal Corporation, composed of 131 representatives elected on adult franchise.

The Corporation has four statutory committees, the Standing Committee, the Improvements Committee, the Education Committee and the Bombay Electric Supply and Transport Committee.

The executive power in regard to general municipal administration vests in the Municipal Commissioner. The administration of the B.E.S.T. Undertaking, however, vests in the General Manager, B.E.S.T.

The Corporation is required to meet at least once a month. In actual practice it meets twice a week and oftener if necessary. Meetings of the Corporation are presided over by the Mayor who also convenes the meetings. The Mayor's term of office is one year and he is elected at the first meeting in April.

COMMITTEES

The Standing Committee consists of 17 members, 16 of whom are elected by the Corporation. The Chairman of the Education Committee serves as an additional member. Half the members retire at the end of each year. The Chairman is elected by the members of the Committee at the first meeting in April every year. The main functions of the Committee are to sanction contracts, to scrutinise the budget and establishment schedule, frame service

regulations, sanction investment of funds, prescribe the form of keeping accounts and conduct their scrutiny. The Committee meets once every week usually on Wednesdays.

The Improvements Committee consists of 16 Councillors, all of whom are elected by the Corporation. The Chairman is elected for a term of one year, while half the Councillors retire at the end of each year. The Committee is charged with all improvement and development schemes, slum clearance, providing accommodation for the poorer classes and purchase and sale of land which does not exceed Rs. 50,000. The Committee usually meets once a fortnight on Tuesdays.

The Bombay Electric Supply and Transport Committee consists of nine members, one of whom is the Chairman of the Standing Committee (ex-Officio), while the remaining members are appointed by the Corporation from among persons who (may or may not be members of the Corporation) have experience of administration, transport or electric supply, or of engineering, industrial, commercial, financial or labour matters. The Chairman is appointed by the members for a period of one year, while half the members retire every second year. The Committee usually meets every Friday; and the Chairman and members are paid a fee for attending the meetings. The Committee exercises general control over the electric supply and transport undertakings of the Corporation.

The Education Committee consists of 16 members, of whom 12 are Councillors and 4 non-Councillors of whom two have to be women. The Chairman of the Committee is elected for a period of one year, while half the members retire at the end of each year. The Committee usually meets on the first Friday of every month. The main function of the Committee is to administer the Primary Education Act or any other law for that purpose for the time being in force.

Besides the Statutory Committees mentioned above there are four Special Committees appointed by the Corporation. These are 1. the Works Committee, 2. the Medical Relief and Public Health Committee, 3. Markets and Gardens Committee, and 4. Law, Revenue and General Purposes Committee. Each Committee consists of 24 Councillors appointed by the Corporation after each general election. There are a Chairman and a Deputy Chairman for each Committee who are elected by the members and who hold office for one year. All questions that are due to go before the Corporation must first be considered by the appropriate Special Committee which then makes its recommendations to the Corporation.

Then there are a number of *ad hoc* Consultative Committees appointed from year to year, to which the Corporation can refer any matter for consideration and report.

The four most important officers of the Corporation are the Municipal Commissioner, the General Manager of the Undertaking, the Municipal Secretary and the Municipal Chief Auditor.

The Municipal Commissioner is at the head of the Executive. He is usually a senior member of the Indian Civil Service and is appointed by the Government for a renewable period of three years. He can be removed by the Corporation by a five-eighths vote. If however Government desires to revert him to their service the consent of the Corporation is necessary. He attends meetings of the Corporation and Committees but does not vote. He is assisted by three Deputy Municipal Commissioners with one Assistant Commissioner.

The General Manager of the Undertaking is in the same position to the Electric Supply and Transport Undertaking as the Municipal Commissioner is to the Corporation as a whole. He is appointed by the Corporation subject to the approval of the Provincial Government for a renewable period of not more than five years at a time. He can be removed by the votes of not less than half the total number of Councillors. He attends the meetings of the B.E.S.T. Committee and takes part in the discussions but does not vote.

The Municipal Secretary is in charge of all the secretarial work pertaining to the Corporation and its Committees. He is independent of the Commissioner and is directly under the Standing Committee.

The Municipal Chief Auditor is also independent of the Commissioner and is directly under the Standing Committee.

EDUCATION, MEDICAL

Primary education is free and compulsory in the Lower Primary standards of Municipal Schools all over Greater Bombay. It is the special responsibility of the Corporation.

But only about 81 children out of 100 receive an education.

From 1958 the benefit of free education has been extended to the upper primary classes too.

There were on March 31, 1958, 670 Municipal Schools and Classes conducted by the Education Committee and 396 Aided or Recognised Schools to which the Corporation makes grants or gives recognition. The total number of pupils in all Primary Schools on December 31, 1957 was 3,74,007 out of whom 2,73,140 were in Municipal Schools and 1,00,867 in Aided Schools. The Corporation spent Rs. 1,81,38,133 on primary education in 1957-58. Of this Government contributed Rs. 33,43,955.

To meet the growing expenditure on primary education the Corporation decided for the first time in 1958 to levy an education cess at 1½ per cent.

The Municipality maintains the Victoria and Albert Museum at Victoria Gardens and 17 free reading rooms and libraries.

As for medical relief the Municipality conducts one large fever hospital (Arthur Road), and three large general hospitals (K.E.M., Nair and Sion*) and four hospitals, an isolation centre and three clinics for tuberculosis patients, while in the suburbs there are two general hospitals and a provision for 100 beds for T.B. patients. Then there are 42 free dispensaries, nine maternity homes, 15 ante-natal clinics, 22 family planning clinics, one venereal diseases clinic, one eye hospital, and dispensary and dental clinics.

WATER SUPPLY

The water supply of the City is drawn from four lakes: Tansa, Vihar, Tulsi and Vaitarna. The Tansa Lake can supply more than 100 million gallons per day and is the main source of water supply. It is situated about 66 miles north-east of Bombay. The Vihar Lake can supply 20 million gallons a day exclusively to the north-east part of the City and also partly to Chembur and Kurla. It is situated about 18 miles north of Bombay. The Tulsi Lake which is to the north-west of Vihar Lake supplies about 4 million gallons a day to H, K and L Wards.

The Vaitarna Lake feeds the Tansa at present, and in combination the latter can supply 147 million gallons per day.

Under Section 140 of the Bombay Municipal Corporation Act the Corporation can levy water tax on buildings, lands and premises in the City. The tax is fixed as a certain percentage of the rateable value of the building, land or premises. The rate in 1958 was 3½ per cent which is proposed to be increased to 4½ per cent. Under section 169 the water supplied can also be charged on meter measurement and at the rates prescribed from time to time by the Standing Committee. Water tax is the first charge on a property under Section 141, and can be recovered from the owner by distress (Sections 203, 204) and is also recoverable from tenants by authorizing them to make payments from their rents (Section 209). The supply of water to any premises can be cut off in default of payment of water tax or any sum due for water or hire of meter or expenses of work done (Section 279(1)(d)). Copies of Water Charges Rules can be had from the office of the Hydraulic Engineer on payment of a sum of annas 8 per copy.

The obligatory duty of the Corporation to supply an adequate quantity of water relates to the provision of supply only up to the boundary of the premises, as distinguished from the distribution of water within the premises. Any premises can be served by means of one communication pipe only, the size of which depends upon the quantity of water needed in the premises. The owner can have separate connections to each floor provided he pays the cost of all the connections but one.

If the Municipal Commissioner finds that any premises are not provided with an adequate supply of pure water he has the power under Section 271(2) to compel the person who pays the property tax to obtain an adequate supply from a Municipal Water Works and carry out all such works as is necessary for a proper distribution of the water.

No one except a licensed plumber can undertake work on water-pipes and fittings and no person can allow any such work to be done by anyone except a licensed plumber.

For purposes of distribution Bombay is divided into 3 parts, called A Division, B Division and C Division. Broadly speaking, the A Division consists of the areas of Clerk Road, Hornby Vellard up to Jacob Circle, Lamington Road, part of Grant Road, Kika Street, Abdul Rehman Street and Carnac Road up to the Victoria Dock in the north, and on the west coast along Back Bay, Wakeahwar, Nepean Sea Road and Warden Road up to Clerk Road Junction—this Division is served by the Malabar Hill Reservoir.

Division B consists of the localities of Kalachowki Road, Beay Road, Coal Bunder in the north, on the eastern coast up to Carnac Road, Abdul Rehman Street, Kika Road, Falkland Road and part of Grant Road up to Lamington Road in the south, in the west Lamington Road and Arthur Road and finally some areas of Dongri and Mandvi and Mazagon. The whole of this Division is supplied from the Bhandarwada Hill Reservoir. The C Division, that is the north of the Island is served directly from the Trunk mains as they enter the City.

The amalgamated areas of the former Bombay Suburban District are divided into five wards for purposes of water supply H, K, L, M and N, with two Assistant Engineers in charge, one looking after H and K Wards and the other after L, M and N. The supply is throughout metered.

Total water supplied per day: 146 mln. gallons after completion of the first phase of Vaitarna-Tansa Scheme. When the scheme is completed the total supply is expected to be 220 million gallons a day.

The Tansa supply is chlorinated at the Chlorination Plants of Powai and Ghatkopar, while the Vihar supply is sterilized at Powai.

There is regular bacteriological and chemical analysis of water carried out by the Municipal Analyst.

PUBLIC HEALTH DEPARTMENT

The Public Health activities are carried on under the direct control and supervision of the Executive Health Officer. The Department is divided into several branches such as environmental sanitation, food sanitation, vital statistics, prevention and control of communicable diseases, maternity and child hygiene, medical relief and health propaganda.

Environmental sanitation comprises inspection and supervision of premises, provision of public sanitary conveniences, sanitary control over factories, licensable trades, overcrowding.

The veterinary staff inspects the stables in the city and are also in charge of the bullock hospital and segregation sheds in Mahalaxmi.

For purposes of sanitation, registration and vital statistics the city is divided into five divisions, each division being under the charge of an Assistant Health Officer who is directly responsible to the Executive Health Officer.

For the hygienic control of foodstuffs including milk trade there are Milk Sub-Inspectors and Sanitary Inspectors.

For pest control there is an Insecticide Branch.

The vaccination staff includes a Superintendent, a Head Vaccinator, a number of Vaccinators including a Lady Vaccinator. There are 67 permanent public vaccination stations 5 of which work daily at: 1. The Central Vaccine Depot, Parel, 2. The Sanitary Institute Building, Dhobi Talao, 3. Arthur Road Hospital, 4. Municipal Suburban Offices, Wakefield Road, Bandra, and 5. Municipal Office, Gazdar Hall, Andheri. The remaining centres work on one day every week by rotation for about 2½ hours. Besides, 4 additional temporary centres work one day every week for 2½ hours.

Hygiene includes maternity and child welfare, family planning and school health.

There are five Maternity Homes in the city, each in charge of a Lady Medical Officer. Twenty Health visitors, do the follow-up work and domiciliary care under the direction of the Lady Medical Officers. A small maternity unit is conducted at Dharavi. Expectant mothers are encouraged to attend ante-natal clinics, of which there are 15 in number. The five Maternity Homes are at Cadell Road, Victoria Road, Bellasis Road, Khetwadi and Imamwada Road. And child welfare clinics are conducted (besides the Maternity Homes) at Ferguson Road Dispensary, Dadar Main Road Dispensary, Labour Welfare Centre at Arthur Road Chawli, Ambewadi Dispensary at Parel Tank Road, District Dispensary at Souter Street, Tardeo Flats Dispensary, District Dispensary at Charni Road, District Dispensary at Panjrapole, Palton Road Stables Dispensary, District Office at Kolsa Mohalla.

There are Family Planning Clinics at 264, Charni Road; Bai Gulbai Choksy Dispensary at Dr. D'Silva Road, Dadar; Bellasis Road Maternity Home; Victoria Road Maternity Home; Imamwada Maternity Home; Cadell Road Maternity Home; and Khetwadi Maternity Home; Municipal General Hospital, Sion; and fourteen other Centres.

School Health Work is limited to Municipal Schools only and is under a Medical Officer. Children found to have defects are taken for treatment in school buses to the school clinic at K.E.M. Hospital. Dental care is given at the Dental Clinic at the Bai Yamunabai L. Nair Hospital. Undernourished children in municipal schools are given free milk and snacks on working days.

The Public Health Laboratory which is under the charge of a Municipal Analyst conducts routine and special examinations of water, sewage, food, urine, blood and sputa of patients at Municipal Institutions.

The Conservancy Branch is under the City Engineer, who is assisted by a Public Health Engineer. Under him are Supervisors, Senior Overseers, Junior Overseers, Depot attendants, etc.

Conservancy includes cleansing of streets, etc., removal and disposal of refuse, destruction of rats and dogs, veterinary service, removal of carcasses, disinfection, ambulance and so on.

The Veterinary staff is under a Senior Veterinary Inspector, who has a number of Junior Inspectors and qualified veterinary surgeons.

Medical Relief is given at the following general hospitals: K.E.M., Nair, Sion Municipal Hospital*, R.P.T.B. and Arthur Road, at Municipal Free dispensaries and one Eye Dispensary and Hospital.

There are dispensaries at 55, Rajwadekar Street, Colaba; 303, Frere Road, Fort; 250, Vallabhbhai Patel Road, Dongri; 212(1) Panjrapole Street, Bhulashwar; 264, Charni Road, Girgaum; 15-17, Khetwadi First Lane; 1, Souter Street, Byculla; 143, Foras Road; Bai Gourabai Dispensary, Kamathipura 8th Lane; Bai Gulbai Choksy Dispensary, D'Silva Road, Dadar; B.D.D. Chawl, No. 48, Worli; 2130, Delisle Road; 245(H) and (I), Dharavi Road; New Parbadevi Road and Cadell Road Junction; Mulji Bhuvan, Sewri New Road; New Chawl, Ambewadi, Parel Tank Road; 160-160-A, New Delisle Road; Tardeo Flats, Mahalaxmi; Connaught Road, Byculla; Chembur Dispensary, Chembur; King George V Infirmary, Baines Road, Mahalaxmi; Palton Road; Zandu Ayurvedic, Gokhale Road (South),

* Now called Lokamanya Tilak Hospital.

Dadar ; Dadar Main Road, Municipal Chawl No. 1 ; Waterfield Road ; Kherwadi, Khar East ; Vile Parle ; Andheri ; Jogeshwari ; Versova ; Kurla ; Bhandup and Ghatkopar.

The Eye Dispensary is in Bai Lingubai Building in Kamathipura where an eye hospital is also located.

There are also physiotherapy and occupational therapy centres school clinics, a rehabilitation and training centre for the crippled, family health centre and a convalescent home at the K.E.M. Hospital ; dental clinics at the Nair Hospital Dental College ; and the benefit of a paying-beds scheme at the Sion Hospital.

The Bombay Civic Journal

To stimulate civic awareness and promote closer contact with the public, the Corporation has been running an illustrated English monthly called 'The Bombay Civic Journal' from March 1954. It deals with the activities and problems not only of the Bombay Municipality, but also of other local bodies all over the country and seeks to foster 'an objective discussion of civic issues and the larger questions relating to local self-government from the national angle.'

Editor, U. G. Rao ; Advertisement and Circulation Manager, R. S. Shanbhag.

Another new development has been the starting of a Public Relations Department in February 1956 to attend to complaints from the public and do publicity. The old Propaganda Section of the Public Health Department and the Ward Officers' section were merged in it.

HISTORY

One of the earliest self-governing institutions in the country, with a history of autonomous functioning going back to nearly a century, the Bombay Municipal Corporation had until 1950 a territorial jurisdiction more or less confined to the seven islands of Bombay, with an area of 26 square miles and a population of about 23 lakhs.

Owing to the rapid growth of population during and after the war years, the lack of room for expansion within the existing limits, the increasing dependence of the suburbs on the City for essential services like water supply, medical relief and fire protection and the need of a proper pooling of resources and a co-ordinated plan for development, it was found necessary to merge the suburbs in the City proper to constitute Greater Bombay. This came about on April 15, 1950.

It brought a territory of about 70 square miles, with a population of five lakhs, under the control of the Corporation, and the strength of the civic body was raised from 117 Councillors to 135, to be reduced later to 124 by the abolition of the representation to various public organisations.

Six years later, following the decision of Parliament to create the bigger bilingual State of Bombay, it became clear that the importance of Bombay as a political, commercial, industrial and educational centre would increase, resulting in a large influx of population from the newly-merged territories and also necessitating major plans of development.

Finding that it is imperative that the limits of the Municipality should be further extended the Corporation passed a resolution on September 20, 1956, requesting the State Government to take urgent steps to merge the following areas in Greater Bombay to promote co-ordinated development : (1) Borivli Taluka of Thana District excepting the villages of Bhayander, Dongri, Ghodbunder, Kashi, Mire, Murdhe and Uttan ; and (2) the villages of Mulund and Nahur in Thana Taluka of Thana District.

The requisite legislation being passed, a territory, extending about 79 square miles with a population of about two lakhs, was absorbed in Greater Bombay on February 1, 1957, and the membership of the Corporation was increased by seven to 131 to give adequate representation to what have come to be known as the extended suburbs.

The new areas have been divided for administrative and electoral purposes into three wards : P Ward (Goregaon-Malad), R Ward (Kandivli-Borivli) and T Ward (Mulund).

Thus in the course of about seven years, from 1950 to 1957 the Corporation saw almost a seven-fold increase in the extent of its territory.

Greater Bombay now spreads over 175 square miles from Colaba to Dahisar on the Western Railway and to Mulund on the Central Railway, with a population of over 30 lakhs according to the census of 1951.

In the process of amalgamation with Bombay City, the old Municipal Boroughs of Bandra (established in 1876), Kurla (estd. 1877), Parle-Andheri (estd. 1931), Juhu (estd. 1921), Ghatkopar-Kirol (estd. 1916), Malad, Kandivli and Mulund have ceased to exist.

Meeting the civic needs of this vast territory as already mentioned are the following statutory authorities : the Corporation ; the Standing Committee ; the Improvements Committee ; the Bombay Electric Supply and Transport Committee ; the Education Committee ; the Municipal Commissioner ; and the General Manager of the B.E.S.&T. Undertaking.

A notable feature of the Act governing the Corporation is that while the municipal government of the City vests in the Corporation except where it is otherwise expressly provided, the executive power in regard to ordinary municipal administration is vested in the Commissioner.

With regard to the B.E.S.&T. Undertaking, the General Manager enjoys executive powers similar to those of the Commissioner in the Corporation.

The Corporation has been a pioneer in many spheres of civic activity. It was the first in the country to experiment with adult franchise, introduce free compulsory education at the primary stage, to be extended in 1958 to the upper primary classes, to own and administer urban transport and electric supply, to undertake trading, supply free milk and snacks to under-nourished school children, and to promote family planning.

Other notable activities of the Corporation have been the institution of a permanent Mayor's Fund for the relief of distress, building of a dormitory for the homeless in the City, starting of physiotherapy and occupational therapy schools and centres, and several new ventures in medical relief, education and research ; conduct of two medical colleges and a dental college, the creation of a family health centre and a health museum, and the running of a regular monthly publication, 'The Bombay Civic Journal', for publicising the activities of the Corporation and of other civic bodies and for promoting discussion of civic issues.

Other activities include the production of films for health education, the introduction of various modern devices for traffic control, starting of a unit for research in primary education, the opening of a municipal bank, the building of an open-air theatre for the recreation of citizens, holding of civic exhibitions, organisation of Health and Cleanliness Weeks and the starting of a department of preventive and social medicine at the Topiwala National Medical College and a convalescent home at the K.E.M. Hospital and maintenance of a swimming pool.

A vast new five-storied structure, designed to accommodate the numerous scattered departments of the Corporation, was built by the side of the old head office and declared open on February 5, 1958.

The City Engineer's, the Special Engineer's and the Hydraulic Engineer's departments are all now housed in the new building.

The new building has lounges, party rooms and committee rooms for Councillors and also accommodates the Estate Agent and Land Manager's Department and the Public Health and Public Relations Departments.

The Corporation, however, continues to meet in the Corporation Hall in the old building.

The administration of the suburbs was put under a Deputy Commissioner with offices in Bandra. The Deputy Commissioner is helped by an Assistant Commissioner.

GREATER BOMBAY

Below we give particulars about Greater Bombay :

No. of Hospitals (Municipal, Government and Private) : 18.
No. of Municipal Hospitals : 7.
No. of Municipal Dispensaries : 42.
No. of Primary Schools (Municipal and Private) : about 1,056.
No. of pupils in all Primary Schools : about 3,74,000.
No. of Municipal Primary Schools : 670.
No. of children in Municipal Primary Schools : 2,73,140.
No. of teachers in Municipal Primary Schools : 7,246.
No. of Medical Municipal Colleges : 3 including a Dental College.
No. of Motor Vehicles : More than 40,000.
Road Mileage : about 466.
No. of Markets (municipal and private) : 60.
No. of gardens, open spaces etc. : about 115.
No. of Fire Brigade Stations : 12.
Total no. of Municipal employees : 26,685.
Annual wage bill of employees : Rs. 66 lakhs.

CITY

Below we give some facts about the City for 1958-59 :

Area of the City	16,782 acres (26·189 square miles).
Population	2,329,020 (according to census of 1951).
Density of population	139 per acre.

INCOME :—

General Tax at 17 per cent and Fire Tax at 4 per cent	Rs. 4,20,64,645
Water Tax at 3½ per cent including other receipts from Water Works	2,61,11,390
Halalkhore Tax at 3½ per cent including receipts from special service	85,94,345
Total income (including revenue from other sources)	11,03,06,371
Rates charged for water connections by measurement	From As. 12 to Rs. 2-6-0 per 1,000 gallons according to class of property.

EXPENDITURE :—

	Rs.
Primary Education (including suburbs) ..	2,14,85,345
Medical Relief and Education	1,31,04,003

Water Works—

Maintenance etc. .. Rs.	33 11,874
Debt Charges	2,00,68,789
	2,33,80,663

Public Health	47,31,671
Fire Brigade	18,57,104
General Supervision, Collection of Revenue etc. ..	36,22,849
Contribution to Education Budget	1,21,70,590
Grants-in-aid to Public Institutions	9,29,500
Debt charges (excluding Water Works)	1,13,83,211
Total expenditure including other items	11,16,57,557

The following facts relate to 1957-58 :

TAXES, LOANS ETC. :—

Incidence of taxation per head	39-10
Total rateable value of properties	26,64,32,986
Properties registered in the Assessment Book ..	55,040
Rateable value per head of population	114-55
Number of vehicles and animals taxed	49,968
Demand in respect of Urban Immovable Property Tax levied by Government and collected by Municipality for the year	1,11,16,081
Amount collected including previous arrears ..	1,09,39,500
Debts outstanding	36,04,53,331
Redemption or Sinking Fund in hand or invested ..	7,13,12,298
Net loan debt	28,91,41,037
Net debt per head of population	124-14

BIRTHS AND DEATHS

Total number of births registered during the year (1957-58)	64,526
Birth rate per thousand living	27-7
Total number of deaths during the year	33,164
Death rate per thousand of population	14-2

Budget, 1959-60

Here are a few salient features of the City Budget for 1959-60 as presented to the Corporation by the Chairman of the Standing Committee :

	Rs.
Opening balance on April 1, 1959	1,02,31,000
Income on existing basis of taxation	11,92 81,000
Expenditure	12,31,75,000
Deficit	38,94,000
Total (surplus)	63,37,000
Anticipated savings in expenditure	40,00,000
Closing Balance	1,03,37,000

Loan Works—

Out of a total provision of Rs. 548 11 lakhs proposed for the loan works programme for 1959-60, Rs. 481 44 lakhs are for works in progress and Rs. 36-64 lakhs for new works, Rs. 17-53 lakhs for plant and machinery to be purchased out of advances from Special Funds, and Rs. 12-5 lakhs for discount and other charges on New Loan.

Among the major allocations are : Master Plan for distribution of water supply in City Rs. 95 lakhs; Vaitarna-cum-Tansa Scheme Rs. 17 48 lakhs; acquisition of land for extension of B.Y.L.N. Charitable Hospital and T.N.M. College Rs. 20-38 lakhs; enlarging of Faust Water Main from Keshell Anchor Block to Kaparbandi Anchor Block Rs. 25 lakhs; re-modelling of Colaba Sewerage Scheme Rs. 25 lakhs; provision for housing accommodation Rs. 25 86 lakhs; installation of purification plant at Love Grove Rs. 20 lakhs; cost of survey and acquisition in connection with the town planning scheme for the area near Masjid Station Rs. 15 lakhs; improving sewerage system in various parts of the City Rs. 13-17 lakhs.

Some interesting minor items are : acquisition of sites rendered vacant by house collapses in the City for various municipal purposes Rs. 6 lakhs; development of the interior of the northern part of the island at Mahlin Rs. 10 lakhs; construction of an industrial estate building on Bapty Road Rs. 5 lakhs; construction of a vehicular subway near Princess Street Junction Rs. 3 lakhs; provision of extra accommodation at Lokamanya Tilak Hospital at Sion Rs. 12-54 lakhs; construction of a hostel building for 120 male students of the National Medical College Rs. 4-25 lakhs; extension of the purification plant at Dadar Rs. 10 93 lakhs; street improvement at different places Rs. 5 lakhs; acquisition of land for shifting cemeteries at Haines Road Rs. 3 lakhs; treating with 3" asphaltic concrete the surfaces of different roads in the City Rs. 4 lakhs.

Capital Account :

The Capital Budget for 1959-60 has made provision for works already in progress and for certain new works. The expenditure on Improvements and Street Scheme (proper) has been estimated at Rs. 105-60 lakhs. Some of the principal items for which provision has been made are : housing accommodation for the poorer classes Rs. 20 lakhs; construction of 464 tenements and a shopping centre off Road No. 26—Sewri-Wadala Estate Rs. 8-5 lakhs; cutting of Worli Hill Rs. 8 lakhs; provision of sewerage from Sion Junction to the terminus of the Sion Causeway Rs. 7-19 lakhs; construction of 144 tenements on municipal plot at Road No. 15, Scheme 57, Sewri-Wadala Estate Rs. 6-10 lakhs.

SUBURBS

The following particulars relate to the year 1958-59 :

Area of the Suburbs	43,398 acres
Population	510,250 (according to the census of 1951).
Density of population	11-75 per acre

INCOME :—

General Tax at different rates varying from 10 per cent to 17 per cent and Fire Tax at $\frac{1}{2}$ per cent	Rs. 77-40 lakhs.
Water Tax by measurement (including other receipts from Water Works)	" 55-38 lakhs.
Halalkhore Tax at $\frac{3}{4}$ per cent including receipts from special service	" 10-40 lakhs.
Grant-in-aid from Government	" 16-78 lakhs.
Share from City Budget under Town Duties	" 17-37 lakhs.
Total income, including revenue from other sources	" 208-77 lakhs.
Rate charged for water supplied by measurement	From Rs. 0-75 to Rs. 2-25 per 1,000 gallons according to class of property.

EXPENDITURE :—

Education (Secondary)	Rs. 9-256 lakhs.
Medical Relief and Education	" 8-24 lakhs.

Water Works—

Maintenance etc. .. Rs.	50 75 lakhs.
Debt Charges	" 7 30 "
	" 58-05 lakhs.
Public Health	" 10 52 lakhs.
Fire Brigade	" 1 69 lakhs.
General Supervision, Collection of Revenue etc. ..	" 10 29 lakhs.
Grants-in-aid to Public Institutions	" 0 82 lakhs.
Debt charges excluding Water Works	" 27 27 lakhs.
Total expenditure including other items	" 233 26 lakhs.

The following particulars relate to 1957-58 :

TAXES, LOANS ETC. :—

Incidence of taxation per head	Rs. 30-48
Total rateable value of properties	" 5,24,24,869
Properties registered in the Assessment Book ..	" 42,731
Rateable value per head of population	" 102-74
Number of vehicles and animals taxed	" 4,637 (excluding those taxed under Public Conveyance Acts).

Demand in respect of Urban Immovable Property Tax levied by Government and collected by Municipality	Rs. 32 37 lakhs including arrears of previous years.
Amount collected including previous arrears ..	" 16 59 lakhs.
Debts outstanding	" 3,20 45 lakhs.
Redemption or Sinking Fund in hand or invested	" 48-82 lakhs.
Net Loan Debt	" 2,71 02 lakhs.
Net debt per head of population	" 53-23

BIRTHS AND DEATHS :—

Total number of births registered during the year (1957-58)	22,612
Birth rate per thousand living	44-3
Total number of deaths during the year	6,752
Death rate per thousand of population	13-2

Budget, 1959-60

Here are a few salient features of the Budget for the Suburbs, (1959-60) as presented to the Corporation :

Estimated Opening Balance on April 1, 1959	Rs.	54,60,000
Income on present basis of taxation		2,37,21,000
Expenditure		2,63,15,000
Deficit		35,94,000
Total (surplus)		18,66,000
Deduct—Advance for Plant and Machinery		Nil
Closing Balance		17,66,000

Loan Works—

The Loan Works Programme for the suburbs to be carried out in 1959-60 includes the completion of works already undertaken and also certain new works considered necessary in connection with roads, hospitals, water supply, drainage, construction of a new fire station, provision of gardens and open spaces, construction of markets and provision of village amenities. Of the total amount of Rs. 208.54 lakhs proposed for 1959-60, Rs. 147.55 lakhs are for works in progress and Rs. 60.99 lakhs for new works.

The more important of the new works proposed are : widening of Bombay-Agra Road between Sion Causeway and Kamani Metal Works, Kuria, Rs. 5 lakhs; widening of Ghodbunder Road and provision of footpaths between Andheri Level Crossing and Oshivara, Jogeshwari, Rs. 3 lakhs; widening of Sion-Trombay Road, Rs. 2 lakhs; town planning scheme, Ghatkopar, Rs. 1.67 lakhs; town planning scheme, Santa Cruz, Rs. 1.66 lakhs; laying water main for proposed housing colony at Vikrolli, Rs. 1.48 lakhs; and acquisition of land and construction of semi-permanent structures at Golibar, Santa Cruz, Rs. 1 lakh.

EXTENDED SUBURBS

The following particulars relate to 1958-59 :

The extended suburbs, merged in Greater Bombay on February 1, 1957, consist of areas once forming part of the municipal districts of Malad, Kandivli, Borivli and Mulund, village panchayats of Goregaon and Dahisar and 34 villages of the Thana District where there was no municipal administration of any kind, though certain functions were being performed by the District Local Board of Thana.

Area of the Extended Suburbs	About 48,000 acres (75 sq. miles).
Population	About 1.59 lakhs (according to the census of 1951).
Density of population	About 3.6 per acre.

INCOME :—

General Tax at different rates varying from 6 per cent to 17½ per cent	Rs.	17.89 lakhs.
Water Tax (including other receipts from Water Works)		12.06 lakhs.
Halalkhore Tax at 3½ per cent including receipts for special service		2.87 lakhs.
Grant-in-aid from Government		3.00 lakhs.
Share from City Budget under Town Duties		3.87 lakhs.
Total income, including revenue from other sources		44.58 lakhs

EXPENDITURE :—

Education (Secondary)	Rs.	0.06 lakh.
Medical Relief and Education		1.75 lakhs.
Water Works		12.36 lakhs.
Public Health		1.14 lakhs.
General Supervision, Collection of Revenue etc.		2.48 lakhs.
Grants-in-aid to Public Institutions		0.018 lakh.
Total expenditure including other items		43.33 lakhs.

Budget, 1959-60

Here are a few features of the Budget for the Extended Suburbs (1959-60) as presented to the Corporation :

Estimated Opening Balance on April 1, 1959	Rs.	9.03 lakhs.
Income on the present basis of taxation		45.26 lakhs.
Expenditure		51.97 lakhs.
Deficit		6.71 lakhs.
Closing Balance		2.32 lakhs.

Loan Works—

Out of a total expenditure of Rs. 39.25 lakhs proposed for the loan works programme for the Extended Suburbs in 1959-60, Rs. 16.4 lakhs are for works in progress and Rs. 22.85 lakhs for new works. Some of the more important items for which provision has been made are : improving and widening of Ghodbunder Road from Oshivara Bridge to Goraswadi Rs. 1.69 lakhs; improving and widening of the same road from Goraswadi to Borivli Railway Level Crossing Rs. 1.44 lakhs; laying of 9" and 6" mains along the Ishwarbhai Patel Road and cross-roads at Goregaon Rs. 1.26 lakhs; provision of village amenities Rs. 1.22 lakhs; construction of Harijan quarters at Goregaon Rs. .63 lakh; widening of bridge on nullia at Malad Rs. .56 lakh. The bulk of the expenditure proposed is for laying water mains in various parts of the Extended Suburbs, provision of sewerage and construction and improvement of roads.

B.E.S. & T. UNDERTAKING

The following particulars relate to 1957-58 :

Total staff in the whole Undertaking	16,084
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Tramway Section—

No. of vehicles	275 plus 26 trailers
Route Mileage	21.611
No. of passengers carried during the year	17,40,84,945
Total income for the year	Rs. 1,22,18,162
Total expenditure	1,63,77,968

Bus Section—

No. of vehicles	750
Route Mileage	365.79
No. of passengers carried during the year	36,70,27,103
Total income for the year	Rs. 3,90,98,299
Total expenditure	3,45,81,127
Specialty-built luxury buses for tourists	4

Electric Supply Section—

Total number of units purchased	42,19,09,409
Total number of units sold (supply)	37,57,16,425
Total number of units sold (traction)	1,08,16,297
Total number of consumers	2,20,637
Total income for the year	Rs. 3,71,75,754
Total expenditure for the year	3,04,13,146

Budget, 1959-60

Estimated opening balance	Rs.	1,00,000
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INCOME :—

Electric Supply	5,04,88,900
Tramways	1,22,12,700
Buses	6,15,45,300
Total	12,42,46,900

EXPENDITURE :—

Electric Supply	Rs.	4,49,05,350
Tramways		1,63,55,009
Buses		5,87,13,411
Total		11,99,73,870

Appropriation to statutory and other funds ^a or objects	Rs.	42,73,100
Estimated Closing Balance		1,00,000
Total		12,43,46,970

Capital Estimates (1959-60) :—

The sum of Rs. 229.838 lakhs proposed for capital expenditure in 1959-60 is to be spent mainly on the expansion of the Electric Supply and Bus Sections and construction of quarters for the staff.

Some of the more important items for which provision has been made are : purchase of 62 buses Rs. 56 lakhs; 22 kV bulk supply receiving stations, extensions in existing receiving stations etc. Rs. 39.59 lakhs; construction of staff quarters at Parol (second stage), Byculla, Santa Cruz, Borivli and Mulund Rs. 25.56 lakhs; proposed aerial ropeways at Malabar Hill and Sion Hill Rs. 9.5 lakhs; construction of stores depot at Wadala Rs. 10 lakhs; bus terminus at Marve Rs. 2 lakhs and balance of cost for a bus depot at Borivli Rs. 1 lakh. Besides these, a sum of Rs. 7.50 lakhs has been proposed for the replacement of tram-cars by trolley buses between Mazgaon and Gowalla Tank.

RAINFALL OF BOMBAY

COLABA OBSERVATORY

Note : From the year 1957 rainfall figures are recorded in Millimeters instead of inches. 1 inch equals 25.4 mm.

Years	May	June	July	August	September	October	November	Yearly Total	Number of Rainy Days in the year*	Maximum fall in one day
1880..	0.00	21.48	18.37	4.08	22.80	1.18	0.00	67.94	109	8.20
1..	0.36	15.29	29.47	19.06	4.56	4.17	0.09	78.04	113	11.30
2..	0.02	27.64	26.94	3.36	10.08	1.12	0.03	69.23	105	10.18
3..	0.33	13.65	39.88	12.67	12.37	10.40	0.86	90.18	123	6.85
4..	0.00	13.25	26.87	15.29	17.04	2.22	0.60	75.44	110	7.37
5..	0.02	5.11	21.81	25.42	12.01	3.54	0.00	67.91	113	10.29
6..	0.96	43.45	35.79	10.69	6.54	1.69	0.61	99.74	110	16.10
7..	0.09	24.07	30.98	17.59	18.23	2.79	1.02	94.95	112	7.84
8..	0.00†	15.76	22.47	11.43	4.92	0.11	1.16	57.82	107	4.66
9..	0.67	19.89	30.45	10.32	2.71	3.80	0.00	67.84	103	4.04
1890..	0.06	24.55	21.54	10.61	6.45	0.58	1.25	65.18	116	4.61
1..	0.00	13.99	32.48	6.94	22.53	1.04	0.00	77.18	100	5.82
2..	0.11	13.30	23.86	36.66	18.73	1.89	0.67	95.12	114	5.43
3..	6.80	21.47	16.14	13.55	7.54	0.45	1.63	67.24	124	4.97
4..	0.00	16.67	26.16	8.40	12.04	3.08	0.00	66.85	124	4.77
5..	0.08	17.84	18.04	15.97	11.91	3.82	0.08	67.59	109	6.82
6..	0.26	23.02	36.44	20.77	1.62	0.01	0.53	87.65	102	6.21
7..	0.00	14.40	30.19	13.82	20.60	2.51	0.00	81.53	108	4.92
8..	0.16	27.21	20.72	5.23	19.94	0.48	0.18	74.09	110	5.13
9..	0.08	20.81	4.72	5.23	8.49	0.00	0.00	85.90	87	6.58
1900..	0.00	18.26	25.75	17.62	7.49	0.00	0.00	69.12	91	8.04
1..	0.01	25.86	32.70	14.27	1.81	0.89	0.00	75.32	98	6.55
2..	0.00	9.77	16.96	16.53	27.11	0.78	0.01	71.97	100	6.74
3..	7.79	19.75	24.82	18.23	7.82	5.91	0.00	84.49	111	6.08
4..	0.02	15.10	10.14	5.72	1.81	0.56	0.00	33.42	90	3.33
5..	0.00	6.63	15.30	4.85	6.16	0.20	1.04	38.66	89	4.00
6..	0.00	13.20	18.10	20.91	3.94	0.00	0.00	56.30	95	4.89
7..	0.00	22.49	59.26	15.93	2.75	0.02	0.00	100.78	94	8.84
8..	0.00	15.19	21.13	9.67	6.71	0.62	0.00	53.54	100	4.30
9..	0.00	16.68	31.37	7.82	16.55	0.00	0.00	71.22	100	4.07
1910..	0.03	23.92	7.42	16.89	13.84	0.62	0.14	67.86	104	8.14
1..	0.04	10.85	15.89	16.90	2.60	0.00	0.27	46.51	92	4.78
2..	0.43	10.79	25.77	9.70	3.09	0.65	3.62	54.05	87	7.86
3..	0.00	25.81	33.58	3.47	5.75	2.85	0.00	70.96	94	5.50
4..	0.00	16.69	31.12	12.44	21.03	0.01	0.18	81.62	114	6.28
5..	0.86	40.10	14.39	8.93	10.21	2.55	0.02	77.68	100	11.41
6..	0.07	23.55	25.10	17.19	14.59	4.79	0.72	86.05	123	7.60
7..	0.88	15.23	12.91	33.27	19.53	16.11	0.00	99.76	134	5.96
8..	11.17	10.65	4.31	4.80	3.06	0.00	0.09	35.54	94	4.98
9..	0.00	23.35	24.49	10.63	8.16	1.40	0.18	68.32	106	8.74
1920..	0.00	8.16	22.60	4.58	4.05	0.34	0.00	41.05	98	5.51
1..	0.00	26.79	35.67	10.37	13.13	0.06	0.00	86.02	101	7.68
2..	0.00	26.63	31.00	5.15	7.43	0.61	0.00	70.96	111	6.56
3..	0.00	8.96	41.88	8.33	18.32	..	0.00	77.56	90	11.08
4..	0.00	7.46	16.76	15.42	12.12	0.06	0.38	52.19	101	3.12
5..	8.83	26.66	8.31	7.71	8.55	0.19	0.37	50.82	109	7.54
6..	0.10	6.81	30.68	21.93	8.84	1.29	0.00	72.64	107	8.21
7..	0.00	35.52	14.08	6.59	5.30	7.25	5.48	74.35	123	7.10
8..	0.00	23.46	30.24	16.69	9.81	0.43	0.09	85.73	109	8.96
9..	0.00	26.09	15.78	5.85	6.49	3.78	0.22	59.76	114	5.29
1930..	0.02	27.48	9.61	6.60	43.77	2.50	0.00	89.98	93	21.59
1..	0.00	7.66	46.94	22.69	4.53	13.02	2.40	97.94	111	10.06
2..	0.57	10.64	35.47	6.77	11.13	9.01	0.07	78.66	106	5.82
3..	3.23	9.61	15.69	17.25	12.42	2.99	0.01	62.37	116	5.28
4..	0.00	29.06	22.74	12.14	5.83	0.21	3.23	78.25	110	5.05
5..	0.00	23.14	23.70	16.71	11.83	1.04	0.18	81.62	99	7.00
6..	0.34	32.62	8.13	9.23	5.73	0.00	2.31	55.48	112	5.60
7..	0.00	18.32	30.42	5.45	14.20	1.77	0.00	70.16	109	8.68
8..	1.29	31.24	16.06	16.77	10.35	15.17	1.18	92.01	124	7.13
9..	0.00	4.67	33.08	10.87	5.39	0.17	0.15	54.34	95	9.13
1940..	0.00	29.98	21.03	23.27	11.26	4.89	0.76	97.58	106	6.42
1..	0.00	3.09	14.03	5.83	6.17	1.63	0.00	35.81	81	4.14
2..	0.00	27.89	32.36	8.24	13.52	0.00	0.00	81.30	96	7.03
3..	6.02	30.19	29.62	3.30	8.15	3.77	0.04	81.37	116	8.01
4..	0.20	9.47	45.56	16.33	1.68	0.80	0.00	74.10	90	7.13
5..	0.00	24.36	31.87	26.10	6.16	0.70	0.37	90.38	99	8.65
6..	0.23	21.61	16.29	15.23	17.90	0.81	6.46	79.14	120	10.45
7..	0.00	3.61	22.03	20.66	25.45	2.92	0.00	77.09	104	10.88
8..	0.00	8.78	27.16	17.03	11.78	2.11	4.54	71.74	105	6.79
9..	0.98	18.31	23.64	15.22	49.01	1.85	0.00	108.51	124	26.98
1950..	0.13	11.22	23.82	3.39	21.50	1.88	0.06	61.50	93	5.97
1951..	1.88	20.25	35.11	8.55	1.74	2.71	0.11	70.41†	108	5.11
1952..	0.00	23.69	27.51	6.82	3.05	2.26	0.00	63.33	97	7.06
1953..	0.00	32.59	39.99	12.99	4.59	3.24	0.00	93.57	103	8.35
1954..	0.00	24.66	51.56	33.72	24.84	1.89	0.00	137.08	103	10.31
1955..	0.04	13.98	21.65	31.75	11.44	5.81	0.97	88.64	116	6.77
1956..	1.69	25.86	32.34	17.37	20.69	2.83	0.50	101.28	133	8.88
1957..	25.4	283.0	777.2	578.9	65.7	21.2	23.9	1775.3	93	162.9
1958..	3.6	362.6	830.3	1265.4	353.1	1.8	1.3	3319.2	101	239.2

* A rainy day is one on which 0.01" of rain or more has fallen.

† There were also a few showers in March and April.

ASSOCIATIONS (TRADE & COMMERCIAL) IN GREATER BOMBAY*

ADVERTISING AGENCIES ASSOCIATION OF INDIA

Kitab Mahal, 4th Floor, 192, Dadabhai Naoroji Road, Bombay 1.
(Tel. No. 264771)

AFRICA & OVERSEAS EXPORTERS' CHAMBER
81, People's Bldg., 4th Floor, Sir Phirozshah Mehta Road, Fort, Bombay 1.

ALL-INDIA BOBBIN MANUFACTURERS' ASSOCIATION

24-B, 3rd Floor, Hamam Street, Bombay 1.

ENTRANCE FEE: Rs. 51; **ANNUAL SUBSCRIPTION:** Rs. 100.
OFFICE-BEARERS:—*President:* K. J. Shah; *Vice-President:* B. P. Mistry; *Hon. Secretary:* S. K. Khan; *Hon. Treasurer:* B. P. Koppikar; *Secretary:* N. C. Munshi.

ALL INDIA COTTON WASTE EXPORTERS ASSOCIATION

15/23, Ganeshwadi, Bombay 2.

President: Trikamal C. Shah; *Vice-President:* P. M. Strimpel; *Hon. Secretary:* R. N. Jani.

ALL-INDIA FOOD PRESERVERS' ASSOCIATION

93, Apollo Street, Bombay 1.

President: M. C. Mahajan; *Chairman:* N. S. Pochkhanawala; *Hon. Secretary:* L. J. de Souza.

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116, Abdul Rehman Street, Bombay 3.

President: E. T. Kachwalla; *Vice-President:* A. E. Arsiwalla, J.P.; *Hon. Secretary:* T. E. Kachwalla, L.L.B.

ALL-INDIA IMPORTERS' ASSOCIATION

Churchgate House, Vir Nariman Street, Bombay 1.

President: S. M. Shah; *Vice-President:* R. C. Shah; *Hon. Secretaries:* K. K. Manseta and T. V. Hazarat; *Hon. Treasurer:* B. M. Choksi; *Secretary:* G. J. Idnani.

ALL-INDIA INSTRUMENT MANUFACTURERS & DEALERS ASSOCIATION

198, Jamshedji Tata Road, Bombay 1.

This is an Association of the members of the Instrument Industry and Trade having its sphere of activities throughout the country. The main object of this Association, amongst many others is, to foster the interests of Manufacturers and Dealers of Scientific, Industrial and Research Instruments, encourage co-ordination between industry, trade and the Government and so form a link between the instrument interests and the Government.

President: Y. A. Fazalbhoy.
Vice-President: G. N. Banerjee.
Hon. Secretary: B. D. Toshniwal.
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ALL-INDIA MANUFACTURERS' ORGANISATION

Co-operative Insurance Bldg., 4th Floor, Sir Pherozeshah Mehta Road, Bombay 1.

There are State and Regional Boards in New Delhi, Calcutta, Nagpur, Saurashtra, Madras, Bangalore, Ernakulam, Bombay and Hyderabad and District and C. Councils in important centres of industrial activity.

Founder President: Sir M. Visvesvaraya; *Chairman:* N. D. Sahukar; *Vice-Chairmen:* B. D. Somani, P. B. Advani, K. G. Khosla, S. K. Sen & K. Anantaramakrishnan; *Hon. Secretaries:* Pranlal Patel, B. Chaturvedi & I. T. Mirchandani; *Hon. Treasurer:* J. V. Patel; *Secretary:* P. L. Badami.

ALL-INDIA NON-FERROUS METALWARE MANUFACTURERS' ASSOCIATION

Liberty Building, Marine Lines, Bombay 1.

President:—Vithaldas H. Shah, J.P.
Vice-President:—Chunilal P. Bhatt.
Hon. Secretary:—Ramanlal M. Shah.
Hon. Treasurer:—Navnilal Vadilal Shah.

THE ALL INDIA PLASTICS MANUFACTURERS' ASSOCIATION

Chowpatty Chambers, Sandhurst Bridge, Bombay 7. Tel. 42561.
Tel. Address: "ASOPLASMAC". *President:* M. B. Gidwani; *Vice-Presidents:* C. A. Ferens & Raman M. Patel; *Hon. Secretaries:* R. N. Desai & R. B. Turakhia; *Secretary:* A. H. Srikanth Aiyar.

ALL-INDIA RADIO MERCHANTS' ASSOCIATION

Fateh Manzil, Opera House, Bombay 4.

The Association has its central office at Bombay, and zonal offices at New Delhi, Calcutta, Madras and Bombay.

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ALL-INDIA RAZOR BLADE MANUFACTURERS' ASSOCIATION

Industrial Assurance Bldg., Opp. Churchgate Station, Bombay.

President: S. M. Dahanukar.

ALL-INDIA SINDWORK MERCHANTS' ASSOCIATION

Commissariat Building, 231, Hornby Road, Bombay 1.

Main object of the Association is to promote and safeguard the interests of the Overseas Indian Sindhi merchants.

President: Purshotam H. Sabhani.
Vice-President: T. Murl.
Hon. Secretary: Hashmatral M. Thadani.
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ALL-INDIA STARCH MANUFACTURERS' ASSOCIATION PRIVATE LTD.

12, Rampart Row, Fort, Bombay 1.

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Thackersey House, Graham Road, Ballard Estate, Bombay 1.

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C/o A. Q. Jalrazbhoy, 2, Behem Mansion, Colaba Causeway, Bombay 1.

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Killick Building, Home Street, Bombay 1.

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* In the case of some associations, besides the title and the address a short note is added about their aims, etc. This is generally done where the aims, activities, organisation are not immediately obvious from the title. Also, when an association appears for the first time in our book a note is generally added. The addition of a note is not necessarily an indication of the relative importance of the association, that is, in relation to others.

Two points should be kept in mind: office-bearers may change; addresses given may sometimes be in the nature of a reference specially where we say c/o.

THE ASSOCIATION OF INDIAN INDUSTRIES

4th Floor, "Co-operative Insurance Building," Sir Pherozshah Mehta Road, Fort, Bombay 1.

President: R. D. Sidhwa; *Vice-Presidents:* B. D. Somani, G. V. Purnani; *Jt. Hon. Secretaries:* G. D. Thakoor, I. T. Mirchandani; *Hon. Treasurer:* Hemantkumar J. Vaidya.

ASSOCIATION OF INDIAN TRADE & INDUSTRY

Bombay Mutual Chambers, 21, Hamam Street, Fort, Bombay 1.

President: Seth Tulsidas Kilachand; *Secretary:* Dr. K. R. Paymaster.

ASSOCIATION OF MERCHANTS AND MANUFACTURERS OF TEXTILE STORES AND MACHINERY, INDIA

Sir Vithaldas Chambers, 16, Apollo Street, Bombay 1.

President: B. M. Ghia; *Vice-President:* —J. R. Engineer; *Hon. Secretary:* —T. Maneklal; *Hon. Treasurer:* —M. M. Patel; *Secretary:* —A. S. Joglekar.

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BOMBAY ARMS DEALERS' ASSOCIATION

246, Abdul Rehman Street, Bombay 3.

President: Salehbbhai A. Bandukwala; *Secretary:* Husaini E. Bandukwala.

THE BOMBAY BULLION ASSOCIATION LIMITED

185, Sheikh Memon Street, Bombay 2.

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218, Samuel Street, Bombay 3.

President: Nandlal Premji; *Hon. Secretary:* Jamnadas N. Shah; *Jt. Hon. Secy.:* Dharamdas T. Shah.

THE BOMBAY CLOVE MERCHANTS ASSOCIATION LTD.

Maand Bunder Road, Gaya Building, 4th Floor, Room No. 50, Bombay 3.

President: Gokaldas Velji; *Hon. Secretary:* Jamnadas Ranchhodas; *Secretary:* Morarji Walji.

BOMBAY COAL & COKE MERCHANTS' ASSOCIATION LTD.

94, Meadows Street, Fort, Bombay 1.

President: V. C. Shah; *Vice-President:* G. C. Doshi; *Secretary:* A. B. Parzhi.

BOMBAY COTTON MERCHANTS' & MUCCADUMS' ASSOCIATION LTD.

(Tel. No. 71553. Tel. Address: SPOTCOTTON).

2nd Floor, S. 72-73, Cotton Exchange, Newree, Bombay 15.

President: Ramji Ravji Lalani, J.P.; *Vice-President:* Fatechandji Jhunjhunwala; *Hon. Secretary:* Hanwaj Jivandas, J.P.; *Secretary:* I. N. Parikh, M.A.

BOMBAY CUSTOM HOUSE CLEARING AGENTS' ASSOCIATION

46, Veer Nariman Street, Bombay 1.

Office-Bearers:—*President:* —Karsandas Tulsidas; *Vice-President:* —J. N. Gazdar; *Treasurer:* —M. T. Bandiwdekar; *Hon. Secretary:* —Arvind Parikh.

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President: Mayabhai C. Shah; *Hon. Secretaries:* Adi Nariman Mody; Ravjibhai Desai; Bhai Patel.

BOMBAY DIAMOND MERCHANTS' ASSOCIATION

Zaveri Bazar, Dhanji Street, Bombay 3.

President: —Kirtilal Dahyabhai Parikh.

Vice-President: —Ratilal C. Kothari.

Hon. Secretaries: —Rasiklal Kaldas Mehta and Jayantilal Manilal Jhaveri.

THE BOMBAY ELECTRO-PLATERS' ASSOCIATION

139, Bhendi Bazar, Bombay 3.

THE BOMBAY EXCHANGE BANKS' ASSOCIATION

C/o The Chartered Bank, Mahatma Gandhi Road, Bombay 1.

Chairman: Manager, The Chartered Bank, Bombay (Ex-officio); *Vice-Chairman:* Manager, National & Grindlays Bank Ltd., Bombay (Ex-officio).

BOMBAY FLOUR MILLS OWNERS' ASSOCIATION

Parekhwadi, V. P. Road, Bombay 4.

President: Jawardas Somabhai Patel; *Jt. Secretaries:* N. M. Jani, B. H. Masulwala; *Treasurer:* Thakorlal Gordhandas Shah.

BOMBAY GLASSWARE MERCHANTS' ASSOCIATION

91, Sheriff Devji Street, Bombay 3.

President: Esmail Shikoor; *Vice-President:* Chhimanlal V. Mody; *Jt. Secretaries:* S. H. Mehta and T. Gobindram.

THE BOMBAY GRAIN DEALERS' ASSOCIATION

Grain Dealers Building, 103, Keshavnji Naik Road (New Chinch Bunder Road), Bombay 9. (Tel. No. 70143).

President: D. B. Dharod; *Vice-President:* R. M. Dedhia.

Hon. Secretaries: M. V. Mehta, P. R. Vora.

BOMBAY GRASS MERCHANTS' ASSOCIATION

Bombay Central Grass Yard, Jacob Circle, Bombay 11.

President: V. K. Shah; *Vice-President:* C. M. Sharma.

THE BOMBAY HARDWARE MERCHANTS' ASSOCIATION

C/o Burhani Building, 57, Sarang Street, Bombay 3.

BOMBAY HARDWARE TRADERS' ASSOCIATION LTD.

Taher Mansion, Narayan Dhuru Cross Lane, Bombay 3.

President: —Naraindas Ranchhodas Goradia.

Hon. Secy. —Piarelal P. Talwar.

THE BOMBAY HESSIAN & GUNNY MERCHANTS' ASSOCIATION LTD.

346, Narsi Natha Street, Katha Bazar, Bombay 9.

President: Odhavji Bhimji; *Hon. Secy.:* Devkishan Ramkaran; *Secretary:* Labhshanker A. Joshi.

BOMBAY HOSIERY MERCHANTS' ASSOCIATION

102 4, Chakla Street, Bombay 3.

President: D. H. Vakharia, J.P.; *Vice-President:* V. Ananddas; *Secretary:* S. P. Doshi.

BOMBAY INDUSTRIES ASSOCIATION

C/o Kanani Metals & Alloys Ltd., Agra Road, Kurla, Bombay 37.

President: Durlabhji K. Khetani; *Vice-President:* Manubhai P. Sanghvi; *Hon. Treasurer:* Himmatlal N. Khira; *Hon. Secy.:* B. N. Desai.

BOMBAY INSURANCE BROKERS' ASSOCIATION

19, Bruce Street, Bombay 1.

Directors:—M. A. Kadwani, M. M. Patel, Chunilal V. Thakkar, J. E. Papa, K. S. Popat, Jethabhai D. Nagda and Jethabhai Narshi.

President: —M. A. Kadwani; *Vice-President:* —Chatrabhuj U. Chheda; *Jt. Hon. Secretaries:* —K. S. Popat and Jethabhai Narshi; *Jt. Hon. Treasurers:* —Chunilal V. Thakkar and Champsey M. Kayani; *Asst. Secy.* —D. A. Chavda.

THE BOMBAY IRON MERCHANTS ASSOCIATION LIMITED

Iron Market, Carnac Bunder, Bombay 9.

President : Babubhai O. Valla ; *Vice-President* : Ramniklal M. Valla ; *Secretary* : J. V. Doshi.**BOMBAY KARIANA, COLOUR AND CHEMICAL MERCHANTS' ASSOCIATION**

222-A, Samuel Street, Bombay 3.

President : H. H. Vahalla ; *Hon. Secretaries* : C. J. Shah, K. L. Mehta.**BOMBAY KHAREK BAZAR AND MEWA MERCHANTS' ASSOCIATION**

308, Kharek Bazar, Bombay 9.

President : Hirji Keshavji Kesarwala ; *Vice-President* : Jugaldas Damoder Mody ; *Hon. Secretary* : Somnath Motiram.**THE BOMBAY LIGHT MERCHANTS' ASSOCIATION**

Shreeji Bhuvan, Lohar Chawl, Pydhonie, Bombay 2.

President :—Sanat M. Shah ; *Vice-President* :—Shantilal M. Shah ; *Hon. Secretaries* :—Chamanlal V. Sanghvi, Dwarkadas V. Bakhal ; *Treasurer* :—Ramjibhai K. Shah.**BOMBAY MASTER PRINTERS ASSOCIATION**

274, Tardeo Road, Bombay 7.

President :—A. F. Varawalla.*Vice-Presidents* :—R. M. Cama, V. K. Joshi.*Secretary and Treasurer* :—Naval J. Ardesahir.**THE BOMBAY MERCURY TRADERS' ASSOCIATION LTD.**

218, Samuel Street, Bombay 3.

President : Hirji Keshavji Kesharwala ; *Vice-President* : Arvindchandra Anihalal Trivedi ; *Hon. Secretary* : Amritlal Padamshi Shah ; *Office Secretary* : Rasiklal M. Shah.**BOMBAY METAL DEALERS' ASSOCIATION LTD.**

C/o 85, Kika Street, Gulawadi, Bombay 4.

BOMBAY METAL EXCHANGE LTD.

Gigate Mansion, Kika Street, Bombay 4.

President : Bhawanidas Binani ; *Sr. Vice-President* : Vadilal Moorchand ; *Vice-President* : Mohanlal Hargovandas ; *Secretary* : Madhukant S. Mehta.**THE BOMBAY MOTOR MERCHANTS' ASSOCIATION LTD.**

Sukh-Sagar, 3rd Floor, Sandhurst Bridge, Bombay 7.

President : M. G. Kapadia ; *Vice-President* : S. Gurucharan Singh Sethi ; *Hon. Secretary* : Satya Bhushan Anand ; *Hon. Jt. Secretary* : R. M. Trivedi ; *Hon. Treasurer* : S. Balwant Singh Chadha.**THE BOMBAY MUDIBAZAR KARIANA MERCHANTS ASSOCIATION**

43, Mudibazar, Kazi Syed Street, Bombay 3.

President : Gubharubhai Jivabhai Oza ; *Hon. Secretary* : Purushottam Laxmidas Thakker.**BOMBAY OIL MERCHANTS' ASSOCIATION**

C/o Messrs. Muljee Jaitha & Company, Katha Bazar, Bombay 9.

THE BOMBAY OILSEED CRUSHERS' ASSOCIATION

57-59, Kazi Syed Street, Bombay 3.

President : Dr. J. S. Badami ; *Vice-President* : A. B. Argo ; *Hon. Secretary* : C. V. Mariwala, *Secretary* : K. C. Sheth.**BOMBAY OILSEEDS & OILS EXCHANGE LTD.**

Jenabai Building, Musjid Bunder Road, Bombay 3.

President :—Ramdas Kilchand ; *Vice-Presidents* : H. R. Raja (Sr.), Purshottam Jethabhai (Jr.) ; *Secretary* :—Biplin R. Chinal.**BOMBAY OVERSEAS FREIGHT BROKERS ASSOCIATION**C/o Pitamber & Co., Scindia House, Ballard Estate, Bombay 1.
Chairman : Vithaldas Purshottam ; *Hon. Secretary* : Chandrasen Govindji ; *Hon. Treasurer* : N. T. Toprani.**BOMBAY PARSİ TEXTILE LEAGUE**

Prospect Chambers Annexe, Dr. Dadabhoy Naoroji Road, Fort.

President :—Major S. R. Bamji, F.R.S.A., F.C.R.A., M.B.E. ; *Vice-Presidents* :—J. S. Rutnagar ; D. D. Chothia ; *Hon. Jt. Secretaries* :—J. F. Shroff and Godrej Vakharia ; *Hon. Jt. Treasurers* :—Godrej Vakharia and B. M. Daroowalla.**BOMBAY PIECE-GOODS MERCHANTS' MAHAJAN**

Mulji Jetha Cloth Market Hall, 250, Sheikh Memon Street, Bombay 2.

Office-Bearers :—Ratanlal Champal, *President* ; Navnitlal L. Shah, *Vice-President* ; Ratilal C. Shah, Vasantral K. Mehta, *Hon. Secretaries* ; Bhagwandas N. Shroff, Fulchand Odhavjee, *Hon. Treasurers*.**BOMBAY PIPES & FITTINGS MERCHANTS' ASSOCIATION**

208, Nagdevi Street, Bombay 3.

President : Narmadashahker J. Desai ; *Jt. Hon. Secretaries* : Chandulal D. Parikh ; Jamnadas N. Gandhi.**BOMBAY PRESS-OWNERS' ASSOCIATION**

196B, Galwadi, Girgaum, Bombay 4.

Honorary Secretary and Treasurer :—M. C. Modi.**THE BOMBAY PROVISION MERCHANTS' ASSOCIATION**

C/o Empire Stores, Crawford Market, Bombay 1.

President : D. V. Sharma ; *Vice-President* : Devraj ; *Hon. Secretary and Treasurer* : Dinshaw B. Iranl.**THE BOMBAY RICE MERCHANTS' ASSOCIATION**

116, New Chinch Bunder Road, Bombay 9.

THE BOMBAY SALT MERCHANTS' & SHILOTRIES' ASSOCIATION

583, Chitra Bazar, Bombay 2.

President : Ardesahir Hormasji Bhiwandiwalla ; *Vice-President* : Jayantilal Tribhovandas ; *Hon. Secretaries* : Maneckshaw N. Kotwal, Rameshwarlal Harakchand ; *Treasurer* : Ardesahir H. Bhiwandiwalla.**THE BOMBAY SANITARYWARE ASSOCIATION**

C/o Jeroo Building, 137, Mahatma Gandhi Road, Bombay 1.

THE BOMBAY SHAREHOLDERS' ASSOCIATION

C/o Agakhan Building, 3rd Floor, Dalal Street, Fort, Bombay.

BOMBAY SHROFFS' ASSOCIATION

233, Shroff Bazar, Bombay 2.

President : Sheth Mohanlal Ambalal Parikh, B.A. ; *Vice-President* : Sheth Lalitchand C. D. Nanjee ; *Hon. Secretaries* : Sheth Kirtanlal Lalubhai Desai, Sheth Fulchand Shamji ; *Treasurer* : Sheth Tribhovandas B. Nadladwala ; *Secretary* : Chundilal V. Mody, B.A. (Hons.).**BOMBAY SMALL-SCALE INDUSTRIES ASSOCIATION**

91/93, Pathan Street, Bombay 4.

President : M. F. Motiwala ; *Hon. Secretaries* : Yaddilal Panchal, Kantilal Bhutt ; *Treasurer* : Shantilal Dharla.**THE BOMBAY SPORTS TRADERS ASSOCIATION**

C/o Messrs. Durham Sports, Dhobi Talao, Bombay 2.

President : Major D. N. Mehta ; *Vice-President* : R. D. Wagle ; *Secretary* : C. D. Verma ; *Treasurer* : D. M. Patel.**THE BOMBAY STATIONERS' ASSOCIATION**

205, Abdul Rehman Street, Bombay 3.

Vice-President : Trumbakal Keshavilal Sanghani ; *Treasurer* : K. C. Shah ; *Secretary* : K. C. Cama.

THE BOMBAY STEVEDORES' ASSOCIATION LTD.

Jannabhoomi Chambers, Fort Street, Bombay.

President: K. A. Dubash; *Vice-President:* D. A. Dhunjibhoy.**BOMBAY SUGAR MARKET LTD.**

104-114, Frere Road, opp. Victoria Dock, Bombay 9.

The aims and objects of the Bombay Sugar Market are: to provide business premises and godowns for sugar merchants; to pool and purchase sugar, gur, molasses and the by-products of sugar and to consider and settle all questions connected with the trade of sugar.

BOARD OF DIRECTORS:—Ardeshir Hormasji Bhiwandiwalla (*Chairman*); Maneklal Ujamshi (*Mg. Director*); Dr. Kantilal Jagjivan Seth, Chunilal Manekchand, Amritlal Parmanand Bhutta. *Secretary*—Gautamial A. Shah, B.A., LL.B., Advocate, High Court.

BOMBAY SUGAR MERCHANTS' ASSOCIATION LTD.

104 114, Frere Road, opp. Victoria Dock, Bombay 9.

Started in 1900, and was registered as an Incorporated body under the Indian Companies Act on 19th January, 1945. Aims and objects: To foster unity and brotherly feelings amongst its members and brokers, to protect and promote trade interests and to regulate foreign trading in sugar.

President.—Maneklal Ujamshi.
Vice-President.—Jivanlal Chhotalal.
Hon. Secretary.—Biharilal J. Nevatia
Secretary.—Gautamial A. Shah, B.A., LL.B., Advocate.

THE BOMBAY SWADESHI MARKET BOARD

Swadeshi Market, Kalbadevi Road, Bombay 2.

President: B. N. Joshi; *Vice-President:* Maneklal G. Kapadia; *Hon. Secretaries:* P. R. Sampat, Khimji Chhatrabhuj; *Hon. Treasurers:* Amritlal Kanji, Bhalal Govindji.

BOMBAY TEA MERCHANTS' ASSOCIATION

C/o 222-A, Samuel Street, Vadgadi, Bombay 3.

BOMBAY TEXTILE AND ENGINEERING ASSOCIATION

Opp. Railway Station, 313, Grant Road, Bombay.

President:—H. L. Dawlatjada, M.A., LL.B., B.Sc.; *Vice-President:*—N. F. Bharucha, Comp. I.E.; *Hon. Secretary:*—K. S. Punekar; *Hon. Treasurer:*—G. H. Sonejee

THE BOMBAY TIMBER MERCHANTS' ASSOCIATION LTD.

Victoria Road, Mustafa Bazar, Bombay 10.

President: Miya Ahmed Darvesh; *Vice-President:* Pragji Makanji; *Hon. Secretary:* Homi Cavanji Bharucha.

BOMBAY TYPE FOUNDRY OWNERS' ASSOCIATION

B-196, Gaiwadi, Girgaon, Bombay 4.

Hon. Secretary:—M. C. Modi.**BOMBAY WATCH DEALERS' SYNDICATE**

78, Abdul Rehman Street, Bombay 3.

President: P. M. Daroowalla; *Hon. Secretary:* Chandulal G. Upadhyay; *Hon. Treasurer:* Kantilal D. Patel.

BOMBAY WATCH MATERIAL MERCHANTS' ASSOCIATION LTD.

138, Nagdevi Street, Bombay 3.

President: Vall Mohamed Roshan & Company, Abdul Rehman Street, Bombay 3 (Ex-officio); *Secretary:* Zion Watch Co., 138, Nagdevi Street, Bombay 3.

THE BOMBAY WOOL MERCHANTS' ASSOCIATION

Post Box No. 1040, Bombay 1.

President—Roopchand Surana.
Vice-President.—Parmanand Issardas.
Jt. Hon. Secretaries.—Vijaysinh Virchand; Chandimal Jain

BOMBAY WOOLLEN DEALERS' CORPORATION

C/o 65, Champagalli, Bombay 2

President: Panachand Dholakia; *Secretary:* Vidyantath Bhargava.**BOMBAY WOOLLEN PIECEGOODS MERCHANTS' ASSOCIATION**

Mulji Jetha Cloth Market Hall, Sheikh Memon Street, Bombay 2.

President.—Khanjibhai Khodidas Mehta; *Vice-President:* Himatlal J. Dani; *Hon. Jt. Secretaries:* Bhurabhai C. Shah; Tryambaklal K. Katakia.

BOMBAY YARN MERCHANTS' ASSOCIATION & EXCHANGE LIMITED

111, Chawala Building, Tambakanta, Bombay 3.

President: Sankalchand G. Shah, B.A., LL.B.; *Vice-President:* Ramnath Damodardas; *Hon. Treasurer:* Ratilal Kuberdas Patel; *Secretary:* D. M. Boradia, B.A., LL.B.

THE BOOK MANUFACTURERS' ASSOCIATION

1st floor, 23, Mirza Street, Bombay 3.

President: Gulamhussein A. Amrellwala; *Vice-President:* Salfudin Allumohamed Fedral; *Secretaries:* Z. F. Kapadia, N. O. Kadakia; *Treasurer:* Jethalal J. Zaveri.

BUTTER MANUFACTURERS' ASSOCIATION

C/o Star of India Dairy Co., 112, Meadows Street, Fort, Bombay.

President:—Narayan B. Kajrolkar.
Vice-President:—Naval Nariman.
Hon. Secy.—Hiralal A. Parikh.
Hon. Treasurer:—V. L. Shah.
Secretary:—L. G. Khopkar.

CENTRAL ORGANISATION FOR OIL INDUSTRY & TRADE

57-59, Kazi Syed Street, Bombay 3.

President: Ratilal M. Gandhi; *Chairman:* Vallabhdas V. Mariwala; *Secretary:* R. C. Sheth.

THE CHEMICAL AND ALKALI MERCHANTS' ASSOCIATION

242, Samuel Street, Vadgadi, Bombay 3.

President: C. C. Marfatia; *Vice-President:* D. G. Valla; *Hon. Treasurer:* C. L. Parekh; *Jt. Hon. Secretaries:* N. R. Swamy, N. Ramamoorthy.

CHEMISTS' & DRUGGISTS' ASSOCIATION

Block 3, Devkaran Mansion, 43, Princess Street, Bombay 2.

President: V. G. Gandhi, J.P.; *Vice-President:* B. M. Shah; *Hon. Jt. Secretaries:* C. T. Ghatalia, K. A. Parikh; *Hon. Treasurer:* R. N. Shah.

CINEMATOGRAH EXHIBITORS' ASSOCIATION OF INDIA

Sandhurst Building, Sardar Patel Road, Bombay 4.

President—B. D. Bharucha; *Dy. President:* V. G. Joshi; *Vice-President.*—S. G. Patwardhan; *Secretary.*—I. K. Menon; *Hon. Treasurer.*—K. V. Desai.

CINEMATOGRAPHIC IMPORTERS' ASSOCIATION

Sandhurst Building, Sardar Patel Road, Bombay 4.

President: S. N. Agarwal; *Vice-President:* W. H. Hene.**COMMERCIAL ARTISTS' GUILD**

4th Floor, India House, Fort Street, Bombay 1.

(Tel No. 264781)

CONCRETE ASSOCIATION OF INDIA

C/o A. C. C. Ltd., 121, Queen's Road, Fort, Bombay 1.

Chief Engineer and Editor, "Indian Concrete Journal": K. K. Nambiar, B.E., C.E. (Hons.), M.I.E. (India), F.Inst. H.E. (England), M.I.Mun.E. (England), M.Am.Soc.C.E.; *Dy. Chief Engineer and Associate Editor, "Indian Concrete Journal":* H. S. Batlivala, B.E., M.I.E. (Ind.), M.I.Struct.E., M.Inst. H.E., M.Am. Soc.C.E.

COPPER & BRASSWARE MANUFACTURERS' & SELLERS' ASSOCIATION LTD.

C/o 64, Kansaara Chawl, Room No. 80, 2nd Floor, Bombay 2.

COTTON BUYERS' ASSOCIATION

1st Floor, State Bank Building Annexe, Fort, Bombay 1. (Tel. No. 252231).

CULTURED PEARLS IMPORTERS & EXPORTERS ASSOCIATION

184-186, Sheikh-Memon Street, Bombay 2. (Phone: 23785).

President: Popatlal B. Shah; *Secretary:* Maganbhai N. Javeri.

DECCAN SUGAR FACTORIES' ASSOCIATION

Stadium House, Block No. 2, Veer Nariman Rd., Bombay 1.
(Phone: 36725; Grams: "DECSUGAL".)

President, S. K. Somaiya; *Vice-President*, F. Edwards; *Secretary*, G. G. Rege, M.A., LL.B., Solicitor.

DYESTUFFS MANUFACTURERS' ASSOCIATION OF INDIA

C/o Girton House, Lamington Cross Road, Bombay 7.

EAST INDIA COTTON ASSOCIATION, LIMITED

Cotton Exchange, Marwari Bazar, Bombay 2.

Chairman.—Madanmohan R. Rula; *Vice-Chairman*: Manilal H. Patel; *Secretary*.—C. M. Parikh.

Asstt. Secretary.—S. A. P. Aiyar.

THE ELECTRIC MERCHANTS' ASSOCIATION

Shreeji Bhuvan, Lohar Chawl, Bombay 2.

President.—R. C. Kadakla.

Vice-President.—M. C. Mody.

Hon. Secretary.—V. B. Kapadia.

ELECTRICAL CONTRACTORS' ASSOCIATION

63, New Stock Exchange Building, Apollo Street, Bombay 1.

EMPLOYERS' FEDERATION OF INDIA

Army & Navy Building, 148, Mahatma Gandhi Road, Bombay 1.

OBJECTS: To promote and protect the interests of employers engaged in trade, commerce, industries and manufactures of India; to promote and support all well-considered schemes for the general uplift of labour and to take all possible steps to establish harmonious relations between Capital and Labour; to advise employers on labour matters, to assist them in the settlement of labour disputes and to represent or arrange for the representation of employers in any proceedings before Tribunals, Courts and other judicial or quasi-judicial body, and to carry on propaganda for the purpose of educating the public with regard to the character, scope, importance and needs of industrial enterprise as represented by the Federation.

President.—Sir Homi Mody, K.B.E.; *Vice-Presidents*.—Naval H. Tata, J. D. K. Brown, K. F. G. Hunter and J. K. Srivastava; *Director-General*.—Dr. N. Das, Ph.D. (Econ.), London; *Secretary*.—T. S. Swaminathan; *Jt. Secretary*.—N. M. Vakil.

ENGINEERING ASSOCIATION OF INDIA

(Bombay Region)

87, Veer Nariman Road, Bombay 1.

Chairman: B. P. Kapadia; *Vice-Chairman*: J. V. Patel; *Secretary*: M. de Melo.

EXHIBITION SOCIETY

Central Bank Building, Hornby Road, Bombay 1.

The Society is founded for organising exhibition sales of indigenous household articles with the dual object of giving publicity and encouraging sales of Indian arts and crafts and to give facility to the general public to buy varieties of goods including cloth at marked prices from one place only.

FEDERATION OF BOMBAY RETAIL CLOTH DEALERS' ASSOCIATIONS

13, Bhangwadi, Kalbadevi Road, Bombay 2.

President: A. K. Jobanputra; *Vice-President*: M. V. Dhabliwala; *Hon. Secretaries*: H. V. Dedhia and V. O. Shah; *Hon. Treasurer*: S. M. Mehta.

FEDERATION OF BRITISH INDUSTRIES

(Incorporated in England by Royal Charter.)

Head Office: 21, Tothill Street London, S.W.1.

Indian Branch Office: United India Building, Sir Phirozshah Mehta Road, Bombay 1.

The Federation's membership comprises over 8,000 British manufacturing firms in the United Kingdom covering all industries; in addition, over 300 individual trade associations are affiliated to the Federation.

Branch Manager.—G. P. Brownie.

FEDERATION OF ELECTRICITY UNDERTAKINGS OF INDIA

Killick House, Home Street, Bombay 1.

OBJECTS: To promote, protect and assist the rights and interests of its members and licensees in India.

COMMITTEE.—K. G. Milne; D. H. P. Henderson; S. M. Zubair; J. W. Fawcett; S. C. Farmer; S. Venkataraman; P. E. Patel; N. C. Javeri; B. P. Mehta; M. M. Tayal.

Secretary.—R. P. Aiyer.

FEDERATION OF MOTOR TRANSPORT ASSOCIATIONS

Meher Bldg., Chowpatty, Bombay 7.

Objects: To encourage, promote and develop the Motor and Allied Trades and Motor Transport Industry in India.

President.—P. Matthen; *Vice-President*.—A. B. Parakh; *Hon. Secretary*.—B. V. Vagh.

THE FEDERATION OF PUBLISHERS AND BOOKSELLERS ASSOCIATIONS IN INDIA

(Registered under Section 26 of the Indian Companies Act, 1913).

Abid House, Lamington Road, Bombay 7.

OBJECTS: To promote and protect the publishers' and book-sellers' trade in India; to consider legislative and other measures affecting the trade; to confer with governments and other public bodies on matters affecting the trade; to promote honourable trade practices; to aid and encourage the production, distribution and promotion of literary and other works; to promote art, literature, science, culture and education.

President: P. C. Manaktala; *Secretary*: S. G. Bhatkal; *Treasurer*: J. H. Shah.

THE FEDERATION OF WOOLLEN MANUFACTURERS IN INDIA

J. K. Building, Dougall Road, Ballard Estate, Bombay 1.

Chairman: R. K. Birla; *Vice-Chairman*: G. K. Singhanla; *Secretary*: S. Das Gupta.

GHEE MERCHANTS' ASSOCIATION

C/o 191/193, Samuel Street, Bombay 9.

President.—Babaladas Nagindas Shah; *Vice-President*: Harilal Girdharilal; *Hon. Secy.*: Indubhai T. Shah.

GRAIN AND OILSEEDS MERCHANTS' ASSOCIATION

72-80, Masjid Bunder Road, Mandvi, Bombay 8.

President.—Seth Velji Lakhamsi Nappoo, B.A., LL.B.; *Vice-President*.—Seth Devji Bhattaney; *Hon. Secretary*.—Seth Vallabdas Pora; *Secretary*.—K. N. Joshi.

GREY ART SILK MANUFACTURERS' GROUP

C/o The Central Textiles, 1A, Old Hanuman 1st Cross Lane, Bombay 2.

Hon. Secretary: J. K. Turakhia.

HINDUSTANI MERCHANTS' & COMMISSION AGENTS' ASSOCIATION LTD.

C/o 342, Kalbadevi Road, Bombay 2.

HOOSHAMI OLD IRON MERCHANTS' ASSOCIATION

Darukhana, Mazagaon, Bombay 10.

HOTEL & RESTAURANT ASSOCIATION OF BOMBAY REGION

Taj Mahal Hotel, Apollo Bunder, Bombay 1. (Tel. No. 219101).

OFFICE-BEARERS.—*President*.—Sir Rustom P. Masani; *Hon. Secretary*.—Maneck S. Shaw; *Hon. Treasurer*: J. P. Voyantals; *Secretary*: Shrikant Joshi.

INDIAN BANKS ASSOCIATION

Devkaran Nanjee Bldg., Horniman Circle, Fort, Bombay.

Chairman: C. H. Bhabha; *Dy. Chairman*: N. M. Chokshi; *Hon. Secretary*: S. L. Kothari; *Secretary*: Dr. S. G. Panandikar.

INDIAN CHEMICAL MANUFACTURERS' ASSOCIATION

(Bombay Regional Office)

Sir Vithaldas Chambers, 6th Floor

16, Apollo Street, Bombay 1.

Chairman.—J. H. Doshi; *Vice-Chairman*: A. L. Chandavarkar; *Hon. Secretary*: V. N. Sardesai.

THE INDIAN COTTON MILLS' FEDERATION

Elphinstone Building, Veer Nariman Road, Fort, Post Box No. 95, Bombay 1.

Chairman: Kasturbhai Lalbhai; *Vice-Chairman:* Krishnaraj M. D. Thackersey; *Hon. Secretary:* B. G. Kakathkar.

INDIAN COUNCIL OF FOREIGN TRADE

Co-operative Insurance Bldg., 4th Floor, Sir Phirozshah Mehta Road, Bombay 1.

OBJECTS.—The object of the Council is to promote International trade with all countries on the basis of equality with due regard to the needs of the industrialisation of the country and with a view to increasing the aggregate national income and to take all steps for promoting and safeguarding the interests of trade in general.

OFFICE-BEARERS: *President:* Murarji J. Vaidya (Bombay); *Vice-Presidents:* P. B. Advani, B. N. Banerjee, D. O. Kothari, Vallabhdas V. Marwala; *Hon. Gen. Secretary:* R. V. Vora; *Secretary:* N. K. Patel.

INDIAN ENGINEERING ASSOCIATION

(Western Region)

C/o Bombay Chamber of Commerce, Post Box 473, Bombay 1.
Chairman: G. E. Kerr; *Dy. Chairman:* F. A. Jasdanwalla.

INDIAN GRAIN DEALERS' FEDERATION

'Shri Mahal', 84-86, Dr. Maheshwari Road, Bombay 9.

President: Khtunji M. Bhujpuria, J.P.; *Vice-Presidents:* Virji N. Salla, J.P. and Husseinbhai A. Valjee, J.P.

THE INDIAN INSURANCE COMPANIES' ASSOCIATION

Co-operative Insurance Bldg., Sir Phirozshah Mehta Road, Bombay 1.

Chairman.—M. S. Dastur.

Vice-Chairman.—B. R. Mody.

Secretary.—D. N. Majumdar, B.A., LL.B.

THE INDIAN LANGUAGES NEWSPAPERS' ASSOCIATION

C/o Janmabhoomi Bhavan, Ghogha Street, Fort, Bombay 1.

INDIAN MANUFACTURERS' EXPORT ASSOCIATION

121-22, St. Xavier's Street, Bombay 12.

Vice-Presidents: Dr. B. V. Mehta, Ph.D., D. R. Khetan; *Hon. Secretary:* A. Anandpore.

INDIAN MOTION PICTURE DISTRIBUTORS' ASSOCIATION

Mogul Lane, Off Sitaladevi Temple Road, Mahim, Bombay 16.

Registered under the Indian Company's Act 1913 on 14th September, 1930. The aims and objects of the Association are to promote, aid, help, encourage and develop the distribution branch of the Indian Film Industry in all possible ways.

INDIAN MOTION PICTURE PRODUCERS' ASSOCIATION

Sandhurat Building, Sardar Patel Road, Bombay 4.

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BOMBAY CITY RED CROSS BLOOD TRANSFUSION SERVICE

Red Cross Office, 141, Mint Road.

Chairman.—Dr. (Mrs) D. J. R. Dadabhoy, M.B.E., M.D., M.R.C.P. (Lond.), F.C.P.S.; *Hon. Secretary.*—Dr. H. S. Mehta, M.A.; *Hon. Treasurer.*—Dr. (Miss) Gool N. Vazifdar, M.D., F.C.P.S.; *General Secretary.*—Dr. J. N. Vazifdar, M.B.E., M.C.P.S.

BOMBAY CITY SOCIAL EDUCATION COMMITTEE

Swadehi Mills Estate, Tata Road No. 2, Near Roxy Cinema, Charni Road, Bombay 4.

BOMBAY EUROPEAN RELIEF ASSOCIATION

Office : 114, Apollo Street, Bombay 1; *Relief Office* : 115, Love Lane, Mazagon, Bombay 10.

General Committee.—S. P. Whaley (*Chairman*); R. A. Swinton-Eagle (*Honorary Treasurer*); B. Barker (*Hon. Secretary*).

The following institutions are affiliated to the Association :—
Poor Fund.—Relief given by small cash payments, old clothing, payment of railway fares, etc. The Poor Fund Sub-Committee meets twice a month to deal with applications.

European Pensioners' & Widows' Home, Mazagon.—Provides accommodation and meals for destitute widows. *Supdt.* : Mrs. B. Sterling.

Strangers' Friend Society.—European Relief Home, 115, Love Lane, Mazagon, provides food and shelter for men in distressed circumstances and those seeking employment. *Superintendent.*—E. C. Bruce.

BOMBAY FAMILY PENSION FUND OF GOVERNMENT SERVANTS

(A unit of the Life Insurance Corporation of India.)

22, Apollo Street, Fort, Bombay.

BOMBAY HUMANITARIAN LEAGUE

(SHREE JIVA DAYA MANDALI)—149, Shroff Bazar, Bombay 2.

Nature of Body : Cosmopolitan Humanitarian Body.

BOMBAY INSTITUTION FOR DEAF AND MUTES

Nesbit Road, Mazagon.

Patron.—His Eminence the Cardinal, Archbishop of Bombay.

President.—D. J. Ferreira, Solicitor and Notary Public, Bombay.

Hon. Secretary.—Hyacinth Miranda, B.A., LL.B.; *Hon. Medical*

Supdt.—Dr. (Miss) L. M. Lobo, L.M.S., M.B.E.

BOMBAY LEGAL AID SOCIETY

Hamam House, Hamam Street, Bombay 1.

The object of the Society is to co-operate with the judiciary, bar and organisations interested in the administration of justice, so as to make justice more readily accessible to the poor.

Patron.—The Hon. Mr. J. H. K. Chinnai, Chief Justice of Bombay.

President.—Framrose A. Vakil. *Hon. Secretary.*—Nayan H. Pandia.

THE BOMBAY MOTHERS AND CHILDREN WELFARE SOCIETY

No. 10, B.D.D. Chawl, DeLisle Road, Bombay No. 11.

Chairman.—Lady Cowasji Jehangir.

Hon. Treasurer.—K. S. Sethna; *Hon. Secretary.*—Dr. K. S. Mhaskar.

Executive Secretary.—Varant P. Borkar.

BOMBAY NURSING COUNCIL

Zorastrian Bldg., 2nd Floor, 18, Horniman Circle, Bombay 1.

President.—Dr. D. P. Settna, F.R.C.S. (Eng.).

Vice-President.—Dr. R. N. Cooper, F.R.C.S. (Eng.); *Registrar.*—P. N. Mazumdar, M.A. (Lond.), B.A., LL.B.

BOMBAY PARSİ PASTAKIA ANJUMAN FUND

Trustees of the Fund.—Fardunji Framji Guard; Ruttanah Dadabhoy Rustomjee Bhabha; Burjor Dadabhoy Bhabha; Ardeshir Maneckji Jilla; Byramji Ardeshir Mistree; Kaikhushroo Framrose Tamboli.

MANAGING TRUSTEE.—Ruttanah Dadabhoy Rustomjee Bhabha, Meher Mansion, near Tardeo Bridge, Tardeo, Bombay 8.

BOMBAY PINJRAPOLE

Post Girgaon, Bombay 4.

The Bombay Pinjrapole is a charitable trust and Gazetted Infirmary for unserviceable and disabled animals and birds, giving them shelter, food and medical treatment. It has branches in Bhiwandi, Raika and Chembur. It has a breeding centre for the best Gir cows and give animals to farmers and tillers almost free of charge. The institution carries on the mission of mercy for dumb animal friends.

SECRETARY.—Dasharathlal Manilal Thaker.

Permanent Chairman, Board of Trustees.—Sir Jamsetjee Jejeebhoy Bart.

BOMBAY SOCIETY FOR THE PREVENTION OF CRUELTY TO ANIMALS

including

BAI SAKARBAI DINSHAW PETT HOSPITAL FOR ANIMALS

No. 1, Govt. Gate Road, Parel, Bombay 12.

BOMBAY STATE COUNCIL FOR CHILD WELFARE

No. 10, B.D.D. Chawl, Dellsie Road, Jacob Circle, Bombay 11.

President.—Lady Cawasji Jehangir; **Vice-President and Chairman.**—Smt. Tarabai Fremchand; **Hon. Secretary.**—Dr. K. S. Mhaakar; **Hon. Treasurer.**—P. R. Bhatt.

BOMBAY STATE COUNCIL ON BLINDNESS

C/o Sir C. J. Ophthalmic Hospital, Bombay 8.

Chairman.—Chief Minister, Bombay State; **Adviser in Ophthalmology and Jt. Hon. Secy.**—Dr. V. K. Chitnis, D.O. (Oxon. & Bom.), F.C.P.S.; **Adviser in Blind Welfare and Jt. Hon. Secretary.**—M. N. Chhatrapati.

BOMBAY STATE WOMEN'S COUNCIL

Town Hall, Fort.

(See under Women's Associations).

BOMBAY STATE WOMEN'S COUNCIL RESCUE HOME FOR WOMEN

South Jail Road, Umerkhandi, Bombay 9.

BOMBAY SUBURBAN MEDICAL AND RELIEF SOCIETY

C/o The Jasmine Ladies Welfare Union, Turner Road, Bandra, Bombay 20.

Enquiries: Miss G. J. Patel. Tel. 75307.

BRITISH WOMEN'S ASSOCIATION

114, Apollo Street, Fort, Bombay 1.

Telephone: 253208.

CATHOLIC WOMEN'S SOCIAL SERVICE CENTRE

Convent Street, Bombay 1.

The Centre undertakes family case work and runs the St. Martha's Hostel (Dr. Viegas Street, Cavel) for working girls, at the lowest possible rates.

President.—His Eminence the Cardinal Archbishop of Bombay.

CHILD GUIDANCE CLINIC OF THE TATA INSTITUTE OF SOCIAL SCIENCES

Bai Jerbal Wadia Hospital for Children, Parel.

AIMS AND OBJECTS: Helping children who present difficulties of adjustment and psychological problems. Cosmopolitan.

ACTIVITIES: Treatment centre for children presenting difficulties of adjustment and habit, personality and behaviour problems. A laboratory for students of social work and students of child psychiatry. The Clinic is open every day and new cases are registered on Tuesdays and Fridays. Holds lectures for doctors. Also lectures before parent-teacher groups. Mental testing is done at the Clinic. The Clinic functions as part of the Tata Institute of Social Sciences.

Head.—G. R. Banerjee.

CHILDREN'S AID SOCIETY, BOMBAY

88, Lady Hardinge Road, Mahim, Bombay 16.

CITIZENS' ADVISORY BUREAUX

Head Office: 173, J. Tata Road, Bombay 1.

1. Bombay State Women's Council, Town Hall (Monday to Friday: 10-30 a.m. to 4-30 p.m. and Saturday 10 a.m. to 1 p.m.).

2. Social Service League, Servants of India Society, Sandhurst Road (every day 4 to 5 p.m.).

3. Nagpada Neighbourhood House, Nagpada, Byculla.

4. Diamond Jubilee Trust Office, Khoja Jamat Khana Compound, Khadak (Monday to Friday, 3 to 7 p.m.).

5. Nalgaum Social Service League, B.D.D. Chawls, Nalgaum.

Note: The first five are under the auspices of the Bombay State Branch, Indian Conference of Social Work.

CITIZEN'S COMMITTEE FOR RELIEF & REHABILITATION OF BEGGARS

C/o The Times of India Office, Bombay 1.

To eradicate beggary from Greater Bombay and rehabilitate beggars by setting up more homes and workshops and to conduct persuasion campaign against indiscriminate charity like almsgiving.

President.—Sri Prakasa (Governor of Bombay).

Chairman.—Homi J. H. Taleyarkhan.

Gen.-Secretary.—J. C. Jain.

COUNTESS OF DUFFERIN FUND

Raj Bhavan, Bombay 6.

Nature of Body: Endowments for female medical aid.

Hon. Secretary and Treasurer.—R. N. Bhavnagri, 113, Mahatma Gandhi Road, Bombay.

COWASJI BEHRAMJI DIVECHA TRUST

Darya Building, 375, Dr. Dadabhoj Naoroji Road, Fort.

Nature of Body: Endowments for Maintenance.

CURRIMBHOY IBRAHIM KHOJA ORPHANAGE

Telang Road, Matunga, Central Railway.

No. of Orphan boys 72.

DABHOLKAR SCHOLARSHIP ADVISORY BOARD

22, Horniman Circle, Fort, Bombay 1.

DADAR BHAGINI SAMAJ

3rd Lane, Hindu Colony, Dadar, Bombay 14.

Industrial classes, and library service for women and children.

Activities.—Library for women and children; Recreation Centre; Gymkhana; Udyog Mandir; Classes in Hindi, English, French, Embroidery, Sewing, Family Planning Centre, Health Centre, etc.

President.—Smt. Nalini Tulpule.

DADAR PARSİ WELFARE CENTRE

Imperial Mahal, A-1, Khodadad Circle, Dadar and Munsiff Building, 635, Joshi Road, Parsi Colony, Dadar.

Principal Activities: Charitable Nursery School and General Welfare Centre for Parsi children; charitable tuition classes in Cutting & Tailoring and Hand & Machine Embroidery for Parsi women and girls, etc.

Hon. Secretaries.—H. D. Katrak; K. A. Tata; **Hon. Treasurer.**—Mrs. D. S. Bharucha.

DADAR SCHOOL FOR THE BLIND

160, Dadashah Phalke Road, Dadar, Bombay 14.

President.—Kamalnayan Bajaj; **Hon. Secretaries.**—Champaklal G. Modi, B.A., LL.B., J.P.; Smt. S. R. Potnis, B.A., LL.B.; Smt. Sudha V. Bhandarkar; **Principal.**—N. K. Ajgaonkar, B.A., LL.B.

DAUGHTERS OF THE CROSS, LIEGE, BELGIUM

St. Joseph's Convent, Bandra.

Nature of Body: Free School.

DAUGHTERS OF MARY IMMACULATE

Villa Vincenta, 2, Convent Street, Fort, Bombay 1 and also at Regina Pacis, Love Lane, Hyculla, Bombay 27.

The institution conducted by this Congregation comprises: (1) 2 Homes for destitute children; (2) 2 Recreation and Social Centres for Young Women and Girl domestic servants; (3) 2 Free Dispensaries for the Poor (Holy Name Dispensary and Regina Pacis Free Dispensary); (4) Hostels for young business women students.

DAWOODI BOHRA SOCIETY

Maskati House, Mohamedalli Road.

Nature of Body: Endowments for Education, etc.

DEPRESSED CLASSES MISSION SOCIETY OF INDIA

112, Meadows Street, Fort.

President:—Mangaldas M. Pakvasa; Hon. General Secretary:—N. S. Kajrolkar; Chairman:—M. B. Maniar, Bar-at-Law; Hon. Treasurer:—U. H. Kulkarni.

DR. DHIRAJRAM DALPATRAM AND BAI DAHIGAORI CHARITABLE TRUST

Tulsi Villa, Harvey Road, Gamdevi.

THE DIAMOND JUBILEE TRUST

Khoja Jamatkhana Compound,
Chinchbunder Road, Khadak, Bombay 9.

President:—Abdulla Soomar.
Hon. Gen. Secy:—Mrs. Zarina E. G. Currimbhoy, J. P.; Hon. Jt. Secy:—Haji Mahomed Jamal, J. P.

DISTRICT BENEVOLENT SOCIETY OF BOMBAY

Sir J. J. Dharmasala, opp. State Bank of India, Hyculla Branch.

Committee Members.—Sir Jamsetjee Jeejeebhoy, Bart., Chairman; G. Ross Thomas, Hon. Treasurer; Secretary.—Mrs. Jer N. Gobhai; Jt. Hon. Secretary.—Dr. Mrs. B. M. Dubash; Assistant Secretary.—Mrs. N. J. Patel

FAMILY PLANNING ASSOCIATION OF INDIA

1, Metropolitan House, Dadabhai Naoroji Road, Bombay 1.

The Association was established in 1949 and conducts (a) a Family Welfare Centre (Kutumb Sudhar Kendra), where advice on and assistance in birth control are given at premises in the Bombay Central Station Compound, Lamington Road North, Bombay 4; with Branch services in B.D.D. Chawls, DeLisle Road, Mahim and Kurla under the direction of Dr. V. N. Shirodkar; (b) Family Welfare Bureau where treatment for infertility and subfertility is available, at premises in the New Hospital for Women, New Queen's Road, Bombay 4, under the direction of Dr. G. M. Phadke with a panel of Specialists; (c) family planning clinics are being run in Badlapur village and Kalyan Refugee Camp; (d) clinics are also being conducted by the Association at the Reserve Bank Colonies in Hyculla and Mahim, at the Century Mills and Spring Mills; (e) the Association also conducts a free library and reading room at 1, Metropolitan House, Dadabhai Naoroji Road, Bombay 1, (f) it publishes a monthly bulletin 'Planned Parenthood' giving information and general news items on family planning; (g) edits and publishes a quarterly magazine, 'The Family Welfare Journal'; (h) issues literature, pamphlets in various languages for educational purposes; (i) the Association arranges lectures in various languages, question and answer meetings and film shows for educative propaganda; (j) specialised training courses are conducted for doctors, health visitors and social workers, not only at Headquarters, but in other parts of the country by a touring training team; (k) the Association has arranged three All India Conferences, and two International Conferences on Family Planning, where eminent experts from many countries have participated; (l) a Supply Department is maintained for the distribution of contraceptives to clinics all over India, which require all varieties of contraceptive appliances; (m) the following are the Branches of the Association: Agra, Ajmer, Bangalore, West Bengal, Bombay, Andhra Pradesh, Delhi, Indore, Jalpaiguri, Jamnagar, Kutchi, South Kanara, Madras, Manipur, Mysore State, Punjab, Tiruchirappalli, Trivandrum and Vidarbha.

The Association is affiliated to the International Planned Parenthood Federation.

President.—Smt. Dhanvanthi Rama Rau.
Vice-Presidents.—Smt. Mithan J. Lam, Col. R. N. Khosla, B. M. Singhi.

Hon. Gen. Secretary.—Smt. Avabai B. Wadia.

Jt. Hon. Treasurers.—Smt. Vaidehi Char, Smt. M. S. H. Jhabvala.

THE FAMILY WELFARE AGENCY

209, Dadabhai Naoroji Road, Fort.

FELLOWSHIP OF THE PHYSICALLY HANDICAPPED

No. 7, Queen's Barracks, Fort-shore Road, Backbay Reclamation, Bombay 1.

President:—Mrs. Fathema Imail; Vice-President:—H. B. Kher; Hon. Gen. Secretary:—Mrs. S. K. Kothavala; Associate Hon. Gen. Secy:—Mrs. B. Ratanlal; Hon. Treasurer:—D. P. Guzdar; Assoc. Hon. Treasurer:—Mrs. A. Wahabuddin.

FREE OPHTHALMIC HOSPITALS' SOCIETY

Jehangir Merwanji Road, Polbavdi, Parel, Bombay 12.

President.—Khan Saheb Haji Hyderally Haji Bachooally, J.P.
Hon. Secretary.—Dr. M. K. Sathe.

GANDHI SEVA SENA

Adenwalla Mansion, Chowpatty Sea Face, Bombay 7.

The Gandhi Seva Sena conducts (a) a Village Industries Shop, (b) a Baiton Shop, (c) a Khadi Shop and a free work class for Women for Embroidery Work only on Khaddar-Hand-spun and hand-woven cloth at 12, Ness Baug (New Petit House), Nana Chowk, Bombay 7.

It also conducts 2 Night Schools for men and boys at Bandra and Khar respectively since several years.

GARIB ZARTHOSTIONA REHETHAN FUND

Rustom Building, Vir Nariman Road, Fort.

Nature of Body: Cheap housing.

GHATKOPAR BALKAN-JI-BARI

(Est'd. 1939).

Prafulla Nivas, Agra Road, (Ghatkopar, Bombay 39).

Conducts various child welfare activities such as children's library, wall-paper, games, hobbies, tours, talks, etc. Meeting place and time—Bhatia Wadi, Tilak Road, Ghatkopar, Every Sunday, 8-30 a.m. to 11-30 a.m.

GIRDHAR JIVA CHARITY TRUST

88, Dadyseth Aglary Lane, Bombay 2.

Trustee:—Jamnadas Harjivandas.

GIRLS' DIOCESAN HOSTEL

Successors to All Saints Community, All Saints Convent, Mazagon, Bombay 10.

GOCULDAS TEJPAL BOARDING SCHOOL & SANSKRIT PATHSALA

Tejpal Road, Gowalla Tank, Bombay.

Admits poor deserving students for degree courses in Arts, Science and Commerce, as free, half free and paying students. Prepares students upto the Acharya examinations in Sahitya, Vyakaran and Jyotish.

Superintendent.—Dayashanker Madhvji Bhatt, B.A., S.T.C., LL.B.

GOCULDAS TEJPAL CHARITIES

7, Bastion Road, Fort, Bombay.

GOCULDAS TEJPAL NURSING ASSOCIATION

Forbes Building, Home Street, Fort, Bombay 1.

Chairman.—Dr. R. N. Cooper, M.S. (Lond.), F.R.C.S. (Eng.).
Hon. Secretary & Treasurer.—J. D. Smithard, M.A. (Oxon.).

GOVERNOR'S HOSPITAL FUND FOR BOMBAY

C/o Jehangir J. K. Patell, W. I. A. A., Post Box No. 211, Bombay 1.

Chairman.—N. B. Jeejeebhoy; Joint Hon. Secretaries.—Khatau G. Dayal, Jehangir J. K. Patell; Hon. Treasurer.—E. Golwalla.

GOWALIA TANK ROAD PARSİ WELFARE CENTRE

President.—H. N. Dallas; *Vice-President.*—Adi K. Munshi;
Jt. Hon. Secretaries.—R. D. Bugwadia and N. B. Cardmaster;
Jt. Hon. Treasurers.—H. K. Panthaky and M. K. Saklatwala. All
communications to be addressed to R. D. Bugwadia, Forjets Cross
Lane, Bombay 26.

GRAM SEVA SAMAJ

129, Gulaiwadi, Bombay 4.

Nature of Body: Free distribution of medicines in rural areas.

HABONIM WORK ROOM

55, Forbes Street, Fort.

Women and girls from all strata of society are admitted,
preference being given to displaced and destitute persons.

For deserving people free training, free meals every afternoon;
free medical attention and bus transportation fees are given.

President and Founder-member: Mrs. E. Judah.

**Haji ALLARAKHIA RAHIMTOOLA SONAWALLA
CHARITY TRUST (WAKF) FUND No. 1.**

Khetwadi 9th Lane, Bombay 4.

President:—Husseinaly M. Viam.

Managing Trustee:—Valimohomed Haji Alarakhia Sonawala.

**Haji ALLARAKHIA RAHIMTOOLA SONAWALLA
CHARITY TRUST (WAKF) FUND No. 2**

Khetwadi 9th Lane, Bombay 4.

President:—J. R. B. Jeejeebhoy.

Managing Trustee:—Valimohomed Haji Alarakhia Sonawala.

HAPPY HOME & SCHOOL FOR THE BLIND

B. D. D. Chawl 52, 3rd Floor, Worli.

This charitable residential institution for blind boys between 7
and 20 and fully secular, is the only one of its kind to provide for
street blind and delinquents. It was started in 1925. It aims at
giving educational and vocational training to blind juvenile boys.
Music both instrumental and vocal as well as cane-work, weaving,
net-work, sewing, knitting, dramatics, physical culture, scouting
etc., are taught, with a view to making them self-supporting. It
gives general education in Marathi and Gujarati upto the 7th stand-
ard. Hindi and a little bit of English are also taught. Special
attention is paid to developing the character of inmates and turn
them into useful citizens thus saving them from becoming beggars.

There are 56 inmates with room for 60, funds permitting.

President:—Kamalnayan Baja.

Hon. Secretary:—Mrs. Coomi Sohrab Bharoocha 68, Pedder
Road, Bombay 26.

HARIJAN SEVAK SANGH

(Bombay Provincial Board)

C/o Congress House, Bombay 4.

President.—N. S. Kajrokar.

Hon. Secretary.—H. N. Trivedi, J.P.

HIND KUSHTA NIVARAN SANGHA

(Indian Leprosy Association)

Bombay State Council, Red Cross Office, 141, Mint Road, Bombay 1.

President.—The Minister for Health, Bombay.

Hon. Secy. & Treasurer.—Capt. N. J. Vazifdar.

HINDU DEEN DAYA SANGH

Plot No. 255-56, Sion Road, Bombay 22.

A foundling home for infants and orphans.

President.—Mangaldas M. Pakvasa. *Trustees.*—Bhavanji A.
Khimji, M.P., J.P., Madhavlal H. Shah, J.P., Liladhar P. Shah, J.P.,
Navalmal K. Firodia, B.Sc. *Chairman.*—Prabhashanker R. Bhatt,
J.P. *Vice-Chairmen.*—Dr. D. D. Vora, M.D., M.R.C.P.; Nathalal M.
Parekh, J.P. *Hon. Secretaries.*—Lalbbhai P. Shah; Miss Premaben
Jeevandas, J.P.; Pravinchandra T. Shah. *Hon. Treasurer.*—Laxman
G. Vinze.

HINDU SEVAK SAMAJ

C/o Mrs. Usha Khandwala, Fulchand Nivas, Chowpatty Sea Face.

HINDU WOMEN'S RESCUE HOME SOCIETY

(Shradhdhanand Anath Mahilashram.)

King's Circle, Matunga (C. Rly.), Bombay.

Chairman.—Mrs. Tarabai M. Premchand.

Hon. Treasurer.—K. H. Dhamdhare. *Joint Hon. Secretaries.*—
S. S. Navare, B. V. Dhadphale.

HOLY NAME DISPENSARY & HEALTH CENTRE

Villa Vincenta, Convent Street, Fort.

**HOMES & ORPHANAGES FOR CHILD SERVANTS
(GIRLS)**

1, Villa Vincenta, Convent Street, Bombay 1.

2, Regina Pacis, Love Lane, Byculia, Bombay 27.

INDIAN CONFERENCE OF SOCIAL WORK

16, Government Hutments, 6/A, Cooperage, Bombay 1.

The Central Office is situated in Bombay and it serves as a clearing
house of information and a central body for planning, co-ordinating
and collaborating social work in India. A Regional Office of the
International Conference of Social Work for the Far East with
jurisdiction from Australia to Iraq, also functions in Co-operation
with the Central Office of I.C.S.W.

INDIAN COUNCIL FOR MENTAL HYGIENE

Cumbatta Chambers, Eros Building, 42, Queen's Road, Bombay 1.

President:—Harekrishna Mahlab; *Vice-Presidents:*—Lady
Dhanvanti Rama Rao, Maj-Gen. S. L. Bhatia, M.C., M.A., M.D. (Cantab.),
F.R.C.P. (Lond.), F.R.S.E., I.M.S., Dr. B. B. Dixit, M.B.B.S., D.P.H.,
M.R.C.P. (Edin.), Ph.D. (Edin.), F.R.S. (Edin.), F.N.I., Lieut-Colonel
C. K. Lakshmanan, L.V. & S. (Mad), M.R.C.S., D.T.M. & H. (Lond.),
D.P.H. (Eng.), Dr. K. C. K. E. Raja, D.P.H., D.T.M. & H., L.R.C.P.S.,
Prof. A. R. Wadia, M.B.A. (Bom. & Cantab), Bar-at-law, Dip.
in Econ. & Pol. Sc. (Oxford); *Chairman, Executive Committee.*—
Dr. K. R. Masani, M.R.C.S. (Eng.), L.R.C.P. (Lond.), D.P.M. (Eng.);
Hon. Treasurer:—V. G. Salivad; *Hon. Secretaries:*—Dr. K. L.
Shrimall, M.A., P.V. (Cal.), M.A. (Phil.), (Benares), M.T., Ph.D.;
Dr. Miss M. Gamat, M.B.B.S., D.C.H. (Lond.), D.P.M. (Dub.), Dr. D. M.
Bassa, M.B.B.S., D.P.M. (Bom.).

INDIAN RED CROSS SOCIETY

(Bombay State Branch.)

141, Mint Road, Bombay 1.

President.—The Governor of Bombay.

Chairman.—Prof. V. G. Rao, B.A., LL.B. (Cantab.), O.A.

Hon. Treasurer.—Dr. R. C. Cooper, M.Com., Ph.D., F.C.S., F.S.A.A.

General Secretary.—Dr. J. N. Vazifdar, M.B.B.S., M.C.P.S.

Asst. Secretary.—Miss M. Frenchman.

INDIAN SAILORS' HOME SOCIETY

Musjid Siding Road, Bombay 9.

Office-Bearers:—L. T. Gholap, I.C.S. (*Chairman*); T. V. Rajagopalan
(*Hon. Secretary*); I. B. Das Gupta (*Hon. Treasurer*); M. D.
Mantri (*Superintendent*).

INDUSTRIAL HOME FOR BLIND WOMEN

180, Dadar Main Road, Dadar, Bombay 14.

This is the first industrial home of its kind in Bombay for blind
girls. There are 16 girls on the roll and they are given free boarding,
lodging, clothing, medical aid, tuition and other amenities. Special
trainings are also given in various vocations such as weaving, cane work,
pin cushions, making of belts in different colours, etc. The Home
is a sister concern of the Dadar School for the Blind and is accom-
modated in the School premises.

President:—Kamalnayan Baja.

Hon. Secretaries:—Champaklal G. Modi, B.A., LL.B., J.P.; Smt. S.
B. Potnis, B.A., LL.B.; Smt. Sudha V. Bhandarkar; *Hon. Supdt.*—
Kum. N. K. Ajgaonkar, B.A., LL.B.

INSTITUTE OF SOCIAL SERVICE

Two year Home Science Course, 1 year Course for Teacher Training in Home Science; two year Post Graduate Social Service Course.

Nirmala Niketan, 38, New Marine Lines, Bombay 1.

IRANIAN ZOROASTRIAN ANJUMAN

Kermani Building, Sir P. M. Road, Fort.

Nature of Body: Endowments for Maintenance.

Secretary.—Aspundiar M. Aga, B.A.

JAM-E-JAMSHED CHARITY FUNDS

Mangalore Street, Ballard Estate.

JAMSETJEE JEEJEEBHOY HOSPITAL NURSING ASSOCIATION

Maneckji Wadia Bldg, 6th Floor, 127, Mahatma Gandhi Road, Bombay 1

Neville N. Wadia (*President*), J. R. Taleyarkhan (*Hon. Secy. and Treasurer*).

SIR JAMSETJEE JEEJEEBHOY PARSEE BENEVOLENT INSTITUTION

209, Dr. Dadabhai Naoraji Road, Fort, Bombay.

(*Chairman*.—Sir Jamsetjee Jeejeebhoy, Bart., *Chief Correspondent*: B. F. Anklesaria, *Principal*, Sir J. J. Fort Boys' High School.—*Dr.* Jal H. Wadia, B.A., B.Sc., Ph.D., *Principal*, Sir J. J. Fort Girls' High School.—*Miss* N. K. Banaji, M.A., B.T.

JEEJEEBHOY DADABHOY CHARITIES

Alice Building, Hornby Road. Tel. No. 255788.

Chairman.—Nanabhoi B. Jeejeebhoy.

Trustees.—Rustom D. Jeejeebhoy, Padam D. Jeejeebhoy, Dinbai J. M. Jeejeebhoy.

Secretary.—Nariman R. Neralwalla

JEWISH RELIEF ASSOCIATION

Hague Building, Sprott Road, Ballard Estate, Post Box No. 47.

Hostel.—Habib Chambers, 324, Victoria Gardens Road, next to Christ Church football compound, Bombay 8.

J. J. HOSPITAL AMBULANCE

J. J. Hospital, Bombay 8.

The J. J. Group of Hospitals Ambulance is available for the General Public in the City of Greater Bombay if phoned on the Telephone No. 71103 between 8-0 A.M. and 7-0 P.M., on all working days and on Telephone No. 76563 at any other time. The ambulance charges are Rupees five for first five miles and every additional mile is charged twelve annas per mile. The free ambulance service is given to poor and indigent patients only, and to Bombay Government Servants and their family. This service is available for carrying the patients from J. J. Group of Hospitals to their home and vice versa in Greater Bombay only.

J. N. PETIT PARSII ORPHANAGE AND TECHNICAL HIGH SCHOOL

28, Bund Garden Road, Poona.

BOMBAY OFFICE: N. M. Petit Charity Fund, Petit Building, Dr. Dadabhoi Naoraji Road, Fort.

President.—Sir Dinshaw Petit, Bart.

Vice-President Nassarwanji Hormusji Sethna *Secretary*.—D. S. Buhariwalla. *Principal*.—H. A. Vataha.

J. N. TATA ENDOWMENT FOR THE HIGHER EDUCATION OF INDIANS

Bombay House, Bruce Street, Fort.

Director.—Mrs. Piroja J. Vesugar.

Secretary.—V. G. Narainasami.

JUVENILE SERVICE BUREAU

J. J. Dharmashala, 2 Duncan Road, Nagpada, Bombay 8.

The Bureau, a preventive undertaking of the Children's Aid Society, Bombay, offers free service to parents and guardians, who may have trouble with their children regarding their maladaptive behaviour. It endeavours to detect and treat the potential delinquent child while it is still in the predelinquency stage. It also helps mentally or physically handicapped children. It runs child welfare centres at Matunga Labour Camp, Kamathipura and Dehak Chawl, Dadar.

Bureau Officer.—G. K. Naidu.

KASHIBAI HERLEKAR HOME

83, Cadell Road, Govind Bhuvan, Shivaji Park, Dadar, Bombay 28.

Nature of Body: Hostel.

Secretary.—Smt. Shantabai Kasbalkar.

KASTURBA MAHILA MANDAL

Jiwan Prakash, Tulsi Pipe Road, Bombay 16.

KESARBAI CHARITY TRUST

88, Dadiseth Agiary Lane, Kalbadevi Road.

Trustee: Jamnadas Harjivandas.

KHOJA GIRLS' ORPHANAGE

125, Jali Road East, Habib House, Bombay 9.

KING EDWARD MEMORIAL MEN'S INDUSTRIAL HOME

(The Salvation Army.)

122, Ripon Road, Byculla.

Senior Major E. Partridge, *Manager*

Col. D. A. Sanjivli, *Social Services Secretary*.

KING GEORGE V MEMORIAL

Infirmary and Lady Dhunbai Jehangir Home for the Destitute.

Royal Insurance Bldg, Backbay Reclamation, Churchgate.

Chairman.—Lady Cowasji Jehangir, J.P.; *Hon. Secretaries*.—C. M. Desai, B.A., LL.B., A.F.I.L., J.P.; P. R. Mullaferoze, B.Com., F.C.C.S., J.P.; *Hon. Treasurer*.—K. S. Sethna, J.P.

KUDALDESHASTHA GAUD BRAHMIN VIDYAVRIDDDHI SAMAJ

30, Kudalदेशkar Brahmin Niwas, Bombay 4.

Nature of Body: Charitable Institution for Scholarships to Students from Community.

LADY TATA MEMORIAL TRUST

Bombay House, Bruce Street, Fort, Bombay 1.

Trustees.—Lady Ratan Tata, J. R. D. Tata (*Chairman*), Sir Homi Mody, K.B.E., J. D. Choksi, D. E. D. Tata, Mrs. P. J. Vesugar, Professor R. Choksi.

Secretary.—N. D. Godbole.

LEAGUE OF MERCY FOR THE STATE AND DIOCESE OF BOMBAY

61, Clare Road, Byculla, Bombay 8.

President.—The Right Rev. the Bishop of Bombay.

Vice-Presidents.—The Venerable the Archdeacon C. A. Bolton, 19, Waudby Road; Mrs. J. W. E. Gurr, 6, Cuffe Parade; Mrs. M. G. R. Aitken, M.B.E., 5, Sealand, Cuffe Parade.

Hon. Treasurer.—J. D. Gillies; *Associate Hon. Secretary*.—Mrs. J. F. Fewings-Tate.

LIAISON COMMITTEE FOR ORGANISATION OF PARSI CHARITIES

Zor. Assn. Indust. Inst. Bldg., Chikalwadi, Tardeo, Bombay.

LOKA SEVA MANDAL

Kalla Killa, Dharavi, Bombay 17.

Activities :—Youth Organisation. Library, Reading room, Prohibition work, Free milk distribution to Children, Women Association-Social Workers (Shramdan) Camp.

LOKMANYA SEVA SANGH

Tilak Mandir, Ram Mandir Road, Vile Parle.

A non-communal social body, does educational work. It runs a library, a gymnasium, tailoring and embroidery classes for ladies and ayurvedic and allopathic dispensary.

President :—B. D. Phansalkar.

Secretaries :—P. G. Surve, S. M. Modak.

MAHILA SANGH D-WARD (A.I.W.C.)

Servants of India Society Bldg., 2nd Floor, Sardar Vallabhbhai Patel Road.

MANECKJI NOWROWJI SETT CHARITIES

Kodak House, Dr. Dadabhoy Nowroji Road, Fort, Bombay 1.

MANECKJI NOWROJI SETT POLYTECHNIC INSTITUTE

Kodak House, Dr. Dadabhoy Nowroji Road, Fort, Bombay 1.

MANGALOREAN CATHOLIC EDUCATIONAL CO-OPERATIVE CREDIT SOCIETY, LTD.

14, Noble Chambers, Parsi Bazar Street, Fort.

MANGESH VISHWANATH RAJADHYAKSHA SCHOLARSHIPS AND CHARITY FUND

Mangesh Building, New Bhatwadi, Bombay 4.

The object of the Trust is to help the poor and deserving students and destitutes in the whole of the Gowd Saraswat Brahman community. The trust spends annually Rs. 3,000, two-thirds of which are given by way of scholarships and the balance as subsistence allowance to destitutes.

MARATHA VIDYARTHI SAHAYAKARI MANDAL

Batatawala Mansion, 1st Floor, Lal Baug, Bombay 12.

President :—M. K. Palav; *Vice-President* : R. B. Parab; *Hon. Treasurer* :—R. S. Sawant.

MOGAVEERA VYAVASTHAPAKA MANDALI, BOMBAY

Manek Mansion, 8, Nanabhai Lane, Bombay 1.

Objects :—Promoting the spread of education through day and night schools.

DR. MOTIBAI KAPADIA EDUCATION FUND

C/o Prof. P. A. Wadia, Thakur Nivas, Jamshedji Tata Road, Bombay 1.

MR. & MRS. BAGOMAL TULSIDAS CHARITIES

Gopal Mansion, Turner Road, Bandra, Bombay 20.
Benevolent Institution giving medical relief.

Sole Trustee :—G. B. Sujan.

Medical Officer in Charge of Dispensary and Pathologist :—Dr. L. H. Mirchandani; *Dental Surgeon* :—Dr. A. N. Shah; *Optomist* : K. G. Singh.

MUNCHERJEE NOWROJEE BANAJEE INDUSTRIAL HOME FOR THE BLIND

'Chateau Dieu', 280, Ghodbunder Road, Jogeshwari, Bombay 42.
Chairman :—Shantilal H. Shah; *Vice-Chairman* :—Smt. Mithan J. Lam; *Hon. Secretaries* :—Capt. H. J. M. Desai, Lt. G. L. Nardekar.

MUNICIPAL AMBULANCE DEPOT

(For Infectious Diseases)
174, Arthur Road.

MUSLIM AMBULANCE SOCIETY

162-54, Kambekar Street, Bombay 3.

President :—Abdul Rahim B. Sheth, B.A., LL.B.; *Hon. Secretaries* :—Yousuf Nensey; Fakirmohamed A. R. Nakhuda. (Tel. No. 70146).

MUSLIM GIRLS AND BOYS ORPHANAGE

Darul Yatama Building, 69, Kambekar Street, Bombay 3.

Chairman :—Fakirmohamed A. R. Nakhuda.

Managing Trustee :—Ahmed Hajee Abdullah Gareeb.

Superintendent :—Saifuddin Gulamrasool Qazi.

N. F. KANNY CHARITY TRUST FUND

C/o P. A. Wadia, 173, Jamshedji Tata Road, Backbay, Bombay 1.

N. M. WADIA CHARITIES

22-D, Parsi Bazar Street, Fort.

Trustees :—Sir Jamsetjee Jeejeebhoy, Bart., Sir Rustom P. Masani, Kt., C. P. Wadia and K. J. Khambata.

Secretary :—Lt. Comdr. D. B. Morris, G.D.A., A.C.A., I.M. (Retd.).

N. S. D. INDUSTRIAL HOME FOR THE BLIND

B.D.D. Chawl No. 52, Worli, Bombay 18. Tel No. 75995.

The chief aim is to educate, train and rehabilitate its inmates to lead an independent economic life.

Hon. Secretaries :—Capt. H. J. M. Desai, M.A., LL.B.; Lt. G. L. Nardekar.

Superintendent :—(Kumari) S. S. Galtoude.

NAGPADA NEIGHBOURHOOD HOUSE

New Nagpada Road, Byculla.

Activities :—Medical and Family Planning Clinics, children's welfare centre, nursery, dramas, meetings, cinemas, games, classes, clubs, athletics, night schools, lectures, sales centre for All-India Village Industries, employment bureau, working men's and women's hostels and libraries for adults and children, Bombay School of Social Welfare and Citizen's Advisory Bureau, Women's activities, Creche.

Director :—P. R. Galkwad, B.A., Dip. S.S.A., M.S.

Medical Officer :—Dr. (Mrs.) P. M. Mody, M.B.B.S.

Supervisor (Women's Work) :—Miss. Z. Noorani, B.A. (Hons.), Dip. S.S.A.

NARAYANRAO KULKARNI MEMORIAL WELFARE SOCIETY

20, Hamam Street, Fort.

President :—A. S. Padukone, B.Sc.; *Vice-President* :—Dr. S. S. Kulkarni, L.C.P.S., D.T.M.; *Jt. Hon. Secretaries* :—M. Bhavanisankar Rao; B. N. Kulkarni.

NASSERWANJEE MANOCKJEE PETIT CHARITY FUND—(1888)

AND

NASSERWANJEE MANOCKJEE PETIT FUND FOR HELPING DESTITUTE INSANE ZOROASTRIANS

Petit Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

President :—Sir Dinshaw M. Petit, Bart.; *Vice-President* :—Nasserwanji H. Sethna; *Secretary* :—Dinshaw S. Buhariwalla.

THE NATIONAL ASSOCIATION FOR THE BLIND

3rd Floor, Jehangir Wadia Building, 51, Mahatma Gandhi Road, Bombay 1.

AIMS AND OBJECTS.—To work in the whole of India for the prevention and cure of blindness and for the welfare of the blind, to bring about co-operation among the various organisations of the blind, to co-ordinate their activities, to organise and start new organisations and institutions for various activities for the welfare of the blind and to do all such other things as may be necessary for the promotion of the interest of the blind.

Funds are derived from donations from the public and by organising entertainments, etc.

OFFICE-BEARERS—*President*.—R. M. Alpaiwalla, Bar-at-Law; *Vice-Presidents*.—M. N. Chhatrapati, Advocate. U. A. Baarurkar, II. C. Captain, Lady J. Juggan; *Secretaries*.—Capt. H. J. M. Desai, K. N. K. Jussawala, G. L. Nardekar, Smt. D. S. Khambata, Dr. Rajendra T. Vyas, Dr. N. P. Billimoria, F. Moos; *Hon. Treasurers*.—Smt. J. N. Gobhai, Noshir P. Dastur; *Executive Officer*.—Suresh C. Ahuja.

PARSI CHARITY ORGANISATION SOCIETY

Thakur Nivas, 173, Jamshedji Tata Road, Bombay 1.

Hon. Secretary.—Prof. P. A. Wadia, M.A.

PARSI PUNCHAYET FUNDS AND PROPERTIES

209, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

The Trustees of the Parsi Punchayet manage religious and charitable funds. They also manage several institutions and projects some of which are—Nursery School, The Fort Nursery and Infant School, (Noble Chambers, Parsi Bazaar Street, Fort, Bombay 1), Sir Jamsetjee Jeejeebhoy Zarthoshti Madressa, (Engineer Building, Princess Street, Bombay 2), Sir Jamsetjee Jeejeebhoy Commercial Institute, (Sir J. J. P. B. Institution Building, 209, Dr. Dadabhoy Navroji Road, Fort, Bombay 1); The Boarding Home for Rural Boys, (Gholvad); The B. N. Gamadia Technical Institute, (Gamadia Colony, Tardeo); the Health Unit (Gamadia Building, Gamadia Colony); Hostel for Boys, (Gamadia Colony, Tardeo); the Central Employment Bureau, (209, Dr. Dadabhoy Navroji Road, Fort, Bombay 1); the Industrial Institute, (Gamadia Colony, Tardeo); an Infirmary known as the F. S. Parekh Dharamshala (Hughes Road, Bombay); M. P. Khareghat Memorial Hall and Museum, (Khareghat Colony, Hughes Road, Bombay 7); Department of Psychological Services, (Head Office) Housing Colonies for poor, lower middle and middle class families throughout Greater Bombay, Towers of Silence at Doongerwadi, Parsi Prakash, a chronicle of Parsi events, etc., etc.

The Trustees are also custodians of charitable and religious funds of mofussil and foreign towns.

Chairman.—Sir Cowasjee Jehangir, Bart.; *Trustees*.—Nadirahab R. Mulla, Solicitor, Lady Hirabai Cowasjee Jehangir, Lt.-Col. R. M. Khareghat, Sir Navroji J. Wadia, Kt., Erach Ardesahir Nadirahab, B.A., B.Sc. (Eng.), and Hormusji Dossabhoy Banaji, Advocate (O.S.).

Secretaries.—Sapur Desai; Gustasp Antia.

POONA SCHOOL AND HOME FOR THE BLIND

201, Khadilkar Road, Girgaum, Bombay 4.

Honorary Secretary.—Dr. S. K. Machave, L.C.P.S.

THE POPULAR AMBULANCE ASSOCIATION

(Tel. 73806.) Talmakiwadi, Tardeo, Bombay 7.

President.—A. S. Padukone; *Vice-President*.—K. Panduranga Rao; *Chairman*.—N. G. Ubhayakar; *Hon. Secretary*.—Dr. B. P. Dangi; *Hon. Treasurer*.—S. B. Chikramane.

PROBATION AND AFTER-CARE ASSOCIATION, BOMBAY STATE

B.I.T. Block No. 33, King's Circle, Matunga.

Telephone: 60152.

After-care, adult probation work and aid to discharged prisoners.

Conducts a hostel at Chembur near Shell Colony and Beggars Home.

President.—Smt. T. M. Premchand.

Vice-President.—G. K. Rego; *Hon. Treasurer*.—B. G. Gokhale, B.Com., J.P.; *Chief Officer*.—E. B. Shah, B.A.

PROF. DATE'S CHARITABLE DEAF AND DUMB INSTITUTE

Opp. Kalaram Mandir, Thakurdwar Road, Bombay 2.

RAMAKANT KRISHNA BHENDE SCHOLARSHIP FUND

22, Horniman Circle, Fort, Bombay 1.

RAO BAHADUR ANANT SHIVAJI DESAI TOPIWALA CHARITY

Kudaladeshkar Brahmin Niwas, Girgaon, Bombay 4.

Chairman.—S. N. Desai Topiwalla; *Managing Trustee*.—V. P. Khanolkar; *Hon. Secretary*.—S. R. Desai.

RASHTRA DHARMA SOCIETY

Ganga Nivas, 234, Walkeshwar, Bombay 6.

Founded in 1927, the Society is devoted to Education and Rural Welfare.

RECREATION AND SOCIAL CENTRES FOR YOUNG WOMEN AND GIRL DOMESTIC SERVANTS

1. Villa Vincents, Convent Street, Fort, Bombay 1.

2. Regina Pacis, Love Lane, Byculla, Bombay 27.

Conducted by the Daughters of Mary Immaculate.

ROHIDAS SUDHARAK MANDAL

B.D.D. Block No. 12/B, Room 54, Nalgam, Dadar.

Nature of Body: Endowments for scholarships and loans.

President.—R. B. Chandorkar; *Secretary*.—V. D. Kaprekar.

ROYAL BOMBAY SWAMEN'S SOCIETY

Nicol Road, Ballard Estate, Bombay.

President.—The Rt. Rev. The Lord Bishop of Bombay.

Chairman.—N. H. G. Grant; *Port Chaplain*.—The Rev. Robert Barlow.

SALVATION ARMY

Post Box No. 4510, Morland Road, Byculla.

SARAIYA CHARITY TRUST

Swastik Court, 132, Queen's Road, Band Stand, Bombay 1.

Activities.—Scholarships given for medical and engineering studies.

SAU BHRATRA SANGHA LTD.

14, Vasant Breary Chambers, King's Circle, Bombay 19.

The Sangha, incorporated as a Company limited by guarantee, in June 1951, under the Indian Companies Act VII of 1913, has for its objects the alleviation of the lot of middle-class people generally and in particular, provision of houses for the homeless immediately by organizing a homogeneous colony of people whose ways of life are identical.

President, R. V. Murthy; *Vice-President*, N. R. Chandran; *Hon. Secretary*, T. R. Seshadrinathan; *Hon. Treasurer*, N. K. Krishna.

SCHOOL FOR CHILDREN IN NEED OF SPECIAL CARE

Sewri Hill, Sewri Road, Bombay 15.

Director.—Mrs. Jai H. Vakeel.

SETH ARDESHIR SORABJI FRAMJI PATEL CHARITY FUND

Yusuf Building, Mahatma Gandhi Road, Fort.

Secretary: P. P. Antia.

SETH MANECKCHAND HIRACHAND JUBILEE BAUG TRUST FUND

Jubilee Baug, Near Tardoo Bridge, Bombay 7.

Office : 190, Javeri Bazar, Bombay 2.

Endowments for scholarships.

Manager.—R. B. Shah.

SETH RANCHHODDAS CHATURBHUI CUTCHI LOHANA BAL ASHRAM

63, Parel Road, Chinchpokli, Bombay 12.

Chairman.—Purshotam Chaturbhui.

Hon. Secy.—Hirji Lakhmidas; *Jt. Hon. Secy.*—N. P. Chandan; *Superintendent.*—M. S. Somaiya.**SEVA SADAN SOCIETY**

Gamdevi, Bombay 7.

President.—Mrs. Rasikmani B. Desai; *Hon. Secretary.*—Miss B. A. Engineer, M.B.E., M.A., LL.B.; *Jt. Hon. Secretary.*—Mrs. V. D. Musumdar.**SHEPHERD WIDOWS' HOME**

Byculla.

Chairman.—The Rev. C. W. Venkataramiah.

Honorary Secretary.—Mrs. D. G. Leach, C/o F. J. Vickery, Hill Crest, 31, Pedder Road, Bombay 28.**SHRADHANAND ANATH MAHILASHRAM**

King's Circle, Matunga, Bombay 19.

SHREE MODH SUBHECHAK FUND

542, Sandhurst Bridge, Bombay 7.

Nature of Body : Endowment for maintenance and education.

SHREE RAMKUNVAR CHARITABLE X-RAY INSTITUTE TRUST

Ranade Road, Jiva Devai Niwas, Dadar, Bombay 28.

Managing Trustee.—Girdharlal Damodar Dastur.

The trust conducts the Shri Ramkunvar Charitable X-Ray Institute, Dadar, Shri Damodar Ambavidas Dastur Sarvajanic Dispensary at Chembur Housing Colony and Shradhanand Road, Ghatkopar.

SHREE VILE PARLE KELAVNI MANDAL

Dadabhoi Road, Vile Parle.

Conducts Primary and Secondary Schools.

SHRI JAIN MAHILA SAMAJ

Mangrol Mansion, Bora Bazar Street, Bombay 1.

(Estd. 1910).

Dadar Centre : A-36, Palanji Soffal Bldg., Portuguese Church Street, Bombay 28.

It is open to all Indian women above the age of 18. There are 1,200 members at present. Coaches ladies for the diploma course in tailoring of the Technical Education Department of Bombay and conducts classes for its own tailoring. Adult education in Hindi, Gujarati and English also given. Besides the Samaj conducts a Kanya Mandal for girls between 12 and 16 years of age and a Bal-Mandir for children of 3 to 6. *Vikas*, a magazine is run by the Samaj. Classes in cutting, sewing and music are also held. Scholarships are given to needy women and girls joining Nursing Course and Teacher's Training College Courses.

President.—Smt. Taraben M. Premchand.*Hon. Secretaries.*—Smt. Lilavatiben Devidas, Smt. Menaben N. Sheth, Smt. J. M. Kapadia.**SHRI MAHAVIRA JAINA VIDYALAYA**

Gowalla Tank Road, Bombay 26.

Nature of Body : Endowments for scholarships and loans.

SHRI RAMKUNVAR CHARITABLE X-RAY INSTITUTE

Ranade Road, Jiva Devai Niwas, Dadar, Bombay 28.

Managing Trustee.—Girdharlal D. Dastur.*Medical Superintendent.*—Dr. S. P. Mehta, M.D.; *Radiologist.*—Dr. M. M. Mehta, M.B.B.S., D.M.R.E.; Time 8 to 9-30 A.M. and 4 to 6 P.M.**SIR DORABJI TATA TRUST**

Bombay House, Bruce Street, Bombay 1.

Trustees.—Lady Ratan Tata, Sir Homi Mody, K.B.E. (*Chairman*), J. R. D. Tata, A. D. Shroff, Dr. John Matthai, N. H. Tata, Prof. R. Choksi.*Secretary.*—N. D. Godbole.**SIR RATAN TATA CHARITIES**

Bombay House, Bruce Street, Fort.

Trustees.—Lady Ratan Tata; Naoroji Hormusji Tata; Sir Hormusdar Dastur, Kt.; Dhanjishaw Hosangshaw Nanavati.*Secretary.*—Pirosha Pestonji Mistry.**SIR RATAN TATA INDUSTRIAL INSTITUTE**

Sir Ratan Tata Industrial Institute, Hughes Road.

SIR RATAN TATA WELFARE CENTRE

Cowasji Jehangir Colony, Tardeo, Bombay 7

SOCIAL SERVICE DEPARTMENT

J.J. Group of Hospitals, Byculla.

SOCIAL SERVICE LEAGUE

St. Xavier's College, Bombay 1.

SOCIETY FOR THE CARE, TREATMENT AND TRAINING OF CHILDREN IN NEED OF SPECIAL CARE

Sewri Hill, Sewri Road, Bombay 15.—Tel. No. 72770.

President.—Sir N. J. Wadia, Kt.*Vice-President.*—Dr. R. N. Cooper, M.S.*Director.* Mrs. Jal H. Vakeel.**SOCIETY FOR THE PROTECTION OF CHILDREN IN WESTERN INDIA**

The Byramjee Jeejeebhoy Home for Children, Matunga, Bombay 19.

President.—Frank Ollivier, B.A., LL.B.*Vice-Presidents.*—Sir Rustom Masani, M.A. (*also Chairman*); J. R. B. Jeejeebhoy; Mrs. G. B. Seervai; *Hon. Secretaries.*—Lady Masani; Lady Kanla; Diwan Bahadur Dr. J. S. Nerurker; Mrs. P. C. Mehta; *Hon. Treasurers.* J. R. B. Jeejeebhoy; K. A. Chidambaram.*Superintendent.*—Miss I. A. Sabnis.**SOCIETY FOR THE REHABILITATION OF CRIPPLED CHILDREN**

Haji Ali Park, Clerk Road, Mahalakshmi.

Chairman.—Dr. A. V. Baliga, F.R.C.S. (Eng.).**SOCIETY OF N. SRA. DA PIEDADE, DABUL**

49, Dukerwadi, Bombay.

A charitable institution.

SOCIETY OF ST. VINCENT DE PAUL, ST. PETER'S CONFERENCE

St. Peter's Church, Hill Road, Bandra.

Nature of Body : Charitable Organisation.

SORABJI MANECKJI SETT CHARITIES

Spinner Building,
8/10, Tamarind Lane, Fort, Bombay.

ST. ANTHONY'S HOME

Bellasis Road, Byculla
Nature of Body : Orphanage and foundling home.

ST. CATHERINE'S HOME

Ambivili, Off Versova Road, Post Andheri.
Nature of Body : Home for destitutes.

ST. FRANCIS D'ASSISI HIGH SCHOOL & ORPHANAGE

Mount Poonsur, P.O. Borivli.
SUPERIOR.—REV. Brother Leonard.
Principal—Rev. Brother Amandus.

ST. JOHN AMBULANCE ASSOCIATION**BOMBAY STATE CENTRE**

President.—The Governor of Bombay.
Chairman.—Commandant-General M. J. B. Maneckji.
Hon. Secretary.—Capt. N. J. Vazifdar, M.B.E., L.M. & S., F.C.P.S., F.C.S. (Lond.).
Secretary.—M. K. Saklatvala, B.A.
Office Address.—141, Mint Road, Bombay 1.

ST. JOHN AMBULANCE BRIGADE (INDIA)

No. 3 District, Bombay.

District Headquarters.—Red Cross and St. John Ambulance Building, Town Hall Compound, Fort, Bombay.

Commissioner.—Commandant-General M. J. B. Maneckji

District Superintendent.—Capt. Khan Bahadur N. J. Vazifdar, M.B.E., L.M. & S., F.C.P.S., F.C.S.; District Superintendent, Nursing Division.—Mrs. Khorshed N. Kalyanivala.

ST. JOHN AMBULANCE BRIGADE (INDIA)**COSMOPOLITAN DIVISION**

Divisional Headquarters.—Sir Byramji School, opposite Charni Road Station, Bombay. President : Lt.-Col. J. D. Kothawala, C.St.J., J.P., A.I.R.O. (Retd.); Divisional Superintendent : S. P. Rane, S.B.St.J., S.T.C., C/o St. John Ambulance, H. Q., Town Hall, Bombay 1.

ST. JOHN AMBULANCE BRIGADE (INDIA)**Parsi Division**

Lady Willington Building,
1, Mahatma Gandhi Road, Fort, Bombay.
Divisional Supdt.—T. P. Panthaky.

ST. JOHN AMBULANCE BRIGADE OVERSEAS**MUSLIM AMBULANCE DIVISION**

152-154, Kambekar Street, Bombay 3. Phone No. 70145.

Divisional Surgeon.—Dr. G. R. Shaikh, B.Sc., M.B.B.S.

Divisional Superintendent.—Khan Saheb M. I. Baig, Mastanah Bahg, Dintimker Road, Bombay 8.

AMBULANCE OFFICER.—Shareef Abdul Hameed, Parkar Chambers, Khandia Street, Bombay 8.

ST. JOHN AMBULANCE BRIGADE OVERSEAS**MUSLIM NURSING DIVISION**

152-154, Kambekar Street, Bombay 3. Phone No. 70145.

Divisional Surgeon.—Dr. H. Y. Khwaja, M.B., L.R.C.P., F.R.C.S. (Eng), D.L.O. (Lond.).

Lady Divisional Superintendent.—Mrs. Khadija Shuff Tyabji, J.P.
Lady Ambulance Officer & Lady Divisional Secretary.—Mrs. Sultana Fazlehusain.

ST. JOSEPH'S HOME AND NURSERY

Reynold's Road, Byculla Bombay 8.

ST. PETER'S SCHOOLS AND HOSTEL

Mazgaon, Bombay 10.

STRI ZARTHOSTI MANDAL

Hughes Road, Bombay 7.

Nature of Body : Work classes.

President.—Lady Ratan Tata; Hon. Gen. Secretary.—Mrs. Dinbal F. S. Patuck; Hon. Treasurer.—Mrs. Shirin S. Talati.

SWASTIK LEAGUE

Seth Varjivandas Motilal Swastik Mandir, Vithalbhai Patel Road, Bombay 4.

Ambulance Service Tel. No. 70232.

President.—Mr. Justice P. B. Gajendragadkar, M.A., LL.B.

Vice-Presidents.—Mr. Justice B. N. Gokhale, M.A., LL.B.; Seth V. M. Saraiya, B.A.; Dr. K. S. Mhaskar, M.A., M.D., D.P.H.; Prof. V. G. Rao, B.A., Bar-at-Law, O.A., J.P.; D. J. Nanavaty, B.A., LL.B. (Advocate); Dr. A. J. Kohliyar, B.A., M.D. (Lond.) and Dr. E. V. Mathe, M.D., M.R.C.P. (Eng).

Chairman.—M. V. Jayakar, B.A., LL.B., Solicitor.

Jt. Honorary Secretaries.—M. W. Pradhan, B.Sc., LL.B.; S. G. Rane, B.A., LL.B., Advocate.

Jt. Honorary Treasurers.—Dr. V. P. Kamat, M.B.B.S.; G. D. Lovalekar.

Jt. Hon. Auditors :—M. C. Chudawala; N. D. Lovalekar, Chartered Accountants.

TAHERI SCHOLARSHIP SOCIETY

Mohamedl Baug, 21, Sarang Street, Bombay 3.

The Society is being run by contributions from His Holiness Syedna Dr. Taher Saifuddin Saheb and members of the Dawoodi Bohra community for awarding scholarships and for promoting the educational interests of the Dawoodi Bohra students. As part of its activities, the Society holds an annual Elocution Competition and Essay Competition among Dawoodi Bohra Students studying in Schools and Colleges.

Hon. Secretaries.—E. A. Dalal, B.A., LL.B. and S. H. Fatchi.

H. H. THE AGAKHAN'S SHIA IMAMI ISMAILIA COUNCIL

Khoja Jamatkhana, Khadak, Bombay 9.
Social reforms institution.

UTTAR BHARTIYA MAZDOOR SANGH

8, Amba Bhuvan, Bhoiwada, Parel, Bombay 12.

VACHA (DR. B. E. AND R. B.) EDUCATION FUND

14-K, Hamam Street, Fort.

VANI VIHAR SANSKRIT MAHA VIDYALAYA

(Chokal Bhavan, Bhimani Street, Matunga.)

Instruction is free. Also weekly Bhagavat Gita discourses.

Founder Principal, M. R. Gopalacharya, M.A.
Honorary Secretaries, H. S. K. Rao; S. P. Rao.

VANITA VISHRAM

Sardar Vallabhbhai Patel Road, Bombay 4.

The institution aims at ameliorating the condition of women in Bombay State and other places and also elevating their social status. It conducts Primary Teachers' Training Colleges, Primary Schools, College Hostels and Ashrams at Bombay and Surat and a High School at Bombay. About 2,100 students take their education in the institutions without distinction of caste, creed or religion. There are also 280 boarders.

Hon. Secretary.—Mrs. Kanta Khandwala, B.A.

VICENTA MARIA SOCIAL SERVICE SOCIETY

This Society, conducted by the Daughters of Mary Immaculate comprises the following :

Fort Branch.—Villa Vicenta, Convent Street, Bombay 1.

1. Home and Orphanage for destitute children and child servants; 2. Recreation and Social Centre for Young Women and Girl domestic servants; 3. Holy Name Dispensary and Health Centre (free Dispensary for the poor—both sexes); 4. Hostel for Young Women.

Byculla Branch.—Regina Pacis, Love Lane, Byculla, Bombay 27.

1. Home for destitute children and child servants; 2. Recreation and Social Centre for young domestic servants (female); 3. Hostel for Young lady students and business women; 4. Regina Pacis Free Dispensary for the Poor.

VICTORIA MEMORIAL SCHOOL FOR THE BLIND

Tardeo Road, Bombay.

Chairman.—H. K. Chaitani, Chief Justice.*Vice-Chairmen.*—Lady Jamshedji Duggan; M. D. Bhat.*Hon. Secretary.*—J. B. Shroff, B.A.; *Asst. Secretary.*—M. B. Rajadhyaksha; *Principal.*—K. N. K. Jussawala, B.A., B.T., V.N.O. Fellow. *Matron.*—Mrs. T. C. Banikhetwala.*Post Office.*—C/o Jayant Trading Co., Sir Vithaldas Chambers, Apollo Street, Fort, Bombay.**VILLA THERESA HOSTEL & SCHOOL**

66, Pedder Road, Cumballa Hill.

CHAMBERS OF COMMERCE IN GREATER BOMBAY**ALL INDIA EXPORTERS' CHAMBER**2nd Floor, Janmabhoomi Chambers, Fort Street, Bombay 1.
(Established 1959). Phone No. 261055.

Number of members: 400.

Activities: Exports of cotton piece-goods and cotton yarn and other commodities to any part of the world.

President.—Naranji L. Kara.*Vice-President.*—Babubhai C. Shroff.*Hon. Secretaries.*—Kantilal K. Sheth; Jayant Mulchand Shah.*Hon. Treasurer.*—Jayantilal R. Shroff.*Office Secretary.*—H. A. Bharucha, B.A.*Jt. Secretary.*—H. R. Jarmarwala, B.A., LL.B.**BOMBAY CHAMBER OF COMMERCE & INDUSTRY**

Mackinnon Mackenzie's Bldg., Ballard Estate, Bombay 1.

All firms or persons engaged or interested in mercantile or industrial pursuits are eligible for election as Ordinary Members or Associate Members in their conventional or corporate name. The Chamber member's annual subscription is Ordinary Rs. 720, Associate Rs. 540. An Ordinary Member on election pays an entrance fee of Rs. 1,000 and an Associate Member Rs. 100.

Officials and others indirectly connected with the trade, commerce or manufactures of India, or who may have rendered distinguished service to the interests represented by the Chamber may be elected by the Committee Honorary Members of the Chamber.

GENERAL COMMITTEE (1959-60).—N. Dandekar (*President*), C. H. Campbell (*Vice-President*), K. C. Bakhle, J. N. Cochran-Barnett, F. E. H. Goddard, S. K. Handoo, R. A. Haryott, Akbar Hydari, I. D. Mudie, S. H. Turner, Neville Wadia, A. D. Wenzel, B. Barker (*Secretary*).**EAST INDIA CHAMBER OF COMMERCE LIMITED**

Patwa Chawl, Shelkh Memon Street, Bombay 2. (Tel. No. 30913).

Number of members: 500. The Chamber at present deals in forward trade in guvar.

President. Shivali Narpatali Maniar; *Vice-President.* Manilal Jamnadas Shah; *Hon. Secretary.* Jayantilal Chunilal Shah; *Jt. Hon. Secretary.* Jayantilal Nanchand Shah; *Treasurers.* Narandas Navalchand Doshi and Jivanlal Amulakh Kuvadia; *Manager.* Ambalal Kalidas Dave.**INDIAN MERCHANTS' CHAMBER**

Lalji Naranji Memorial, Indian Merchants' Chamber Building, 76, Veer Nariman Road, Churchgate, Bombay 1.

The Chamber has a membership of over 2,000. About 122 Commercial and Trade Associations representing various trades such as rice, grain and seeds, iron, match, bullion, indigenous banking, insurance, cotton, etc., in the city and State of Bombay are affiliated to the Chamber.

The Chamber is directly represented on several public bodies.

President.—Lalchand Hirachand.*Vice-President.*—Pratapsinh Mathuradas Vissanji.*Members of the Committee.*—Babubhai M. Chinal, Murarji J. Vaidya, Ratansi Mulji, Bhogilal C. Shah, Pratap Bhogilal, Pratapsinh S. Vallabhdas, Gordhandas Bhagwandas, Babulal Bubna, Sankalchand G. Shah, Dahanbhai V. Patel, Lt. Col. J. D. Kothawala, D. M. Desai, Shantilal M. Shah, Madanmohan R. Rula, Dr. R. C. Cooper, Dhiralal Maganlal, Chandrakant C. Patel, Prof. M. P. Gandhi, Govindlal D. Modi, Brijratan S. Mohatta, Vadilal C. Gandhi, Chandrakant S. Desai, Tanubhai D. Desai, Shantilal P. Zaveri.*Co-opted (5 Individuals).*—Gopalidas P. Kapadia; Naval H. Tata; Sir Chunilal B. Mehta; M. A. Master; Ramnath A. Podar.*Ex-Officio:**Trustees.*—Gordhandas G. Morarji; Chatrabhuj Gordhandas; Bhawanji A. Khimji; Ratilal M. Gandhi; R. G. Saraiya.**WORLI GOPCHAR AND BHOYE SAMSTHAN**

Worli, Bombay 18.

Managing Trustees.—B. H. Mantri, Y. W. Mantri, G. K. Worliker, J. A. Mantri and A. M. Raote.**YOUNG MEN'S FREE NIGHT HIGH SCHOOL**

179, Bazargate Street, Fort; 200, Bora Bazar Street, Fort.

Officer-in-Charge. P. A. Kunder.*Head Master.* S. Venkataraman, B.A., L.T.*Bombay Port Trust.*—B. D. Soman; Devji Rattansey; Ambalal Kilachand; C. H. Bhabha; Ramdas Kilachand (*Indian Central Cotton Committee*); Pravinchandra V. Gandhi (*Western Rly. Zonal Rly. Users' Consultative Committee*); Vallabhdas V. Mariwala (*Central Rly. Zonal Rly. Users' Consultative Committee*).*Secretary.*—C. L. Gheevala.*Sr. Asst. Secretaries.*—M. K. Desai, D. S. Pendurkar.*Jr. Asst. Secretaries.*—P. M. Pathak, V. M. Mehta.*Journal of the Indian Merchants' Chamber.*
(Anglo-Gujarati Monthly): Established in 1907.*Editor:* P. M. Pathak. Published by P. M. Pathak for the Indian Merchants' Chamber, 76, Veer Nariman Road, Churchgate, Fort, Bombay 1. Official organ of the Indian Merchants' Chamber.**INDO-GERMAN CHAMBER OF COMMERCE**

P.O. Box No. 1689,

Vulcan Insurance Bldg., Veer Nariman Road, Bombay 1.

The Chamber promotes and fosters trade and commerce of all description between the Union of India and the Federal Republic of Germany.

President.—F. K. Heller.*Vice-President.*—A. B. Parekh.*Treasurer.*—V. C. Setalvad.*Secretary.*—Dr. K. Pracht.**MAHARASHTRA CHAMBER OF COMMERCE**

12, Rampart Row, Bombay 1.

Membership of the Chamber is open to all carrying on trade, commerce and industry in the Maharashtra area in Bombay State irrespective of caste, creed or community.

The Chamber issues a monthly magazine *Vaidhvas* and distributes it free of cost to its members.

Membership: Chamber has over 600 members spread over throughout the territory it serves.

Number of Joint Stock Companies: over 115.

Number of Commercial Associations: over 20 (having amongst them more than 1,000 members).

*Office-Bearers:**President.*—K. H. Dhamdhare.*Vice-Presidents.*—L. V. Apte, Ramkrishna J. Raja, Bharat G. Doshi.*Secretary.*—B. G. Mohadikar.**MEMON CHAMBER OF COMMERCE**

Patharia Palace, Mohamedali Road, Bombay 3.

President.—Alhaj Ebrahim Motiwala.*Vice-President.*—H. H. Ismail.*Hon. Secretary.*—Monsa Kasam Jetturwala.*Jt. Hon. Secretary.*—Sayed Ahmed Sarfulah.*Office Secretary.*—Ismail Ahmed Motiwala.**WESTERN INDIA CHAMBER OF COMMERCE, LTD.**

232-234, Kalbadevi Road, Bombay 2.

To promote and protect the interests of merchants in Bombay, in wheat and other grains and remove all causes of friction among such merchant interests and between them and their constituents.

President.—Fatchchand Jhunjhunwala.*Vice-President.*—Shrinivas Bagarka.*Secretary.*—Asharam Dube.

CHURCHES IN GREATER BOMBAY

ALL-INDIA FEDERATION OF NATIONAL CHURCHES

St. Paul's Indian National Hindustani Church, Bellasis Road, Byculla, Bombay-8.

It is a Christian Fellowship of National and Independent Churches of various Denominations which function under the management of either of their own congregations or properly elected Local Panchayats, quite independent of any outside control.

The Federation was founded in 1952. There are a number of Bishops, Ministers, Churches and Christian Groups affiliated to the Federation.

His Excellency the Most Reverend Dr. K. C. Pillai, D.D., Archbishop and Metropolitan of India in the Indian (National) Orthodox Church is also the Bishop recognised for all the Apostolic and Episcopal Churches within the Federation.

The Rev. Dr. B. S. Modak, *President* (in U.S.A.).

The Very Rev. Father Dr. J. S. Williams, M.A., D.D., C.T., M.R.S.T. (England), *Secretary-General & Ag. President*.

ST. PAUL'S INDIAN NATIONAL HINDUSTANI CHURCH

Bellasis Road, Byculla, Bombay 8.

It is an autonomous Hindustani Church under a purely indigenous and nationalist leadership, and a cultural and educational centre for Hindi, Urdu and Hindustani-speaking people in the State of Bombay. It is affiliated to the All-India Federation of National Churches, is chartered by the Ecumenical League for Christian unity, is in fellowship with the World Fellowship of Faiths and Registered under Government of India Act, XXI of 1860 and B. P. Charitable Act of 1950.

9-30 A.M. Sunday Divine Service in National Language.

7-15 P.M. Thursday Open-Air Public Meeting.

9-30 A.M. Primary Day School with English medium and compulsory Hindi.

Minister and Chairman: The Very Rev. Father Dr. J. S. Williams, M.A., D.D., C.T., M.R.S.T. (England); *Honorary Secretary*: P. K. Ramball; *Hon. Treasurer & Dy. Minister*: The Rev. A. F. Luther, I.D.A.S.; *Members*: S. V. Sable; Daniel Mahabir; Mrs. S. Hurry; Mrs. A. D. Williams, B.P.S.A.; Qabil (Wardha), C.T. (Bombay); Dr. (Miss) E. Nawalkishore, M.B.E.S., M.B.C.S. (England), L.R.C.P. (London); R. Mohan-Singh, B. Panthagadi, and L. L. Saway. *Special Appointments*: Captain P. Nawalkishore, M.B.E.S., ex-I.M.S., *Chairman, Seamen's Welfare Mission*, Sister (Mrs.) L. V. Sable, B.P.S.A., *Deaconess*, Revd. A. V. Alexander, H.M., *Church Warden*, B. B. Charles, *Evangelist*.

BAPTIST CHURCH

Opp. Colaba Post Office, Colaba.

The church has been on the present site since 1911 when it was moved from Byculla.

MINISTER.—Reverend J. A. Johnson. *TREASURER*.—W. J. Baker. Sunday School at 9-30 a.m. Church Services at 10-30 a.m. and 6-30 p.m.

Hindustani Service 5-15 p.m.

Telugu Service 8-15 a.m. each Sunday.

CHRISTIAN SCIENCE SOCIETY

31, Murrban Road, Bombay 1.

This society is a branch of The Mother Church, The First Church of Christ, Scientist in Boston, U.S.A. and holds services every Sunday at 10-30 a.m. and 6 p.m. Sunday School for pupils and visitors up to the age of 20 years convenes at 10-30 a.m. Testimony Meetings are held every Wednesday at 6-30 p.m. A Reading Room is maintained at the same address, where the Bible, the Christian Science Textbook, "Science and Health with Key to the Scriptures" by Mary Baker Eddy and other authorized Christian Science literature may be read, borrowed or purchased. Reading Room open daily.

CHURCH OF INDIA, PAKISTAN, BURMA AND CEYLON

DIOCESE OF BOMBAY

Bishop of Bombay (St. John's House, Duzbury Lane, Colaba).—The Rt. Revd. William Quinlan Iash, M.A.

Archdeacon of Bombay (21, Waudby Road, Bombay).—The Ven. C. W. Venkataramiah.

Registrar of the Diocese of Bombay (St. John's House, Duzbury Lane, Bombay 5. The Rev. F. D. P. Halliwell.)

ALL SAINTS' CHURCH

Malabar Hill, Bombay 6.

SERVICES.—Sundays, 8 A.M. Holy Communion 10 A.M. Family Service and Sunday School.

CHAPLAIN.—The Rev. R. D. McFarland.

CHRIST CHURCH

Clare Road, Byculla, Bombay.

SUNDAY SERVICES.—7 a.m. Holy Communion (Said), 8-30 a.m. Holy Communion (Sung: with Sermon), 5 p.m. Sunday School, 6-30 p.m. Evensong and Sermon.

WEEKDAY SERVICE.—Holy Communion daily 7-30 a.m.

MATINS.—Daily half an hour before Holy Communion.

CLERGY.—The Rev. C. W. Venkataramiah (*Chaplain*); The Rev. N. Whittam (*Asst. Chaplain*); The Rev. K. F. MacGowan (*Priest*).

CHURCH OF SAINT JOHN THE EVANGELIST

Colaba.

SERVICES: *Sundays*: Morning Prayer 6-30 a.m. Holy Communion, 1st Sunday of every month 7-30 a.m.; other Sundays 7 a.m. and 8-15 a.m. Evening Prayer 6-00 p.m.

Monday to Saturdays: Holy Communion 7-30 a.m. Adults' Bible Class, Wednesdays 6-30 p.m. Children's Fellowship, Saturdays 10 a.m.

CHAPLAIN: The Reverend F. D. P. Halliwell.

CHURCH OF ST. MARY THE VIRGIN

Elphinstone Road, Parel, Bombay.

EMMANUEL CHURCH

C. M. S. House, Proctor Road, Bombay 7.

CLERGY: *Marathi and Gujarati*.—Rev. D. S. Shrisunder, B.A.

Daily Matins:—7-30 a.m. (Marathi).

English Service:—Sundays and Wednesdays 7-30 a.m. Holy Communion.

Marathi Service.—Sundays 10 a.m.

Sunday School:—Sundays 10 a.m. (Wigram Hall).

Gujarati Service.—Sundays 4 p.m.

HOLY REDEEMER CHURCH

Dadar.

There are in the parish over 500 persons. It is a very scattered parish.

CLERGY: The Rev. B. G. Bhonsale.

ST. NICHOLAS' CHURCH

Nicol Road, Ballard Estate, Bombay.

CLERGY.—The Rev. Robert Barlow.

ST. STEPHEN'S

Bandra Hill, Bombay.

ST. THOMAS' CATHEDRAL

Vir Nariman Street, Bombay 1.

Rev. R. D. MacFarland, Senior Chaplain.

TRUSTEES.—The Chaplain, Harvey Goddard; Captain Harvey; B. Gunner; R. E. Peters. *Treasurer*.—E. W. Fairbrass; *Organist and Choir Master*.—Charles Velu, B.Sc., A.R.C.M.

Services are held on Sundays at 7 a.m., 8-45 a.m. (sung), Sunday School 9-45 a.m., Evening 6-30 p.m. The Holy Communion is celebrated on all Sundays at 7 a.m. and 8-45 a.m.

CHURCH OF SCOTLAND

THE SCOTS KIRK, BOMBAY.

Apollo Street, Bombay 1.

Services are at 9-30 a.m. monthly and 6-30 p.m. weekly. Holy Communion on Christmas Eve, Easter Day and the first Sundays of February, May, August and November.

Minister.—Rev. J. C. Becke, M.A.

The Scots Kirk Office at 11, Waudby Road, Bombay 1, is open daily from 9-30 a.m. to 1 p.m.

The Church at Apollo Street is open daily from 12 p.m. to 2 p.m.

METHODIST CHURCH Bombay.

The Methodist Church has been established in the City since 1887, and has the following centre:

Wesley Church, The Causeway (opp. Electric House). This Church is in charge of the Rev. A. W. Saunders, Wesley House, 62, Causeway, Fort, Bombay 1. Services on Sundays at 10 a.m. and 6-30 p.m.

METHODIST CHURCH IN SOUTHERN ASIA

Robinson Memorial, Byculla, Bombay-8.

RESIDENT BISHOP.—Rt. Rev. Mangal Singh, M.A., D.D.

DISTRICT SUPERINTENDENT.—Rev. James B. Satyavrata, Robinson Memorial, Bombay 8.

FINANCIAL AGENT.—Rev. James B. Satyavrata.

CONFERENCE SECRETARY.—Rev. E. Mitchell, Taylor Memorial, Byculla, Bombay.

CONFERENCE TREASURER.—Rev. B. B. Misra, G.Th., Centenary Church, Grant Road, Bombay.

BRANCH TREASURER.—Rev. C. P. Hoins. (IMBO).

ASST. BRANCH TREASURER.—S. B. Towarson, M.A. (IMBO).

YOUTH DIRECTOR.—Rev. Douglas Hine Butler.

CHURCHES:

Rowen Memorial Church: Landsdowne Road, Fort, Bombay 1. Rev. D. Hine Butler.

Taylor Memorial Church: Clare Road, Byculla, Bombay 8. Rev. Stanley Downes, G. Th.

Robinson Memorial Church: 13, Sankli Street, Byculla, Bombay 8. Kanarese Central Church: Rev. Charles Salins; Marathi Church Rev. Joshua David, G.Th.

Centenary Church: Grant Road, Bombay 7; Gujarati Central Church: Rev. A. G. Bhatt, M.A., M.D., M.Th.; Malayalam Central Church: Rev. M. J. Poyyayil, B.A.; Hindustani Central Church: Rev. B. B. Misra, G.Th.

Rahator Memorial Church: Elphinstone Road, Parel, Bombay 12. Marathi Church: Rev. D. D. Chandekar, G.Th., B.D.; Telugu Church: Rev. K. Manikyam; Tamil Church: Rev. J. N. Harris, B.A.; Gujarati Church: Rev. S. Trivedi.

World Union Church: Behind Podar Hospital, Worli, Bombay 16. Kanarese Church: Rev. Ellsha James.

Kurla Methodist Church: New Mill Road, Kurla; Marathi Church: Rev. J. David, G.Th.; Hindustani Church: Rev. B. B. Misra, G.Th.; Telugu Church: D. S. P. Rao.

Circuits:

Kanarese-Telugu: Rev. Ellsha James

The Women's Division of Christian Service connected with the Methodist Church has its headquarters at 22, Club Back Road, Byculla, with a hostel for women and Kindergarten work. This institution is managed by Miss C. Kleiner. A centre in Rebesch Street, Agripada, has a nursery for children and a sewing class for women, managed by Miss Ivy Childs.

The W.S.C.S. of the Kanarese Central Church run a Kindergarten School at 22, Club Back Road, Byculla, which is indigenous.

Other Ministerial Workers: Rev. Darius Mallappa; Rev. V. D. Deolaliker; Rev. A. C. F. King.

ORTHODOX SYRIAN CHURCH

Bombay Parish, 171, Naigaum Road, Dadar, Bombay.

Divine Services conducted on Sundays, Wednesdays and other important days.

The Church runs the Sant Thoma Charitable Dispensary and the Catholic Montessori School.

HEAD OF THE CHURCH.—Mar Baselios Geevarghese II, Catholicos of the East.

Vicar of Parish.—Rev. Fr. V. C. George.

UNITED CHURCH OF NORTHERN INDIA

The Hume Memorial Church: Rev. M. L. Sathe.

St. Paul's Church, Matunga Labour Camp: Rev. M. L. Sathe (Worli Church Residence, off Annie Besant Rd., Worli).

The Ambroli Church: Rev. S. J. Tivade (Dr. Wilson Street, Girgaum).

AMBROLI CHURCH

Dr. Wilson Street, Girgaum, Bombay 4.

The Ambroli Church, formerly supported by the United Free Church of Scotland Mission, was founded by the Rev. John Wilson, D.D. the renowned missionary.

It stands on Vithalbhai Patel Road halfway between C. P. Tank and Prarthana Samaj.

Sunday Service (Marathi) 5 P.M.

MINISTER.—Rev. S. J. Tivade, Ambroli Manse, Bombay 4.

CATHOLIC CHURCHES

BASILICA OF OUR LADY OF THE MOUNT
Bandra Hill, Bombay 20.

RECTOR.—The Rt. Rev. Mgr. V. Dyer.

CHURCH OF OUR LADY OF FATIMA

Ismail Manzil, opp. Sewri Cemetery, Bombay 15.

VICAR.—The Rev. F. de Sales Pimenta.

CHURCH OF OUR LADY OF DOLOURS

Sonapur, Bombay 2.

VICAR.—Rev. A. de Souza.

CHURCH OF OUR LADY OF DOLOURS

Wadala, Bombay 14.

VICAR.—The Rev. Fr. E. Rego, S.D.B.

CHURCH OF OUR LADY OF EGYPT

Kole Kalyan, P.O. Santa Cruz.

VICAR.—The Very Rev. Mgr. M. G. Gonsalves.

CHURCH OF OUR LADY OF FATIMA

Kirol, Ghatkopar, P.O.

VICAR.—The Rev. Fr. Augustine, O.F.M., Cap.

CHURCH OF OUR LADY OF GLORY

Byculla, Bombay 27.

VICAR.—The Very Rev. Mgr. O. de Sa.

CHURCH OF OUR LADY OF GOOD COUNSEL

Sion, Bombay 22.

VICAR.—The Rev. Fr. Owen McLaughlin, O.F.M.

CHURCH OF OUR LADY OF HEALTH

Cavel, Bombay 2.

VICAR.—The Rev. V. Dias.

CHURCH OF OUR LADY OF HEALTH

Sahar, P.O. Vile Parle (Bombay 24).

VICAR.—The Rev. L. C. Torcato.

CHURCH OF OUR LADY OF HEALTH

Versova, via Andheri.

VICAR.—The Rev. Robert Fernandes.

CHURCH OF OUR LADY OF MOUNT CARMEL

Bandra, Bombay 20.

VICAR.—The Rev. J. S. D'Souza.

CHURCH OF OUR LADY OF THE ROSARY

Mazagon, Bombay 10.

VICAR.—The Rev. S. Pereira.

CHURCH OF OUR LADY OF SALVATION

Dadar, Bombay 14.

VICAR.—The Very Rev. Mgr. F. X. Vaz.

CHURCH OF OUR LADY OF THE SEA

Aldeia Mar, via Andheri.

VICAR.—The Rev. Anacleto Remedios.

CHURCH OF OUR LADY OF VICTORIES

Mahim, Bombay 16.

VICAR.—The Rev. Ligouri D'Souza.

HOLY CROSS CHURCH

Kurla (Central Rly.).

VICAR.—The Very Rev. Mgr. Peter Pereira.

HOLY CROSS CHURCH

Lower Parel, Bombay 13.

VICAR.—The Rev. Roque de Souza.

HOLY FAMILY CHURCH

Chakala-Gundowli.

VICAR.—The Rev. Fr. H. Jimenez, S.J.

PRO-CATHEDRAL OF THE HOLY NAME

Wodehouse Road, Fort, Bombay 1.

RECTOR.—The Very Rev. Angelo Fernandes.

SACRED HEART CHURCH

Santa Cruz, Bombay 23.

VICAR.—The Rev. Z. D Souza.

SACRED HEART CHURCH

Worli, Bombay 18.

VICAR.—The Rev. T. Mascarenhas.

ST. ANDREW'S CHURCH

Bandra, Bombay 20.

VICAR.—The Very Rev. Mgr. H. J. Remedios.

ST. ANNE'S CHURCH

Nesbit Road, Mazagon, Bombay 10.

VICAR.—The Rev. F. Ribot, S.J.

ST. ANNE'S CHURCH

Pali Hill, Bandra, Bombay 20.

VICAR.—The Rev. Theophilus Lobo.

OUR LADY OF PERPETUAL SUCCOUR

Chembur.

VICAR.—The Rev. J. Mangad, C.S.B.

ST. ANTHONY'S CHURCH

Mani, P.O. Trombay.

VICAR.—The Rev. B. N. Azevedo.

ST. ANTHONY'S CHURCH

Vakola, P.O. Santa Cruz.

VICAR.—The Rev. Ayres Fernandes.

ST. BLASE'S CHURCH

Amboli, Andheri.

VICAR.—The Very Rev. P. P. D'Mello.

ST. FRANCIS XAVIER'S CHAPEL

Middle Colaba, Bombay 5.

ST. FRANCIS XAVIER'S CHURCH

Dabul, Bombay 2.

VICAR.—The Very Rev. Mgr. B. A. Pinto.

ST. FRANCIS XAVIER'S CHURCH

Vile Parle, Bombay 24.

VICAR.—The Rev. Frank E. Lobo.

ST. IGNATIUS' CHURCHKazi Syed Street, Near Carnac Bridge, Mandvi,
Bombay 3.

VICAR.—The Rev. Fr. Michael, O.F.M., Cap.

ST. IGNATIUS' CHURCH

Jacob Circle, Bombay 11.

VICAR.—The Very Rev. Mgr. H. B. Marques.

ST. JOHN THE EVANGELIST'S CHURCH

4, Green Street, Fort, Bombay 1.

VICAR.—The Rev. F. A. Mascarenhas.

ST. JOHN THE EVANGELIST'S CHURCH

Marol, via Andheri.

VICAR.—The Rev. J. B. D'Silva.

ST. JOSEPH'S CHURCH

Colaba, Bombay 5.

VICAR.—The Rev. Ignatius D'Souza.

ST. JOSEPH'S CHURCH

Juhu, P.O. Santa Cruz.

VICAR.—The Rev. B. D'Cunha.

ST. JOSEPH'S CHURCH

Umerkhadi, Bombay 9.

VICAR.—The Very Rev. Mgr. J. M. de Souza.

ST. MICHAEL'S CHURCH

Mahim, Bombay 16.

VICAR.—The Very Rev. Mgr. George Fernandes.

ST. PAUL'S CHURCH

Upper Parel, Bombay 12.

VICAR.—The Rev. Fr. H. Pereira, S.J.

ST. PETER'S CHURCH

Bandra, Bombay 20.

VICAR.—The Rev. Fr. S. Marquis, S.J.

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HON. SECRETARY.—V. V. Oak; *HON. TREASURER*.—V. D. Bhagat.**THE BOMBAY ASTROLOGICAL SOCIETY**

C/o Janmabhoomi Panchang Karyalaya, 22/26, Ghoga Street, P. Box No. 62, Fort, Bombay.

(Kstd. 18-12-1892)

The main object of the Society is to spread a systematic knowledge of Palmistry, Astronomy and Astrology and to provide for their research. Regular classes are conducted at the Bharatiya Vidya Bhavan every Sunday.

President.—J. H. Dave, M.A., LL.B., Advocate (O.S. and S.C.); *Vice-President*.—J. S. Chinwala, B.A., LL.B., Advocate (O.S.); *Treasurer*.—Charandas Megji; *Hon. Secretary*.—Amritlal L. Shah; *Jt. Hon. Secy*.—C. A. S. Aiyar, B.Sc.

BOMBAY CHARTERED ACCOUNTANTS SOCIETY

60, Forbes Street, Fort, Bombay 1.

President.—N. M. Shah; *Treasurer*.—M. L. Bhatt; *Secretaries*.—B. B. Sheth, C. N. Sanghavi.

BOMBAY CIVIL LIBERTIES UNION

Servants of India Society, Sardar V. Patel Road, Bombay 4.

Secretary: K. L. N. Rao.

BOMBAY CONTRACT BRIDGE ASSOCIATION
Brabourne Stadium (North Stand), Veer Nariman Road, Bombay 1.

**THE BOMBAY CO-OPERATIVE HOUSING
FEDERATION LTD.**

Bell Building, Sir P. M. Road, Fort, Bombay 1.

Objects: To advise, guide, assist and inspect Co-operative Housing Societies and arrange for efficient and regular supervision in their interest. To carry on co-operative propaganda and organise new societies.

Chairman.—L. S. Dabholkar; *Honorary Secretaries.*—A. H. Kulkarni, Pravinchandra Arjunlal.

BOMBAY GEOGRAPHICAL ASSOCIATION
C/o Ruparel College, Mahim, Bombay 16.

Patron.—Hittendra Desai.

President.—C. B. Joshi; *Vice-Presidents.*—A. S. Kalapest, B. M. Kapadia, V. R. Nerurkar, S. L. Taskar, S. P. Kharras, C. V. Ganesan, B. P. Sawe, S. S. Aiyar.

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BOMBAY GUJARATI CHRISTIAN ASSOCIATION

Gopal Bhuvan, Bapubhai Vashi Road, Vile Parle (West), Bombay 24.

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BOMBAY HALAI BHATIA MAHAJAN

398, Kalbadevi Road, Bombay 2.

Managing Trustees.—Ratanal Champal and Pragji Mathuradas.

THE BOMBAY HEADMASTERS' ASSOCIATION

Mandvi High School, Dongri Street, Bombay 9.

President.—Sardar Lakhamansingh; *Vice-President.*—Rev. Fr. F. Britto, S. J.; *Hon. Secretary.*—R. R. Melmane; *Hon. Treasurer.*—L. M. Datar.

BOMBAY HEALTH SCHOOL

C/o The Bombay Mothers & Children Welfare Society, B.D.D. Chawl No. 10, DeLisle Road, Post Jacob Circle, Bombay No. 11.

Chairman.—Lady Cowasji Jhangir; *Honorary Secretary.*—Dr. K. N. Mhaikar, M.A., M.D., etc.; *Honorary Treasurer.*—K. S. Sethna, J.P.; *Director.*—Dr. Mrs. B. M. Dubash.

BOMBAY HISTORICAL RESEARCH ASSOCIATION

Secretariat Record Office, Elphinstone College Bldg., Bombay 1.

Chairman.—Dr P. M. Joshi; *Hon. Secretaries.*—Dr. V. D. Rao, Dr. V. G. Hatulkar.

BOMBAY HOMOEOPATHIC ASSOCIATION

311, Tardeo Road, Bombay 7.

Governing Council.—N. C. Vakil, B.A., LL.B., Bar-at-Law (*Chairman*); Dr. S. R. Phatak, M.B.B.S. (*Vice-Chairman*); C. O. Vakil, B.A., LL.B., Solicitor and B. V. Pakvasa, B.A., LL.B., Solicitor (*Jt. Hon. Treasurers*); Dr. K. L. Ray and N. N. Majmudar, Adv. (*Jt. Hon. Secretaries*); Dr. K. Surendranath; N. T. Nanavati, B.A., LL.B., Adv.; V. S. Kir and G. L. Koppikar (*Members*).

BOMBAY INCORPORATED LAW SOCIETY

113, Mahatma Gandhi Road, Bombay 1.

President.—N. H. Sethna; *Hon. Secy.*—M. B. Madgavkar.

BOMBAY KANNADA SANGHA

(Estd. 1936—Regd.)

2, Venkatesh Nivas, Bhau Daji Road, Matunga, Bombay 19.

President.—Nyayavedanta Vidwan M. R. Gopalacharya, M.A.; *Working President.*—J. N. Iyer; *Hon. Treasurer.*—M. K. Srinivasan; *Hon. Secretaries.*—R. V. Satyanarayana, L. S. Hanuman, *Hon. Librarians.*—Vithal Bhandari, N. B. N. Prasanna.

BOMBAY KERALEEYA SAMAJ

Plot 16A, "Kerala Bhavanam", Brahmanwada Road, Matunga, Bombay 19.

President.—C. A. Menon; *Chairman.*—V. Rajagopal; *General Secretary.*—P. K. Padmanabhan; *Joint Secretary.*—K. K. Pillai; *Editor.*—"Visalakeralam"—Edayali Gopalakrishnan.

BOMBAY LABOUR BUREAU

(Regd. under Societies Registration Act, 1860)

Nagpada Neighbourhood House, Byculla, Bombay 8.

The aims are:—To arrange voluntary bodies for creating harmonious industrial relations between management and labour and settling their industrial disputes by bi-partite conferences; to organise and conduct short-term refresher courses in labour management and allied subjects for the benefit of executives, to disseminate information on labour management and allied subjects through its quarterly Journal—the *Management Executive*, and *Indian Labour Review*; to undertake study tours and carrying out research surveys in labour and industrial relations, to promote and protect the interests of employers and employees' organisations in industrial relations matters and rendering free legal and professional advice to its members and representing them in any court of law.

Founder.—S. K. Patil; *Patron.*—S. L. Nilam; *Chairman.*—D. D. Gupta; *Vice-Chairman.*—Charles Singh; *Director.*—K. S. Gupta.

BOMBAY MANAGEMENT ASSOCIATION

Army and Navy Bldg., 3rd Floor, Mahatma Gandhi Road, Bombay 1.

Tel. No. 251383.

The aim of the Association is to promote mutual exchange of knowledge, experience and ideas on the principles and practices of Management among its members; to co-operate with educational institutions in developing schemes of instruction in Management principles and practice; to establish a Management Library in the Bombay area.

President.—N. Dandekar.

Vice-President.—Dr. K. S. Basu.

Hon. Secretary.—R. B. Vicaji.

BOMBAY MEDICAL COUNCIL

Swadeshi Mills Estate, Tata Road, New Queen's Road.

President.—Dr. Chunibhai S. Patel, M.B.B.S., L.R.C.P., F.R.C.S.

Registrar.—Balkrishna Moreahwar Sidhaye, B.A., LL.B., B.T.

BOMBAY MEDICAL UNION

Blavatsky Lodge, French Bridge, Chowpatty, Bombay 7.

President.—Dr. H. G. Patel; *Vice-Presidents.*—Dr. M. D. Amonkar, Dr. B. A. Vaidya; *Jt. Hon. Secretaries.*—Dr. N. V. Vijaykar, Dr. B. K. Vibhakar; *Hon. Treasurer.*—Lt.-Col. N. S. Variava; *Jt. Hon. Librarians.*—Dr. N. J. Dodhi, Dr. R. S. Chogle.

BOMBAY NATURAL HISTORY SOCIETY

91, Walkeshwar Road, Bombay 6.

President.—Governor of Bombay.

Hon. Secretary.—Humayun Abdulali.

BOMBAY NURSING COUNCIL

Zoroastrian Bldg., 2nd Floor, 16, Horniman Circle, Bombay 1.

President.—The Surgeon-General, Government of Bombay.

Registrar.—P. N. Masumdar, M.A. (Lond.), LL.B.

The Council consists of 21 members of whom the Surgeon-General with the Government of Bombay (ex-officio) is the President.

BOMBAY PARSİ ASSOCIATION

Botawalla Building, 7-10, Horniman Circle, Fort, Bombay 1.

Objects.—To promote unity and brotherhood amongst the Parsi Zoroastrians of Bombay.

Patrons.—Vicejess Ardesahir Taraporvala, F.R.N.B.A.; Vicaji F. Taraporvala, Bar-at-Law; Mrs. Khorshedbanu K. J. Dubash.

President.—Vicejess Ardesahir Taraporvala, F.R.N.B.A.; *Vice-Presidents.*—Major S. R. Banji, M.B.E.; B. M. Daruwala; P. N. Gandhi, Solicitor; *Hon. Joint Treasurers.*—B. M. Mubedjina; F. P. Kapadia, G.D.A., F.C.A.; *Hon. Gen. Secretary.*—T. B. Chinoy.

BOMBAY PHILOSOPHICAL SOCIETY

C/o Wilson College, Bombay 7.

BOMBAY PHYSICAL CULTURE ASSOCIATION

22, Nikadwari Lane, Girgaum, Bombay 4.

President.—Dr. K. S. Mhaskar; *Chairman*.—G. V. Puranik; *Hon. General Secretary*.—S. S. Prabhu.**BOMBAY PORT HAJ COMMITTEE**

(Constituted under the Act of the Central Legislature—XX of 1932)

Seth Mahomed Haji Saboo Siddick Musafirkhana, Carnac Road, Bombay 1.

Chairman. Capt. M. A. Golandaz, M.L.A.*Vice-Chairmen*.—M. A. Latif, M.L.A. and Hakim Fasihulla Khan Anzami.*Executive Officer*.—A. A. Wasifdar.**BOMBAY PRADESH CONGRESS COMMITTEE**

Congress House, V. P. Road, Bombay 4.

President.—Thakorebhai M. Desai.*Gen. Secretary*.—A. K. Hafizka**BOMBAY PRESIDENCY ADULT EDUCATION ASSOCIATION**

136, Apollo Street, Bombay 1.

President.—The Rev. Fr. J. Dühr; *Vice-Presidents*: Prof. M. F. Colaro; Prof. V. G. Rao; *Hon. Treasurer*: Commander C. B. Sethna; *Jt. Hon. Secretaries*: Miss Amy B. H. J. Rustomjee; N. D. Godbole; *Principal* C. A. Christie.**THE BOMBAY PRESIDENCY AMATEUR BOXING ASSOCIATION**

31, Murzban Road, Bombay 1.

President: A. A. Jasdenvala; *Vice-Presidents*: C. B. Sethna, O.B.E., R.I.N. (Retd.); W. R. Eldridge; *Jt. Hon. Secretaries*: W. Abraham; F. W. Hanson; *Hon. Treasurer*: W. Abraham.**BOMBAY PRESIDENCY ANGLING ASSOCIATION**

C/o Halolse Marine Insurance Co. Ltd., French Bank Bldg., Hornji St., Bombay 1.

President: A. R. M. Yusuf; *Hon. Secy.*: A. N. Bolar; *Hon. Field Sery.*: M. A. Latif; *Hon. Treasurer*: E. J. Poncha.**BOMBAY PRESIDENCY ASSOCIATION, 1885**

107, Mahatma Gandhi Road, Bombay 1.

The Association advocates and promotes the public interest of this country by all legitimate and constitutional methods, such as holding meetings, etc.

President.—Sir Cowasji Jehangir, Bart.; *Hon. Secretaries*.—Naushir Bharucha and L. X. Rego; *Asst. Secretary*.—V. B. Bhende.**BOMBAY PRESIDENCY SOCIAL REFORM ASSOCIATION**

Servants of India Society's Home, Sardar V. Patel Rd., Bombay 4.

OBJECTS:—(1) Securing full development of all men and women irrespective of sex, caste or creed; (2) Promoting changes in the social system based upon justice and strengthening the fabric of Society; (3) Raising the status of women by education and encouraging monogamy, divorce and widow marriage and improving their rights under the law; (4) Abolishing untouchability; (5) Enforcing total prohibition; (6) Improving the social condition of labour; (7) Removing the evils of the caste-system.*President*: Mr. Justice B. N. Gokhale; *Vice-President*: B. N. Motivala, B.A., LL.B.; *Hon. Secretary*: T. A. Kulkarni.**BOMBAY PROVINCIAL HOCKEY ASSOCIATION LTD.**

B. P. H. A. Stadium, 'D' Road, Churchgate, Bombay 1.

President.—N. H. Tata.*Hon. Secretary*.—J. Gonsalves; *Hon. Treasurer*.—A. Gourdon.**BOMBAY PSYCHOLOGICAL ASSOCIATION**

(Estd. in 1946. Registered under the Societies Registration Act of 1860)

Department of Psychology, Tata Institute of Social Sciences, Chembur, Bombay 38.

To pursue and promote the study of psychology as a science through various means described in the Memorandum of the Association.

President.—Dr. Pandharinath Prabhu.*Vice-Presidents*.—R. J. Chitwalla, Prof. A. K. Jlandani.*Secretaries*.—V. N. Jagdale, Dr. N. N. Shukla.*Treasurer*.—V. N. Jagdale.**BOMBAY REGIONAL CONGRESS COMMITTEE**

Congress House, V. P. Road, Bombay 4. (Phone: 73111.)

President.—K. K. Shah.*Vice-President*.—N. P. Samant.*Gen. Secretaries*.—B. M. Yagnik, R. S. Pandey, P. G. Kher.*Treasurer*.—Bhawanji A. Khimji.**BOMBAY SANITARY ASSOCIATION**

Princess Street, Kalbadevi, Bombay 2.

OBJECTS.—(a) To create an educated public opinion with regard to sanitary matters in general; (b) to diffuse knowledge of sanitation and hygiene generally.*Hon. Secretary & Treasurer*.—Dr. G. N. Kowalik, M.B.E.S., B.M., D.P.H.; *Jt. Hon. Secretary*: Dr. D. V. Parulkar, M.B.E.S., D.P.H., & M.P.H.**BOMBAY SCHEDULED CASTES IMPROVEMENT TRUST**

Buddha Bhushan Printing Press Building, Gokuldas Pasta Road, Dadar, Bombay 14.

President.—D. G. Jadhav, B.A., LL.B.; *Managing Trustees and Secretary*.—S. A. Upashani.**BOMBAY SOCIAL HYGIENE COUNCIL**

10, Waterloo Mansions, Apollo Bunder, Bombay 1.

AIMS AND OBJECTS.—To undertake the enlightenment of all sections of the public in the problems of social hygiene and to take necessary steps to eradicate venereal diseases in Bombay.*Patron*.—The Governor of Bombay.*President*.—M. S. Kannanwar.*Jt. Hon. Secretaries*.—Dr. Socrates Noronha, M.B.E., K.H., B.M., D.T.M. & H. (Eng.), D.T.M. (Lond.), L.M. & S., F.C.P.S.; R. B. Fondecar, M.B.E.S., B.M.; *Hon. Treasurer*.—Dr. J. A. Fernandez, M.B.C.F. (Edin.), M.B.C.S., L.R.C.P. (Lond.).**BOMBAY SOCIETY OF MODEL ENGINEERS**

Noble Chambers, Rooms 23 and 24, Parsi Bazar Street, Bombay 1.

Chairman.—H. K. Colah; *Vice-Chairman*.—N. J. Havaldar; *Hon. Treasurer*.—N. F. Dubash; *Hon. Secretaries*.—B. A. Engineer, M. J. Cooper.**THE BOMBAY STATE AMATEUR ATHLETIC ASSOCIATION**

C/o Secretariat of Sporting Association, Brabourne Stadium, North Stand, Bombay 1.

President.—Khan Bahadur S. H. Mehta; *Vice-Presidents*.—J. J. Jamieson, Walter Abraham; *Hon. Treasurer*.—N. J. Havaldar; *Hon. Secretaries*.—Harbans Singh, D. B. Puthran.**BOMBAY STATE AMATEUR BOXING ASSOCIATION**

31, Murzban Road, Bombay 1.

President: A. A. Jasdenvala; *Vice-President*: W. R. Eldridge; *Jt. Hon. Secy.*: F. W. Hanson; *Jt. Hon. Secy. & Treasurer*: W. Abraham.**BOMBAY STATE AQUATIC ASSOCIATION**

C/o Victoria Swimming Bath, Back Bay, Bombay 1.

President.—Com. C. B. Sethna (Retd. I.N.); *Vice-President*.—W. Abraham; *Hon. Treasurer*.—S. M. Mistry; *Hon. Secretary*.—K. F. Golwalla.

BOMBAY STATE ASSOCIATION OF PHYSICAL EDUCATION AND RECREATION

No. 10, B.D.D. Chawl, DeLisle Road, Post Jacob Circle, Bombay 11.
OFFICE-BEARERS: President.—Lt.-Col. K. T. Mangalmurti, (Retd. I.C.S.); **Vice-President.**—Raojibhai Patel; **Hon. Gen. Secretary.**—Vasant P. Borkar; **Hon. Treasurer.**—Dr. M. N. Natu.

BOMBAY STATE BADMINTON ASSOCIATION

C/o Secretariat of Bombay Sporting Assn., Brabourne Stadium (North Stand), Bombay 1.

President.—S. R. Rula; **Vice-President.**—Bhogilal C. Shah; **Hon. Secretary.**—Lallunohan Agaaskar.

BOMBAY STATE BASKETBALL ASSOCIATION

4/24, Brahmanwada Road, Bombay 19.

President.—S. K. Patil; **Vice-President.**—F. E. Patanwala; **Hon. Secy.**—R. Valkuntam.

BOMBAY STATE BHARAT SCOUTS & GUIDES

Hamam House, Hamam Street, Bombay 1.

President: Mangaldas Pakvasa; **State Chief Commissioner:** Lt.-Col. K. T. Mangalmurti; **State Commissioner (Scouts):** Sardar Lakshman Singh; **State Commissioner (Guides):** Smt. Nirmala Raje Bhoale; **Honorary State Treasurer:** V. L. Arya; **Honorary State Secretary:** Padam S. Pavri.

BOMBAY STATE BILLIARDS ASSOCIATION

C/o Islam Gymkhana, Kennedy Sea Face, Bombay 2.

CHIEF OFFICE-BEARERS:—President: A. A. Jasdewala; **Vice-President:** R. K. Viswanji; **Jt. Hon. Secretaries:** Rafeek Dina and R. K. Adenwala; **Hon. Treasurer:** Bhogilal C. Shah.

BOMBAY STATE CARROM ASSOCIATION

Nagpada Neighbourhood House, New Nagpada Road, Bombay 8.

President: S. H. Advikarekar; **Vice-President:** Mukhtar Ahmed; **Secretary:** J. K. Bharucha

BOMBAY STATE CHESS ASSOCIATION

C/o Parisian Restaurant, Bruce Street, Bombay 1.

President.—M. G. Monani, I.C.S.

Chairman:—Rev. Fr. J. M. Corbella, S.J.

Jt. Hon. Secretaries:—D. P. Ratnagar, M. W. Nelson.

Hon. Treasurer:—R. B. Parelwala.

BOMBAY STATE COUNCIL FOR SPORTS

C/o Principal, Institute of Physical Education, Kandivli, Bombay 47.

BOMBAY STATE DENTAL COUNCIL

Swadeshi Mills Estate, Near Roxy Cinema, Tata Road, New Queen's Road, Bombay 4.

The Council is a statutory body constituted under the Dentists Act, 1948.

The Council maintains the Dentists Register for the State and administers the Code of Dental Ethics.

President.—Dr. H. P. Moolgavkar, L.D.S.R.C.S. (Eng.), F.D.S.R.C.S. (Eng.); **Vice-President.**—Dr. H. D. Merchant, D.M.D. (U. Bonn.); **Registrar.**—B. M. Sridhaya, B.A., LL.B., B.T.

BOMBAY STATE LAWN TENNIS ASSOCIATION

Cooperage, Queen's Road, Bombay 1.

President: D. M. Khatau; **Hon. Secy.**—J. M. Mehta; **Hon. Treasurer:** H. N. Contractor.

BOMBAY STATE PHARMACY COUNCIL

Soorya Mahal, 5, Military Square Lane Corner, Meadows St., Bombay 1.

President: B. V. Patel, B.Sc., B.Pharm. (Lond.), Ph.C.; **Vice-President:** M. L. Khorana, B.Sc., B.S. (Pharm.), M.S. (Mich.).

BOMBAY STATE RIFLE ASSOCIATION

C/o Indian Hume Pipe Co. Ltd., Construction House, B. Estate, Bombay 1.

President: Dinkarrao Desai; **Vice-Presidents:** M. J. B. Manekjee, Gulabchandra Hirachand; **Hon. Gen. Secretary:** K. G. Prabhu.

BOMBAY STATE SHORTHAND WRITERS' ASSOCIATION

(Registered under Act XXI of 1880—Retd. 1932).

(Recognized by Government of Bombay).

No. 1, Krishna Nivas, Station Road, Matunga, Bombay 19.

President:—K. V. Anantharaman; **Vice-President:**—K. Chidambaram; **Hon. Secretary:**—P. V. Ramanathan; **Hon. Treasurer:**—A. S. Venkataraman.

BOMBAY STATE VOLLEYBALL ASSOCIATION

C/o Morarji Mills Ltd., Parel, Bombay 12.

President: P. M. Rungta; **Vice-President:** C. Thomas; **Hon. Secretary:** Magan Singh.

BOMBAY STATE WEIGHTLIFTING ASSOCIATION

16/276, Tata Society Bldg., Nion, Bombay 22.

President: David Abraham; **Jt. Secretaries:** M. K. V. Waran and K. Balan.

BOMBAY STATE WOMEN'S COUNCIL

Town Hall, Bombay 1.

Activities.—A depot for the sale of women's handicrafts at Green's Hotel. Rescue Home at Umerkhad. Bal Mandira at Matunga Labour Camp. Literacy and handicraft classes. Children's Holiday Library. Recreation centres for children at Municipal parks. Agitation on Beggar Problem. Child Guidance Clinic and a class for mentally retarded children at Ravelin Street, Fort. Haj—Helps pilgrims during embarkation and disembarkation. Parliamentary—Submits opinion on legislative bills and free legal advice.

Membership.—(a) 1,260 members. **Affiliated Societies:** 36. **Branches:** 2—Ahmedabad, Poona.

President: Mrs. Gidistan R. Billimoria, M.A., L.T.C.L.; **Vice-President:** Mrs. Sushila D. Joshi, B.A.; **Hon. Treasurer:** Mrs. Padmavati R. Saralya; **Executive Secretary:** Mrs. Hilla M. Dadina, M.A.

BOMBAY STATE WOMEN'S HOCKEY ASSOCIATION

'Jiji House', Ravelin St., Bombay 1.

President: Miss F. Talyarkhan; **Vice-President:** Mrs. R. N. Kanga; **Hon. Secy. & Treasurer:** Miss D. S. Bastavala.

BOMBAY STEVEDORES' ASSOCIATION LTD.

Janmahbhooni Chambers, Opp. Alexandra Dock, Fort Street, Bombay 1.

President: K. A. Dubash; **Vice-President:** D. A. Dhunjibhooy.

BOMBAY SUBURBAN VILLAGE INDUSTRIES ASSOCIATION

396, Kalbadevi Road, Bombay 2.

Chairman:—Markandral Mehta; **Hon. Secretaries:**—P. S. Kapadia; Indulal H. Shah.

BOMBAY TABLE TENNIS ASSOCIATION

C/o Secretariat of Bombay Sporting Assn., Brabourne Stadium (North Stand), Churchgate, Bombay.

President: A. Rajagopalan; **Jt. Hon. Secy.**—I. Swami.

BOMBAY TAMIL SANGAM

Sion Road, Bombay 22.

President: V. R. Subramaniam; **Vice-Presidents:** N. Annaswamy of Teloo and Amir Sultan Maralkayar; **Hon. Secys.**—G. Ramchandran, R. S. L. Narasimhan; **Hon. Treasurer:** K. B. Sankaranarayanan.

BOMBAY TENANTS' ASSOCIATION

17, Benham Hall Lane, Bombay 4.

OFFICE BEARERS:—President.—V. G. Dalyi, Bar-at-Law. **Vice-Presidents.**—Shalome Abraham and Major Sohrab E. Bainji. **Joint Hon. Secretaries.**—N. S. Giradkar, M.A., LL.B. and Mrs. Shera N. Vajidkar, M.Com. **Hon. Treasurer.**—K. B. Patel, L.S.G.O.

There are branch offices and secretaries in each ward and 50 members of the Managing Committee.

BOMBAY TEXTILE RESEARCH ASSOCIATION
 'Jyoti', Shon-Matunga Estate, 287, Shon Road (East), Bombay 22.
Ag. Chairman :—Krishnaraj M. D. Thackeray; *Jt. Director* :—
 Dr. C. Nanjundayya; *Acting Secretary* :—M. G. Kulkarni.

BOMBAY UNION OF JOURNALISTS
 Prospect Chambers Annexe, 2nd Floor, Hornby Road, Bombay 1.
Chairman :—A. P. Hudlikar; *Secretary* :—M. R. Kulkarni;
Treasurer :—R. V. Upadhyaya. Tel. 253486.

BOMBAY VIGILANCE ASSOCIATION
 Churchgate House, 30-32, Vir Nariman Street, Bombay 1.
 The objects of the Association are (1) to secure recognition of the principle that the moral law is the same for both men and women; (2) to suppress and prevent the traffic in women and girls and the outrage, corruption, abduction and prostitution of persons under eighteen; (3) to do rescue and vigilance work in general; (4) to see that the provisions of the Indian Penal Code and of the Prevention of Prostitution Act of 1923, are efficiently carried out; (5) to prevent the publication and sale of indecent and obscene pictures, books and papers, and of objectionable advertisements, cinema films and theatrical performances; and (6) to carry on active propaganda work for the ultimate and complete abolition of brothels.
Shelter :—125, Dadar Main Road, Dadar.

BOMBAY WOMEN'S RELIEF COMMITTEE
 1-A, Mafatlal Park, Bhulabhai Desai Road, Bombay 26.
Chairman :—Smt. Taraben M. Premchand; *Hon. Secretary* :—Smt. Kulsam Sayani; *Hon. Treasurer* :—Smt. Lilavati Banker.

BOMBAY WOMEN'S WORK GUILD
 Readymoney House, Nepean Sea Road, Bombay 6.
Vice-President :—Lady Cowanji Jehangir; *Jt. Secretaries* :—Miss S. Dallas, Miss Army F. Khan.

BOMBAY ZIONIST ASSOCIATION (Central Organisation in India)

63-67, Meadows Street, Fort, Bombay, P O Box 539.

The aims and objects of the Association are to educate public opinion regarding Zionist activities throughout the world; to foster Zionist ideals among Jews in India and to promote the interests of the Jewish National Home in Israel.

EXECUTIVE COMMITTEE :—H. Cynowicz, *President*, Shellim Samuel, M.A., LL.B., Advocate, *Vice-President and Editor of B.Z.A.'s Organ "The Indo-Israeli Review"*; J. S. Kara, *Chairman*; Dr. J. M. Gheesta, *Hon. General Secretary*; B. R. D. Kelly, *Hon. Treasurer*.

BRAHMAN SAHAYYAK SANGH

Ganesh Wadi, D. L. Vaidya Road, Dadar, Bombay No. 28, and Plot No. 113-115, Shivaji Park Road No. 3, Bombay 28.
President :—Solicitor K. B. Joshi, M.A., LL.B.; *Secretary* :—R. K. Joshi; *Treasurer* :—D. S. Joshi, B.A., LL.B.

CALEDONIAN SOCIETY OF BOMBAY

The object of the Society is to promote and foster matters of Scottish national interest and more particularly to provide for the due observance of the anniversary of St. Andrew and generally to promote fellowship among Scots. The Society may so far as its funds admit and so far as is deemed advisable by its Committee, render aid in cases of real and urgent distress among Scots and make donations to Scottish charities, institutions and objects.

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CENTRAL RAILWAY INSTITUTE Byculla, Bombay.

This Institute caters for tennis, billiards, monthly socials, dances, and table tennis.

CERCLE LITTERAIRE BIBLIOTHEQUE DINSHAW PETIT—1886

60, Forbes Street, Bombay 1.

Object :—To promote the study of French language, literature and civilization.

Patrons :—Sir Dinshaw Maneckjee Petit, 3rd Bart.; *President* :—Rev. Fr. J. Duhr, S.J.; *Hon. Treasurer* :—D. P. Katrak; *Hon. Secretary* :—P. J. Bahadurji.

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CITIZEN'S NATURE CURE SOCIETY
 C/o Dr. J. M. Jussawalla, 140, Cumballa Hill, Bombay 26.
President :—D. C. Desai; *Secretary* :—Miss Irwin Jennet; *Convenor* :—Miss Desai.

COLLEGE OF PHYSICIANS AND SURGEONS OF BOMBAY Hospital Avenue, Parel, Bombay.

The College is at present an examining body only but, by encouraging the formation of good teaching schools and by means of its professional museums and library, it is eventually intended to become the centre of medical education in the State. The College consists of a President, a Council and an unlimited number of Fellows and Members and grants M.C.P.S., F.C.P.S., and post-graduate Diplomas in several subjects.

PRESIDENT :—Shantilal Chhaganlal Sheth, M.D., B.S. (Bom.), M.R.C.P. (Lond.), D.O.B. (Eng.), F.C.P.S.

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COMMUNIST PARTY OF INDIA

Bombay Committee :—Dalvi Bldg., Parel, Bombay 12.

(Phone : 61008)

Secretary :—P. P. Sanzgiri.

DAVID SASSOON LIBRARY AND READING ROOM

152, Mahatma Gandhi Road, Bombay 1.

Life membership Rs. 300 and Ordinary membership : Entrance fee Rs. 10; Deposit Rs. 20; Quarterly Rs. 8

President :—Oscar H. Brown, C.I.E., O.B.E., Bar-at-Law.

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DEMOGRAPHIC TRAINING & RESEARCH CENTRE

Tata Institute of Social Sciences, Chembur, Bombay 38.

The Government of India, in association with Sir Dorabji Tata Trust and the United Nations, have established a Demographic Training and Research Centre at Bombay. It is intended to serve not only India but also other Asian countries.

Indian and foreign students are undergoing training at the Centre, which is also developing research programmes in the field of population. It is now located at the Tata Institute of Social Sciences, Chembur.

The Demographic Centre is an autonomous institution with a Governing Body for its management.

Chairman :—Dr. John Matthai; *Co-ordinating Officer* :—Dr. K. C. K. E. Raja.

DEPRESSED CLASSES MISSION SOCIETY OF INDIA

112, Meadows Street, Fort, Bombay.

Literary and Social.

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Rasool Building, Clarke Road, P.O. Jacob Circle, Bombay 11.

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DEVADIGA SUDHARAKA SANGHA

108, Bora Bazar Street, Bombay 1.

President.—P. B. Moly, M.A.; *Jt. Hon. Secretaries.*—K. Bhujangadhar, K. S. Gopal.**DIABETIC ASSOCIATION OF INDIA**

Maneckji Wadia Bldg., 1st Floor, Mahatma Gandhi Road, Bombay 1.

Objects: To study diabetes and allied subjects and also spread knowledge about diabetes and help diabetics in India in general. Conducts survey of diabetes by celebrating a diabetic detection drive every year and also arranges lectures and symposia on diabetes.*President.*—Dr. B. V. Sathe, M.D., M.R.C.P. (Lond.).*Vice-President.*—Pranjevan Madhavji, Solicitor.*Chairman.*—Dr. J. N. Karande, M.D., F.C.P.S.*Hon. Jt. Secretaries.*—Dr. S. S. Ajgaonkar, D.O.D.L.O. (Vienna), L.M. (Dublin); Dr. T. P. Vyas, M.B.B.S.*Treasurer.*—Y. S. Prabhu.**EAST BOMBAY BHARAT SCOUTS & GUIDES
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C/o Dr. M. U. Mascarenhas, Victoria Garden Road, Bombay 27.

ENGINEERING ASSOCIATION OF INDIA

Bombay Region.

The All-India body has its office at Calcutta, India Exchange, 8th Floor, Calcutta, 1, while the Regional body has its office in Bombay, at Brabourne Stadium, 87, Veer Nariman Road, Bombay 1.

The Chairman of the Regional body is B. P. Kapadia and the Secretary M. de Melo.

**ESIS MEDICAL SPECIALISTS' ASSOCIATION
(EMSA)**

Churchgate New Clinic, Vir Nariman Road, Bombay 1.

EX-SERVICES ASSOCIATION, INDIA

BOMBAY BRANCH.—T/18, Barracks, Near Hospital Laboratory, Colaba, Bombay 5.

Chairman.—Brig. F. H. B. Ingall, D.S.O., O.B.E.*Vice-Chairman.*—B. J. O'Shaughnessy.*Hon. Treasurer.*—S. A. Bookley.*Secretary.*—Major A. H. Grylls.**FIELD RESEARCH STATION**

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Director.—Dr. A. N. Puri, Ph.D., D.Sc.**FILM FEDERATION OF INDIA**

61, Walkeshwar Road, Bombay 6.

President.—M. D. Shinde.*Vice-President.*—T. B. E. Wadia, A. Bose.*Hon. Treasurer.*—B. P. Shinde.**THE FILM JOURNALISTS' ASSOCIATION**

70, Trinity Street, Bombay 2.

(Established 2nd June 1955.)

Objects.—Brings together in one organisation all the journalists who are attached to the Daily papers and other periodicals either as Film Editors, or Screen Representatives or Film Critics or Press Photographers or Cartoonists irrespective of language or languages, strives to maintain high standards of professional conduct and raise the level of film journalism and gives annually awards for the best efforts in different categories of film making.*President:* Burjor N. Pavri; *Vice-President:* Morris D. Japeth; *Secretary:* Shantaram G. Khale; *Treasurer:* Raghuvver K. Rele.**FIRE SALVAGE ASSOCIATION OF BOMBAY, LTD.**

Jacob Samoon Building, 6, Rampart Row, Bombay 1.

Secretaries, Insurance Association of India, Bombay Regional Council.*Secretary.*—Vaman H. Thakor, B.A., LL.B., Advocate (O.S.), A.T.I.L.*Objects.*—To provide an organised salvage corps of trained men, who will always be ready to attend at fires, take charge of salvage and handle salvage, if necessary.*Station.*—Sewree Cotton Depot. *Superintendent.*—S. M. Saleh; *Station Officers.*—M. A. Telang, C. L. Job.**FORUM OF FREE ENTERPRISE**

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President:—A. D. Shroff.**FRIENDS OF THE MENTALLY ILL**

C/o Tata Institute of Social Sciences, Chembur, Bombay 28.

Aims and Objects:—To foster the welfare of the mentally ill persons particularly rehabilitating them by organising clubs, libraries, hostels, homes and workshops for them.*Jt. Hon Secretaries:*—Mrs. P. Singhvi, Miss P. Tata.**FRIENDS OF THE TREES**

55, 3rd floor, Lakshmi Bldg., Sir Pherozshaw Mehta Road, Bombay 1.

A fellowship of Indian tree-lovers seeking to create and foster a tree-sense in the country.

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Sponsors: Rajyogi Nathji Anand Acharya, Anand Dhruva, Mother Mira Bhen.**GIRGAUM NAGARIK SEVA MANDAL**

Servants of India Society's Home, 417, Sardar Vallabhbhai Patel Road, Bombay 4.

To guard and improve civic amenities of the Girgaum locality. To promote friendly feelings, goodwill, co-operation, brotherhood and general advancement among the residents of the Girgaum locality.

President.—V. E. Thite; *Vice-President.*—A. L. Sohoni; *Jt. Secretaries.*—A. B. Dalvi, Ravindra Pinge; *Treasurer.*—Ravikant Wadke.**GOAN UNION**

75, Princess Street (West), Bombay.

A representative Association of the Goans.

The Goan Union Educational Trust of the Union owns and conducts the Little Flower of Jesus High School founded in 1924 by late Rev. Fr. Herculano Goncalves.

GOMANT BHARATI

J. K. Building No. 4/20, Gamdevi, Bombay No. 7.

President.—Acharya Kaksheeb Kalelkar; *Chairman.*—Vasant P. Borkar, *Hon. Treasurer.*—Kumari Sarojini Nanavati.**GRAND CHAPTER OF UNITED SCOTTISH ROYAL
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17, Murbhan Road, Fort, Bombay

Grand Scribe: K. J. Mody.

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17, Murlhan Road, Fort, Bombay.

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Bombay 1.

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17, Horniman Circle, Dena Bank Building, Fort, Bombay.

It is a federation of Gujarati dramatic groups and individuals interested in dramatic activity. It is a public body and is managed by a board of control.

President:—Sir Harisiddhabhai V. Divetia; *Vice-Presidents:*—Jayantilal R. Trivedi; Jyotindra H. Dave, Mohanlal T. Mehta 'Sopan'; *Hon. Secretaries:*—Damu Jhaveri, Prof. Chhotalal L. Gheewala, Lalu Shah.

GUJARAT RESEARCH SOCIETY

Lalit Kunj, 106, Khar, Bombay 21. (Tel. No. 88058). Also at 46-48, Esplanade Mansion, Fort, Bombay. New Bldg., Sanshodhan Sadan, 17th Road, Khar, on South Avenue.

THE OBJECTS OF THE SOCIETY ARE:—(1) to promote, organise and co-ordinate research in all branches of knowledge (2) to collect and publish accurate information on all subjects relating to Gujarat and city of Bombay (3) to foster interrelations with other parts of India and the world. It publishes a *Quarterly Journal of Research articles* and other publications popularising the results of research.

Its *Medical Committee* has undertaken surveys on Food, Nutrition and Health of families in Gujarat. Its *Sociological studies* include research into the life of tribes of Gujarat. The *Ancient History and Culture Committee* is concerned with subjects pertaining to History and culture of the Region.

A *Psychological Research Institute* conducts research on Psychological and Educational problems, constructs and standardises educational and Psychological tests of aptitudes and achievement, offers Vocational and Educational Guidance to students and trains students for M.Ed., and Ph.D. degree of the Bombay University, B.A., and M.A. (with Psychology) of the S.N.D.T. University. It runs a Child Guidance Clinic where maladjusted children are treated on the basis of Play Therapy and group counselling of Parents.

Membership:—Rs. 12 per annum which includes subscription for Journal Rs. 8. Foreign Journal Subscription 15 Shillings or 2 Dollars.

PRESIDENT:—P. G. Shah; *VICE-PRESIDENTS:*—Sir H. V. Divetia; Sir M. B. Nanavati; K. M. Munshi; Dr. B. B. Yodh; Prof. C. N. Vakil; E. G. Saraiya; *HON. TREASURER:*—Dr. A. S. Kalapesi; B. L. Randeri; *HON. GENERAL SECRETARY:*—Dr. D. T. Lakdawala; *HON. JT. SECRETARIES:*—J. H. Trivedi and Dr. C. H. Shah. *Psychological Research Institute:*—Professor Dr. M. P. Valdia; *Secretary:*—Dr. (Mrs.) M. B. Shah; *Director:*—Dr. N. N. Shukla.

GUJARATI HINDU STREE MANDAL

123, Vitthalbhai Patel Road, Bombay 4.
Tel. 73959.

The main activity of the Mandal is educational. It conducts home classes, an industrial home, Lady Teachers' College of Tailoring and Embroidery, the P.S.C. class, the Bala-Mandir, etc., in its premises.

The Mandal maintains the Jambhai Sakai Free Library, and also the Sir Jagmohandas Library for children. It issues a monthly *patrika*.

President:—Lady Tarabai C. Mehta; *Chairman:* Mrs. Chandaben Bhaldas; *Jt. Hon. Secretaries:*—Mrs. Raakmani B. Desai, Mrs. Kusumgaurl M. Munshi and Mrs. Tilotama S. Pathak; *Jt. Hon. Treasurers:*—Mrs. Vidyagaurl K. Munshi; Mrs. Sulochanaben V. Vakil.

HAFFKINE INSTITUTE

Parel, Bombay 12.

Haffkine Institute is the principal State medical research institute of western India. In addition, it carries out large-scale manufacture of plague, cholera, T.A.B. and anti-rabic vaccines; anti-toxins, sera and toxoids, vitamin and sulfa tablets, intravenous solutions, etc. It also undertakes drug testing and clinical pathological work. It is recognised as a Post-Graduate Institution.

Director:—H. I. Jhala, M.D., F.C.P.S., D.T.M.

HARIJAN SEVAK SANGH

Congress House, V. Patel Road, Bombay 4.

HIND MAZDOOR SABHA

(All India Headquarters)

Servants of India Society's Home, Sardar Patel Road, Bombay 4.

President:—S. C. C. Anthoni Pillai, M.P.; *General Secretary:*—Bagaram Tulpule; *Secretaries:*—B. C. Pradhan, Ram Desai.

INDIA-AFGHANISTAN FRIENDSHIP SOCIETY

Mistry Court, 208, D. Watcha Road, Bombay 1.

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INDIA-CHINA FRIENDSHIP ASSOCIATION

Neelam Mansil, 350, Lamington Road, Bombay 7.
(Tel. No. 70800).

President:—R. K. Karanjia.

INDIA-INDONESIA SOCIETY

Anjuman-I-Islam, 92, Dadabhoy Naoroji Road, Bombay 1.

INDIAN ASSOCIATION OF INDUSTRIAL EDITORS

Office: Army & Navy Building (3rd Floor), Mahatma Gandhi Road, Fort, Bombay 1.

Founded in 1956 comprising the Editors and Assistant Editors of well-known Company publications published by industrial and business firms in the country.

INDIAN CANCER SOCIETY

Tata Memorial Hospital, Parel, Bombay 12.

The aims and objects of the Society are to encourage and support scientific investigation of the cause, prevention and control of cancer; to create a public awareness of the curability of early cancer and a medical awareness of the best methods of detection, diagnosis and treatment; to encourage and aid financially and otherwise persons suffering from cancer; to combat quackery; to increase the facilities for more efficient social service to cancer victims in rural areas; to encourage research in the newer techniques of diagnosis and treatment. Thus it has initiated a cytology training scheme for medical and scientific workers throughout India, at the Tata Memorial Hospital. It has also set up 'Colposcopy and Chemotherapy Service Units' at the same Hospital. To achieve these objects the Society depends entirely on voluntary aid from the public.

Chairman:—N. H. Tata (Director, Tata Sons Ltd.).

Hon. Treasurer:—P. A. Narleiwala (Director, Tata Industries Ltd.).

Hon. Secretary:—Dr. D. J. Jussawalla, M.S., F.R.C.S.E., Surgeon, Tata Memorial Hospital, Parel, Bombay 12.

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14, Nicol Road, Ballard Estate, Fort, Bombay 1.

President: Dr. M. S. Randhawa, D.Sc., F.N.I., I.C.S.; *Vice-President:* M. R. Rula; *Secretary:* Dr. B. L. Sethi, M.Sc., Ph.D. (Wales); *Deputy Secretary:* K. Dharmarajulu, M.Sc.; *Assistant Secretary:* T. T. Paulose, B.A., LL.B., C.A.I.I.B.; *Director, Technological Laboratory:* Dr. R. L. N. Jyengar, D.Sc. (Madras).

INDIAN CHEMICAL SOCIETY

(Bombay Branch)

St. Xavier's College, Bombay 1.

President:—Prof. V. M. Bhavs; *Jt. Hon. Secretaries:*—Dr. Y. V. Lawande; Dr. T. B. Merchant.

INDIAN CONFERENCE OF SOCIAL WORK

Central Office : 16, Govt. Hutments, 6/A, Cooperage, Bombay 1.

The Indian Conference of Social Work is a central national organisation for the promotion of social welfare in India.

It is affiliated to the International Conference of Social Work.

Office-Bearers.—*President* : V. V. Giri; *Vice-Presidents* : Smt. Zaidna R. G. Currimbhoy, Acharya Jugal Kishore, Nawab Mehdi Nawaz Jung; *Honorary Treasurers* : Dr. Jivraj N. Mehta; P. R. Bhatt; *Honorary General Secretary* : Smt. M. Chubwala Jadhav; *Executive Secretary* : B. Chatterjee; *Honorary Associate Secretary* : Smt. A. Wahabuddin Ahmed.

A South-East Asia Regional Office of the International Conference has been established in conjunction with the Central Office of the Indian Conference of Social Work in Bombay.

Officers of the International Conference in India :—*Vice-President* : Dr. Jivraj N. Mehta; *Asst. Treasurer-General* : Smt. Gulestan R. B. Billimoria; *Asst. Secretary-General* : B. Chatterjee; *Asst. Secretary* : Kumari Zakia Khan.

INDIAN COUNCIL FOR CULTURAL RELATIONS

Regional Office : Rahimtoola House, Homji Street, Bombay 1.

President :—Prof. Humayun Kabir; *Vice-Presidents* :—Kaka-saheb Kalelkar, K. G. Salyidain.

INDIAN COUNCIL OF MANAGEMENT EXECUTIVES

(Regd. under Societies Registration Act 1860)

Post Box 1914, Bombay 1.

THE AIMS ARE :—To promote and develop the Science of Management in Industry. To disseminate information, knowledge and practice of efficiency in Management as a basis of national and individual prosperity. To conduct short term training courses in Management. To compile a national Directory for Management Executives. To conduct Management Executive Training College.

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Dhun Building, Nanabhai Lane, Flora Fountain, Bombay 1.

President :—Dr. K. A. Hamied; *Vice-Presidents* :—V. E. Raymond, Harish Mahindra; *Hon. Gen. Secretary* :—A. Roye.

INDIAN DOCUMENTARY PRODUCERS' ASSOC.

National House, Tulloch Road, Bombay 1.

INDIAN HISTORY CONGRESS

9, New Marine Lines, Bombay 1.

General Secretary :—Dr. George Moraes; *Jt. Secretary* :—Dr. M. Rama Rao; *Treasurer* :—Dr. V. G. Hatalkar.

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Prospect Chambers Annex, Dr. Dadabhoy Naoroji Road, Bombay 1.

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Hon. Treasurer : H. N. Dallas, F.I.I.A., F.R.I.B.A.

INDIAN INSTITUTE FOR EDUCATIONAL AND CULTURAL CO-OPERATION

22-D, Parsi Bazar Street, Bombay 1.

The Institute functions as the Bombay Association for the United Nations.

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(Bombay Territorial Branch)**

Shri Nivas, Sardar Vallabhbhai Patel Road, Bombay 4.

President : Dr. Mangaldas J. Shah; *Vice-Presidents* : Dr. S. S. Ugrankar, Dr. R. K. Menda; *Hon. Secretary* : Dr. M. A. Panwala; *Hon. Jt. Secretaries* : Dr. Arvind M. Shah; Dr. D. S. Mungekar; *Hon. Treasurer* : Dr. J. J. Merchant.

INDIAN COMMITTEE FOR CULTURAL FREEDOM

148, Mahatma Gandhi Road, Bombay 1.

Hon. Secretaries : V. B. Karnik, J. B. H. Wadia.

INDIAN ECONOMIC ASSOCIATION

Dept. of Economics, Univ. of Bombay, Bombay.

President : Prof. J. J. Anjaria; *Hon. Secretary & Treasurer* : Dr. Baljit Singh, *Editor of the Quarterly Magazine* : Dr. D. T. Lakdawala.

**INDIAN MEDICAL ASSOCIATION
(Bombay Branch)**

Shri Nivas, Sardar Vallabhbhai Patel Road, Bombay 4.

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President : D. K. Kunte; *Hon. Gen. Secy.* : Damu Jhaveri; *Hon. Treasurer* : Chandrakant Dalal.

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46-48, Esplanade Mansions, Mahatma Gandhi Road, Fort, Bombay.

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INDIAN SOCIETY OF RAYON TECHNOLOGISTS

144, Dharavi Road, Bombay 17.

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Co-operative Insurance Building, 4th Floor, Sir Pherozshah Mehta Road, Bombay 1.

An Association to promote goodwill and understanding among the peoples of India and America.

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INDO-BULGARIAN FRIENDSHIP SOCIETY

2A, Harkness Road, Malabar Hill, Bombay 6.

INDO-CZECHOSLOVAK CULTURAL SOCIETY

Vulcan Insurance Building, 4th floor, Vir Nariman Road, Bombay 1.

President : Dr. A. S. Erulkar; *Treasurer* : H. R. Raja; *Gen. Secretary* : K. P. Shankerlingam.

INDO-GERMAN CULTURAL SOCIETY

16, Yusuf Bldg., Veer Nariman Road, Bombay 1.

President, S. K. Patil; *Hon. Genl. Secy.*, Dr. M. R. Vyas.

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12, Rampart Row, Bombay 1.

President, A. D. Shroff; *Secretaries* : G. S. Pohokar and V. H. Vora.

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(a) Income Rs. 46,46,883 (exclusive of non-recurring income);
(b) Expenditure Rs. 48,38,718 (exclusive of non-recurring expenditure); (c) Govt. Grants for year 1958-59 :—Bombay Government Grants Rs. 7,89,048; (d) Non-recurring expenditure Rs. 2,21,320.

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Budget 1958-59 :

	Rs.
Grant from Vithaldas D. Thackersey Trust ..	45,000
Government Grant ..	1,36,000
From other sources such as Examination fees, etc.	3,23,652
Income from Schools and Colleges ..	5,27,782
Total ..	10,32,634
Expenditure ..	11,23,706
Deficit ..	91,072

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(Estd. 1905)

Prospect Chambers Annexe, Dr. Dadabhoi Naoroji Road, Bombay 1.

The college provides specialised guaranteed oral and postal training for Indian and Foreign Professional diploma courses for Cost Accountants, Practising Accountants, Secretarial, Banking and General Commerce.

Principal :—Burjor P. Bamji, B.Com., F.I.C.S., F.A.C.A., A.S.P.A.**BATLIBOI'S ACCOUNTANCY TRAINING INSTITUTE**

Trafford House, Prescott Road, Fort, Bombay.

Principal :—B. D. Birdy, B.Com., C.A., F.C.A., Professor of Accounting, Auditing and Statistics.

COLLEGE OF CATERING & INSTITUTIONAL MANAGEMENT

(TECHNICAL COLLEGE)

Nava Gujrat Campus, Andheri, Bombay 41.

President: Smt. Lilavati Munshi; *Principal:* C. Belfield-Smith, FHCI, PCFA, MRNII, Technical Expert, Food and Agriculture Organisation of the United Nations.

DADAR COMMERCIAL INSTITUTE

(Recognised by Government).

Ghamat Terrace, Opp. Western Rly. Station, Dadar, Bombay 28.

Principal:—S. K. Kulkarni.

LAXMI COLLEGE OF COMMERCE

Dadar, Bombay 28.

(Silver Jubilee Year—1957)

Courses Offered:—Industrial Management—AMBIM: Cost and Works Accountancy—ACWA, AICWA; Incorporated Secretaryship—ACCS; Banking—CAIIB; Co-operative Auditing—GDC & A; Diploma in Commerce—D (COM (IMC); Bombay Govt. Commercial Diploma—DIP COM (GOVT.).

Pitman's Higher Secretarial Group Diploma. Accountancy, Short-hand and Typewriting

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LINGUAPHONE INSTITUTE (INDIA) PRIVATE LTD.

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PREMIER INSTITUTE OF COMMERCE

Esplanade Mansions, Mahatma Gandhi Road, Kalaghoda and Comilla Bank Building, 263, Hornby Road, Fort.

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235, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

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Y. W. C. A. COMMERCIAL SCHOOL

18, Mayo Road, Bombay.

The School which is recognised by Government, gives a thorough office training to women and girls.

SECONDARY SCHOOLS

BOYS' SCHOOLS

ADARSHA NAWJIWAN VIDYALAYA (Kalbadevi), Stds. V—IX. AMULAKH AMICHAND VIVIDHLAXI VIDYALAYA (Matunga), Stds. V—XI.

ANDHRA EDUCATION SOCIETY'S HIGH SCHOOL (Matunga), Stds. V—XI.

ANJUMAN-I-ISLAM ABDUS SATAR SHUIB SCHOOL (Memonwada Road), Stds. V—VIII.

ANJUMAN-I-ISLAM HAJI MOHAMMED AHMED SAILOR HIGH SCHOOL (Dimtimkar Road, New Nagpada), Stds. V—XI.

ANJUMAN-I-ISLAM HIGH SCHOOL (Hornby Road, Fort), Stds. V—XI.

ANJUMAN-I-ISLAM HIGH SCHOOL (Kurla), Stds. V—XI.

ARYAN EDUCATION SOCIETY'S HIGH SCHOOL (Opera House, Girgaon), Stds. V—XI.

BALUBHAI PANNALAL MOHANLAL HIGH SCHOOL (16th Road, Khar), Stds. V—XI.

BABU PANNALAL PARAMCHAND JAIN HIGH SCHOOL (Pydhonie), Stds. V—XI.

BAI KABIBAI HINDU HIGH SCHOOL (Holi Chakla Street, Fort), Stds. V—XI.

BAI LILAVATI KABUBAI L. D. HINDU HIGH SCHOOL (Sandhurst Road, East), Stds. V—XI.

BAL MOHAN VIDYA MANDIR (Dadar, Shivaji Park), Stds. V—XI.

BAZARGATE HIGH SCHOOL (Gunbow Street, Fort), Stds. V—XI.

BENGALI EDUCATION SOCIETY'S HIGH SCHOOL (Dadar, Morbag Road), Stds. V—XI.

BHARAT NIGHT HIGH SCHOOL (DeLisle Road), Stds. VIII—XI.

BHARDA NEW HIGH SCHOOL (Wandby Road, Fort), Stds. V—XI.

BHESANIA HIGH SCHOOL (Grant Road), Stds. V—XI.

BOMBAY EDUCATION LEAGUE'S HIGH SCHOOL (Thakurdwar, Bombay 2), Stds. VIII—XI.

BOMBAY EDUCATION LEAGUE'S HIGH SCHOOL (World), Stds. V—XI.

BOMBAY EDUCATION LEAGUE'S NIGHT HIGH SCHOOL (World), Stds. VIII—XI.

BOMBAY FORT FREE NIGHT HIGH SCHOOL (Holi Chakla Street, Fort), Stds. V—XI.

BOMBAY NIGHT HIGH SCHOOL (Thakurdwar, Bombay 2), Stds. VII—XI.

B.P.K. SAHAKARI VIDYA MANDIR (Tardeo), Stds. V—VII.

BRADLEY NIGHT HIGH SCHOOL (Angrewadi), Stds. VIII—X.

BRIJMOHAN LAXMINARAYAN RUIYA HIGH SCHOOL (Vile Parle (East)), Stds. V—XI.

BYCULLA MODEL SCHOOL (Love Lane, Byculla), Stds. V—VII.

BYRAMJI JIJEEBHAY PARSII CHARITABLE INSTITUTION (Queen's Road), Stds. V—XI.

CHEMBUR HIGH SCHOOL (Chembur), Stds. V—X.

CHIKITSAKA SAMOOHA SHIROLKAR HIGH SCHOOL (Kandewadi, Girgaon), Stds. V—XI.

CHILDREN'S ACADEMY (Gamdevi), Stds. V—XI.

CITY HIGH SCHOOL (Thakurdwar, Bombay 2), Stds. VII—XI.

C.V.O. JAIN PATHSHALA (Chinchpokli), Stds. V—XI.

DADAR VIDYA MANDIR (Dadar Ash Lane, Gokhale Road, North), Stds. VIII—XI.

DEPRESSED CLASS EDUCATION LEAGUE'S FREE NIGHT SCHOOL (Chandanwadi), Stds. V—IX.

DHARMAPRAKASH SHREENIWAS HIGH SCHOOL (Slon), Stds. V—XI.

DIAMOND JUBILEE HIGH SCHOOL (Masagaon, Nesbit Road), Stds. V—XI.

DONGRI EDUCATION SOCIETY'S B. S. EZEKIEL ENGLISH SCHOOL (Dongri), Stds. VII—IX.

ESPLANADE HIGH SCHOOL (Hornby Road, Fort), Stds. V—XI.

ESPLANADE MIDDLE SCHOOL (Kalbadevi), Stds. V—IX.

FELLOWSHIP HIGH SCHOOL (Gowalla Tank), Stds. V—XI.

FORT AND PROPRIETARY HIGH SCHOOL (Empire Building, Hornby Road), Stds. V—XI.

FORJET HIGH SCHOOL (Tardeo), Stds. V—VII.

G. E. INSTITUTE'S ENGLISH SCHOOL (Mahim), Stds. V—XI.

GENERAL EDUCATION INSTITUTE'S CHABILAS LALLU-BHAI BOYS' HIGH SCHOOL (Dadar, Western Railway), Stds. V—XI.*

GENERAL EDUCATION INSTITUTE'S HIGH SCHOOL (Kurla), Stds. V—XI.

GHATKOPAR SHIKSHAN PRASARAK MANDAL'S MARATHI VIDYALAYA (Ghatkopar), Stds. VIII—X.

GOKULDAS TEJPAL HIGH SCHOOL (Kalbadevi), Stds. V—XI.

GOKHALE EDUCATION SOCIETY'S PAREL NIGHT HIGH SCHOOL (Parel), Stds. V—XI.

GOKHALE EDUCATION SOCIETY'S R. M. BHATT HIGH SCHOOL (Polbavdi, Parel), Stds. V—XI.

GOKHALE EDUCATION SOCIETY'S SHETH DHARAMSEY GOVINDJI THACKERSEY HIGH SCHOOL (Vithalbhai Patel Road), Stds. V—XI.

GOKULDAS TEJPAL SEMINARY VIDYALAYA (Vadgadi), Stds. V—XI.

GRANT ROAD CENTRAL HIGH SCHOOL (Grant Road, Pannalal Terraces), Stds. V—XI.

GURU NANAK HIGH SCHOOL (Slon, Koliwada), Stds. V—XI.

GURU NANAK NATIONAL SCHOOL (Koliwada, Slon), Stds. V—VII.

GUJARATI NIGHT HIGH SCHOOL (Dongri), Stds. V—XI.

HABIB HIGH SCHOOL (Dongri, Bhimpura Street), Stds. V—XI.

HAIDERY MIDDLE SCHOOL (Dongri, Kesar Baug), Stds. V—X.

HANSRAJ MORARJI PUBLIC SCHOOL (Nav Gujarat, Andheri), Stds. V—XI.

HASHMIA HIGH SCHOOL (Zakaria Masjid), Stds. V—XI.

HIGH SCHOOL FOR SINDHEES (Elph. Tech. High School Compound, Dhobitalao), Stds. V—XI.

HINDI HIGH SCHOOL (Ghatkopar), Stds. V—XI.

HINDI NIGHT HIGH SCHOOL (Matunga), Stds. VIII—XI.

HINDI VIDYALAYA HIGH SCHOOL (Angrewadi), Stds. V—XI.

HIRJI GHELABHAI SAVLA VIDYALAYA (Shraddhanand Road, Matunga (C. R.), Bombay 19), Stds. V—XI.

HUME HIGH SCHOOL (Byculla), Stds. V—XI.

IDEAL EDUCATION SOCIETY'S UNION HIGH SCHOOL (Khetwadi Main Road), Stds. V—XI.

* One division of Standard VIII of this school is converted into a Technical High School Division. The instruction in Technical subjects is imparted at the Govt. Technical High School centre at Dadar, Bombay.

IDEAL HIGH SCHOOL (C. P. Tank), Stds. V—XI.
 IDEAL MORNING HIGH SCHOOL (Thakurdwar, Bombay 2), Stds. VII—XI.
 IDEAL NIGHT HIGH SCHOOL (Gokhale Road, North), Stds. VIII—XI.
 IMPERIAL HIGH SCHOOL (Gowalla Tank), Stds. V—XI.
 INDIAN EDUCATION SOCIETY'S BOYS' HIGH SCHOOL, (Dadar, Portuguese Church Street), Stds. V—XI.
 INDIAN EDUCATION SOCIETY'S KING GEORGE HIGH SCHOOL (Dadar Hindu Colony), Stds. V—XI.
 ISMAIL BEG MOHAMED HIGH SCHOOL (Mohamedali Road), Stds. V—XI.
 JAWAHARLAL FREE NIGHT HIGH SCHOOL (Carnac Road, Dhobitalao), Stds. V—XI.
 JAY BHARAT NIGHT HIGH SCHOOL (Dadar), Stds. VIII—XI.
 JOGESHWARI ENGLISH SCHOOL (Jogeshwari), Stds. V—XI.
 KAMLA HIGH SCHOOL (17th Road, Khar), Stds. V—XI.
 KARNATAK FREE NIGHT HIGH SCHOOL (Gunbow Street, Fort), Stds. V—XI.
 KHAR EDUCATION SOCIETY'S SHREE M. M. PUPILS OWN HIGH SCHOOL AND BHARDA MANDIR (Khar), Stds. V—XI.
 KHOJA KHAN MOHAMED HABIBBHAI HIGH SCHOOL (Samuel Street, Mandvi), Stds. V—XI.
 K. J. KHILNANI HIGH SCHOOL (Gokhale Road, North), Stds. V—XI.
 K. J. KHILNANI HIGH SCHOOL (Hornby Road, Fort), Stds. V—XI.
 K. M. S. PAREL HIGH SCHOOL (Parel), Stds. V—XI.*
 K. M. S. PAREL NIGHT HIGH SCHOOL (Parel), Stds. VIII—XI.
 LIBERTY HIGH SCHOOL (Kalbadevi Road), Stds. V—XI.
 LOKMANYA NIGHT HIGH SCHOOL (Bhavan Shankar Road, Dadar), Stds. VIII—XI.
 LOKMANYA VIDYA MANDIR (Mahim) Stds. V—VIII.
 MADANPURA URDU FREE NIGHT SCHOOL (Madanpura), Stds. V—X.
 MAHARASHTRA HIGH SCHOOL (DeLisle Road, Lower Parel), Stds. V—XI.
 MANDVI HIGH SCHOOL (Dongri), Stds. V—XI.
 MARATHA PHULE NIGHT HIGH SCHOOL (Vincent Road, Dadar), Stds. V—XI.
 MARATHA HIGH SCHOOL (Opera House, Girgaon), Stds. VII—XI.
 MARINA MODERN HIGH SCHOOL (Chowpatty), Stds. V—X.
 MARWARI COMMERCIAL HIGH SCHOOL (Guzdar Street), Stds. V—XI.
 MARWARI VIDYALAYA HIGH SCHOOL (Sandhurst Road), Stds. V—XI.
 MASTER'S TUTORIAL HIGH SCHOOL (Nana Chowk, Gowalla Tank), Stds. V—XI.
 MATUNGA PREMIER HIGH SCHOOL (Matunga), Stds. V—XI.
 MAZGAON NIGHT HIGH SCHOOL (Masgaon, Dongri), Stds. VIII—XI.
 M. K. NATHA BHATIA GUJARATI HIGH SCHOOL (Hornby Road, Fort), Stds. V—XI.
 MODEL NIGHT HIGH SCHOOL (Dongri), Stds. V—XI.
 MODERN NIGHT HIGH SCHOOL (Lamington Road), Stds. VII—XI.
 MODERN SCHOOL (Sicka Nagar, V. P. Road), Stds. V—XI.
 MOGVEERA VYAVASTHAPAK MANDALI'S FREE NIGHT HIGH SCHOOL (Gunbow Street, Fort), Stds. V—XI.
 MOTHER INDIA FREE NIGHT HIGH SCHOOL (Elph. Tech. High School Compound, Dhobitalao), Stds. V—XI.
 MUNICIPAL HIGH SCHOOL (Bandra), Stds. V—XI.
 NAIGAUM NIGHT HIGH SCHOOL (Nalgaum), Stds. VIII.
 NATIONAL ANGLO-VERNACULAR SCHOOL (Sonawala Building, Tardeo), Stds. V—IX.
 NATIONAL KANNADA EDUCATION SOCIETY'S HIGH SCHOOL (Matunga), Stds. V—XI.
 NATIONAL NIGHT HIGH SCHOOL (Thakurdwar, Bombay 2), Stds. VIII—XI.
 NAVA BHARAT NIGHT HIGH SCHOOL (Thakurdwar, Bombay 2), Stds. VII—XI.
 NAWA BHARAT VIDYALAYA (Parel, Damodar Hall), Stds. VIII—X.
 NEW BHARAT NIGHT HIGH SCHOOL (Gokhale Road, South), Stds. VI—XI.
 NEW EDUCATION HIGH SCHOOL (Chowpatty, Girgaon), Stds. V—XI.
 NEW ERA SCHOOL (Hughes Road), Stds. V—XI.
 NEW NIGHT HIGH SCHOOL (Thakurdwar, Bombay 2), Stds. V—XI.
 ORIENT HIGH SCHOOL (Mahim), Stds. V—XI.
 PARLE TILAK VIDYALAYA (Ville-Parle), Stds. VIII—XI.
 PIONEER HIGH SCHOOL (Matunga), Stds. VIII—XI.
 PIONEER PUBLIC SCHOOL (Dadar, Gokhale Road North), Stds. V—XI.
 POPULAR NIGHT HIGH SCHOOL (Prarthana Samaj, Girgaon), Stds. VIII—XI.
 POPULAR NIGHT HIGH SCHOOL No. 2 (Dadar), Stds. VIII—XI.

PRABHU SEMINARY (Thakurdwar, Bombay 2), Stds. V—XI.
 PREMIER HIGH SCHOOL (Dadar), Stds. V—XI.
 PREMIER HIGH SCHOOL (Ston, Koliwada), Stds. V—XI.
 PREMIER HIGH SCHOOL (Ston), Stds. V—VII.
 PRIVATE ENGLISH NIGHT HIGH SCHOOL (Girgaon, Mugbhat), Stds. VIII—XI.
 PROGRESSIVE NIGHT HIGH SCHOOL (Agridada), Stds. VII—X.
 PROPRIETARY AND FORT HIGH SCHOOL (Chira Basar, Thakurdwar), Stds. V—XI.
 RAMJI ABSAR VIDYALAYA HIGH SCHOOL (Ghatkopar), Stds. V—XI.
 RAM MOHAN ENGLISH SCHOOL No. 2 (Dadar), Stds. VIII—XI.
 RAM MOHAN ENGLISH SCHOOL (Prarthana Samaj), Stds. V—XI.
 REPUBLIC NIGHT HIGH SCHOOL (Dadar), Stds. VIII—XI.
 SAIFEE HIGH SCHOOL (Ibrahim Rahimtulla Road), Stds. V—XI.
 SARASWATI HIGH SCHOOL (Lalbag), Stds. VIII—XI.
 SARASWATI VIDYA MANDIR NIGHT HIGH SCHOOL (Lalbag), Stds. VIII—XI.
 SARLA SARJAN SARVADESHIYA BALSHIKSHAN KENDRA (Ville Parle), Stds. V—VII.
 SARVAJANIK MIDDLE SCHOOL (Masgaon), Stds. V—VIII.
 SARVAJANIK NIGHT HIGH SCHOOL (Ash Lane, Gokhale Road, North, Bombay 28), Stds. VIII—XI.
 SARVAJANIK HIGH SCHOOL (Matunga), Stds. V—XI.
 SETHANANDILAL PODAR HIGH SCHOOL (Santa Cruz), Stds. V—XI.
 SETH JEEJIBHOY DADABHOY CHARITY SCHOOL (Lamington Road), Stds. V—IX.
 SHARADASHRAM VIDYA MANDIR (Bhavan Shankar Road, Dadar), Stds. V—IX.
 SHETH FRAMJI NASARWANJI PATEL ANGLO-GUJARATI HIGH SCHOOL (Khetwadi Main Road), Stds. V—XI.
 SHETH KANYALAL D. HINDUJA SECONDARY SCHOOL (Queen's Road), Stds. V—XI.
 SHETH MADHAVDAS AMARSI HIGH SCHOOL (Andheri), Stds. V—XI.
 SHETH M. A. ANDHERI NIGHT HIGH SCHOOL (Andheri), Stds. V—XI.
 SHETH PARAMANAND VIDYALAYA (Chembur), Stds. V—XI.
 SHIVAJI NIGHT HIGH SCHOOL (Parel), Stds. VIII—XI.
 SHREE RASHTRIYA VIDYA MANDIR HIGH SCHOOL (Nana Chowk, Gowalla Tank), Stds. V—X.
 SHREE VADILAL CHATURBHUJ GURUKUL HIGH SCHOOL (Ghatkopar), Stds. V—XI.
 SHRIMATI GOKLIBAI P. P. HIGH SCHOOL (Ville-Parle), Stds. V—XI.
 SHRI CUTCHI VISHA OSWAL JAIN PATHASHALA (Pala Galli, Mandvi), Stds. V—XI.
 SHRI DAYANAND VIDYALAYA, HINDI HIGH SCHOOL (Matunga), Stds. V—XI.
 SHRI K. C. K. A. KUCHI DASHA OSWAL JAIN PATHASHALA (Nani Natha Street, Mandvi), Stds. V—XI.
 SHRI NANAWATI VIDYALAYA (Bhuleshwar), Stds. V—IX.
 SHRI SARASWATI BOYS' AND GIRLS' MIDDLE SCHOOL (Nawiwadi, Girgaon), Stds. V—VIII.
 SIDDHARTHA HIGH SCHOOL (Princess Street), Stds. V—XI.
 SIDDHARTH NIGHT HIGH SCHOOL (Fort), Stds. VII—XI.
 SIND COSMOPOLITAN HIGH SCHOOL (Chembur), Stds. V—XI.
 SIND COSMOPOLITAN HIGH SCHOOL (Ghatkopar), Stds. V—XI.
 SIND MODEL HIGH SCHOOL (Nana Chowk, Gowalla Tank), Stds. V—XI.
 SIND PREM VIDYALAYA (Mahim), Stds. V—VII.
 SIRDAR HIGH SCHOOL (Khetwadi), Stds. V—XI.
 SIR WILLY KADOORIE SCHOOL (Masgaon), Stds. V—XI.
 SIR J. J. PARSİ BENEVOLENT INSTITUTION (Hornby Road, Fort), Stds. V—XI.
 SITARAM PRAKASH HIGH SCHOOL (Wadala), Stds. V—XI.
 SOCIAL NIGHT HIGH SCHOOL (Nana Chowk, Gowalla Tank), Stds. V—XI.
 SOCIAL SERVICE LEAGUE'S NIGHT HIGH SCHOOL (Parel, Polbawdi), Stds. V—XI.
 SOUTH INDIAN EDUCATION SOCIETY'S HIGH SCHOOL (Brahmanwada Road, Matunga), Stds. V—XI.
 S. V. KANNADA ENGLISH FREE NIGHT HIGH SCHOOL (Gamdevi), Stds. V—VII.
 UNITY HIGH SCHOOL (Khetwadi), Stds. V—XI.
 VANDE MATARAM SEVA MANDALI'S NIGHT HIGH SCHOOL (Byculla), Stds. V—X.
 WILSON HIGH SCHOOL (Khetwadi), Stds. V—XI.
 WORKERS' EDUCATIONAL SERVICE LEAGUE'S FREE NIGHT HIGH SCHOOL (Nagpada), Stds. V—XI.
 WORKERS' EDUCATION SOCIETY'S NIGHT HIGH SCHOOL (Tardeo), Stds. VIII—XI.
 YOUNG MEN'S FREE NIGHT HIGH SCHOOL (Basargate Street, Fort), Stds. V—XI.

* Commerce Course is introduced in Standard VIII onwards.

GIRLS' SCHOOLS

ANJUMAN-I-ISLAM GIRLS' HIGH SCHOOL (Bellasis Road), Stds. V—XI.
 ANJUMAN-I-ISLAM GIRLS' HIGH SCHOOL (Mahim), Stds. V—IX.
 ARYAN EDUCATION SOCIETY'S HIGH SCHOOL FOR GIRLS (SHARDA SADAN) (Girgaon Road), Stds. V—XI.
 BAI B. S. BENGALI GIRLS' SECONDARY SCHOOL (New Marine Lines, Fort), Stds. V—XI.
 BAI M. N. GAMADIA GIRLS' HIGH SCHOOL (Princess Street), Stds. V—XI.
 BAI R. F. D. PANDAY GIRLS' HIGH SCHOOL (Gilder Lane), Stds. V—XI.
 BAI R. F. PAVRI GIRLS' HIGH SCHOOL (Khetwadi), Stds. V—XI.
 CHANDARAMJI GIRLS' HIGH SCHOOL (V. P. Road), Stds. V—XI.
 CUMMOO JAFFAR SULEMAN GIRLS' HIGH SCHOOL (Bhendl Bazar, Kambekar Street), Stds. V—XI.
 DIAMOND JUBILEE GIRLS' HIGH SCHOOL (Imamwada), Stds. V—XI.
 GENERAL EDUCATION SOCIETY'S GIRLS' HIGH SCHOOL (Tulsi Pipe Road), Stds. V—XI.
 GIRLS' HIGH SCHOOL (Andheri), Stds. V—XI.
 HANSRAJ PRAGJI THAKERSKY GIRLS' HIGH SCHOOL (Carnegie Road), Stds. V—XI.
 INDIAN EDUCATION SOCIETY'S GIRLS' HIGH SCHOOL No. 2 (Hindu Colony), Stds. V—XI.
 INDIAN EDUCATION SOCIETY'S GIRLS' HIGH SCHOOL No. 1 (Portuguese Church Street), Stds. V—XI.
 J. B. VACHHA GIRLS' HIGH SCHOOL (Parsi Colony, Dadar), Stds. V—XI.
 MADRESA TAYEBIA GIRLS' SCHOOL (Pydhoni), Stds. V—IX.
 MODEL HIGH SCHOOL FOR GIRLS (Dadar, Western Railway), Stds. V—XI.
 PRINCESS HIGH SCHOOL FOR GIRLS (Lamington Road), Stds. V—XI.
 RAHAMATBAI HABIB GIRLS' HIGH SCHOOL (Khadak), Stds. V—XI.
 SAIFI GIRLS' HIGH SCHOOL (Sarang Street), Stds. V—XI.
 SARASWATI ENGLISH SCHOOL FOR GIRLS (Ambewadi, Girgaon), Stds. V—XI.
 SHARADA MANDIR HIGH SCHOOL FOR GIRLS (V. P. Road), Stds. V—XI.
 SHETH DHANJI DEVSHI RASHTRIYA SHALA (Ghatkopar), Stds. V—XI.
 SHETH GOKULDA TEJPAL GIRLS' HIGH SCHOOL (D. Naoroji Road), Stds. V—XI.
 SHREE RATNACHANDRAJI JAIN KANYASHALA (Ghatkopar), Stds. V—XI.
 SHREEMATI NATHIBAI DAMODAR THACKERSEY KANYA SHALA (Vithalbhai Patel Road), Stds. V—XI.
 SHRI CHANDULAL NANAWATI KANYA VINAYA MANDIR (Vile Parle), Stds. VIII—X.
 SHRI RATNACHINTamani S. JAIN GIRLS' HIGH SCHOOL (Girgaon Road), Stds. V—XI.
 SHRI SHAKUNTALA KANTILAL ISHWARLAL JAIN GIRLS' HIGH SCHOOL (Queen's Road), Stds. V—XI.
 SIR CAWASJI JAHANGIR GIRLS' HIGH SCHOOL (Tardeo), Stds. V—XI.
 SIR J. J. P. B. INSTITUTION (D. Naoroji Road), Stds. V—XI.
 SITARAM PODDAR BALIKA VIDYALAYA (Phanaswadi), Stds. V—XI.
 SNEHALATA RANE GIRLS' HIGH SCHOOL (Portuguese Church Street), Stds. VIII—XI.
 SOUTH INDIAN WELFARE SOCIETY'S GIRLS' HIGH SCHOOL (Matunga), Stds. V—XI.
 ST. COLUMBA HIGH SCHOOL FOR GIRLS (Alexandra Road, Gamdevi), Stds. V—XI.
 STUDENTS' LITERARY AND SCIENTIFIC SOCIETY'S GIRLS' HIGH SCHOOL (Thakurdwar), Stds. V—XI.
 SUNITI GIRLS' HIGH SCHOOL (Parelkh Street), Stds. V—IX.
 VANITA VISHRAM ENGLISH SCHOOL (Khetwadi Main Road), Stds. V—XI.
 YOUNG LADIES' HIGH SCHOOL (Marzban Road, Fort), Stds. V—XI.

SECONDARY (ENGLISH) SCHOOLS**BOYS' SCHOOLS**

ANTONIO DE SOUZA HIGH SCHOOL (Byculla), Stds. V—XI.
 BARETTO HIGH SCHOOL (Thakurdwar), Stds. V—IX.
 BOMBAY ENGLISH SCHOOL (Grant Road), Stds. V—IX.
 DR. ANTONIO D'SILVA HIGH SCHOOL (Dadar), Stds. V—XI.
 DON BOSCO HIGH SCHOOL (Matunga), Stds. V—XI.
 ENGLISH HIGH SCHOOL FOR BOYS AND GIRLS (Dadar), Stds. V—XI.
 HILL GRANGE HIGH SCHOOL (Fodder Road, Malabar Hill), Stds. V—XI.
 HOLY CROSS PARISH SCHOOL (Kurla), Stds. V—XI.

HOLY NAME HIGH SCHOOL (Fort), Stds. V—XI.
 LADY ENGINEER'S PARSI A. C. HIGH SCHOOL (Grant Road), Stds. V—IX.
 JASMINES HIGH SCHOOL (Mahim), Stds. V—IX.
 LITTLE FLOWER OF JESUS HIGH SCHOOL (Princess Street), Stds. V—XI.
 PAREL ENGLISH SCHOOL (Parel), Stds. V—X.
 SACRED HEART BOYS' HIGH SCHOOL (Santa Cruz), Stds. V—XI.
 ST. ANNE'S NIGHT HIGH SCHOOL (Masagaon), Stds. V—IX.
 ST. ANTONY'S HIGH SCHOOL (Chembur), Stds. V—XI.
 ST. BLASE'S SCHOOL (Andheri), Stds. V—XI.
 ST. MARY'S ENGLISH TEACHING HIGH SCHOOL (Masagaon, Nesbit Road), Stds. V—XI.
 ST. IGNATIUS SCHOOL (Arthur Road), Stds. V—IX.
 ST. JOSEPH'S HIGH SCHOOL (Umarkhadi), Stds. V—XI.
 ST. JOSEPH'S HIGH SCHOOL (Wadala), Stds. V—XI.
 ST. SEBASTIAN GOAN HIGH SCHOOL (Thakurdwar, Burrow's Lane), Stds. V—XI.
 SIR JACOB SASSOON FREE HIGH SCHOOL (Byculla), Stds. V—XI.
 ST. MICHAEL'S HIGH SCHOOL (Mahim), Stds. V—XI.
 ST. MICHAEL'S NIGHT HIGH SCHOOL (Mahim), Stds. VIII—X.
 ST. JOSEPH'S SCHOOL (Upper Colaba), Stds. V—VII.
 ST. JOSEPH'S NIGHT HIGH SCHOOL (Princess Street), Stds. V—XI.
 ST. JOHN'S NIGHT HIGH SCHOOL (Dongri), Stds. V—XI.
 ST. ALOYSIUS SCHOOL (Bandra), Stds. V—XI.
 ST. ANDREW'S HIGH SCHOOL (Bandra), Stds. V—XI.
 ST. PAUL'S HIGH SCHOOL (Parel), Stds. V—XI.
 ST. STANISLAUS HIGH SCHOOL (Hill Road, Bandra), Stds. V—XI.
 ST. XAVIER'S HIGH SCHOOL (Fort), Stds. V—XI.
 ST. XAVIER'S HIGH SCHOOL (Vile Parle), Stds. V—XI.

GIRLS' SCHOOLS

ALEXANDRA GIRLS' ENGLISH SCHOOL (Waudby Road, Fort), Stds. VII—XI.
 APOSTOLIC CARMEL GIRLS' HIGH SCHOOL (Bandra), Stds. V—XI.
 AUXILIUM CONVENT HIGH SCHOOL (Wadala), Stds. V—XI.
 CANOSSA HIGH SCHOOL (Mahim), Stds. V—XI.
 CONVENT HIGH SCHOOL FOR GIRLS (Dadar), Stds. V—XI.
 GIBTON HIGH SCHOOL (Grant Road), Stds. V—XI.
 J. B. PETIT GIRLS' HIGH SCHOOL (Napier Road), Stds. V—XI.
 MOUNT MARY CONVENT HIGH SCHOOL (Bandra), Stds. V—XI.
 QUEEN MARY'S HIGH SCHOOL (Kennedy Bridge), Stds. V—XI.
 ST. ANNE'S HIGH SCHOOL FOR GIRLS (Fort, Mayo Road), Stds. V—XI.
 ST. ANNE'S HIGH SCHOOL FOR GIRLS (Burrow's Lane), Stds. V—XI.
 ST. THERESA'S HIGH SCHOOL (Kelewadi), Stds. V—XI.
 ST. ISABEL'S HIGH SCHOOL (Masagaon), Stds. V—XI.
 ST. JOSEPH'S CONVENT HIGH SCHOOL (Agripada), Stds. V—XI.
 ST. AGNE'S HIGH SCHOOL (Clare Road), Stds. V—XI.
 ST. ANTHONY'S HIGH SCHOOL (Bellasis Road), Stds. V—XI.
 ST. JOSEPH'S CONVENT HIGH SCHOOL (Bandra, Bombay 20), Stds. V—XI.
 ST. THERESA'S CONVENT HIGH SCHOOL (Santa Cruz), Stds. V—XI.
 WALSINGHAM HOUSE SCHOOL (Nepean Sea Road), Stds. V—XI.

ANGLO-INDIAN SCHOOLS**BOYS' SCHOOLS.**

BOMBAY SCOTTISH ORPHANAGE SOCIETY'S HIGH SCHOOL (Cadell Road), Stds. I—XI.
 CAMPION SCHOOL (13, Cooperage Road, Bombay 1), Stds. III—X.
 CATHEDRAL AND JOHN CANON BOYS' HIGH SCHOOL (Outram Road, Fort), Stds. III—XI.
 CENTRAL RAILWAY SCHOOL (Supari Baug Road, Parel), Stds. I—VI.
 CHRIST CHURCH HIGH SCHOOL (Byculla, Clare Road), Stds. Infant—XI.
 ST. MARY'S HIGH SCHOOL (Nesbit Road, Masagaon), Stds. Infant I—XI.
 ST. PETER'S SCHOOL (Masagaon), Stds. I—XI.

GIRLS' SCHOOLS

CATHEDRAL AND JOHN CANON GIRLS' HIGH SCHOOL (Napier Road), Stds. Infant—XI.
 CONVENT OF JESUS AND MARY HIGH SCHOOL (Wodehouse Road), Stds. I—XI.
 CONVENT OF JESUS AND MARY HIGH SCHOOL (Byculla, Clare Road), Stds. I—XI.
 ST. JOSEPH'S CONVENT HIGH SCHOOL (Bandra), I—XI.

TECHNICAL INSTITUTIONS

ADARSHA ART TAILORING COLLEGE (Hanuman Road, Vile-Parle).
 ADARSHA KALA KENDRA (D. L. Valdia Road, Dadar, Bombay).
 ADARSHA MAHILA CLASS (Kama Lane, Ghatkopar, Bombay).
 ADVIRKAR TAILORING COLLEGE (316A, Hemraj Wadi, Thakurdwar, Tram Naka, Bombay 2).
 A. S. PATEL ACADEMY FOR DOMESTIC ARTS (Classes attached to Bai Bhikajee S. Bengalee Girls' High School, 42, New Marine Lines, Fort).
 B. J. KATRAK TRAINING CLASSES (723, Dinshaw Master Road, Parsee Colony, Dadar, Bombay 14).
 B. W. GAMADIA PARSEE HUNNARSHALA (Gamadia Parsee Colony, Tardeo, Bombay).
 BENNETT ISRAEL STREE MANDAL CLASSES, Sajan Bldg., 2nd Peerkhan Street, Bombay 8.
 BHAGINI SAMAJ (Tardeo Kendra, Sonawala Building Hall, Tardeo, Bombay 7).
 BHAGINI SAMAJ BHULESHWAR CENTRE (Jai Hind Estate Building, 3 South Wing, 1st Floor, C.P. Tank, Bombay).
 BHAGINI SAMAJ CHANDABEN UDYOGA MANDIR (225, Khetwadi Main Road, Bombay).
 BHAGINI SEVA MANDIR (Sarajini Road, Vile Parle, Bombay 24).
 BHARATIYA KALA KENDRA (388, V. P. Road, Ahliya Bldg., Near Congress House, Bombay 4).
 BHARTIYA KALA VIKAS (Praashant, 17th Road, Khar, Bombay 21).
 BHARATIYA STREE SEVA SANGH (Bharatiya Vidya Bhuvan, Chowpatty, Bombay 7).
 BHATIA STREE MANDAL (Mangesh Shenoy Street, Fort, Bombay).
 BHATIA STREE HUNAR UDYOG GRIHA, (Kolbhat Lane, Kalbadevi, Bombay-2).
 BOMBAY SOCIETY OF MODEL ENGINEERS (Noble Chambers, Fort, Bombay-1).
 BOMBAY TECHNICAL SCHOOL (C/o Saraswati School, Girgaum, Bombay 4).
 BRAHMAN SABHA MAHILA SHAKHA (Shankar Wadi, 190, Charni Road, Bombay 4).
 CHEMBUR CHILDREN'S HOME (Chembur).
 CHEMBUR TAILORING COLLEGE (Near Bus Stand, Chembur Camp, Chembur, Bombay 38).
 COLLEGE OF CATERING AND INSTITUTIONAL MANAGEMENT, Andheri.
 CUTOCHI LOHANA SAHAKARI MANDAL, Mahila Hunnar Udyog Griha, Lakmi Narayan Lane, Matunga (C.E.), Bombay.
 DADAR ELECTRIC INSTITUTE (Bole Wadi, Near Portuguese Church, Dadar, Bombay 28).
 DAVID SASSOON INDUSTRIAL SCHOOL (83, Lady Hardinge Road, Mahim).
 DAWOODBHAI FARALBHAI MUSLIM WOMEN'S HANDICRAFT INSTITUTE (42, Fydhonie Road, Khadak, Bombay).
 ELECTRONIC INSTITUTE (864-C-D, Lodiwalla Joshi Compound, N. C. Kolhari Rd., Dadar, Bombay 28).
 ELPHINSTONE TECH HIGH SCHOOL, Dhobi Talao, Bombay 2.
 GHATKOPAR STREE HUNNAR UDYOG SHIKSHAN VARGA (Mahatma Gandhi Road, Ghatkopar).
 GOVERNMENT LEATHER WORKING SCHOOL (Bandra).
 GOVERNMENT TANNING INSTITUTE (Bandra).
 GUJARATI HINDU STREE MANDAL (Amroli House, Vithalbhai Patel Road, Bombay 4).
 GUJARATI HINDU STREE MANDAL (Hiravati Hall, Tagore Road, Santa Cruz, Bombay 25).
 GUJERATI MAHILA KALA KENDRA (Bombay City Social Edn. Committees), Bhawani Shankar Road, Dadar.
 HANDICRAFT TEACHERS' TRAINING COLLEGE (Elphinstone Technical High School Compound, Bombay 1).
 HIND MAHILA SAMAJ, Cutch Castle, Opp. Opera House, Bombay-4.
 INDUSTRIAL ARTS SCHOOL (282, Rane Building, Charni Road, Bombay 4).
 INSTITUTE INDO-PORTUGUESE (Kaverana Building, Dhobi Talao, Bombay 2).
 INSTITUTE OF RADIO TECHNOLOGY (Jestharam Bang, Tram Terminus, Dadar).
 JAIN MAHILA SAMAJ (Mangrol Mansion, Bora Bazar, Fort, Bombay 1).
 KALA MANDIR (C/o Girgaum New English School, Mughbhat Naka, Bombay 4).
 KANDIVLI STREE MANDAL, Ghodbunder Road, Kandivli.
 KANDIVLI TAILORING & EMBROIDERY INSTITUTE, Dhanmai Vidya Bhavan, Mathuradas Road, Kandivli.
 KASTURBA MAHILA MANDAL, Jivan Prakash, Tulsi Pipe Rd., Mahim, Bombay-16.
 KATCHI LOHANA MAHAJAN MAHILA MANDIR (Narottam Road, Mulund).
 KETKAR'S ART INSTITUTE, 255, Girgaon Road, Bombay 4.
 KSHATRAIKYA SAMAJ KALA KENDRA (Vannali Hall, Dadar, Bombay).
 LOHANA BHAGINI UDYOG GRIHA (286, Samuel Street, Vadgadi, Bombay 8).

LOHANA MAHILA PARISHAD MAHILA UDYOG GRIHA (Netaji Road, Mulund).
 LOKMANYA SEVA SANGH (Tilak Mandir, Vile Parle, Bombay 24).
 M. G. TEXTILE TECHNICAL SCHOOL (Damodar Thackersey Modi Hall, Parle, Bombay 12).
 MADARASHAH TAIYABI HUSSEIN CUTTING CLASS (Baiti Masjid, Doctor Street, Bombay 3).
 MAHILA KALA BHAVAN, Vinayak Bhavan, Opp. Diamond Talkies, Borivli.
 MAHILA KALA BHUVAN (D. L. Valdia Road, Rammurat Road, Dadar, Bombay 28).
 MAHILA KALA BHUVAN (Kunte Building, Vithalbhai Patel Road, Girgaon, Bombay 4).
 MAHILA KALA KENDRA (Tank Bldg., Bhuleshwar, Bombay-2).
 MAHILA KALA KENDRA (Santa Cruz, Bombay 23).
 MAHILA KALA KENDRA TARABEN UDYOGA GRIHA (Sa Niketan, Chadavarkar Lane, G. B. Road, Borivli).
 MAHILA KALA MANDIR, Brahmin Sabha Building, Underal Cross Road, Malad.
 MAHILA KALA MANDIR (Laxmi Sadan, Vithalbhai Patel Road, Bombay 4).
 MAHILA KALA NIKETAN (Gamdevi, Bombay 7).
 MAHILA SEVA MANDAL INDUSTRIAL CLASSES (Jubilee Bldg., Damodar Hall, Parle).
 MAHILA SEVA SADAN, Plot 205, Opp. Vadala Station, Vadala, Bombay-31.
 MAHILA PARISHAD, BHAIKAS LIBRARY SEWING CLASS (Versova Road, Andheri).
 MAHIM HINDU MAHILA SANGH (Amirani Mansion, Station Road, Mahim, Bombay 16).
 MALAD MAHILA SHIVAN VARGA, Shanti Sadan, Marve Road, Malad.
 MARINE COLLEGE & SEAMEN'S ORPHANAGE (C/o The Chief Estate Manager, Sir Mohd. Yusuf Trust, Novha House, 65, Queen's Road, Bombay 2).
 MODEL INDUSTRIAL INSTITUTE (388, Vithalbhai Patel Road, Near Congress House, Girgaon, Bombay 4).
 MODEL TAILORING COLLEGE (C/o Departmental Service Stores, Dadar, Bombay 28).
 MODERN TAILOR & CUTTER ACADEMY (Gool Mahal, Sleater Road, Bombay-7).
 MODERN TAILORING COLLEGE (Central Rly Stores Lane, Patli Chawl, Lower Parle, Bombay 18).
 MOHD HAJI SABOO SIDDIK TECHNICAL SCHOOL & INSTITUTE (8, Shepherd Road, Byulla, Bombay 8).
 MULODYOGA SHIKSHANA KENDRA (Lady Jamshedji Road, Municipal Upper Primary Marathi School, Ranade Road, Dadar, Bombay).
 MULUND COLONY NARI SHALLA (Mulund).
 NARI SHALLA (T. 44, Chembur Camp, Chembur, Bombay 38).
 NAVABHARAT AUDYOGIK VIDYALAYA (Girgaon Municipal Marathi Boys' School, Girgaon, Bombay 4).
 NAVA BHARAT KALA MANDIR (356, Bhai Jivanjee Lane, Thakurdwar, Bombay 2).
 NAVYUG TAILORING COLLEGE (Narvekar's Anant Nivas, Arthur Road, near Chinchpokli Bridge, Bombay 12).
 NEW PEDNEKAR TAILORING COLLEGE (Contractor Building, First Floor, 2nd Dubash Lane, V. P. Road, Bombay 4).
 NORTH INDIAN ASSOCIATION, LADIES SEWING CLASS (Mann Mahal, King's Circle, Bombay 19).
 NUTAN MAHILA KALA BHUVAN (Vishnu Sadan, Hindu Colony, 4th Road, Dadar, Bombay 14).
 PATHAN PRABHU MAHILA SAMAJ CUTTING AND SEWING CLASS (383, Thakurdwar, Bombay).
 PATUCK POLYTECHNIC, Nehru Road, Santa Cruz (East), Bombay-25.
 PEDNEKAR EMBROIDERY COLLEGE (172, Girgaon, Bombay 4).
 PRABHADVI SANKAR KENDRA, Mahila Mandal, Khed Galli, Prabhadevi Road, Bombay-28.
 PRIYATAM DHARMA SABHA (Sind Seva Samiti Nagar, Kolwade, Bombay 23).
 R. V. TECH HIGH SCHOOL, 17th Road, Khar, Bombay 21.
 RADIO ELECTRIC INSTITUTE (Lamington Chambers, Lamington Road, Bombay 4).
 SARVODYA WOMEN'S CO-OPERATIVE SOCIETY, 153-A, Jain Society, Sion, Bombay-22.
 SARASWAT BRAHMAN SAMAJ (Nikadwari Lane, Girgaon, Bombay 4).
 SARASWATI UDYOG MANDIR (5, Chunam Lane, Lamington Road, Bombay 4).
 SCHOOL OF PRINTING TECHNOLOGY, J J SCHOOL OF ART, Bombay.
 SEVA SADAN SOCIETY (Harvey Road, Gamdevi, Bombay 7).
 SEVA SAMAJ MARWADI BUNGALOW, Borivli.
 SHIVAN KALA MANDIR, Jamat Khana Bldg., Kuria, Bombay-37.
 SHRI JAIN MAHILA SAMAJ, Palanji Sojpal Chawl, "A" Block, Portuguese Church St., Dadar, Bombay.
 SHRI JAIN SHWETAMBER CONFERENCE UDYOGA GRIHA, Lotisha Jain, Lalbag, 109-117, C. P. Tank Road, Bombay 4.
 SHRI KOT HINDU STREE MANDAL 45, Modi Street, Fort, Bombay-1.

SHRI LAD MAHILA MANDAL (Lad Wadi, C. P. Tank), Bombay.
SIR J. J. COLLEGE OF ARCHITECTURE, J. J. School of Art Compound, Bombay.
SIR J. J. INSTITUTE OF APPLIED ARTS, J. J. School of Art Compound, Bombay.
SITA'S TAILORING INSTITUTE, Shrada Bhuwan, IInd Floor, Station Road, Kandivli.
ST. XAVIER'S COLLEGE TECHNICAL INSTITUTE (Cruickshank Road, Bombay 1).
STRAND TAILORING COLLEGE (Room No. 24, Abdulla Bldg., Ferguson Road, Lower Parel, Bombay 13).
SUDARSHAN ART TAILORING COLLEGE, Govind Bhuwan, Near Hari Niwas, Bal Govind Road, Mahim, Bombay.
USHA EMBROIDERY AND CUTTING CLASS, Mumtaz Mansil, Wodehouse Road, Colaba.
VANITA RAMAJ (National Library Hall, Bandra, Bombay 20).
VANITA VIKAS (120-33, Fanaswadi, Bombay 2).
VICTORIA JUBILEE TECHNICAL INSTITUTE (Matunga, Bombay 19).
VIDYUT VIDYALAYA (C/o Ram Mohan English School, Girgaum, Bombay 4).
VIENNA TAILORING COLLEGE (Haroon Rangari Chawl, Opp. Vijayanagar, Dadar, Bombay 28).
VIJAYA VIDYALAYA TAILORING CLASSES (Mohd. Mansion, Dr. Maheshwari Road, Bombay 9).
VILE PARLE GUJARATI MANDAL (Shradhdhanand Road, Vile Parle (East), Bombay 24).
YESHWANT TAILORING AND CUTTING COLLEGE (Opp. Post Office, Agra Road, Bhandup).
YOUNG MEN'S HINDU ASSOCIATION (Vithalbhai Patel Road, Bombay 4).
ZARAPKAR TAILORING COLLEGE (Bhavani Shankar Road, Dadar, Bombay 28).

BOMBAY DUMB & DEAF INSTITUTION

Kakadwadi, Girgaon, Bombay 4.

The above institution was started in 1925. Dumb and deaf boys and girls are taught here to write, read and sew. Admission is given to the needy irrespective of caste and creed. More than 500 students have had the benefit of this charitable institution so far. Almost all of them now earn their own livelihood.

Trustees : C. B. Joshi, K. M. Upadhye.

BRITISH INSTITUTE OF ENGINEERING TECHNOLOGY (INDIA) PRIVATE LTD.,

BRITISH INSTITUTE OF COMMERCE

359, Dadabhai Naoroji Road, Flora Fountain, Bombay 1.

The Institutes provide Correspondence Courses in all branches of Engineering and Commerce, both for professional examinations and for vocational training. Tack Personal Salesmanship and Sales Management Courses are also conducted under the auspices of the British Institutes.

Principal, R. P. Wellman.

DOCKYARD APPRENTICE SCHOOL

Indian Naval Dockyard, Fort.

Dockyard Apprenticeships are awarded to boys between 15 and 19 years of age who pass the all-India open competitive examinations and interviews held annually in June and July.

Officer-in-Charge, Commander W. P. Bapat, I.N.

Senior Instructor Officer, Lieut-Commander G. Dimri, I.N.

"DUFFERIN," TRAINING SHIP

Off Masgaon Pier, Bombay 10.

(Under the administrative control of the Government of India, Ministry of Transport & Communications).

The first Cadets joined the Training Ship in November 1927 since when 982 Cadets have been trained for a sea career; in addition between 1936 and 1949, 287 Cadets were trained for the Engineering Branch. Of the 982 Cadets, 359 are Officers in the Merchant Navy, 63 in the Indian Navy, 165 in the Port Services and 68 are serving in the auxiliary and other services. In addition, there are 134 Cadets in training on board the ship.

The age limits for admission are between 15½ years and 18 years on the 1st July of the year of entry. Annually about 80 Cadets for the Executive Branch are admitted for a 2-year course, terminating in the Final Passing Out Examination of the ship.

Total cost to the parent of training a boy is about Rs. 2,000 for the 2-year course. A number of scholarships are available both while under training on board and while serving as apprentices at sea; some are awarded on financial grounds and others on merit.

The Board of Control consists of a Governing Body with the Transport Minister to the Government of India as ex-officio Chairman.

GOVERNING BODY :—*Chairman*.—The Minister of State, Government of India, Ministry of Transport & Communications (ex-officio); *Members*.—The Director-General of Shipping (ex-officio); Rector, Bombay University (ex-officio); Amolakh Chand; M. A. Chidambaram; N. H. G. Grant; S. R. Rane; Sumati S. Morarji; Vasant J. Sheth; C. H. Bhabha; D. N. Mukherji; B. P. Singh Roy; C. Sankunni; J. D. Randeria; *Secretary*.—Captain M. F. S. C. Harvey, R.D., J.P. (ex-officio).

Captain Superintendent.—Captain M. F. S. C. Harvey, R.D., F.R.C.S., M.I.N., A.I.N.A., J.P.

ELPHINSTONE TECHNICAL HIGH SCHOOL

Cruickshank Road, Fort.

The institution is a Multipurpose High School imparting general education in English, Mathematics, Science, and Regional Languages and trains students for S.S.C. Examination with (1) Electrical and Mechanical Engineering and (2) Commercial subjects, such as typewriting, and accountancy, etc. The institution, also prepares S.S.C. or Non-S.S.C. students for Govt. Commercial Diploma and Certificate Examination at morning classes. Evening class for Industrial Workers to teach mathematics, technical drawing and trade theory in workshop practice have been started since 15-9-58.

Head Master, B. K. Khatri, B.M. (Mech.), B.M. (Elec.).

INDIAN INSTITUTE OF ARCHITECTS

Prospect Chambers Annex, Dr. Dadabhai Naoroji Road, Fort, Bombay 1.

President : B. D. Mhatre, F.I.I.A., G.D.Arch.; *Vice-President* : S.P. Satsangi, F.I.I.A., A.R.I.B.A.; *Jt., Hon. Secretaries* : C. S. H. Jhabvala, A.I.I.A., A.R.I.B.A., A. S. Patil, F.I.I.A., F.R.I.B.A.; *Hon. Treasurer* : H. N. Dailda, F.I.I.A., F.R.I.B.A.

INDIAN INSTITUTE OF BANKERS

State Bank of India Building, Apollo Street, Bombay 1.

Hon. Secretary.—A. J. Doctor.

INDIAN INSTITUTE OF ROAD TRANSPORT

Best House, P.O. Box No. 192, Fort, Bombay 1.

President : R. G. Saraiya; *Chairman* : M. G. Monani; *Hon. Secretaries* : N. Balkrishna, T. V. Ramanujam.

INDIAN INSTITUTE OF TECHNOLOGY

Dr. Annie Besant Road, Worli, Bombay 18.

The Institute is the second in the chain of four such institutes to be set up in the country. The first is located in Kharagpur.

The Institute will have a campus of over 550 acres of picturesque land surrounding the Powai Lake in Greater Bombay which has been placed at its disposal by the Government of Bombay. Permanent buildings of the Institute are at present coming up on this land.

The Institute will have facilities for training about 1,500 students—undergraduate, postgraduate and research. The Institute will provide training in several branches of engineering such as Civil, Mechanical, Electrical, Chemical, Metallurgical, etc. leading to Bachelors and postgraduate degrees.

The Institute will be fully residential and will not only provide hostel accommodation for all the students on the campus but will also provide accommodation to its staff.

The building scheme of the Institute includes laboratories for various departments, central workshop, central library, assembly hall, auditorium, administrative blocks, printing press, hostels for students, a hostel for officers and residential buildings for members of staff.

As a temporary measure the Institute is located in the buildings of the Silk and Art Silk Mills' Research Association at Worli. The Institute was expected to shift to its permanent location at Powai by June 1959.

The Institute has been functioning as an autonomous body governed by a Board of Governors under the Chairmanship of Mr. Kasturba Lalbhai since April 1958.

From the very beginning the UNESCO became associated with the Institute. As a result of an agreement with UNESCO twelve million rupees worth of equipment from U.S.S.R. will be supplied to the Institute. In addition, services of eighteen U.N.E.S.C.O. experts will be made available to the Institute during a five-year period.

Twenty fellowships for training of teachers in U.S.S.R. have also been sanctioned. An agreement for direct aid was also reached with the Government of U.S.S.R. for an equipment worth three-and-a-half million rupees.

Director : Brigadier S. K. Bose.

INDIAN TECHNICAL EDUCATION SOCIETY'S RADIO ELECTRIC INSTITUTE

Lamington Chambers, Opp. "The Naas", Bombay 4.

This Institute was started in April 1934 to fulfil a much-felt need in Radio Circles for good, trained Radio Experts. It gives students a thorough experience and training in courses preparatory to

- (i) Associate Membership Examinations held by (a) Institute of Engineers (India), (b) Institute of Electrical Engineers (London), and (c) British Institute of Radio Engineers.
- (ii) City and Guilds—London Institute Final Grade Examinations in (a) Electrical Engineering Practice, (b) Radio Service Work, and (c) Refrigeration Practice (Inter Grade).
- (iii) Government of India's I, II and Special Class Certificate of Competency Examinations in Wireless Telegraphy.
- (iv) Department of Technical Education, Government of Bombay Examinations in (a) Radio Engineering, (b) Radio Servicing, (c) Electricians, (d) Wireman Apprentices, (e) Wireless Telegraphy.

INSTITUTE OF SUPERVISORY TRAINING

121, Queen's Road, Bombay 1.

President: Kall H. Mody; Vice-President: S. N. Roy; Hon. Secy.: S. M. Bekal.

MOGAVEERA FREE INDUSTRIAL SCHOOL FOR WOMEN

46, Vir Nariman Street, Fort, Bombay.

M. H. SABOO SIDDIK POLYTECHNIC

8, Shepherd Road, Byculla, Bombay 8.

This institution is divided into Technical High School Section leading to the B.S.C. Examination and the diploma and certificate courses section providing instruction in the following courses recognised by the Department of Technical Education, Government of Bombay: (a) Diploma in Civil Engineering (3 yrs.); (b) Radio Servicing (1 yr.); (c) Advanced Certificate in Composing/Printing (3 yrs.); (d) Auto Mechanics (2 yrs.); (e) Turner's (2 yrs.); (f) Fitter's (2 yrs.); (g) L. G. Textile Weaving (2 yrs.); (h) Wireman's Apprentice (1 yr.).

Principal, S. S. Desnavi.

NAUTICAL AND ENGINEERING COLLEGE

Azad Maidan, Waudby Road, Bombay 1.
(Ministry of Transport, Government of India).

This College provides training facilities to officers of the Merchant Navy and akin services preparing for their examinations for Certificates of Competency conducted by the Ministry of Transport. Apart from these courses special Radar Observer's Courses are also conducted.

This College being a purely professional training Institution, undertaking post sea courses, admission is granted only to those who have completed the necessary sea service and/or workshop service and are eligible to appear for the Ministry of Transport Examinations.

Principal:—Captain P. Alexander, F.R. Met.S., M.I.N., Assoc.I.N.A., J.P.

ROBERT MONEY SCHOOL

Proctor Road, Bombay.

The School was converted into a Technical High School in 1948 preparing pupils for the Government Secondary School Certificate examination with technical subjects. A Primary School is attached to the High School.

Principal.—C. A. Christie, B.A., B.T.

SEA CADET CORPS

I.N.S. Kunjali, Sassoon Docks, Colaba, Bombay.

The Sea Cadet Corps is a Voluntary Youth Movement whose objects are to give boys and girls between the ages of 10 and 16 Sea Training and such other training as will develop in them qualities which make for good citizenship and to help boys wishing to make their career at sea achieve their ambition.

It had its origin in Karachi where the Corps was founded in 1939 by G. S. Ahuja who is now Captain Superintendent of the Corps and H. W. Oakley.

The Cadets attend instructional classes for six hours every week on Sundays and on Thursdays or Saturdays. Practical training is given on board various Naval Ships and Shore Establishments. Training Camps are held twice a year. Selected Cadets are sent out on Training Cruises abroad.

There are two courses in a year starting in February and August. Present strength of the Corps is 400.

Headquarters of the Corps are located on board I.N.S. "Kunjali". The Corps is controlled by the Sea Cadet Council.

President of the Council: Sri Prakasa, Governor of Bombay.

Senior Vice President: Y. B. Chavan, Chief Minister of Bombay.

Vice-Presidents: H. K. Desai, Education Minister, Bombay; P. T. Borale, Mayor of Bombay; B. D. Garware, the Sheriff; Rear Admiral A. Chakravarti, F.C.C.I.F.; Dr. Nagendra Singh, Director-General of Shipping; L. T. Gholap, Chairman, Bombay Port Trust; Major General T. B. Henderson Brooks, Area Commander; Rear Admiral B. A. Samson, Commandant N.D.A.; Group Captain A. C. Lal, Station Commander I.A.F.; Lalchand Hirachand, President, Indian Merchants Chamber.

Chairman: Rear Admiral B. S. Soman, Flag Officer, Bombay.

Secretary to the Council and Capt. Superintendent of the Sea Cadet Corps: G. S. Ahuja.

SIR JAMSETJEE JEEJEEBHOY SCHOOL OF ART Hornby Road, Fort.

Courses of study are held in the following subjects. The period covered and diploma are given within brackets: Drawing and Painting (Five years); Government Diploma in Drawing and Painting; Modelling and Sculpture (Five years); Diploma in Modelling; Arts and Crafts (Three years); Certificate course in Cabinet making, Engraving and Enamelling, Gold and Silver, Copper and Brass, Repousse Beating, House Decoration, Iron Work, Shape Making, Stone Carving, Wood Carving, Carpet Weaving; Teacher training (One year); Drawing Teachers' Examination).

In addition to the above courses, there are part-time classes (morning and evening) as detailed below: (1) Morning Art classes (Drawing and Painting & Modelling); (2) Evening Art classes (Drawing and Painting; Graphic Art).

A small Art Museum containing specimens of Indian and European art is attached to the school.

Dean.—J. D. Gondhalekar.

ST. XAVIER'S COLLEGE TECHNICAL INSTITUTE

Crickchank Road, Bombay 1.

The Institute, founded in 1937, offers the following Courses:

Certificate Courses.—(1) Wireman Apprentice; (2) Electricians; (3) Radio Servicing Day and Evening Classes; (4) Wireless Telegraphy Day and Evening Classes; (5) Cine Projectionist and (6) Radar Maintenance.

Diploma Courses.—Diploma in Radio Engineering and Sound Engineering.

The Director of Technical Education, Bombay State holds intermediate and final examinations and awards Certificates and Diplomas to successful candidates. The Ministry of Communications holds the C.O.P. examinations in Wireless Telegraphy in this Institute twice a year.

Rev. R. Conesa, S.J., Principal.

STATE COUNCIL OF TECHNICAL EDUCATION STATE OF BOMBAY.

O/o Department of Technical Education, Elphinstone Technical High School Building, Dhobi Talao, Bombay.

The functions of the Council are to advise Government and make recommendations regarding: the courses and standards of instruction in technical institutions; arrangements for the periodical inspection and examination of these institutions as regards their staff, accommodation, equipment, courses of study, methods of work and actual work done; the requirements of the State in Technical and Industrial Education; opening of new technical institutions; conditions of recognition of new institutions; payment of grants-in-aid to institutions; appointment of Boards of studies for the various branches of Engineering and Technology; arrangements for examinations; award of certificates and diplomas; preparation of textbooks on Technical subjects in Hindi and the regional languages and co-ordination work of the Trg. Institution centres under the Scheme for Technical and Vocational Training of Craftsmen.

Government have also vested the control of all Technical and Industrial Institutions or courses leading up to the Diploma standard (Non-University Grade) excluding courses falling under the control of the University in the Director of Technical Education, Bombay State, Bombay.

TEACHERS TRAINING ACADEMY

Bhanda New High School, Waudby Road, Bombay 1.

Director:—J. H. Trivedi, B.A. Secretary:—B. M. Kapadia, M.Sc., B.T.

VICTORIA JUBILEE TECHNICAL INSTITUTE

Matunga, Bombay 19.

(Central Technological Institute, Bombay).

The Institute offers courses leading both to Degrees and Diplomas in Technology. The curriculum is one of four years' duration for diplomas which are granted in the following technologies:—Mechanical Engineering (L.M.E.); Electrical Engineering (L.E.E.); Textile Manufactures (L.T.M.); Technical Chemistry (L.T.C.) and Civil and Sanitary Engineering (L.C. & S.E.) The No. of students admitted to each course is: Mechanical 40, Electrical 40, Textile 40, Civil & Sanitary 60 and Chemistry 20.

The Institute is affiliated to the University of Bombay for the Degree courses in Mechanical, Electrical & Civil Engineering, and Textile Manufactures. The number of students admitted to each course is very limited, viz.: Mechanical Engineering—85; Electrical Engineering—35; Civil Engineering—70; and Textile Manufactures—20.

New post-graduate courses in (i) Industrial Management, leading to the Diploma of D.I.M., (ii) Automobile Engineering leading to the Degree of M.E.(Auto), and (iii) Textile Technology leading to the Degree of M.Text. have been started. Number of students admitted to these courses are—25, 15 and 10 respectively.

In addition, the Institute runs a post-diploma course in Automobile Engineering (admission limit 20) and a For-manship & Supervisory Training Course (a part-time course—admission limit 40).

The Institute offers part-time courses for persons who are working in the industry. It conducts the City and Guilds of London Institute Technological Examinations. It also conducts examinations on behalf of the Institution of Mechanical Engineers and other similar professional institutions.

Principal.—B. Sen Gupta, B.Sc. (Engg.), M.I.E. (Ind.), M.I.Mech. E. (Lond.).

MISCELLANEOUS**ALLIANCE FRANCAISE DE BOMBAY**

French Bank Building, 21, Homji Street, Fort, Bombay.

The aim of the Alliance Francaise is to make known French language, thought and culture.

OFFICE-BEARERS.—S. P. Godrej, *President*; J. Sanna, *Secretary General*; E. Finot, *Honorary Treasurer*.

ANGLO-SCOTTISH EDUCATION SOCIETY

(See Cathedral & John Cannon Schools).

6, Outram Road, Fort.

Principal, B. Gunnery, M.A. (Oxon).

ANJUMAN-I-ISLAM

92, Dr. Dadabhoy Naorji Road, Bombay 1.

The Anjuman-i-Islam originally founded in 1875, is an association registered under the Indian Companies Act. It conducts:

4 Boys' High Schools; 1 Boys' Middle School; 1 Polytechnic; 2 Commercial High Schools, 2 Girls' High Schools with Primary Sections; 1 Urdu Research Institute for Post-Graduate Studies; 1 Public library and reading room; 1 Boys' Hostel; 1 Night School for adults; and 1 Children's Foundling Home; 1 Girls' Orphanage.

President.—Akbar A. Peerbhoy, Bar-at-Law; *General Secretary*.—S. S. Desnavi, B.Sc., B.T.

AYURVIDYA PRASARAK MANDAL

(Ayurvedic Hospital and College).

Near Sion Railway Station, Sion, Bombay 22.

President: Vaidya G. V. Purnanik; *Donor Trustees*: Bhagwandas Dharamdas; *General Secretary and Dean*: Dr. T. R. Naravane.

BALAK MANDIR

C/o P. K. V. Samaj, Gamdevi, Bombay 7.

The Institution was founded in June 1949 by the Pathare Khatritya Vakratwotefak Samaj to impart education to children through Montessori methods by trained teachers and is open to all irrespective of any caste or creed.

Chairman.—Manik Ramchandra Pathare.

Hon. Secretary.—Gangubai Vasant Dholekar.

Hon. Treasurer.—Purushottam Pandharinath Mhatre.

BANKERS TRAINING COLLEGE

Metropolitan Insurance House, 278, Dr. Dadabhoy Naorji Road, Bombay 1. Conducted under the auspices of the Reserve Bank of India.

Principal.—J. N. Ahuja.

BHARATIYA VIDYA BHAVAN

Chowpatty Road, Bombay 7.

Bharatiya Vidya Bhavan, a unique educational institution, conducts Shastri studies on indigenous lines, Indological research on lines developed in the West and the dynamic cultural activities of resurgent India looking forward to the future. It conducts (i) Sanskrit Mahavidyalaya for Shastri studies, (ii) Gita Vidyalaya for study of Hindu religion, (iii) Sambodhan Mandir for Post-graduate studies and research in Indology, (iv) Sarasvati Mandir for fine arts and handicrafts, (v) Sangit Shiksha Pith, (vi) Bharatiya Nartan Shiksha Pith, (vii) M. M. Arts College and N. M. Institute of Science, Andheri, affiliated to the Bombay University for B.A. & B.Sc. courses, and (viii) Publishes University Books, the *Bharatiya Vidya*, an Indological Quarterly, is publishing a *History and Culture of the Indian People* in ten volumes, a fortnightly English journal, "Bhavan's Journal" and *Bharati*, a Hindi monthly; incorporating "Kulapati's Letters on Life, Literature and Culture". It conducts, under the auspices of the Sanskrit Vishva Parishad, examinations in easy Sanskrit on all India basis and in which a large number of students appear. Its research work consists of 36 volumes published, an equal number under print and more under preparation. Many Chairs and scholarships are established for study and research. The library and museum have valuable collections. Many scholars of all-India reputation are on the staff.

Founder-President.—K. M. Munshi.

BOMBAY CITY SOCIAL EDUCATION COMMITTEE

Sales Tax Office Bldg., Swadeshi Mills Compound, Tata Road No. 2, Near Roxy Cinema, Charni Road, Bombay 4.

The Committee imparts Social Education including instruction in community and individual health, hygiene, civics and literacy both in theory and practice.

The Committee carries on the campaign in accordance with the Ten-Year Plan supplemented by "New Approach" for liquidating illiteracy within ten years. However the Plan could not succeed due to want of funds and to extension of its jurisdiction to Greater Bombay. It has now a Fifteen Year Plan for educating 6,75,000 illiterate men and women at an aggregate cost of Rs. 92,06,815.

The Committee has a Special Scheme for educating workers in mills and factories also.

Activities.—The Committee runs 2,000 literacy and 600 post literacy centres per year in Marathi, Gujarati, Hindi, Urdu, Kannada and Telugu; arranges cultural programmes every week; cinema programmes every day; circulates library boxes; science and other exhibitions for the enlightenment of the illiterate masses, cleanliness programmes. It has also established 14 Community Radio Centres in the labour areas. It has organised 2 Matru Vikas Kendras for women and a special Research Department for Social Education.

Finances.—The annual expenditure is about Rs. 8,50,000. The Government of Bombay pays 50 per cent of the annual expenditure and the Bombay Municipality contributes about 20 per cent. Amongst others, Sir Dorabjee Tata, Sir Ratan Tata Trust and N. M. Wadia Charities make regular yearly contributions. A special annual feature is the Social Education Week celebration to collect funds and to propagate social education.

Achievements.—In the last 19 years, the Committee has educated in literacy and general knowledge in Marathi, Hindi, Urdu, Gujarati and Telugu languages more than 888,695 adults of whom 76,536 were women at a total cost of Rs. 42,43,560. Adults are provided with all educational facilities free.

President.—S. L. Sillam (Speaker, Bombay Leg. Assembly); *Secretary*.—B. M. Kapadia.

BOMBAY CO-OPERATIVE SCHOOL

11, Bank Street, Fort, Bombay 1.

Principal: Prof. Ram Joshi.

THE BOMBAY EDUCATION INSTITUTE

Ganga Nivas, Banade Road,

Dadar (Western Railway), Bombay 28.

The Institute is recognised by the Government of Bombay and coaches up students for secretarial, banking, insurance, costing, accountancy, shorthand (Pitman's and Hindi), typewriting (English and Hindi), and Government diploma and certificate examinations. It holds morning and evening classes.

Sole Proprietor and Principal: H. A. Kirtane, B.A., LL.B.; *Secretary and Accountant*: B. B. Hyams.

BOMBAY EDUCATION LEAGUE

220, Girgaum Road, Bombay.

AIMS AND OBJECTS:—Educational uplift of masses backward in education. Branch of Marathi Mandir Ltd.

INSTITUTIONS UNDER CONTRACT:—Three High Schools and one Primary School in Bombay; one High School and one Training College at Akalkot; one High School at Jath; one Hostel for Students in Sholapur.

BOMBAY EDUCATION SOCIETY

Clare Road, Byculla.

The Bombay Education Society was founded in 1815 by Archdeacon Barnes for the maintenance and education of poor European and Anglo-Indian children in the city of Bombay.

President:—The Rt. Rev. the Bishop of Bombay; J. N. Cochrane Barnett, *Chairman, Managing Committee*; The Rev. C. W. Venkataramlah, *Hon. Secretary*; F. J. Thomas, W. I. Jacobs, *Hon. Treasurers*; W. B. Coles, B.A., *Headmaster, Barnes High School, Deolali, Nasik Dist.*; The Rev. K. F. MacGowan, M.A., *Headmaster, Christ Church High School, Byculla, Bombay.*

The Society owns and manages two schools—the Christ Church High School at Byculla and the Barnes High School at Deolali.

BOMBAY EDUCATIONAL LEAGUE

(Estd. 1933)

Shri Bhuvan, IIInd Floor,

160/20, Thakurdwar Road, Bombay 2.

The Institution runs the Colaba Night-School, and is attended by two hundred students from all communities who belong to the working class.

President:—Munaji J. Vaidya.

Chairman:—A. P. Pardeshi.

Vice-Presidents:—Yusuf S. Peerbhoy, Jamshedji Nusserwanji Gurdhar, Pandit Madhavacharya; **Secretary:**—J. T. Shirat; **Hon. Principal:**—S. C. Sheth.

BOMBAY HIGHER EDUCATION SOCIETY

208, Dinshaw Wacha Road, 2A, Mistry Court, Bombay 1.

AIMS AND OBJECTS: To provide and promote higher education by giving financial aid to the needy and deserving students belonging to the educationally-backward communities; to start, establish or conduct educational institution or institutions whenever it is possible; to promote science, literature and fine arts and to impart useful knowledge.

Chairman: Mustafa Faki; **Vice-Chairmen:** H. H. Ismail; Ismail M. Kanga; **Hon. Gen. Secy.:** Prof. M. K. Pathan; **Hon. Treasurer:** Z. G. Rangoonwala.

BOMBAY STATE CO-OPERATIVE UNION

Sir Vithaldas Thackersey Memorial Building, 9, Eakeshouse Lane, Fort, Bombay 1.

Apex body for Co-operative Education, Training and Propaganda in Bombay State.

Chairman: V. L. Mehta; **Vice-Chairman:** V. P. Varde; **Hon. Secretary:** D. D. Shah; **Chief Executive Officer:** G. C. Mukhtyar; **Asst. Chief Executive Officer:** T. N. Anantharama Iyer; **Editor, Bombay Co-operatives Quarterly:** R. M. Talpade.

THE BRITISH COUNCIL

REGIONAL OFFICE AND LIBRARY.—French Bank Bldg., 4th Floor, Hornji Street, Fort.

The British Council is a body under Charter to Her Majesty the Queen and is the principal agent of Great Britain for the development of cultural relations with foreign and Commonwealth countries. It works in some sixty countries, in addition to extensive activities in the United Kingdom itself.

Its purpose and work are to convey knowledge of Britain to other countries. This it does by encouraging the flow of knowledge, ideas, and understanding between the technical, professional, and learned men or societies of Britain and those of countries abroad; it assists in English language teaching and in the promotion of English studies; it awards a small number of scholarships each year for post-graduate study in Britain; it concerns itself with the welfare of overseas students in Britain, and maintains centres in most of the university towns; it arranges courses and programmes of a professional nature for visitors to Britain, and it has administrative and welfare responsibilities for fellows and scholars of the United Nations agencies, for Colombo Plan trainees, and for beneficiaries under the Commonwealth Universities Interchange Scheme.

The Bombay Library and Reading Room contains 17,000 books on literary and technical subjects, and a large collection of over 200 periodicals.

Headquarters: 65, Davies Street, London W. 1.

Headquarters in India: New Delhi.

Other Regional Offices in Calcutta and Madras.

CHANDRASENIYA KAYASTHA PRABHU EDUCATION SOCIETY, DADAR, BOMBAY

2 Bhaskar Bhanu Wadi, Gamdevi, Bombay 7.

President: Rao Bahadur B. H. Shringarpure, B.A., LL.B.; **Chairman:** V. G. Mokaishi, B.Com.; **Secretary:** V. S. Chaubal, B.A. (Hons.), B.T., M.Ed.

THE REV. D. G. D'ALMEIDA EDUCATIONAL FUNDVictoria Cottage, 38 St. Sebastian Colony, Bandra, Bombay 20.
Secretary: D. E. Pereira, A.C.R.A.**THE DADAR PARSEE YOUTHS' ASSEMBLY**

Pervis Hall, 800, Jam-e-Jamshed Road, Parsee Colony, Dadar.

S. S. C. & Pre-S. S. C. Classes, Commercial Classes, Hindi Classes, Shorthand & Typing Classes, Lending of Books to students and Small Industries.

President: R. J. Mithaiwala, B.A., LL.B.; **Vice-President:** R. B. Kakalia; **Hon. Secretary:** D. D. Karadia, B.A., LL.B., Advocate, High Court.

THE DAWOODBHOY FAZALBHOY MUSLIM EDUCATIONAL TRUST & NURSERY SCHOOL

42, Pydhoni Road, Bombay 9.

Trustees: Mrs. Fatmabal D. Fazalbhoi, E. A. Karim Panjoo, Y. C. Chinwala and D. G. Esmail.

DEODHAR'S SCHOOL OF INDIAN MUSIC

Mody Chambers, French Bridge Corner, Bombay 4.

Principal: Prof. B. R. Deodhar; **Secretary:** P. M. Joglekar.

DEVGAD EDUCATION BOARD

C/o Dr. M. V. Rege, Kandewadi, Girgaum, Bombay 4.

President: B. D. Sawant; **Chairman, Executive Council:** B. D. Chirputkar, B.Com., LL.B.; **Principal, Sheth M. G. High School, Devgad:** S. A. Tenkhe, M.A., M.Ed., R. B. Pandit.

DEVIDAS JIVANDAS SANSKRIT PATHSHALA

120, Gulabwadi, Bombay 4.

Free Teaching Classes of Sanskrit Language for all and Free Boarding and Lodging for Brahman students.

FIDAI ACADEMY & GIRLS EDUCATIONAL INSTITUTE

Fidai Baugh, Maratan Road, Andheri (Bombay).

Hon. Secretary: Kasamali S. Jagmagia; **Hon. Jt. Secretary:** Samsudin K. Budhwani.

GENERAL EDUCATION ACADEMY

(Estd. 1933)

65, Babu Genu Road, Bombay 2.

A private organization for the promotion of Education among the masses. Thesis on educational matters particularly Hindi translation of scientific and technical subjects considered for publication. Rare books and hand written manuscripts bought, sold and exchanged.

Director:—Hari Prasad Gupta.

THE GENERAL EDUCATION INSTITUTE

Dadar, Bombay 28.

OBJECT: Promoting education among the masses.

The Institute at present conducts the following institutions:—

Chhubildas Lulloobhoi Boys' High School, Dadar, Bombay; High School, Kalyan; New High School, Kalyan; M. H. High School, Thana; Native Institution, Uran, District Kolaba; Girls' High School, Dadar, Bombay; English School, Mahim, Bombay; Paraharam Ramnarayan High School, Bhivandi, District Thana; S. V. Joshi High School, Dombivli, District Thana; High School, Kuria; Chhubildas Lulloobhoi Primary School, Dadar, Bombay.

President:—The Hon'ble Shri Justice P. B. Gajendragadkar.

Vice-Presidents: R. G. Gokhale, N. V. Modak, W. P. Oka.

Chairman, Board of Directors: G. S. Divan.

Secretary:—S. V. Kulkarni.

GOKHALE EDUCATION SOCIETY

Vithalbhai Patel Road, Bombay 4.

The objects of the Society are:—1. To start, control and maintain institutions imparting education to students with a view to making them ideal citizens. 2. To encourage and facilitate among the life-workers of the Society the study of educational problems in India and other countries. 3. To carry on educational propaganda by means of lectures, publications and other means. The present number of life-members is eleven.

The affairs of the Society are managed by a Senate which consists of all the life-members of the Society, retired life-members and representatives of the Staff.

GOLWALLA'S FORT TUITION CLASSES

Bombay Mutual Building, Dadabhai Naoroji Road, Fort, Bombay.

PRINCIPAL AND PROPRIETOR.—Erush B. Golwalla.

GOVT. TANNING INSTITUTE

Khar (East), Bombay 21.

Tanning Expert & Superintendent: N. N. Guha, *Asst. Superintendent*: V. G. Damle.

GOVERNMENT TRAINING INSTITUTE FOR PHYSICAL EDUCATION

Kandivali, Bombay 47.

The institution is located on a hill a little more than a mile from Kandivali Station on the eastern side.

The academic year is from 1st August to 30th April.

Admission is open to university graduates. The institution is wholly residential with separate accommodation for 80 men and 20 women.

Diplomas are awarded to the successful candidates after an examination.

Principal, D. B. Kothiwale, B.A., M.Ed., F.E. (Mad.).

HIND EDUCATION SOCIETY

C/o Dr. S. J. Patkar, Dossa Bldg., Nowrojee Hill Road No. 7, Bombay, 9.

President: P. G. Manjrekar; *Vice-President*: S. M. Thakare, J.P.; *Secretary*: Dr. S. J. Patkar, M.B.B.S., J.P.

THE INDIAN INSTITUTE OF EDUCATION

Jinnah Hall, First Floor, Congress House, Girgaum, Bombay 4.

An Educational Research Institute—(i) Guides post-graduate students of the University of Bombay, (ii) Publishes educational researches.

Chairman: N. P. Samant, B.A., LL.B.; *Hon. Secretary*: V. P. Khanolkar, M.A. (London).

INDIAN STATISTICAL INSTITUTE

(Bombay Branch)

1st Floor, Jan Mansion, Sir P. M. Road, Bombay 1.

Telegrams: 'ISIBOM'

OFFICE-BEARERS:—Dr. Jivraj N. Mehta, *President*; I. S. Vaidyanathan, R. G. Saralva, Dr. N. S. R. Sastry, *Vice-Presidents*; M. A. Telang, *Secretary*; V. V. Divatia, *Jt. Secretary*; Dr. D. T. Lakdawala, *Treasurer*.

INSTITUTE OF SCIENCE

Mayo Road, Fort, Bombay.

Director: Dr. D. V. Bal; *Professor of Bio-Chemistry*: Dr. (Mrs.) Kamala Sohoni; *Professor of Mathematics*: Dr. P. R. Masani.

INSTITUTE OF SECRETARIES

Lentini Chambers, Dalal Street, Fort. (Tel. No. 253426).

Chairman—C. C. Sutarla, F.C.S., F.A.I.A. (Lond.), A.I.O.S. (India).

Hon. Secretary.—Dr. G. M. Pandya, M.A., Ph.D.

Hon. Treasurer.—P. L. Kapadia, B.Com., F.C.A.

THE INSTITUTE OF VOCATIONAL GUIDANCE

8, Cruickshank Road, Elph. Tech. High School Bldg., 1st Floor Bombay 1.

JAIN EDUCATION SOCIETY

14, Marban Road, Fort, Bombay 1.

Manager: Bachubhai P. Doshi, B.A.; *Secretaries*: Chimanlal C. Shah, M.A., LL.B., Solicitor; Durlabhji K. Khetani.

KARNATAK PROGRESSIVE EDUCATION SOCIETY BOMBAY

4 (105), Sewree Wada's North Estate, P.O. Wadala, Bombay 31.

The object of the Society is to advance loan scholarships to poor and deserving scholars prosecuting higher studies in Engineering, Medical and other Technological Institutions. It is open to scholars of all Communities in the Kannada speaking areas of the Indian Union or whose parents originally belonged to such areas.

Loan Scholarships granted—to 160 scholars to the extent of Rs. 1,11,500 till 30-6-1957. Reserve Fund:—Rs. 55,000 till 30-6-1957.

President: Mr. Justice K. G. Datar; *Managing Committee*: *Chairman*: R. J. Deshpande; *Treasurer*: R. L. N. Iyengar; *Hon. Secretary*: K. S. Bhujang.

KISHINCHAND CHELLARAM (EDUCATIONAL) TRUST

Gardar House, Dhobi Talao, Bombay 2.

OBJECTS.—To spread and promote and/or provide for general Commercial, Industrial or Technical Education by providing for or granting scholarships, studentships, stipends, travelling fellowships or periodical or occasional monetary help or assistance to deserving students.

TRUSTEES.—Hotchand Gopaladas Advani, Bar-at-Law; K. Lokumal; T. Murlil; Purshotamdas H. Sabhani; Vishindas Gianchand Motwani; Watumal Jhamandas; Gobindram Hassaram; R. B. Lalchand Watanmal; Manghanmal Udham; T. Pishu; K. D. Kirpalani.

K. R. CAMA ORIENTAL INSTITUTE

185, Apollo Street, Fort, Bombay.

OBJECTS.—The Institute has been founded with the object of promoting and advancing oriental studies and offering facilities to the existing societies and institutions already engaged in such work, and if necessary by founding scholarships for the purpose of encouraging and advancing oriental studies. The Institute publishes a journal periodically. Life-membership subscription, Rs. 100, annual membership, Rs. 10.

PRESIDENT.—Sir Rustom Masani, Kt., M.A.

TRUSTEES.—Sir R. P. Masani, Kt., M.A.; Rustom J. J. Modi, Bar-at-Law; J. H. Cama, B.A.; K. H. Cama; N. H. Tata and T. D. Desai, B.A., LL.B.

JR. HON. SECRETARIES.—J. C. Tarapore, M.A., LL.B.; Dastoor Nawrooz D. Minochehr-Hojaji, B.A.; *Librarian*, K. P. Dastur, M.A.

LOCAL SELF-GOVERNMENT INSTITUTE

11, Elphinstone Circle, Bombay 1.

Association of Municipalities and other Local Bodies in Bombay State, established in 1927.

Conducts training classes for Local Self-Government Service, awards L.S.G. Diploma, recognised by the Ministry of Health and various State Governments, co-operates with the All-India Institute of Local Self-Government in conducting the Sanitary Inspectors' Training Classes and its other activities.

Maintains a big library and runs a book depot of publications on Local Self-Government subjects, conducts four journals in English, Marathi, Gujarathi and Hindi.

Tenders free legal and technical advice to Local Bodies, acts as Central Stores Purchasing Agency, holds periodical Conferences of Local Bodies, and renders other numerous services.

THE M. F. CAMA ATHORNAN INSTITUTE

Office: 24-26, Dalal Street, Fort, Bombay 1.

Institute: Cama Road, Andheri, Bombay 41.

President: J. H. Cama; *Secretary*: J. B. Mistry; *Principal*: Dr. P. K. Anklesaria.

MANAGEMENT TRAINING CENTRE

449, Sardar V. Patel Road, Bombay 4.

Directors : Dr. S. Kumar Jain; N. H. Athreya; *Secretary* : N. S. Gopal Krishnan.**MODEL ART INSTITUTE**

Noor Building, Opp. W. Rly., Dadar Station, Bombay 28.

Principal : M. S. Joshi, G.D.Art., A.M.; *Secretaries* : B. L. Samudra and R. P. Joshi, A.M.**OCCUPATIONAL THERAPY TRAINING CENTRE & SCHOOL**

K.E.M. Hospital, Parel, Bombay 12.

In-Charge : Mrs. Mira M. Shahani.**PARSEE GIRLS' SCHOOL ASSOCIATION**

42, New Marine Lines, Bombay 1.

This Association conducts two schools. Bai Bhikhaijee Shapoorjee Bengallee Girls' High School, Fort, and Bai Maneckbai Nowroji Gamadia Girls' High School.

Hon. Secy., Mrs. J. B. Godrej.**PEOPLE'S EDUCATION SOCIETY, BOMBAY**

Anand Bhavan, Near Flora Fountain,

Dr. Dadabhai Naoroji Road, Fort, Bombay 1.

The Society was founded in 1945 by the late Dr. B. R. Ambedkar. Its object is to bring college education within the reach of the middle and poorer classes. It gives special facilities to the Scheduled Caste and Backward Class Students.

GOVERNING BODY.—*Chairman* :—R. E. Bhole, B.Sc., LL.B.; *Deputy Chairman* : Barrister M. B. Samarth; *Members* : D. G. Jadhav, B.A., LL.B.; Rao Bahadur S. K. Bole; Prof. Y. G. Rao, B.A., LL.B., (Cantab.), Bar-at-Law, O. A.; C. N. Mohite; M. V. Donde, B.A.; B. H. Varale, G. T. Parmar; H. K. Solanki, B.A., LL.B.; S. A. Upasham.*Secretary* :—K. B. Talwatkar, M.A.

The Society runs four colleges, one High School and one Night High School. (1) Siddharth College of Arts and Science, Bombay. (2) Siddharth College of Commerce and Economics, Bombay. (3) Milind Mahavidyalaya, Aurangabad, (4) Siddharth College of Law, Bombay. (5) Milind Vidyalaya, Aurangabad and (6) Siddharth Night High School, Bombay.

The Society also maintains a Backward Class Hostel at Pandharpur and gives grants to Backward Class Hostels at Manmad, Nandurbar, Chalisgaon, Sangamner, Dapoli, Dhokla, Nipani, Patan and Poona.

Executive Committee : R. R. Bhole, B.Sc., LL.B. (*Chairman*); D. G. Jadhav, B.A., LL.B.; Prof. V. G. Rao, B.A., LL.B. (Cantab.), Bar-at-Law, O.A.; R. D. Bhandare, M.A., LL.B. (Bombay); S. S. Gaikwad, B.A., B.T., M.Ed.; Dr. H. R. Karnik, M.A., Ph.D., J.P. (*Principal*); K. B. Talwatkar, M.A. (*Registrar*).**RAO BAHADUR S. V. RAJADHYAKSHA
G. S. B. FOREIGN EDUCATION SOCIETY**

Chikiteaka Samuha Building, Kandewadi, Bombay 4.

FUNDS.—The Permanent Fund of the Society amounted to Rs. 2,14,264 on 31st December 1957.**LOAN-SCHOLARSHIPS GRANTED.**—53 Scholars have been granted loan-scholarships of the aggregate sum of Rs. 2,55,250 during the last 35 years.**MANAGING COMMITTEE** :—*Chairman* :—G. P. Murdeshwar; *Vice-Chairman* :—S. S. Naik; *Hon. Treasurer* :—V. M. Telang; *Hon. Secretaries* :—K. S. Laud and Y. H. Sukthankar.**SARASWAT VIDYARTHI SAHAYAK MANDALI***Office.*—Chikiteaka Samuha Building, Kandewadi, Bombay 4.**WORK DONE.**—The Institution has advanced in all nearly Rs. 5,38,312 to 2,255 poor and deserving students from all parts of the country to get an education and has built up a Reserve and Endowment Fund of Rs. 6,16,589.*Trustees* :—Dewan Bahadur Dr. J. S. Nerurkar; S. A. Sabnis; Y. H. Sukthankar.*Chairmen* :—G. H. Jambotkar.*Hon. Secy.* : J. S. Rege.*Hon. Treasurer* : M. S. Kear.**SCHOOL OF DRAMATIC ARTS**

Bhulabhai Memorial Institute, 89, Bhulabhai Desai Road, Bombay 26.

The School was founded and is managed by the Theatre Unit. It consists of two class rooms, library, an open air theatre and a workshop with electrical and mechanical tools. It has the latest teaching aids, two tape recorders, an epidiascope and a film projector.

Sessions begin in July. The School provides a 2-year Course in Dramatics (theory and practice) plus an optional 1-year Post Graduate Course. The syllabus covers, in addition to Acting, the History of Eastern and Western Drama, Speech training, and Movement (including Mime). Classes are held in the evenings only, from 6-30 p.m. to 9 p.m. and are conducted in English. Hindi is compulsory.

The Staff consists of the Principal, who is the Chief Instructor in Acting and Production, a Teacher of Speech, an Assistant Teacher of Acting and a Lecturer on Western Drama.

Fees.—Rs. 20 per month, including vacations.*Principal.*—E. Alkazi.**SHRI MAHAVIRA JAINA VIDYALAYA**

Gowalla Tank Road, Bombay 26.

On the advice and guidance of Acharya Shri Vijayavallabhasuriji was started an Institution, which amongst its multiple aims includes founding useful secular and religious institutions, giving special facilities to students for prosecuting their studies in different colleges and universities as well as encouraging studies of Sanskrit and Prakrit literature.

In furtherance of the above objects, a *Vidyarthigrha* was started, at Bombay in 1915.**SHRIMALI BRAHMAN SAMAJ**

129, Gulabwadi, Bombay 4.

Free distribution of Books for study of School and with scholarships for study of college to the students of Shrimali Brahman.

TATA INSTITUTE OF FUNDAMENTAL RESEARCH

Apollo Pier Road, Bombay 1.

The Tata Institute of Fundamental Research was established jointly by the Government of Bombay and the Trustees of the Sir Dorabji Tata Trust in June 1945. The object of this all-India Institute is fundamental research in Physics, Mathematics and allied sciences. The Institute is permanently recognised by the University of Bombay as a constituent recognized institution for post-graduate research in physics and mathematics.

Though, at its inception, the Government of India was not directly concerned with the Institute, it has provided grants since 1948. In view of the increasing financial assistance given by the Government of India, which latterly contributed over 90% of the Institute's budget, a tripartite agreement was entered into between the Government of India, the Government of Bombay and the Sir Dorabji Tata Trust, and came into force on April 1, 1956. This agreement, under which the Government of India recognises the Institute as the National Centre for advanced study and fundamental research in nuclear science and mathematics, provides for its administration by a council consisting of representatives of the 3 parties, the Government of India having a major voice.

Till the Atomic Energy Establishment of the Department of Atomic Energy was created, the Department recognised the Institute as the centre for all large-scale projects in nuclear research and entrusted to it important research projects in which it was interested. With the creation of the Atomic Energy Establishment such projects have been taken over by the Establishment; however, pending the construction of its own laboratories at Trombay, facilities are being provided at the Institute to divisions of the Engineering and Physics Groups of the Establishment.

COUNCILJ. R. D. Tata (*Chairman*); Dr. H. J. Bhabha, D.Sc., F.R.S., F.N.I.; P. N. Thapar, I.C.S.; N. N. Wanchoo, I.C.S.; V. T. Dehejia, I.C.S.; Professor R. Choksi, M.A.

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E. C. Allardice, I.C.S. (Retd.), *Deputy Director (Administration)*; N. R. Puthran (*Registrar and Secretary to the Council*).

TATA INSTITUTE OF SOCIAL SCIENCES

Sion-Trombay Road, Chembur, Bombay 38.

Board of Trustees.—Lady Ratan Tata; Sir Homi Mody, K.B.E. (*Chairman*); J. B. D. Tata; Dr. John Matthai; A. D. Shroff; N. H. Tata; Professor E. Choksi (*Managing Trustee*).

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The Tata Institute of Social Sciences was founded in June, 1936—then known as Sir Dorabji Tata Graduate School of Social Work—by the Trustees of the Sir Dorabji Tata Trust. Admission to the Institute is open only to graduates of recognised universities. The Institute offers a two years' training in professional social work on the successful completion of which a Diploma in Social Service Administration is awarded. The Courses of specialization include Labour Welfare and Industrial Relations, Family and Child Welfare, Medical and Psychiatric Social Work, Community Organisation and Development, Criminology, Juvenile Delinquency and Correctional Administration, Social Research, Rural Welfare and Tribal Welfare.

The Institute also offers one-year programmes of training in Applied Psychology, Social Research and Tribal Welfare and six months' programmes of training in (1) Criminology, juvenile delinquency and correctional administration, (2) Organisation of Community Welfare Centres, (3) Rural Welfare and (4) Labour Welfare and Management.

In addition to the training programmes, the Institute maintains a Department of Research which promotes research in social problems. Under the auspices of the Department of Publications *The Indian Journal of Social Work* is published every quarter and edited by the Director of the Institute.

Among other activities of the Institute are the Child Guidance Clinic and a special school for bedridden children located in the Jerbai Wadia Hospital for Children, Parel, Bombay, and a community welfare centre in Worli, Bombay. Psychological and Group Work Laboratories have also been equipped to provide facilities for practical work.

Director.—Professor A. R. Wadia, M.P.

Registrar.—L. S. Kudchedkar, M.A.

UNIVERSITIES INFORMATION BUREAU

University of Bombay, Fort, Bombay 1.

Secretary.—K. M. Ramadiah, M.A., Dip. Lib.

The Bureau collects and supplies information in regard to Indian and Foreign Universities, other educational institutions, training centres or industrial works and aids students to secure admission to institutions in foreign countries.

UNIVERSAL HEALTH INSTITUTE, BOMBAY

Office: Buddha Bhavan, Outram Road, Fort, Bombay 1.

Hospital: Neelam Mansion, Lamington Road, Bombay 4. Panch Karma and Check-up Centre, Govt. Hutment, Behind Kaiwalya Dham, Marine Drive.

Scientific investigation and medical aid.

President: Morarji B. Desai; *Chairman*: Gulzaril Lal Nanda; *Hon. Secretary & Treasurer*: Ishwarilal P. Parekh, M.L.A.; *Hon. Secretary*: B. S. Furi.

All donations to the Institute & Hospital are free of Income Tax under item No. 484 allotted to the Institute under Sec. (1) of Sub-Sec. 15-B under Notification Nos: 18 & 48 of 25-3-52 & 18-8-54.

THE VAISHYA VIDYA VARDHAK SAMAJ, BOMBAY

33 G, Vitthal Mandir, Mughbat Cross Lane, Bombay 4.

Educational Charitable Institute.

President: A. S. Shetye; *Secretary*: P. V. Mapuskar; *Treasurer*: D. B. Pathare.

WORKERS' EDUCATIONAL SERVICE LEAGUE, BOMBAY

Municipal Central Urdu School Bldg., New Nagpada.

This Institution conducts a full-fledged free Night High School at the Municipal Central Urdu School Building, New Nagpada, under a trained and qualified staff. It also runs a Commercial Class under a qualified Instructor.

YOUNG MEN'S EDUCATION SOCIETY

179, Basargate Street, Bombay.

AIMS AND OBJECTS.—To conduct the Young Men's Free Night High School and to impart free education irrespective of caste or creed.

Founder.—Y. P. Puthran.

President.—L. Y. Sallan; *Vice-President*.—S. T. Suvarna; *General Secretary*.—N. B. Mendon; *Asst. Secretary*.—R. K. Suvarna; *Hon. Gen. Treasurer*.—P. A. Karkera; *Officer-in-Charge*.—P. A. Kunder.

HOSPITALS, MATERNITY AND NURSING HOMES, CONVALESCENT HOMES & SANATORIA, CLINICS, DISPENSARIES IN GREATER BOMBAY

HOSPITALS
ADAMS-WYLIE MEMORIAL HOSPITAL
Wylie Road, Post Jacob Circle.

ADATIA'S GENERAL AND MATERNITY HOSPITAL
Jai Hind Estates, Bhuleshwar, Bombay 2.

AJINKYA MATERNITY AND GYNAECOLOGICAL HOSPITAL
204, Charni Road, Bombay 4 and Ajinkya Mansion, Hughes Road, Bombay 7.
Superintendent: Dr. Y. N. Ajinkya, M.M. (Lond.), F.R.C.S. (Edin.), F.R.C.O.G. (Lond.), D.Ch., R.C.P.S. (Eng.).

AJINKYA'S MATERNITY AND GYNAECOLOGICAL HOSPITAL
Khar Extension, 11th Road, Bombay 21.
Superintendent:—Dr. Y. N. Ajinkya.

ALBLESS OBSTETRIC HOSPITAL
Cruckshank Road, Fort.

AYURVEDIC HOSPITAL
Savtribhuvan, 87, Mughbhat Street, Bombay 4.
General Secretary:—Dr. T. R. Naravane, A.V.V., L.M.S.G.S.
DOCTORS AND VAIDYAS:—Vaidya G. M. Abhyankar, *Physician*; Vaidya N. H. Joshi, *Physician*; Dr. S. J. Desai, D.A.S.F. (Bom.), *Resident Medical Officer*; Dr. D. G. Shidore, D.O.P.S., *Skin Specialist*; Dr. T. R. Naravane, L.M.S.G.S., *Midwifery*; Dr. B. N. Zaveri, D.O. (Bom.) and Dr. R. K. Vaze, D.O.M.S., *Eye Specialists*; Dr. V. N. Navalkar, M.B.B.S., *Physician*; Dr. Mrs. Tilak, M.D., *Specialist in Midwifery*; Vaidyas:—S. T. Dhamankar, T. S. Shirodkar. *Anaesthetist:* Dr. D. S. Joglekar.

There are also the following branches at Slon, Bombay 22:
1. Shudha Ayurved Maha Vidyalaya (Govt. Recognised).
2. Sheth Ramchodas Varjeevandas Ayurvedic Hospital.
3. V. M. Charitable Ayurvedic Dispensary.

BAI JERBAI WADIA HOSPITAL FOR CHILDREN
Parel, Bombay. (Tel. 60494.)
Board of Management.

Neville N. Wadia (*Chairman*), Sir Jamsetjee Jejeebhoy, Bart., H. B. Batlivala, K. J. Khamata (representatives of Nowrojee Wadia & Sons Pr. Ltd.); Dr. S. B. Wadia, M.B.B.S., M. F. Hom. (Lond.), S. B. Mahadeshwar, Dr. V. S. Ranadive, Dr. V. K. Toraskar, M.B.B.S., (representative of Bombay Municipality).

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BAI MOTLIBAI AND SIR D. M. PETTIT HOSPITALS
Masagon, Bombay.

These Hospitals are exclusively meant for the treatment of diseases of women (Obstetrics and Gynaecological). The hospitals accommodate 96 beds (56 obstetrics and 40 gynaecological) and are open to all nationalities.

Superintendent:—S. J. Mehta, F.R.C.S.; *Honorary Consulting Physician:*—Major S. B. Mehta, F.R.C.S.E., L.M.S. (Edin.), Dr. V. N. Shirodkar, M.D., F.R.C.S.; *Hon. Medical Officer and Professor of Obstetrics & Gynaecology:*—Dr. (Smt.) J. M. Desai-Souza, M.D., F.R.C.S.E.; *Hon. Medical Officers for Obstetrics and Gynaecology:*—Y. N. Ajinkya, M.M., F.R.C.O.G., F.R.C.S.E.; Dr. C. G. Saraiya, M.D., M.S., F.R.C.S.E.; *Hon. Assistant Obstetric Physicians:* Dr. O. J. Shah, M.D., F.R.C.S.E.; Dr. (Smt.) H. B. Banaji, M.D., F.R.C.S.E.; Dr. T. P. Shah, M.D., F.R.C.S.E.; *Hon. Assistant Obstetric Surgeon:* Dr. M. K. Menda, M.D.; *Hon. Assistant Obstetric Physician, Ante-natal side:* Vacant; *Resident Medical Officer:*—P. D. Patil; M.B.B.S., B.M.S. Cl. II.

BAI SAKARBAI DINSHAW PETTIT HOSPITAL FOR ANIMALS
Govt. Gate Road, Parel, Bombay 12.

President:—Sir Dinshaw Petit, Bart.
Vice-President:—Miss S. K. Powvala.
Secretary & Treasurer:—D. M. Mehta.

BAI YAMUNABAI L. NAIR CHARITABLE HOSPITAL

Dr. A. L. Nair Road, Bombay 8.

The Bai Yamunabai L. Nair Charitable Hospital provides free medical aid without distinction of caste, creed or colour. It also provides clinical facilities to the students of the T. N. Medical College. There are about 326 beds.

Dean:—Dr. Louis Montelero, M.D.

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DR. BALABHAI NANAVATI HOSPITAL
Ghodbunder Road, Vile Parle West (Opp. Juhu Aerodrome), Bombay 24.

Provision of free gynae, maternity, medical and surgical treatment for poor patients, to all communities; facilities for special rooms also available. Deserving patients are treated at concessional rates. Fully equipped laboratory, X-ray, dental and ophthalmic departments. Casualty department open at all hours. (Tel. 88568).

**BOMBAY MUNICIPAL CORPORATION,
DR. BHAJEKAR HOSPITAL**

Dr. Bhajekar Street, off Sardar Patel Road, Bombay 4.

BHATIA GENERAL HOSPITAL
Chikalwadi, Tardeo Road, Bombay 7.

BOMANJEE DINSHAW PETTIT PARSEE GENERAL HOSPITAL

Bomanji Pettit Road, Cumballa Hill, Bombay 26.

Erected for the use of Parsees from subscriptions by the Parsees.
President:—Maneckji D. Pettit.
Vice-President:—H. P. Dastur, Kt. *Honorary Medical Secretary:*—Dr. H. S. Mehta, M.S., F.C.P.S., J.P.

BOMBAY HOSPITAL

12, Marine Lines, Bombay 1.

This hospital was opened in 1950 and is run by the Bombay Hospital Trust, a public charitable institution. Hospital has out-patient and in-patient wards.

Total number of beds: 288. In addition, there are also 76 beds in Nursing Home Section, looked after by the Resident Staff of the Dept. concerned. In General Wards 100 beds are intended to be increased to allot more beds in General Surgery, Pediatrics and E.N.T. Units, and create new Orthopaedic and Thoracic Surgery Units.

Total No. of daily inpatients: 197 (1956), out-patients: 382 (1956). Total No. of operations performed in 1956: 8,468.

Hon. Physicians: Dr. A. S. Krulkar, M.D. (London), Dr. D. Patel, M.D. (Lond.), M.R.C.P. (Lond.), F.C.P.S. (Bom.), Dr. A. J. Kohliyar, B.A., M.D. (Lond.), M.R.C.P. (Lond.), Dr. K. K. Datey, B.A., B.Sc., M.D. (Bom.), M.R.C.P. (Lond. and Edin.), D.C.H. (Lond.), D.T.M. & H. (Lond.), F.C.P.S., Dr. C. V. Patel, M.R.C.P. (Lond.), D.O.M. (Eng.), Dr. J. C. Patel, M.B.B.S., B.Sc., M.D. (Bom.), L.R.C.P., M.R.C.S. (Eng.), M.R.C.P. (Lond.), Ph.D., F.A.S.C.

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Hon. General Surgeons: Dr. R. N. Cooper, M.S. (Lond.), F.R.C.S. (Eng.), Dr. A. V. Balliga, F.R.C.S. (Eng.), Dr. H. K. Doctor, M.B.B.S., L.R.C.P., M.R.C.S., F.R.C.S. (Eng.), F.C.P.S. (Bom.), Dr. S. B. Cooper, M.B.B.S. (Bom.), F.R.C.S. (Eng.), Dr. V. K. Desai, M.B.B.S. (Bom.), L.R.C.P., M.R.C.S., F.R.C.S. (Eng.), Dr. G. M. Phadke, M.B. (Lond.), F.R.C.S. (Eng.), Dr. M. L. Vaze, M.S. (Bom.), F.R.C.S. (Eng.), Dr. K. M. Kamodia, M.S. (Bom.), F.R.C.S. (Eng.).

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Chairman: R. D. Birla.

Hon. Secretary: B. D. Binani.

Dy. Hon. Secretary: S. G. Nevatia.

Superintendent: Dr. K. R. Tipnis.

BRAHMAN SABHA MHASKAR MATERNITY HOSPITAL

9, Benham Hall Lane, Girgaum, Bombay.

B.P.A. MUNICIPAL FREE EYE HOSPITAL

Main Street, Kamathipura, Bombay 8.

Surgeons.—Two Honorary Surgeons attending on alternate days are Dr. V. V. Gupta and Dr. S. M. Sathé. (Tel. 41865).

Inpatients accommodation now 12. Outpatients daily mornings 8 to 10. Daily average attendance 250.

BYRAMJEE JEEJEEBHoy HOSPITAL FOR CHILDREN

Mazagon, Bombay.

The Hospital is situated along Mazagon Road, next to the Out-patient's Department of the J. J. Hospital. Number of beds 100 (50 medical and 50 surgical).

Superintendent:—Dr. S. J. Mehta, F.R.C.S.; **Chief Hon. Pediatrician:**—Dr. P. M. Udani, M.D., D.O.M.; Dr. B. D. Patel, M.R.C.P., D.C.M.

CAMA HOSPITAL FOR WOMEN AND CHILDREN

Crickshaw Road, Bombay.

STAFF.—Dr. (Smt.) P. Mudholkar, C.R.C.P., M.R.C.S., M.R.C.O.G., **Medical Officer-in-charge:** Dr. (Smt.) I. S. Amodkar, M.B.B.S., M.S. Cl. II, **Resident Medical Officer (Class II).**

CHILDREN'S ORTHOPAEDIC HOSPITAL

Haji Ali Park, Clerk Road, Bombay 11.

President: Dr. A. V. Balliga, F.R.C.S. (Eng.).

Hon. Secretary: Dr. Mrs. Gulbanoo Premji, M.B.B.S. (Bom.).

Medical Director: Dr. Miss P. K. Mullaferoze, O.B.E., M.B.B.S. (Bom.), F.R.C.S. (Eng.).

CHOWPATTI MATERNITY & GYNAECOLOGICAL HOSPITAL

4, Chowpatty, Bombay 7.

CITY FEVER (INFECTIOUS DISEASES) HOSPITALS

Arthur Road, Jacob Circle, Bombay.

Medical Superintendent, Dr. J. K. Thanawala, M.D., F.C.P.S.

Assistant Medical Officer, Dr. B. S. Deshpande, M.B.B.S.

Jr. Resident Medical Officer, Dr. R. B. Sawardekar, Medical Graduate (Nova-Goa).

Honorary Pathologist, Dr. B. R. Shah, M.D.

Casualty Officers: Dr. M. H. Mody, M.B.B.S.; Dr. (Smt.) S. B. Joshi, M.B.B.S.; Dr. M. M. Parikh, M.B.B.S.

Medical Assistants: Dr. I. C. Mehta, M.B.B.S.; Dr. (Smt.) M. B. Joshi, M.B.B.S.; Dr. K. V. Vahalla, M.B.B.S.; Dr. (Smt.) H. D. Bokdawala, M.B.B.S.; Dr. (Smt.) S. G. Kotwani, M.B.B.S.; Dr. K. H. Belgumkar, M.B.B.S.; Dr. S. H. Deshpande, M.B.B.S.; Dr. V. B. Shanbhag, M.B.B.S.; Dr. R. V. Jotwani, M.B.B.S.; Dr. N. G. Gandhi, M.B.B.S.; Dr. N. D. Choksey, M.B.B.S.; Dr. B. M. Hudani, M.B.B.S.; Dr. Q. H. Qazi, M.B.B.S.; Dr. R. B. Bewoor, M.B.B.S.; Dr. P. P. Asnadi, M.B.B.S.; Dr. H. Manohar, M.B.B.S.

EYE CLINIC AND HOSPITAL

375, Hornby Road, Opp. Flora Fountain.

Run by Dr. H. D. Dastoor, F.I.C.S., F.O.P.S., D.O. (Oxon.), D.O.M.S. (Lond.), Senior Ophthalmic Surgeon, J. J. Hospital and Professor of Ophthalmology, Grant Medical College, together with a full hospital staff.

FRACTURE AND ORTHOPAEDIC HOSPITAL

8, New Queen's Road, Bombay 4.

FRACTURE AND ORTHOPAEDIC HOSPITAL AND ACCIDENT CLINIC

(for Police cases).

395, Lamington Road, Bombay 4.

GOCULDAS TEJPAL HOSPITAL

Carnac Road, Bombay 1.

Superintendent: D. S. Gogate, M.S.

GROUP OF T. B. HOSPITALS

Opp. Christian Cemetery, Jerbai Wadia Road, Sewri, Bombay 15.

Municipal T.B. Hospitals, viz. (1) Ramesh Premchand T.B. Hospital, started on 15-5-1948, (2) Old Maratha Hospital, (3) Turner Sanatorium, (4) an additional hospital called Bahadurji Block and (5) Ramkunwar Dastary T.B. Hospital and Clinic, Dadasaheb Phalke Road, Dadar, Bombay 14.

Elevation and Climate: Sea level; Maximum and Minimum temperatures are 85° to 90°F. in Summer and Autumn, 70° to 80°F. in Winter respectively and average rainfall is 65 to 80 inches a year.

Patients are selected by Honoraries for admission at the G.T.B. Hospitals out of the patients referred by the different Municipal T.B. Clinics which are at (1) Princess Street, (2) Foras Road Junction and (3) Dadasaheb Phalke Road, Dadar. Facilities for A.P. and P.P. treatment exist at all the T.B. Clinics. Time 8 a.m. to 12 noon and 4 p.m. to 6 p.m.

Nos. 1 to 4: Near Elphinstone Road and Sewri Railway Stations of Western and Central Railways respectively.

No. 5 (B.D. T.B. Hospital and Clinic): Near Dadar Railway Station.

The hospitals are open from 8 a.m. to 6 p.m. (Emergency admission at any time throughout day and night).

There are 458 beds in the hospitals at Sewri. In Ramkunwar Dastary T. B. Hospital, Dadar, an Isolation Centre, there are 88 beds for advanced cases. No bed can be reserved. All treatment is free of charge. Facilities for Laboratory, X-ray, A.P., P.P., major and minor operations are available.

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MODERN CLINIC
 Near Prarthana Samaj, 888, Sardar Vallabhbhai Patel Road.
 Doctors attached.—Dr. K. U. Jhataki, M.D., *Physician and Cardiologist*; Dr. C. S. Worah, M.B., *Surgeon*; Dr. C. M. Kamdar, L.M., D.N.C.C., *Gynaecologist*.

MUNICIPAL VENEREAL DISEASES FREE CLINIC, BOMBAY MUNICIPALITY
 254, Bellasis Road, Byculla.

NATURAL THERAPY CLINIC
 Sunama House, 3rd Floor, 140, Cumballa Hill, Bombay 28.
 Health Centre.
 Proprietor & Director : Dr. J. M. Jussawalla, Nature Cure Physician.

THE NUTAN BAL SHIKSHAN SANGH
 All-India Association of Teachers and Parents.
 118, Hindu Colony, Dadar, Bombay 14.

S. K. PATIL AROGYADAM
 Malad.
 Chairman of Trust : Dr. N. N. Kailas.

VIJAYA NAGAR SEVA MANDAL, BAL VIHAR, SEWING & EMBROIDERY CLASS
 72, Vijaya Nagar, Dadar, Bombay-28.

DISPENSARIES

BOMBAY HOMOEOPATHIC ASSOCIATION'S DISPENSARIES

- I. 811, Tardeo Road, Nana Chowk, Bombay 7 (main dispensary).
- II. Jannadas Mody Kapor Nivas, 64, Canal Street (near Ramwadi Eye Hospital).

THE BOMBAY KERALA SAMAJ AYURVEDIC DISPENSARY

Road No. 2, Hindu Colony, Dadar, Bombay 14.
 Physician : M. C. K. Namboodiri, L.I.M.
 Branch at Kerala Bhavanam, 16 A, Brahmanwada Road, Matunga.
 Physician : U. Achutha Warriar.

FORT GRATUITOUS DISPENSARY

10, Ravellin Street, opp. Excelstor Cinema, Fort.
 Managing Committee.—Cooverji H. Bhabha, Chairman; Maj. Dady F. Vachha, Secretary.
 First Medical Officer : Dr. R. S. Sidhwa, M.B.B.S.

REGINA PACIS FREE DISPENSARY FOR THE POOR

Conducted by the Daughters of Mary Immaculate, Regina Pacis, Love Lane, Byculla 27.

SANTA CRUZ MALAYALEE SAMAJAM AYURVEDIC DISPENSARY

14, Air View Building, Vakola, Bombay 25.

SHRI AYURVEDA DHARMARTH DAVAKHANA MANDAL

45, Dr. Atmaram Merchant Road, Bombay 2.
 President : Dr. D. D. Sathaye; General Secretary : Vamanrao D. Vaidya, Treasurer : Dr. Mulchand D. Mukali.

MISSIONARY AND RELIGIOUS SOCIETIES IN GREATER BOMBAY

AHMADIYYA MOVEMENT

Local Branch :—'Alhaq', 17, Club Back Road, Bombay 8.
 Headquarters.—Qadian, Dist. Gurdaspur, Punjab, India.
 Activities :—Revival and Propagation of Islam.
 Founder :—Hazrat Mirza Gulam Ahmad of Qadian, the promised Messiah and Mehdi (1835-1908).
 Missions :—Throughout India & Pakistan and in the following foreign countries—England, Germany, France, Spain, U.S.A., Java, Siam, Sumatra, Egypt, Palestine, Indonesia, Ceylon & Italy. All enquiries could be made to the Missionary-in-Charge.
 Present Head of the Movement :—Hazrat Mirza Bashiruddin Mahmood Ahmad, the Musleh Mauood.

AMERICAN MARATHI MISSION

(Under the American Board of Commissioners for Foreign Missions, Boston, Mass., U.S.A.).
 OFFICERS : Chairman.—Rev. J. L. Moulton. Secretary.—Rev. Miss E. L. Wood, 1-A, Staveley Road, Poona. Treasurer.—G. Ross Thomas, Inter-Mission Business Office, 364, Dadabhoy Naorji Road, Bombay.

ANJUMAN-I-FAIZ-I-PANJETANI

69, Samuel Street, Bombay 9.
 The aims and objects of Anjuman-i-Faiz-i-Panjetani are to render service to pilgrims to the Hedjas, Iraq, Iran, etc.
 PRESIDENT.—Haji Esma'il Abdulkarim Panjoo.
 VICE-PRESIDENT.—Haji Yusufali C. Chinwala.
 HON. JOINT SECRETARIES.—Dr. Haji B. C. Nathani and Haji Rajabally P. Ebrahim.
 MANAGER.—Sherally Virjee.

ASTHIKA SAMAJ

Asthika Samaj Building, King's Circle, Matunga, Bombay 19.
 The aims and objects of the Samaj are the cultivation of devotion to God.
 PRESIDENT :—C. G. Raman; JT. HON. SECRETARIES :—K. S. Padmanabhan, V. K. Moorthy. Hon. Treasurer :—K. S. Ramaswamy.

BIBLE SOCIETY OF INDIA AND CEYLON

India House, Opp. G.P.O., Fort Street, Bombay 1.
 The aim and object of this Society is to publish and propagate the Holy Bible without note or comment in all languages.
 President.—The Rt. Rev. Bishop Lash, Bishop of Bombay.
 Secretary & Treasurer.—Rev. W. Park Bankin, B.C.F.

BOMBAY SPIRITUAL CENTRE

Indra Kunj,
 2, Laburnum Road, Gamdevi, Bombay 7.
 Discourses by eminent saints or savants on purely spiritual subjects, group prayers, meditation, namasankirtan and bhajan are regular features.

BOMBAY ZOROASTRIAN JASHAN COMMITTEE

Navsari Building, Dr. Dadabhoy Naorji Road, Bombay 1.
 Objects of the Committee are :—To promote devotion amongst Parsi Zoroastrians for their religion.
 The Committee also takes keen interest in diffusing Zoroastrian religious instruction to the young.
 PRESIDENT.—Lt.-Col. Rustom M. Khareghat, L.M.S. (Retd.).
 SECRETARY :—Kaikhsharu Aderji Dumasia.
 HON. TREASURER :—Sohrab Hirjibhoy Bativala.

CHURCH MISSIONARY SOCIETY

Mission House, Proctor Road, Bombay 7.

This body works under the Bishop of Bombay in the Bombay Diocese.

MEMBERS OF THE BOMBAY CORRESPONDING COMMITTEE.

The Right Rev. The Bishop of Bombay (*Chairman*); Dr. E. L. Simmons; Rev. A. B. Bhalekar; Rev. N. G. Bhanat; C. A. Christie; J. W. E. Gurr; Kuryan Mathan; D. L. Powar.

Secretary.—Miss M. C. Wilson.

The Office of the Parent Society is in Salisbury Square, Fleet Street, London, E.C.4.

Bombay

Emmanuel Church, Proctor Road, Rev. M. R. Pagar and Rev. D. S. Shrisunder.

Robert Money School.—C. A. Christie, B.A., B.T.

MAHA BODHI SOCIETY OF INDIA

(Bombay Branch)

Bahujan Vihar, Buddha Temple Street, Parel, Bombay 12.

Secretary.—Bhikkhu H. Dhammananda.

MISSIONARY SETTLEMENT FOR UNIVERSITY WOMEN

Reynolds Road, Byculla, Bombay.

The M.S.U.W. is engaged in missionary and educational work in Bombay City. It maintains a hostel for about 60 women students attending the various colleges in Bombay.

STAFF.—Miss H. D. Hunt, B.A., *Warden*; Miss E. D. Mason, M.A., Ph.D., D.Sc.; Miss R. Gurupatham, U.T.T.C.

PARSI VEGETARIAN AND TEMPERANCE SOCIETY

Noble Chambers No. B, Parsi Bazar Street, Bombay 1.

Object: To inculcate vegetarianism and temperance as principles of *Ashoi* i.e. law and moral orders divine.

PRARTHANA SAMAJ

Girgaum, Bombay.

The Bombay Prarthana Samaj is a religious body whose faith is founded on the essential belief in One God who is without form and all-pervading, and in the brotherhood of man.

The Prarthana Samaj holds weekly Divine Services on Sundays and organises missionary activities for the spread of its Faith in the State of Bombay. It also conducts educational and charitable activities through a number of institutions which are managed by the Samaj.

MANAGING COMMITTEE.—Vacant, *President*; P. B. Madgavkar, *Vice-President* and others.

RAMAKRISHNA MISSION ASHRAM

Khar, Bombay 21.

President.—Swami Sambuddhananda. *Hon. Secretary*.—Dr. C. A. Mehta, M.A., LL.B., Ph.D.

SHREE AYYAPPA BHAKTA SAMITI

Star of Cochin, Opp. Broadway Cinema, Dadar, Bombay 14.

President, General Council.—G. P. Nair; *Executive Committee*.—T. V. Seshan (*Chairman*); Karimpat B. Menon (*Vice-Chairman*); P. V. Menon, C. V. Kochunni, K. G. Narayanan (*Secretaries*); A. B. Nair, K. R. Menon (*Treasurers*).

SOCIETY OF SERVANTS OF GOD

Mayfair, 34, Little Gibbs Road, Bombay 6.

Gen. Secretary: Murari Lal Mital.

SPIRITUAL ASSEMBLY OF THE BAHAI'S OF THE CITY OF BOMBAY

Bahai's Centre, 7, Bruce Street, Bombay 1.

P. O. Box No. 470, Bombay 1.

Objects.—To establish universal peace and the oneness of mankind in co-operation with fellow Bahai's of over 15,000 Centres in 255 other countries through the spiritual principles of the World Faith proclaimed by Baha-u-liah in 1863.

SPIRITUALIST DEVELOPMENT AND HEALING CIRCLE

Kalam Kutir, 211/219, Frere Road, Bombay.

To help those who desire to develop psychic power and to give relief to those who are ailing.

The President Dr. F. D. Nasikvala conducts the Healing Centre every Tuesday and Friday between 2 and 5 p.m. and Development every Friday at 6-30 p.m., after which Seance is held.

ST. JOSEPH'S CONVENT

Bandra, Bombay 20.

This Institution, conducted by the Daughters of the Cross of Liege, Belgium, comprises:—

1. An Anglo-Indian High School (Boarding and Day).
2. An English-Teaching High School (Boarding and Day).
3. An Orphanage.

THEOSOPHICAL SOCIETY

The Blavatsky Lodge, T.S. French Bridge, Bombay 7.

This is the first Lodge in India, founded in 1879, having a good library and a book-depot.

WESTERN INDIA UNION OF SEVENTH-DAY ADVENTISTS

HEADQUARTERS ADDRESS: 16, Club Road, Byculla, Bombay 8.

PRESIDENT: Pastor F. E. Spliss.

SECRETARY AND TREASURER: C. N. John.

ZOROASTRIAN RADIH SOCIETY

Noble Chambers, No. B, Parsi Bazar Street, Bombay 1.

OBJECT.—To undertake all kinds of Radih work for the benefit and welfare of the Parsi Zarthoshti Community.

PUBLIC TRUSTS IN GREATER BOMBAY

For purposes of quick reference, we give below a list of registered Public Trusts in the Greater Bombay area with an average annual income of Rs. two lakhs and over as mentioned in the registration applications.

When necessary the same trust has been entered under more than one head. The register number is given in brackets at the end of each trust.

Aid for Business, Vocation

Trusts of the Funds and properties of the Parsi Panchayat, Bombay, The Joint Secretary, Parsi Panchayat, 209, Dr. Dadabhai Naoroji Road, Fort; Rs. 11,32,606. (702—C-416).

Aid in Calamities (natural, etc. such as epidemic, fire, flood, riot, war, etc.)

(Shri) Madhavbag and Laxminarayan Temple Trust, Manordas Tribhovanadas, Shri Madhavbag Trust, C. P. Tank Road, Bombay 8; Rs. 2,07,864. (901—A-189).

(Sir) Vithaldas Damodar Thackersey Charitable Trust, Lady Framila Vithaldas Thackersey, Sir Vithaldas Chambers, 16, Apollo Street, Fort; Rs. 2,90,863. (1702—A-250).

Habib Ismail Memorial Trust, Rasool A. Rangoonwala, Habib Ismail Memorial Trust, 125, Jail Road (East), Bombay 9; Rs. 4,78,455. (278—B-501).

Sir Dorabji Tata Trust, Professor Rustom Dossabhoj Chokal, Bombay House, 24, Bruce Street, Fort; Rs. 18,40,443. (239—E-304).

The N. M. Wadia Charities, 22D, Parsi Bazar Street, Fort; Rs. 7,10,836. (627—E-152).

Aid for Education for developing mind or body (in kind or cash)

(Sir) Vithaldas Damodar Thackersey Charitable Trust, Lady Framila Vithaldas Thackersey, Sir Vithaldas Chambers, 16, Apollo Street, Fort; Rs. 2,90,863. (1702—A-250).

R. and S. Nanavati Charitable Trust, R. M. Nanavati, 16, Apollo Street, Fort; Rs. 2,14,551. (A-583).

Anjuman-I-Islam Charities, S. S. Dasnavi, M. H. Baboo Siddik Institution, S. Shepherd Road, Byculla, Bombay 8; Rs. 3,44,644. (109—B-610).

(Haji) Esuf Mahomed Suleman's Charities, Ebrahim Yusuf Botwala, 116-118, Bapukhote Street, Bombay 3; Rs. 3,59,411. (238—B-169).

Habib Esmail Memorial Trust, Rasool A. Rangoonwala, 125, Jail Road (East), Bombay 9; Rs. 4,78,455. (278—B-501).

The Artytoys Industrial Scheme Trust, Darab N. Navder, 22D, Parsi Bazar Street, Fort; Rs. 2,47,364. (36—C-287).

The Behramji Nawroji Gamadia Parsee Hunnarahala Trust, Meherji Behramji Khambatta, Gamadia Colony, 3, Tardoo Road; Rs. 2,48,996. (95—C-587).

(Sir) Jamsetjee Jeejeebhoy Parsee Benevolent Institution, The Secretary, 209, Dadabhyo Naoroji Road, Fort; Rs. 3,52,591. (447—C-221).

Maneckji Cooper Education Trust, Jehangir Maneckji Cooper, Swadeshi Mills Estate, Girgaum; Rs. 2,08,000. (549—C-261).

Neeserwanji Manockjee Petit Charity Fund, Petit Building, Dadabhyo Naoroji Road, Fort; Rs. 3,31,308. (649—C-58).

(Sir) Ratanji Jamshedji Tata Charities Trust, Pirojsha P. Mistri, trustee of Sir Ratan Tata Charities, Bombay House, Bruce Street, Fort; Rs. 8,34,243. (796—C-153).

The N. M. Wadia Charities, 22D, Parsi Bazar Street, Fort; Rs. 7,10,836. (627—E-152).

R. D. Sethna Trust, Secretary, 14-K, Mamam Street, Fort; Rs. 3,57,581. (866—E-654).

Sir Sayajirao Diamond Jubilee and Memorial Trust, Sarojini Sadan, Extension Congress House, V. P. Road, Bombay 4; Rs. 6,24,841. (E-877).

Sri Zarthosti Mandal and Sir Ratan Tata Industrial Institute, The Hon. Gen. Secretary, 35, Hughes Road, Bombay 7; Rs. 7,10,225. (F-326).

Aid to Institutions and Funds

(Shri) Madhavabai and Laxminarayan Temple Trust, Manordas Tribhovanadas, C. P. Tank Road, Bombay 3; Rs. 2,07,864. (901—A-139).

The Dawoodbhoy Fazalbhoy Muslim Educational Trust, 42, Pydhonie Road; Rs. 2,75,500. (194—B-611).

Habib Esmail Memorial Trust, Rasool A. Rangoonwala, 125, Jail Road (East), Bombay 9; Rs. 4,78,455. (278—B-501).

The Artytoys Industrial Scheme Trust, Darab N. Navder, 22D, Parsi Bazar Street, Fort; Rs. 2,47,364. (36—C-287).

The Christian Medical Association of India Hospital Supply Agency, Dhapla Building, Government Gate Road, Bombay 12; Rs. 7,38,002. (166—E-555).

Sir Dorabji Tata Trust, Professor Rustom Dossabhyo Chokai, Bombay House, 24, Bruce Street, Fort; Rs. 18,40,443. (239—E-304).

Seth Mafatal Charity Trust, Yogindra N. Mafatal, Mafatal House, Back Bay Reclamation, Bombay 1; Rs. 2,20,643. (516—E-723).

Sir Sayajirao Diamond Jubilee and Memorial Trust, Sarojini Sadan, Extension Congress House, V. P. Road, Bombay 4; Rs. 6,24,841. (E-877).

Medical Aid

(Sir) Vithaldas Damodar Thackersey Charitable Trust, Lady Pramila Vithaldas Thackersey, Sir Vithaldas Chambers, 16, Apollo Street, Fort; Rs. 2,90,863. (1702—A-250).

Habib Esmail Memorial Trust, Rasool A. Rangoonwala, 125, Jail Road (East), Bombay 9; Rs. 4,78,455. (278—B-501).

Seth Mafatal Charity Trust, Yogindra N. Mafatal, Mafatal House, Back Bay Reclamation, Bombay 1; Rs. 2,20,643. (506—E-723).

The N. M. Wadia Charities, 22D, Parsi Bazar Street, Fort; Rs. 7,10,836. (627—E-152).

Sir Hurkiondas Narotamdas Hospital, The Hon. Secretary, New Charni Road, Bombay; Rs. 7,82,615. A-1364).

The Maneckji Nowroji Sett Charities, M. K. Set, Kodak House, III Floor, Hornby Road, Bombay 1; Rs. 11,96,550. (C-232).

Nowrojee N. Wadia Trust Buildings for Paris, The Secretary, R. N. Wadia Trust, Neville House, Ballard Estate, Fort, Bombay; Rs. 3,64,827. (C-269).

Rustomjee N. Wadia Trust Building for Paris, The Secretary, R. N. Wadia Trust, Neville House, Ballard Estate, Fort, Bombay; Rs. 2,55,528. (C-270).

Sri Zarthosti Mandal and Sir Ratan Tata Industrial Institute, Hon. Gen. Secretary, 35, Hughes Road, Bombay 7; Rs. 7,10,225. (F-326).

Help to Orphans, Poor, etc.

(Seth) Virji Peraji Trust, Maskai Building, Bhandari Street, Bombay 3; Rs. 4,10,590. (1670—A-202).

(Sir) Vithaldas Damodar Thackersey Charitable Trust, Lady Pramila Vithaldas Thackersey, Sir Vithaldas Chambers, 16, Apollo Street, Fort; Rs. 2,90,863. (1702—A-250).

R. and S. Nanavati Charitable Trust, R. M. Nanavati, 16, Apollo Street, Fort; Rs. 2,14,551. (1998—A-583).

Habib Esmail Memorial Trust, Rasool A. Rangoonwala, 125, Jail Road (East), Bombay 9; Rs. 4,78,455. (278—B-501).

Sir Jamsetjee Jeejeebhoy Parsee Benevolent Institution, The Secretary, 209, Dadabhyo Naoroji Road, Fort; Rs. 3,52,591. (447—C-221).

Seth Goudidas Tejpal Charities Trust, V. H. Bhatt, 7, Bastion Road, Fort; Rs. 4,24,804. (281—E-800).

Seth Mafatal Charity Trust, Yongendra N. Mafatal, Mafatal House, Back Bay Reclamation, Bombay 1; Rs. 2,20,643. (516—E-723).

The N. M. Wadia Charities, 22D, Parsi Bazar Street, Fort; Rs. 7,10,836. (627—E-152).

Help for Research Work

Sir Dorabji Tata Trust, Professor Rustom Dossabhyo Chokai, Bombay House, 24, Bruce Street, Fort; Rs. 18,40,443. (239—E-304).

The Bombay Suburban District Village Industries Association, Navalbhai C. Jeralani, 396, Kalbadevi Road; Rs. 12,28,219. (102—F-314).

Sir Hurkiondas Narotamdas Hospital, The Hon. Secretary, New Charni Road, Bombay. Rs. 7,82,615. (A-1364).

Tata Institute of Fundamental Research, R. Chokai, Tata Institute, Apollo Pier Road, Bombay 1; Rs. 6,08,358. (E-660).

Bharatiya Vidya Bhavan, Charandas Meghji, Chowpatti Road, Bombay 7; Rs. 4,30,032. (F-358).

Beardings

Trusts of the Funds and properties of the Parsi Panchayat, 209, Dr. Dadabhyo Naoroji Road, Fort; Rs. 11,32,606. (702—C-416).

The Diamond Jubilee Trust, Bombay, Smt. Zarina E. G. Currimbhoy, Khoja Jamatkana Compound, Chinch Bunder Road, Khadak Bombay 9; Rs. 3,16,280. (E-755).

Churches, Temples and Religious Institutions

Shri Godiji Maharaj Jain Temples and Charities, Laxmichand Durlabhji, 12, Pydhoni, Bombay 3; Rs. 3,70,798. (A-1857).

Dawat-e-Hadiyah, H.H. Mullaaji Sahab Sydena Taher Saifuddin, Badri Mahal, Bombay 1; Rs. 2,80,614. (B-720).

Church of St. Francis Xavier, Dabul, Burrows Lane, Bombay 2, Very Rev. Mgr. Basilio A. Pinto, Burrows Lane, Bombay 2; Rs. 3,09,601. (D-125).

Archdiocese of Bombay, Rt. Rev. Mgr. V. Dyer, Archbishop's House, Bombay 1; Rs. 3,51,277. (D-158).

The Church of the Brethren Mission, Rev. E. M. Fasnacht, Mission House, Umalla, District Broach; Rs. 2,02,890. (D-65).

Former Churches in the Diocese of Bombay which are in the State of Bombay: The Hon. Secretary, The Bombay Diocese Trust Association Ltd., 21, Waudby Road, Bombay 1; (Income not stated). (D-185).

St. Stanislaus' Institution, Rev. D. Donnelly, S.J., Rector and Manager of the Institution, Bombay 20; Rs. 2,18,070. (D-154).

The Bombay St. Xavier's Society, Rev. A. Balta, S.J., Treasurer, St. Xavier's High School, Carnac Road, Bombay 1; Rs. 2,76,789. (F-424).

The Provincial Society of the Congregation of Jesus and Mary, Rev. Mother St. Ursula, Convent of Jesus & Mary, Clara Road, Byculla, Bombay; Rs. 8,41,560. (F-428).

The Bombay St. Mary's Society, The Rector, St. Mary's High School, Nesbit Road, Mazagon, Bombay 10; Rs. 5,25,297. (F-429).

The Don Bosco Society, The Prefect, Don Bosco High School, Matunga, Bombay 19; Rs. 2,07,000. (F-430).

St. Joseph's Convent, Rev. Sister Provincial, Hill Road, Bandra, Bombay 20; Rs. 10,49,501.

The Bombay Prarthana Samaj, B. A. Rago, Asstt. Secretary of the Samaj, Charni Road, Bombay No. 4; Rs. 2,53,451. (F-130).

The Church of Scotland, Western India Mission, c/o Wilson College, Bombay 7; Rs. 3,26,600. (F-366).

Medical Health Centres

Trusts of the Funds and properties of the Parsi Panchayat, Joint Secretary, 209, Dr. Dadabhyo Naoroji Road, Fort; Rs. 11,32,606. (C-416).

College

The Bombay St. Xavier's Society, Rev. A. Balta, S.J., Treasurer, St. Xavier's High School, Carnac Road, Bombay 1; Rs. 2,76,789. (F-424).

Cultural, Social

The Social Service League, Secretary, Servants of India Society's Home, Sandhurst Road, Bombay 4; Rs. 2,54,458. (330—F-153).

The South Indian Welfare Society, The Secretary, Park View, Napoo Garden, Matunga (Central Ry.); Rs. 7,10,225. (338—F-213).

Dharmashalas

The Tulsiadas Gopalji Charitable and Dhakaleswar Temple Trust, 10A, Bhulabhai Desai Road; Rs. 8,13,377. (1598—A-221).

(Haji) Esuf Mahomed Suleman's Charities, Ebrahim Yusuf Botwala, 140, Sharif Deyji Street, Bombay 3; Rs. 3,59,411. (238—B-169).

Trusts of the Funds and properties of the Parsi Panchayat, The Joint Secretary, 209, Dr. Dadabhyo Naoroji Road, Fort; Rs. 11,32,606. (702—C-416).

Bai Kabilal and Hansraj Morarji Charity Trust, 26, Holi Chakia, Fort; Rs. 4,26,954. (393—E-585).

The N. M. Wadia Charities, 22D, Parsi Bazar Street, Fort; Rs. 7,10,836. (627—E-152).

Dispensaries—Allopathic

(Haji) Esuf Mahomed Suleman's Charities, Ebrahim Yusuf Botwala, 140, Sharif Deyji Street, Bombay 3; Rs. 3,59,411. (238—B-169).

Bai Kabilal and Hansraj Morarji Charity Trust, 26, Holi Chakia, Fort; Rs. 4,26,954. (393—E-585).

Employment (Help to Secure)

(Sir) Vithaldas Damodar Thackersey Charitable Trust, Lady Pramila Vithaldas Thackersey, Sir Vithaldas Chambers, 16, Apollo Street, Fort; Rs. 2,90,863. (1702—A-250).

The Artytoys Industrial Scheme Trust, Darab N. Navder, 22D, Parsi Bazar Street, Fort; Rs. 2,47,364. (36—C-287).

Homes for Afflicted, Defectives (by nature)

Disabled

Trusts of the Funds and properties of the Parsi Panchayat, Bombay, The Joint Secretary, Parsi Panchayat, 209, Dr. Dadabhyo Naoroji Road, Fort; Rs. 11,32,606. (702—C-416).

Homes for Children, Widows, Women

Neeserwanji Manockjee Petit Charity Fund, Petit Building, Hornby Road, Fort; Rs. 3,31,308. (649—C-58).

Vanita Viahram, The Hon. Secretary, Sandhurst Road, Bombay 4; Rs. 2,06,611. (666—E-568).

The Children's Aid Society, The Hon. Secretary, 88, Lady Hardinge Road, Mahim, Bombay 16; Rs. 9,06,453. (121—F-208).

Seva Sadan Society, Miss B. A. Engineer, Seva Sadan, Gamdevi, Bombay 7; Rs. 3,44,785. (319—F-125).

The Bombay Prarthana Samaj, B. A. Rege, Asstt. Secretary of the Samaj, Charni Road, Bombay No. 4; Rs. 2,53,451. (F-130).

Homes for Convalescents

Bal Air Sanatorium, Panchgani, Sir Shapoorji B. Billimoria, 21, Cuffe Parade, Colaba; Rs. 4,29,525. (77—E-186).

Maternity Homes

Habib Ismail Memorial Trust, Rasool A. Rangoonwala, 125, Jail Road (East), Bombay 9; Rs. 4,78,455. (278—B-501).

Trusts of the Funds and Properties of the Parsi Panchayat, Bombay, The Joint Secretary, Parsi Panchayat, 209, Dr. Dadabhai Naoroji Road, Fort; Rs. 11,32,606. (702—C-416).

Sir Hurkiondas Narotamdas Hospital, The Hon. Secretary, New Charni Road, Bombay; Rs. 7,82,615. (A-1364).

Nowrojee Wadia Maternity Hospital, Neville House, Ballard Estate, Fort, Bombay; Rs. 4,04,702. (E-944).

The Bombay Prarthana Samaj, B. A. Rege, Asstt. Secretary of the Samaj, Charni Road, Bombay No. 4; Rs. 2,53,451. (F-130).

The Church of Scotland Western India Mission, c/o Wilson College, Bombay 7; Rs. 3,26,600. (F-366).

Homes—Orphanages

(Haji) Neuf Mahomed Suleman's Charities, Ebrahim Yusuf Botwala, 140, Sharif Devji Street, Bombay 3; Rs. 3,59,411. (238—B-169).

Neeserwanji Manockjee Pettit Charity Fund, Pettit Building, Hornby Road, Fort; Rs. 3,31,208. (649—C-58).

The Bombay Prarthana Samaj, B. A. Rege, Asstt. Secretary of the Samaj, Charni Road, Bombay No. 4; Rs. 2,53,451. (F-130).

Housing Cheap Rent

The Manekji Nowroji Sett Charities, M. K. Set, Kodak House, III Floor, Hornby Road, Bombay 1; Rs. 11,96,550. (C-232).

Nowrojee N. Wadia Trust Buildings for Parsis, The Secretary, E. N. Wadia Trust, Neville House, Ballard Estate, Fort, Bombay; Rs. 3,64,827. (C-269).

Eustomee N. Wadia Trust Building for Parsis, The Secretary, E. N. Wadia Trust, Neville House, Ballard Estate, Fort, Bombay; Rs. 2,55,528. (C-270).

Allopathic Hospitals

Bhatia General Hospital, Tardeo Road, Kalyanji Canji Meghji, 36-A, Hughes Road, Bombay 7; Rs. 2,74,630. (119—A-745).

(Haji) Neuf Mahomed Suleman's Charities, Ebrahim Yusuf Botwala, 140, Sharif Devji Street, Bombay 3; Rs. 3,59,411. (238—B-169).

Habib Ismail Memorial Trust, Rasool A. Rangoonwala, 125, Jail Road (East), Bombay 9; Rs. 4,78,455. (278—B-501).

The Bomanjee Dinshaw Pettit Parsi General Hospital, D. H. Pettit, Cumballa Hill, Bombay 26; Rs. 4,03,654. (112—C-687).

Masina Hospital, Dr. (Miss) Meherbanoo Hormasji Masina, Victoria Road, Bombay 27; Rs. 2,81,787. (565—C-157).

Bal Air Sanatorium, Panchgani, Sir Shapoorji B. Billimoria, 21, Cuffe Parade, Colaba; Rs. 4,29,525. (77—E-186).

The Bombay European Trust, The Secretary, Bombay European Hospital Trust, 60A, Bhulabhai Desai Road, Bombay 28; About Rs. 6 lakhs. (113—E-793).

Sir Dorabji Tata Trust, Professor Rustom Donsabhy Chokai, Bombay House, Bruce Street, Fort; Rs. 18,40,443. (239—E-304).

Dr. Balabhai Nanawati Hospital, R. M. Nanawati, Member, Executive Council, Dr. B. Nanawati Hospital, 16, Apollo Street, Fort; Rs. 4,07,831. (41—F-231).

Sir Hurkiondas Narotamdas Hospital, The Hon. Secretary, New Charni Road, Bombay; Rs. 7,82,615. (A-1364).

The Diamond Jubilee Trust, Bombay, Smt. Zarina E. G. Currimbhoy, Khoja Jamatkhan Compound, Chinch Bunder Road, Khadak, Bombay 9; Rs. 3,16,280. (B-755).

Bal Jerbal Wadia Hospital for Children, Neville House, Ballard Estate, Fort, Bombay; Rs. 3,57,498. (E-943).

The Church of Scotland Western India Mission, c/o Wilson College, Bombay 7; Rs. 3,26,600. (F-366).

Library

The Bombay Prarthana Samaj, B. A. Rege, Asstt. Secretary of the Samaj, Charni Road, Bombay No. 4; Rs. 2,53,451. (F-130).

Sanatoria

The Tulaldas Gopalji Charitable and Dhakaleswar Temple Trust, 10-A, Bhulabhai Desai Road, Bombay 28; Rs. 3,12,377. (1593—A-221).

(Haji) Neuf Mahomed Suleman's Charities, Ebrahim Yusuf Botwala, 140, Sharif Devji Street, Bombay 3; Rs. 3,59,411. (238—B-169).

Neeserwanji Manockjee Pettit Charity Fund, Pettit Building, Hornby Road, Fort; Rs. 3,31,208. (649—C-58).

Trusts of the Funds and Properties of the Parsi Panchayat, Bombay, The Joint Secretary, Parsi Panchayat, 209, Dr. Dadabhai Naoroji Road, Fort; Rs. 11,32,606. (702—C-416).

Bal Air Sanatorium, Panchgani, Sir Shapoorji B. Billimoria, 21, Cuffe Parade, Colaba; Rs. 4,29,525. (77—E-186).

Bal Kabibai and Hansaraj Morarji Charity Trust, 26, Holi Chakia, Fort; Rs. 4,26,954. (393—E-585).

Scholarships—College

Seth Mafatal Charity Trust, Yogendra N. Mafatal, Mafatal House, Back Bay Reclamation, Bombay 1; Rs. 2,20,645. (516—E-723).

University of Bombay Endowment Accounts, The Registrar of the University, Bombay 1; Rs. 2,79,368. (E-183).

Scholarships—Foreign

Sir Dorabji Tata Trust, Prof. Rustom Donsabhy Chokai, Bombay House, 24, Bruce Street, Fort; Rs. 18,40,443. (239—E-304).

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Scholarships—Research

Sir Dorabji Tata Trust, Prof. Rustom Donsabhy Chokai, Bombay House, 24, Bruce Street, Fort; Rs. 18,40,443. (239—E-304).

Tata Institute of Fundamental Research, B. Chokai, Tata Institute, Apollo Pier Road, Bombay 1; Rs. 6,08,353. (E-660).

Schools—Commercial and Industrial

The Dawoodbhoy Fasalbhoy Muslim Educational Trust, 42, Pydhonie Road, Bombay; Rs. 2,75,500. (194—B-611).

The Behramji Nowroji Gamadia Parsi Hunnarshala Trust, Meherji Behramji Khambatta, Gamadia Colony, 8, Tardeo Road, Bombay 7; Rs. 2,48,998. (95—C-87).

Trusts of the Funds and Properties of the Parsi Panchayat, Bombay, The Joint Secretary, Parsi Panchayat, 209, Dr. Dadabhai Naoroji Road, Fort; Rs. 11,32,606. (702—C-416).

The Children Aid Society, The Hon. Secretary, 83, Lady Hardinge Road, Mahim, Bombay 16; Rs. 9,06,453. (121—F-205).

The Social Service League, The Secretary, Servants of India Society's Home, Sandhurst Road, Bombay 4; Rs. 2,54,458. (330—F-152).

Stri Zarthosti Mandal and Sir Ratan Tata Industrial Institute, The Hon. Gen. Secretary, 85, Hughes Road, Bombay 7; Rs. 7,10,225. (F-326).

Schools—Primary, Secondary

Habib Ismail Memorial Trust, Rasool A. Rangoonwala, 125, Jail Road (East), Bombay 9; Rs. 4,78,455. (278—B-501).

The Bombay Education Society (in which is incorporated the Indo-British Institution), The Venble A. S. M. Johnson, Hon. Secretary, Bombay Education Society, Clare Road, Byculla, Bombay 8; Rs. 3,79,000. (112—E-776).

Seth Goudaldas Tejpal Charities Trust, Secretary, V. H. Bhatt, G.T. Charities, 7, Bastion Road, Fort; Rs. 4,24,804. (281—E-900).

Bal Kabibai and Hansaraj Morarji Trust, 26, Holi Chakia, Fort; Rs. 4,26,954. (393—E-585).

Vanita Vahram, The Hon. Secy., Sandhurst Road, Bombay 4; Rs. 2,06,611. (866—E-568).

Aryana Education Society, Joint Hon. Secretary, 75, Girgaum Road, Bombay 4; Rs. 3,51,036. (27—F-393).

Chikitsaka Samuha, The Hon. Secretary, 52, Sadashiv Cross Lane, Girgaum, Bombay 4; Rs. 2,38,783. (120—F-110).

Santa Crus Education Society, Ramdeoji A. Podar, Podar Chambers, Parsi Bazar Street,

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The Social Service League, The Secretary, Servants of India Society's Home, Sandhurst Road, Bombay 4; Rs. 2,54,458. (330—F-152).

Shree Vile-Parle Kelavani Mandal, c/o G.F.F. High School, Dadabhai Road, Vile-Parle (West); Rs. 2,24,154. (865—F-30).

The Diamond Jubilee Trust, Bombay, Smt. Zarina E. G. Currimbhoy, Khoja Jamatkhan Compound, Chinch Bunder Road, Khadak, Bombay 9; Rs. 3,16,280. (B-755).

Church of St. Francis Xavier, Dabul, Burrows Lane, Bombay 2, Very Rev. Mgr. Basilio A. Pinto, Burrows Lane, Bombay 2; Rs. 3,09,501. (D-123).

The Anglo-Scottish Education Society, Hon. Secretary, 6, Outram Road, Bombay 1; Rs. 3,37,513. (D-72).

The Bombay St. Xavier's Society, Rev. A. Balta, S.J., Treasurer, St. Xavier's High School, Carnac Road, Bombay 1; Rs. 2,76,789. (F-454).

The Provincial Society of the Congregation of Jesus and Mary, Rev. Mother St. Ursula, Convent of Jesus & Mary, Clare Road, Byculla, Bombay; Rs. 3,41,560. (F-428).

The Bombay St. Mary's Society, The Rector, St. Mary's High School, Nesbit Road, Mazagaon, Bombay 10; Rs. 5,25,207. (F-429).

The Don Bosco Society, The Prefect, Don Bosco High School, Matunga, Bombay 19; Rs. 2,07,000. (F-430).

St. Joseph Convent, Rev. Sister Provincial, Hill Road, Bandra, Bombay 20; Rs. 10,49,501.

Bharatiya Vidya Bhavan, Charandas Meghji, Chowpatti Road, Bombay 7; Rs. 4,30,032. (F-358).

The Bombay Prarthana Samaj, B. A. Rege, Asstt. Secretary of the Samaj, Charni Road, Bombay No. 4; Rs. 2,53,451. (F-130).

The Church of Scotland Western India Mission, c/o Wilson College, Bombay 7; Rs. 3,26,600. (F-366).

Indian Education Society, Velji Lakhamsi I.E.S. Hindu Colony, Dadar, Bombay; Rs. 6,14,054. (F-190).

Schools—Technical

Habib Ismail Memorial Trust, Rasool A. Rangoonwala, Habib Ismail Memorial Trust, 125, Jail Road (East), Bombay 9; Rs. 4,78,455. (278—B-501).

The Social Service League, Secretary, Servants of India Society's Home, Sandhurst Road, Bombay 4; Rs. 2,54,458. (330—F-152).

Victoria Jubilee Technical Institute, The Principal and Secretary, Matunga, Bombay 19; Rs. 3,11,193. (359—F-170).

Welfare—Animals and Birds

(Shri) Madhavbag and Laxminarayan Temple Trust, Manordas Tribhovanadas, Shri Madhavbag Trust, C.P. Tank Road, Bombay 3; Rs. 2,07,864. (901—A-139).

The N. M. Wadia Charities, R. A. Dalal, Secretary, The N. M. Wadia Charities, 22D, Parsi Bazar Street, Fort; Rs. 7,10,836. (627—E-152).

The Bombay Society for the prevention of cruelty to Animals including the Bal Sakarbal Dinshaw Pettit Hospital for Animals, The Secretary and Treasurer, No. 1, Government Gate Road, Parel, Bombay 12; Rs. 3,76,484. (97—F-304).

Shri Ghatkopar Sarvajani Jiva Daya Khatu, Agra Road, Ghatkopar (C. Rly.), Greater Bombay; Rs. 3,41,900. (A-912).

The Bombay Panjarapol, The Secretary of the Institution, Bhuleswar, Bombay 4; Rs. 5,34,524. (E-127).

Bombay Gaurakshak Mandal, Hon. Jt. Secretaries, Mulji Jetha Cloth Market Hall, Bombay 2; Rs. 2,62,446. (F-5).

Welfare—Children and Women

The Bombay Mothers' and Children's Welfare Society, Dr. Krishnarao Shripat Mhaskar, No. 10, B.D.D. Chawl, Deltale Road, Bombay 11; Rs. 2,13,755. (84—F-137).

The Children's Aid Society, The Hon. Secy., 83, Lady Hardinge Road, Mahim, Bombay 16; Rs. 9,06,453. (121—F-205).

Seva Sadan Society, Miss B. A. Engineer, Seva Sadan, Gamdevi, Bombay 7; Rs. 3,44,785. (319—F-125).

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Agents.—In all the principal countries of the world.

BANK OF JAIPUR, LTD.

(INCORPORATED IN JAIPUR, LIABILITY OF MEMBERS LIMITED).

HEAD OFFICE—Jaipur. CAPITAL—AUTHORISED Rs. 2,00,00,000; ISSUED & SUBSCRIBED Rs. 1,00,00,000; PAID-UP Rs. 50,00,000; RESERVE & OTHER FUNDS Rs. 25,00,000. BRANCHES.—Bombay, Madras, Bangalore, Delhi, Calcutta and in other important towns in India and Rajasthan Union.

THE BANK OF MAHARASHTRA, LTD.

REGISTERED OFFICE.—Bajirao Road, Poona 2.

CAPITAL ON 31ST DECEMBER 1958.

PAID-UP Rs. 26,00,000

RESERVE AND OTHER FUNDS 13,00,000

TOTAL WORKING FUNDS EXCEED 12,00,00,000

BOARD OF DIRECTORS:

V. P. Varde (Chairman), N. G. Pawar (Vice-Chairman), D. K. Sathe, F. D. Pudumjee, M. V. Shah, B. M. Gupta, R. B. M. B. Jambhekar and M. S. Parkhe.

BRANCHES:

Ahmednagar, Akola, Amraoti, Aurangabad, Belgaum, Bombay (Fort, Girgaon, Zaveri Bazar, Slon, Dadar), Bhilwandi, Chalisgaon, Dhulla, Harihar, Hingoli, Hubli, Hyderabad (Dn.), Jalgaon, Jalna, Kalyan, Kirokarwadi, Kolhapur, Kopergaon, Latur, Mominabad, Nagpur, Nanded, Nasik, Panvel, Parli Vajjanath, Poona (Bhavani Peth, Deccan Gymkhana, Kirkee, Shivaji Nagar, Somwar Peth, Tilak Road), Ratnagiri, Sangli, Sholapur (Phaltan Gali and Morarji Peth), Shrirampur and Thana.

MANAGER: C. V. Joag, B.Com., F.I.B. (Lond.).

THE BANK OF TOKYO, LIMITED

(Successor to The Yokohama Specie Bank Ltd.).

Incorporated in Japan.

Liability of Shareholders Limited.

Head Office:

Nihombashi, Chuoku, TOKYO (Japan).

Bombay Branch:

"Jeevan Prakash", Sir Phirozshah Mehta Road, Fort, Bombay.

MANAGER: MR. K. HASHIMOTO.

Calcutta Branch:

No. 5, Clive Row, Calcutta.

MANAGER: MR. M. TOYAMA.

Karachi Branch:

Qamar House, Bunder Road, Karachi 2.

MANAGER: MR. S. NAKAI.

BOMBAY MERCANTILE CO-OPERATIVE BANK LIMITED

ESTD. JUNE 1939.

HEAD OFFICE: 78, Mohamedali Road, Bombay 3.

Phone: 30017 (3 lines).

AUTHORISED CAPITAL	..	..	..	Rs. 10,00,000
ISSUED, SUBSCRIBED AND PAID-UP	..	..	..	..
CAPITAL	..	..	..	5,32,000
RESERVE AND OTHER FUNDS	..	..	..	3,46,000
DEPOSITS	..	..	..	123,79,000
WORKING CAPITAL	..	..	..	141,16,000
CASH AND INVESTMENTS IN GOVT. SECURITIES	..	..	..	86,83,000

Annual Turnover Exceeds Rupees Eighteen Crores (Government Audit Classification "A").

CHAIRMAN:—Khan Bahadur Mohamedally Allabux.

GENERAL MANAGER:—Z. G. Rangoonwalla.

Branches:—Jariwalla Building, Null Bazar, Bombay 3. Phone: 78378. 294, Abdulrehman Street, Bombay 3. Phone: 30017 (3 lines).

All kinds of Banking Business Transacted.

THE BOMBAY STATE CO-OPERATIVE BANK, LTD.

9, Bakehouse Lane, Fort, Bombay 1.

(Established in 1911).

CHAIRMAN.—Shri Ramanlal G. Saraiya, O.B.E.

Money Deposited with this Bank helps the Indian Agriculturists and Co-operatives.

PAID-UP SHARE CAPITAL:

Subscribed by the Share Holders Rs. 46,00,000

Subscribed by the Govt. of Bombay Rs. 81,00,000

RESERVE AND OTHER FUNDS	..	..	..	Rs. 1,27,00,000
TOTAL DEPOSITS	..	..	..	Rs. 55,00,000
WORKING CAPITAL	..	..	..	Rs. 12,00,00,000
	..	..	..	Rs. 27,00,00,000

BRANCHES AND AFFILIATES AT 304 PLACES IN BOMBAY STATE.

Collection arrangements in all the important Cities of Indian Union. Banking business of every description transacted. Deposits of all kinds accepted. Terms on application.

G. M. Laud,
Managing Director.

THE BRITISH BANK OF THE MIDDLE EAST

(Incorporated in England by Royal Charter 1889)

HEAD OFFICE:—7, King William Street, London E.C. 4.

AUTHORISED CAPITAL	..	..	..	£2,500,000
ISSUED AND FULLY PAID-UP	..	..	..	£2,000,000
RESERVE FUND	..	..	..	£2,171,884

BOARD OF DIRECTORS:—Sir Dallas Bernard, Bt. (Chairman); G. C. R. Eley, O.B.E. (Deputy Chairman); Sir Kinahan Cornwallis, G.O.M.G., O.B.E., D.S.O., F. Hale, Sir Alec Seath Kirkbride, K.C.M.G., C.V.O., O.B.E., M.C., M. R. Norman, O.B.E., S. J. Pears, F.C.A.

General Manager: H. Musker, O.B.E., M.C.

Deputy General Manager: C. F. Warr, O.B.E.

Branches:—ADEN—Crater; INDIA—Bombay; IRAQ—Baghdad, Basra, Mosul; JORDAN—Amman, Jerusalem; LEBANON—Beirut, Tripoli; LIBYA—Benghazi, Tripoli; PERSIAN GULF—Abu Dhabi, Bahrain, Dubai, Kuwait (and Ahmadi), Muscat, Qatar (Doha), Sharjah; SAUDI ARABIA—Alkhobar (for Dhahran), Jeddah; TUNISIA—Tunis; UNITED ARAB REPUBLIC Syrian Region—Aleppo, Damascus.

Bombay Branch:—314, Dr. Dadabhai Naoroji Road; Manager:—P. L. Sandeman, Sub-Manager:—R. C. V. F. Backett. Telephone: 252267-68. Tel. Add.: "BACTRIA".

CANARA BANK, LIMITED

(Established in 1906). HEAD OFFICE:—Mangalore, South Kanara, Administrative Office: Bangalore. CHAIRMAN.—A. Damodar Pal, B.A., B.L. GENERAL MANAGER:—P. S. Nayak, B.A., B.L., F.I.B. Foreign Departments in Bombay and Madras. LOCAL BRANCHES:—1. Fort:—Sir Phirozshah Mehta Road. 2. Mandvi:—First Floor, 74-76, Kazi Syed Street, Khadd Bazaar. 3. Kalbadvi:—304, Angrewadi, near Swadeshi Market. 4. Girgaum:—Sri Pant Bhuwan, Charni Road. 5. Bandra:—133-B, Hill Road. 6. Slon:—Mukund Nivas, near Bus Stop. 7. Worli:—86, Dr. Annie Besant Road. 8. Mazagaon:—88/42, Dockyard Road. 9. Dadar:—51, Ranade Road Extension. 10. Matunga:—Broadway, Kings Circle. Altogether 68 branches in all important commercial centres in the States of Madras, Bombay, Andhra Pradesh, Mysore, and Kerala.

CANARA BANKING CORPORATION, LIMITED

(Estd. 1906). HEAD OFFICE:—UDUPI (South Kanara). CAPITAL:—AUTHORISED Rs. 25,00,000; ISSUED, SUBSCRIBED, CALLED AND PAID-UP Rs. 20,00,000; RESERVES Rs. 13,55,000; TOTAL WORKING CAPITAL exceeds Rs. 7,49,52,000 as on 31-12-1957. BRANCHES:—Fort, Bombay Office:—"Lentin Chambers", Ground Floor, Dalal Street, Fort. Telegrams: "BANKING." Phone No. 252977. Mandvi—Bombay Office: 209/211, Narsi Natha Street, Bombay 9. Telegrams: "Ready Money." Phone No. 78342. Other 51 Branches in the States of Madras, Andhra, Bombay, Mysore, Kerala and West Bengal. Banking Business of every Description Transacted. GENERAL MANAGER:—V. R. Kamath, B.A., LL.B. AGENT AT FORT, BOMBAY:—M. Sanjiva Kamath, B.A., O.A.L.L.B. AGENT AT MANDVI, BOMBAY:—M. G. Bhat.

THE CANARA INDUSTRIAL & BANKING SYNDICATE, LIMITED

HEAD OFFICE:—UDUPI (South India).

AUTHORISED CAPITAL	Rs. 56,00,000;	RESERVES	Rs. 25,50,000;
ISSUED CAPITAL	Rs. 32,23,787;	DEPOSITS	Rs. 13,11,60,000;
SUBSCRIBED CAPITAL	Rs. 32,10,987;		
PAID-UP CAPITAL	Rs. 28,96,000;	RESOURCES	of Rs. 17,07,45,000.

As on 31st December 1958.

Board of Directors:

Dr. T. M. A. Pal, M.B.E.S., CHAIRMAN AND MANAGING DIRECTOR.

A. L. N. Rao, B.A., B.L.
P. F. Rao, B.A., B.L.
M. N. Prabhu Shiroorkar
B. Padmanabha Pal

V. V. Shanbhag
L. H. Prabhu, B.A., LL.B.
K. Gururaja Rao, B.A., B.L.

GENERAL MANAGER:—

T. A. Pal, B.Com. (Bom.), A.I.L.B., F.R. Econ. S. (Lond.).

BOMBAY OFFICES:—

Sir Phirozshah Mehta Road, Fort.

Manager: K. L. V. Nayak.

83/85, Kazi Sayed Street, Mandvi.

Manager: K. G. Kamath.

120 Branches through South India—States of Mysore, Kerala, Andhra, Bombay and Madras—and Agencies all over India.

THE CENTRAL BANK OF INDIA, LIMITED

(Established—December, 1911)

HEAD OFFICE: Mahatma Gandhi Road, Fort, Bombay 1.

AUTHORISED CAPITAL	Rs. 6,30,00,000
SUBSCRIBED CAPITAL	5,76,66,125
PAID-UP CAPITAL	3,14,54,250
RESERVE FUND & OTHER RESERVES ..	4,04,68,516
DEPOSITS AS AT 31-12-1958	1,62,32,43,651

DIRECTORS:

Sir Homi Mody, K.B.E. (*Chairman*); Cooverji Hormusji Bhabha, Esq. (*Vice-Chairman*); Dinshaw D. Romer, Esq.; Dharamsey Mulraj Khatau, Esq.; C. P. Wadia, Esq.; Chimanlal Bapalal Parikh, Esq.; Framroze J. Guddar, Esq.; Sir Jamsetjee Jejeebhoy, Bart.; His Highness Sir Jiwajirao Madhavrao Scindia, G.C.S.I., G.C.I.E., Maharaja of Gwalior; Jaykrishnan Harivallabhdas, Esq.

Branches and Pay Offices in all important Commercial Centres of India, Pakistan and Burma.

LONDON BRANCH:

159, Fenchurch Street, London, E.C. 3.

NEW YORK AGENTS:

The Guaranty Trust Co. of New York.
The Chase Manhattan Bank.

N. K. Karanjia,
GENERAL MANAGER.

THE CHARTERED BANK

(INCORPORATED IN ENGLAND BY ROYAL CHARTER, 1853.)

Wholly owned subsidiary bank: The Eastern Bank Ltd.
Affiliated bank in India: The Allahabad Bank Ltd.

CAPITAL	£ 5,000,000
RESERVE FUND	£ 5,500,000

HEAD OFFICE:—38, Bishopsgate, London, E.C. 2.

COURT OF DIRECTORS.—Vincent Alpe Grantham (*Chairman*); Sir John Tait (*Deputy Chairman*); Sir Paul Benthall, K.B.E.; Sir Arthur Atkinson Bruce, K.B.E., M.C.; William Ewing Eadie, C.A.; Sir Stephen Gibson, C.B.E.; Sir Harry Greenfield, C.S.I., C.I.E.; The Rt. Hon. The Earl of Incheape; Sir Evan Meredith Jenkins, G.C.I.E., K.C.S.I.; Ian Lilburn MacEwen; Sir Charles Watt Miles, O.B.E.; Ernest John Paken, C.B.E.; Sir John Henry Swain Richardson; Clifford Walte, C.M.G.

CHIEF GENERAL MANAGER.—W. G. Pullen.**JOINT GENERAL MANAGERS.**—D. Beath, S. C. R. Northcote, G. A. Lelper.**ASST. GENERAL MANAGERS.**—J. Shewan and A. T. Hobbs.**SECRETARY.**—H. E. Faulkner.**WEST END BRANCH.**—28, Charles II Street, Haymarket, London, S.W. 1.**MANCHESTER BRANCH.**—52/54, Mosley Street, Manchester 2.**LIVERPOOL BRANCH.**—28, Derby House, Exchange Buildings, Liverpool, 2.**NEW YORK AGENCY.**—65, Broadway, New York City, 6, N.Y., U.S.A.**HAMBURG AGENCY.**—Borsenbrücke, 2a, Hamburg II, Germany.**BOMBAY BRANCH.**—Mahatma Gandhi Road. *Manager.*—F. E. H. Goddard; *Sub-Manager.*—J. E. Pipe; *Accountant.*—J. Russell.**TELEGRAPHIC ADDRESS.**—"Bungalow." Phone No. 255241 (4 Lines). P. O. Box No. 555.**REPRESENTATIVE OFFICE****THE CHASE MANHATTAN BANK, NEW YORK**

(Incorporated with limited liability under the laws of the State of New York.)

CAPITAL \$163,625,000; **SURPLUS** and **UNDIVIDED PROFITS** \$461,408,610. **TOTAL RESOURCES** OVER \$7,836 million. **HEAD OFFICE.**—18, Pine Street, New York 15. **Ninety-nine Offices** in Greater New York. **MAIN LONDON OFFICE.**—6, Lombard St., E.C. 3; **WEST END BRANCH.**—46, Berkeley Square, W. 1; **Other Branches** in France (Paris), Germany (Frankfurt/Main), Lebanon (Beirut), Japan (Tokyo, Osaka), Cuba (4), Panama (3), Canal Zone (2), Puerto Rico (3). **Representative Offices** at Washington, D.C., Buenos Aires (Argentina), Caracas (Venezuela), Rome (Italy), Continental Europe (Paris), Mexico, D. F., Rio de Janeiro (Brazil). **Correspondents** throughout the commercial world. **BOMBAY REPRESENTATIVE OFFICE.**—New India Assurance Building, Mahatma Gandhi Road, Post Box No. 1961. **Telephone:** 252759. **Representative.**—Robert A. Fetherston.

COMPTOIR NATIONAL D'ESCOMPTE DE PARIS

(FRENCH BANK).

(Incorporated in France with limited liability.)

HEAD OFFICE:—14, Rue Bergère, Paris.**LONDON BRANCH.**—8/13, King William Street, E.C. 4.**TELEGRAPHIC ADDRESS** FOR H.O. AND BRANCHES: "COMPTONIA".**BOMBAY OFFICE.**—French Bank Building, 62, Hornji Street, Fort.

MANAGER.—E. Finot. **Sub-Manager:** J. Lamy. **1st Asst. Mgrs.:** P. K. Badle and A. Bourgault. **Asst. Mgrs.:** Y. N. Chawathe, G. W. Kothare and M. Veillet Lavallee. **Attorneys:** H. N. Dighe and V. V. Kothare. **Relations-Officer:** A. F. D'Souza. **Phone:** 251347-8-9, P.O. Box No. 45.

CALCUTTA OFFICE:—Stephen House, 4A, Dalhousie Square East. **Phone:** 232815/6. **P.O. Box No.** 327.

NEW DELHI—REPRESENTATION:—19, Ratendon Road, **Phone:** 42517.

Other Branches: Brussels, Sydney, Melbourne and over 700 in France, Madagascar, Algeria and Tunisia. (Affiliate—French American Banking Corporation, New York).

DAXINI BRAHMAN CO-OPERATIVE BANK LTD.

Jayant Nivas, 163-165, Girgaum Road, Bombay.

Branch Office: Bhagirthi Nivas, N. C. Kelkar Road, Dadar, Bombay 28. **Membership** open to Daxini Brahman community above the age of 18, residing in the greater Bombay and the area upto Virar & Kalyan. **Subscribed Capital** Rs. 2,50,000. **Reserves** Rs. 2,30,000. **Current and Savings Bank accounts** can be opened by members, non-members inclusive of other Communities also. **Advances** to members against Gold, Silver, Government Securities, Life Insurance policies, goods, etc., are made. **Advances** against Gold and Silver to nominal members. **Nominal Membership** open to all communities. **Transacts** all kinds of Banking Business. **Phone** Nos. **Head Office:** 27738. **Branch:** 61814.

DEVKARAN NANJEE BANKING CO., LTD.

(Incorporated in Bombay under the Indian Companies Act on 26th

May 1938.)

AUTHORISED CAPITAL	Rs. 1,00,00,000
ISSUED, SUBSCRIBED AND PAID-UP CAPITAL ..	50,00,000
RESERVE FUNDS	46,00,000
DEPOSITS EXCEED	30 Crores
WORKING FUNDS EXCEED	37 ..
NO. OF ACCOUNTS EXCEEDS	1,50,000

BOARD OF DIRECTORS:—Lalitchandra C. D. Nanjee (*Chairman*); Prince Udaybhan Yuvaraj Shree of Porbandar; Natvarlal S. Choksey; M. A. Master, B.A., LL.B.; Jayantilal R. Trivedi; Laxmikant S. Dabholkar, J.P.; Harshadrai B. Parekh; Dhirendra N. Mehta.

MG. DIRECTOR.—Pravinchandra V. Gandhi, A.I.L.B.**SECRETARY.**—Ratilal R. Merchant, B.A., LL.B., A.I.L.B.**CHIEF SUPDT.**—Haridas K. Swali, A.I.L.B.**CHIEF ACCOUNTANT.**—O. V. Subramaniam, M.A., A.I.L.B.

HEAD OFFICE.—Devkaran Nanjee Buildings, Elphinstone Circle, Fort, Bombay. **Phone No.** 255327. **Telegraphic Address:** "DENABANK." **Post Box No.** 41.

BRANCHES:

80 Offices & 18 Safe Deposit Vaults.

BOMBAY: (26 Branches) *Horniman Circle, Andheri, Bhuleshwar, *Borivli, Chembur, *Colaba, *Dadar, *Ghatkopar, Gol Deval, Goregaon, Kalbadevi, Kandivli, Khar, Kurla, *Malabar Hill, Malad, Mandvi, *Matunga, Sandhurst Bridge, *Santacruz, *Share Bazar, Tardeo, Thakurdwar, Vile Parle (East), *Vile Parle (West), *Zaveri Bazar.

CALCUTTA: (2 Branches) 16-A, Brabourne Road & Burra Bazar.**NEW DELHI:** 9-E, Connaught Place.**DELHI:** Chandni Chowk, Near Clock Tower.**MADRAS:** 193/4, Netaji Subhaschandra Bose Road, G.T.**BANGALORE:** 65, Avenue Road.**COCHIN:** P.O. Box No. 57, Mattancherry.**MANGALORE:** Bunder Road.

GUJARAT: (21 Branches) Delhi Chakia, Ahmedabad, *Gandhi Road, Ahmedabad, Maskati Market, Ahmedabad, Manek Chowk, Ahmedabad, *Maninagar, Ahmedabad, Saraspur, Ahmedabad, Anand, Baroda, Hardoll, Broach, Borsad, Bulsar, Godhra, Lunawada, Nadiad, Navsari, Padra, Patan, Sidhpur, Surat, Viramgam.

SAURASHTRA: (13 Branches) Amreli, *Bhavnagar, Damanagar, Dhrangadhra, Jamnagar, Junagadh, Mahuva, Morvi, Probandar, *Rajkot, Savar Kundla, Surendranagar, Veraval.

MAHARASHTRA: (11 Branches) Ahmednagar, Baramati, Malegaon, Mahinad, Nasik City, Nasik Road, Budhwar Peth, Poona, Camp, Poona, *Raviwar Peth, Poona, Sholapur, Walchandnagar.

MADHYA PRADESH: Burhanpur.

GENERAL BANKING BUSINESS TRANSACTED AND INLAND AND FOREIGN LETTERS OF CREDIT ARRANGED

*Has Safe Deposit Vault.

FOREIGN AGENTS.—Barclay's Bank Ltd., London and The Chase Manhattan Bank, London & New York.

EASTERN BANK, LIMITED

(Incorporated in England—1909, the liability of members being Limited).

(Wholly owned Subsidiary of the Chartered Bank).

(Incorporated by the Royal Charter, 1853).

HEAD OFFICE:—2 & 3 Crosby Square, London, E.C. 3.

SUBSCRIBED CAPITAL: £2,000,000. PAID-UP CAPITAL: £1,000,000. RESERVE FUND: £1,500,000. RESERVE LIABILITY OF SHAREHOLDERS: £1,000,000. BOARD OF DIRECTORS: Sir Ewan Meredith Jenkins, G.O.I.E., K.C.S.I. (Chairman); Roger Leigh-Wood (Dy. Chairman); Sir Thomas Joseph Strangman, G.O., Anthony Charles Barnes, D.S.C., O.B.E., Sir Tom Hickbotham, K.C.M.G., K.C.V.O., C.I.E., O.B.E., Vincent Alpe Grantham & Howard Frederick Morford. Bombay Office—Corner of Dr. Dadabhai Nowroji Road and Veer Nariman Road. Manager: C. Raymond. Accountant: B. Parkin. Tel. address: "EASTERTIDE". Telephone No. 255056. P.O. Box No. 219. Branches: Aden (Crater), Amarah, Baghdad, Bahrain, Basra, Beirut (Lebanon), Bombay, Calcutta, Colombo, Doha (Qatar), Karachi, Kirkuk, Kuala Lumpur, Madras, Mosul, Mukalla (Hadhramaut, East Aden Protectorate), Sharjah and Singapore.

FRENCH BANK

(Incorporated in France with Limited Liability).

See COMPTOIR NATIONAL D'ESCOMPTE DE PARIS.

THE FIRST NATIONAL CITY BANK OF NEW YORK

Incorporated with limited liability in the U.S.A.

Established 1812

General Banking and Exchange Business throughout the world.

DEPOSITS \$ 7,009,693,384

CAPITAL \$ 240,000,000

SURPLUS & UNDIVIDED PROFITS as on

December 31, 1958 \$ 473,179,286

HEAD OFFICE.—55, Wall Street, New York, with 77 Branches in Greater New York. LONDON OFFICE.—117, Old Broad Street, London, E.C. 2. Branches in Argentina, Brazil, Canal Zone, Chile, Colombia, Cuba, England, France, Hong Kong, Japan, Lebanon, Mexico, Paraguay, Peru, Philippines, Puerto Rico, Republic of Panama, Saudi Arabia, Singapore, United Arab Republic, Uruguay, and Venezuela. AFFILIATES—The Bank of Monrovia in Liberia and the First National City Bank of New York (South Africa) Ltd., Johannesburg. REPRESENTATIVE OFFICE.—Frankfurt, Germany. Correspondents in every commercially important city in the world.

BOMBAY OFFICE.—Bombay Mutual Building, 293, Dr. Dadabhai Naoroji Road, Fort. Resident Vice-President: F. de C. Matthews; Manager: R. E. Grant; Sub-Managers: J. K. Cowan, M. Ratnakar Rau, S. B. Tare; Accountant: N. P. Korday; Pro-Managers: G. L. Heck, K. S. Karant and F. W. O'Malley; Sub-Accountants: G. J. Joshi, G. A. Klam, D. M. Shanbhag and A. K. Varma.

Tel. Address: "CITIBANK".

Phone No. 26-3131. P. O. Box No. 175.

CALCUTTA OFFICE.—Bombay Mutual Building, 9, Brabourne Road. Manager: E. R. Cutting; Sub-Managers: T. G. Harding and B. B. L. Kapoor; Accountants: H. H. Mitchell and S. N. Vittalrao; Pro-Managers: T. C. Sanyal; Sub-Accountants: G. Bose, R. C. Dubal, K. W. Lussier, N. Krishnan and M. V. Stolen.

Tel. Address: "CITIBANK".

Phone No. 22-5741. P.O. Box No. 655.

CODES USED: Bentley's Complete and Second phrases; Peterson's International 3rd Edition; A.B.C. 6th Edition.

THE HONGKONG AND SHANGHAI BANKING CORPORATION

(Incorporated in Hong Kong, with limited liability).

HEAD OFFICE.—Hong Kong.

CHIEF MANAGER.—The Hon. Michael W. Turner, C.B.E.

BOMBAY OFFICE.—16, Vir Nariman Road, Fort.

CAPITAL AUTHORISED HK. \$ 100,000,000

(Rs. 8,33,33,333)

CAPITAL ISSUED AND FULLY PAID-UP .. HK. \$ 61,887,625

(Rs. 5,15,73,021)

RESERVE FUNDS STERLING Stg. \$ 8,000,000

(Rs. 10,66,66,667)

Manager:

F. R. Burch.

Accountant:

F. G. A. Cantopher.

ASSISTANTS:—P. M. Ryan, R. M. Fogt, J. Paton, S. F. Fairchild, M. R. N. Martin, P. C. Fernandes, Y. J. Vacha and R. N. D'Souza.

Telegraphic Address.—"CASSANDRA." Telephone Nos. 255621, 255622, 255623. P.O. Box No. 602.

INDIAN BANK LIMITED

(ESTD. 1907.)

MADRAS.

OFFICES IN BOMBAY: 1. United India Life Assurance Bldg., Sir Phiroozshah Mehta Road, Fort. 2. Lakhamsey Napoo Road, Matunga (Central Bly.), Bombay 19. 3. 281/88, Narsi Natha Street, Mandvi, Central Bly., Bombay. AUTHORIZED CAPITAL—Rs. 1,00,00,000. SUBSCRIBED CAPITAL—Rs. 72,00,000. CALLED & PAID-UP CAPITAL—Rs. 66,19,625. SHARE PREMIUM: Rs. 31,17,300. RESERVE FUND—Rs. 60,44,584. DEPOSITS—Rs. 38,00,96,415. With a network of Branches and Sub-Offices in all the important places in Calcutta and New Delhi. Overseas branches at Singapore, Kuala Lumpur, Penang, Malacca and Colombo. London Agents: Westminster Bank Ltd. New York Agents: First National City Bank of New York. Secretary: D. P. P. Iyengar.

THE INDIAN OVERSEAS BANK, LIMITED

Central Office:

151, Mount Road, Madras 2.

AUTHORIZED CAPITAL Rs. 1,00,00,000

PAID-UP CAPITAL " 62,48,125

RESERVES " 52,36,659.50

CHAIRMAN:—M. CT. Muthiah, Esq.

GENERAL MANAGER:—C. P. Doraikannu, Esq.

Branches at:

Ahmedabad, Bombay, Calcutta, Cuttack, Madras, Hyderabad (Dn.), New Delhi and throughout South India, Colombo, Singapore, Ipoh, Klang, Malacca, Penang, Kuala Lumpur, Bangkok, Rangoon and Hong Kong.

Agents in all the Principal Commercial Centres of the World.

Every description of Banking business transacted and for those who trade Overseas, The Indian Overseas Bank Ltd., is particularly well equipped to deal with their requirements.

OFFICES AT BOMBAY:—(1) Elphinstone Building, 2/10, Veer Nariman Road, Fort. (2) 92, Kazi Syed Street, Bombay S. (3) Kanti Mahal, Vincent Road, Matunga.

JODHPUR COMMERCIAL BANK, LTD.

(Incorporated in Jodhpur State: Liability of Members is Limited).

AUTHORIZED CAPITAL Rs. 2 crores. SUBSCRIBED CAPITAL Rs. 1 crore. PAID-UP CAPITAL Rs. 50 Lakhs. RESERVE FUND Rs. 7,23,000. CHAIRMAN.—Shri Narayanlal Bansilal. BOARD OF DIRECTORS.—Shri Mukundlal Bansilal, Rai Saheb Shah Goverdhanlal Kabra, Capt. Rai Bahadur Sir Bhagchand Soni, Kt., O.B.E., Rao Saheb Hanumanbax Lalchand Mundra. Manager: N. L. Daga. REGISTERED OFFICE:—Jalori Gate, Jodhpur. CENTRAL OFFICE:—207, Kalbadevi Road, Bombay. BRANCHES: MARWAR.—Jalori Gate, Jodhpur; Khejarla House, Jodhpur; Kuchaman City, Nagaur; Merta City, Pali; BOMBAY.—53, Tamarind Lane, Fort; 207, Kalbadevi Road; 118-122, Kazi Syed Street, Mandvi; Municipal Building, Bhiwandi (Dist. Thana); Jambhali Naka, Thana; Shivaji Chowk, Kalyan.

LLOYDS BANK LIMITED

(Incorporated in England.)

HEAD OFFICE: London, E.C. 3.

EASTERN DEPARTMENT, 24, Threadneedle Street, London, E.C. 2.

AUTHORIZED CAPITAL £ 74,000,000

ISSUED CAPITAL AND PAID-UP .. £ 27,847,605

RESERVE FUND £ 18,000,000

DEPOSITS, ETC. £ 1,299,646,387

BOMBAY:—Lloyds Bank Building, Dr. Dadabhai Naoroji Road, P.O. Box 48; Telephone: 26-5421-2-3-4-5; Tel. Add.: "COXIA". Codes: Bentley's Complete and 2nd, Peterson's 1st, 2nd, 3rd and Private. MANAGER: J. K. Shute; SUB-MANAGERS: E. A. J. MacLaren and N. R. Bryant, 21-29, Princess Street (Sub-Branch to Bombay). Telephones: 30641 and 29692 (2 lines). Tel. Address: "COXIASUB."

MERCANTILE BANK LIMITED

(Incorporated in England.)

(Liability of Shareholders Limited.)

AUTHORISED CAPITAL	£4,000,000
PAID-UP CAPITAL	£2,940,000
RESERVE FUND	£2,200,000

HEAD OFFICE—15, Gracechurch Street, London, E.C. 3.

WEST END OFFICE—123, Pall Mall, London, S.W.1.

Branches & Agencies throughout India and the East.

CHIEF MANAGER	C. R. Wardle.
BOMBAY MANAGER	J. R. N. Shirreff.
SUB-MANAGER	H. Maitland.

THE MITSUI BANK, LIMITED

(Incorporated in Japan.)

(Liabilities of Shareholders Limited.)

AUTHORISED CAPITAL	Yen. 13,500,000,000.
PAID-UP CAPITAL	Yen. 4,500,000,000.

HEAD OFFICE : Nihonbashi, Muromachi, 2-Chome, Chuo-ku, TOKYO, Japan.

Branches throughout Japan.

OVERSEAS OFFICES : Bombay, London, Bangkok and New York.

BOMBAY BRANCH AT : 6, Wallace Street, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

MANAGER : Mr. Rintaro Miyake.

Telegraphic Address : "MITSUIBANK".

Telephone No. 26-4934 (3 lines).

NATIONAL AND GRINDLAYS BANK LTD.

(Amalgamating National Bank of India Ltd., and Grindlays Bank Ltd.)

Incorporated in the United Kingdom.

The Liability of Members is Limited.

Bankers to the Government in Aden, Kenya Colony, Zanzibar, Uganda and Somaliland Protectorate.

SUBSCRIBED CAPITAL	£4,562,500
PAID-UP CAPITAL	£2,851,563
RESERVE FUNDS	£3,168,579

HEAD OFFICE—26, Bishopsgate, London, E.C.2.

LONDON BRANCHES—54, Parliament Street, S.W.1.; 13, St. James's Square, S.W.1.

Overseas Branches throughout India, Pakistan, Ceylon, Burma, Kenya, Tanganyika, Zanzibar, Uganda, Aden, Somaliland Protectorate, Northern and Southern Rhodesia.

Every description of banking and exchange business is transacted. Savings Bank Accounts are opened.

Bombay Offices :

Main Office : 90, Mahatma Gandhi Road, Fort, Bombay 1.

Mint Road Branch : Corner of Mint Road and Sir Phirozeshah Mehta Road, Bombay 1.

THE NEW CITIZEN BANK OF INDIA, LIMITED

(ESTABLISHED 31ST JULY 1937.)

REGISTERED OFFICE :

Sir Vithaldas Chambers, 16, Apollo Street, Fort, Bombay 1.

PAID-UP SHARE CAPITAL AND RESERVES :—Over Rs. 16 lakhs.

Chairman : Sir H. P. Dastur, B.A., LL.B., Bar-at-Law.

Vice-Chairman : Shri Rahim Karim Mistry, J.P., Consul for Turkey.

Directors : Shri P. B. Gole, B.A., LL.B., Shri G. L. Natu, Seth Govindas Narayandas Banatwala, Srimant M. N. Ghatate, Shri D. D. Deshpande, B.A., J.P., and Shri M. N. Amersey.

GENERAL MANAGER.—Shri B. B. Masani, B.A., C.A.I.C.B.

SECRETARY.—Shri S. S. Nagarkar, B.A., LL.B.

43 Branches all over India.

LOCAL BRANCHES : Crawford Market, Dadar, Girgaon, Matunga, Queen's Road, Slon, Ville Parle.

All types of Banking transactions effected. Safe Deposit Vault at Queen's Road Branch.

For further information apply to :

B. B. Masani,
General Manager.**NORTH KANARA GOUD SARASWAT BRAHMIN CO-OPERATIVE BANK, LTD.**

Laxmi Sadan, 361, Vithalbhai Patel Road, Bombay. Chairman :—V. D. Musumdar, M.A. Vice-Chairman :—N. S. Wagle. *Jt. Hon. Secretaries* : G. M. Palekar and P. S. Kasbekar, M.A. AIMS AND OBJECTS :—To raise funds by Debentures, Deposits, etc., to be lent out at interest to members of the Bank against personal securities, gilt-edged securities and immovable properties and to undertake such other business on behalf of the members as is incidental to banking business.

THE PUNJAB NATIONAL BANK, LTD.

(Established in 1895.)

HEAD OFFICE : New Delhi.

AUTHORISED CAPITAL Rs. 2,00,00,000

ISSUED, SUBSCRIBED & PAID-UP CAPITAL

(INCLUDING BONUS ISSUE OF 3,75,000

RESERVE FUND AND OTHER RESERVES 1,27,00,000

DEPOSITS AND OTHER ACCOUNTS (as on 31-12-1958) Rs. 1,29,19,53,210
372 Offices in India, Burma and Pakistan. Transacts Banking and Foreign Exchange Business of every description.

Agents in United Kingdom : Midland Bank Limited, Westminster Bank Limited, N. M. Rothschild and Sons, Bank of America.

AGENTS IN U.S.A. : The First National City Bank of New York, Bank of America, National Trust and Savings Assn., Irving Trust Company.

BOMBAY OFFICES : Karimjee House, Sir Phirozeshah Mehta Road; Ilaco House, Sir Phirozeshah Mehta Road; Bhat Bazar; Mandvi; Lalji Ramji Bldgs., Mandvi; Sandhurst Road; Kalbadevi Road; Zaveri Bazar; Lal Baug; Chhabildas Road, Dadar (Western Rly.); Khodadad Circle, Dadar (Central Rly.).

Chairman.—Shanti Prasad Jain. General Manager.—A. M. Walker.

Secretary & Deputy Genl. Mgr.—R. L. Tull. Deputy General Manager—Mohan Singh. Chief Accountant—S. I. Verma. Staff Controller—Amar Singh Puri. Asst. General Manager—H. L. Bedi. Controller of Advances (A)—Ram Partap Chopra and Controller of Advances (B)—Someah Chandra Trikka.

Chief Inspector : T. S. Walnwright. Chief Manager, Foreign Exchange—R. A. Churchward.

Suptd. of Branches : A. L. Bhandari.

District Managers :—Sita Ram Mohindroo, Sri Krishna, S. N. Sharma, K. N. Mehra, B. G. Potnis, Y. Prasher, G. R. Bamba, G. L. Mehra and K. L. Bhandari. Manager, Bombay Branch :—Karimji House, Sir Phirozeshah Mehta Road, Fort.—G. D. Khanna.

RESERVE BANK OF INDIA

Incorporated under the Reserve Bank of India Act, 1934 (II of 1934) to regulate the issue of Bank notes and the keeping of reserves with a view to securing monetary stability in India and generally to operate the currency and credit system of the country to its advantage. Nationalised on 1st January 1949. Governor—H. V. R. Iyengar; Deputy Governors—Sarvaashri K. G. Ambegolkar, Ram Nath and B. Venkatapillai; Chief Accountant—C. S. Divekar; Principal Adviser—Dr. B. K. Madan; Secretary—K. N. Mehta; Officer-in-Charge, Legal Division—B. N. Mehta; Statistical Adviser,

Dept. of Research and Statistics—Dr. N. S. B. Sastry; *Deputy Economic Adviser, Dept. of Research & Statistics*—D. S. Savkar; *Deputy Controller, Exchange Control Department*—F. J. Jeejeebhoy; *Chief Officer, Dept. of Banking Operations*—M. S. Nadkarni; *Chief Officer, Dept. of Banking Development*—N. D. Nangia; *Chief Officer, Industrial Finance Department*—T. K. Ramasubramaniam; *Chief Officer, Agricultural Credit Dept.*—J. C. Ryan; *Bombay Manager*—B. V. Desai; *Calcutta Manager*—D. D. Pal; *Kanpur Manager and Currency Officer*—M. M. Mehra; *New Delhi Manager*—K. C. Mitta; *Madras Manager*—J. S. Jaspal; *Bangalore Manager and Currency Officer*—P. C. Sood; *Lucknow Manager*—D. B. Rama Rao (Offg.); *Nagpur Manager and Currency Officer*—R. M. Mathur; *London Manager*—V. G. Pendharkar (31-33, Bishopsgate, London, E.C. 2). *Officers and Branches of the Banking Department*—Bombay, Calcutta, Madras, New Delhi, Kanpur, Bangalore, Nagpur, London. *Branches of the Issues Department*—Bombay, Calcutta, New Delhi, Kanpur, Madras, Nagpur and Bangalore.

STATE BANK OF HYDERABAD

(Formerly known as Hyderabad State Bank and renamed as State Bank of Hyderabad under the State Bank of Hyderabad Act, 1956).

HEAD OFFICE: HYDERABAD (DN.) **AUTHORIZED CAPITAL:** Rs. 1,00,00,000; **ISSUED AND PAID-UP CAPITAL:** Rs. 50,00,000. Offers complete Banking Service through a network of Offices spread over Andhra Pradesh, Bombay, Madras and Mysore States and through its correspondents elsewhere in India. Foreign Exchange Business of all types undertaken. **BOMBAY OFFICE:** New India Assurance Building, Mahatma Gandhi Road, Fort. **MADRAS OFFICE:** 41, Linghi Chetty Street, George Town.

STATE BANK OF INDIA

(Constituted under the State Bank of India Act, 1955.)

AUTHORIZED CAPITAL Rs. 20,00,00,000
PAID-UP CAPITAL as on 31st December 1958 .. 5,62,50,000
RESERVE FUND AND OTHER RESERVES as on 31st December 1958 7,00,00,000
LOCAL HEAD OFFICES—BOMBAY, CALCUTTA, NEW DELHI and MADRAS.

LONDON OFFICE—25, OLD BROAD STREET, E.C. 2.

PRINCIPAL OFFICE IN PAKISTAN—KARACHI.

Over 720 offices, comprising 4 Local Head Offices, the office in London, 5 Offices in Pakistan, One Office each in Burma and Ceylon and Branches and Sub-Offices in India.

ALL CLASSES OF BANKING BUSINESS UNDERTAKEN INCLUDING FOREIGN EXCHANGE BUSINESS

UNION BANK OF INDIA, LIMITED

REGISTERED OFFICE—70/72, Apollo Street, Fort, Bombay.
SUBSCRIBED CAPITAL—Rs. 60,00,000. PAID-UP CAPITAL—Rs. 60,00,000. RESERVE FUND AND OTHER RESERVES—Rs. 45,00,000. DEPOSITS ON 31-12-1958 Rs. 24,62,29,528 **BRANCHES—**Abdul Rehman Street, Bombay; Bhat Bazar, Mandvi, Bombay; Kalbadevi Road, Cotton Exchange Building, Bombay; Katha Bazar, Bombay; Princess Street, Bombay; Bankatesh Bhavan, Sheikh Menon Street, Bombay; Zaveri Bazaar, Mulund, Opera House, Goregaon, Bombay; **OTHER BRANCHES:** In Saurashtra, Gujarat, Andhra, Calcutta, Delhi, Madras, Cochin, Poona, Kozhikode (Calicut) and Madurai. **SAFE DEPOSIT VAULTS—**Union Bank Bldg., Dalai Street, Fort, Bombay; Cotton Exchange Bldg., Kalbadevi Road, Bombay; Bhat Bazar, Mandvi, Bombay; Rajkot and Veraval. **DIRECTORS—**K. R. P. Shroff (Chairman); Devji Rattansey; Balkrishna Hariyaulabhadra; Jai H. Mehta; Ratilal Nathalal; Jaisinh Vithaldas; Pailonji S. Mistry. **GENERAL MANAGER—**F. K. F. Nariman. **SECRETARY—**D. A. Bijoor.

THE UNITED COMMERCIAL BANK, LTD.

REGISTERED OFFICE: Calcutta.

PAID-UP CAPITAL: Rs. 2,00,00,000. **RESERVE FUND:** 1,34,00,000. *Chairman:* G. D. Birla. *Bombay Committee of the Board:* M. R. Rula (Chairman); M. L. Dahanukar; M. L. Tapuriah; Y. N. Mafatal; T. S. Rajam; Dwarkadas Jamnadas; Babulal Rubna; G. J. Ruparal and Navalchand T. Shah. Branches in all important Cities and Towns of India. **FOREIGN BRANCHES:** London, Hongkong, Singapore, Penang, Rangoon and Karachi. **HEAD OFFICE:** Calcutta. **BOMBAY OFFICES:** Petit Building, Hornby Road, Fort; Near Cotton Exchange, Kalbadevi; Sonawala Building, Zaveri Bazar; Bharatiya Vidya Bhawan, Harvey Road, Chowpatty; Industry House, Churchgate Reclamation. *General Manager:* S. T. Sadasivan. *Dy. General Manager:* R. B. Shah. *Bombay Manager:* S. J. Utamsing.

UNITED WESTERN BANK, LTD.

BOMBAY OFFICE—Laxmi Insurance Building, Phirozshah Mehta Road, Bombay. (Registered on 17th October, 1936). *Head Office:* Satara. *Central Office:* Bombay. *Branches:* Girgaon (Bombay), Naalk, Poona, Barli, Lonand, Kolhapur, Halkarni. **AUTHORIZED CAPITAL—**Rs. 20,00,000. Transacts every kind of Banking Business, Loans, etc. *Chairman—*S. H. Sathe, B.A., LL.B.; *Manager—*S. H. Joshi, B.A., B.Com.; *Bombay Branch Manager—*N. G. Moghe, B.A., B.Com.

CLASSIFIED LIST OF OVERSEAS FIRMS WITH NAMES OF BOMBAY AGENTS/REPRESENTATIVES.

ABRASIVE WHEELS & GRINDING COMPOUNDS

Carborundum Universal Ltd., Madras and The Carborundum Co. Ltd., Manchester. Manufacturers of Grinding Wheels, Segments, Rubbing Bricks, Roll Scouring Blocks, Abrasive Sticks, Sharpening Stones, Valve Grinding Compound, Crucibles, etc. Distributors: William Jacks & Co., Ltd., Bharat House, Apollo Street.

ABRASIVES

Minnesota Mining & Mfg. Co. Ltd., Arden Road, Adderley Park, Birmingham 8. Agents: Gillanders Arbuthnot & Co. Ltd., 16, Queen's Road Estate, Bombay 1.

ACID AND ALKALI RESISTING CEMENTS

Acalor (1948) Ltd., London. Agents: Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

ACOUSTIC TILES

WMB International AB, Goteborg. Agents: Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

ADDRESSING MACHINES & BUSINESS SYSTEMS

ADREMA LIMITED, 2/10, Telford Way, East Acton, London, W. 3, England. Manufacturers of Adrema Addressing & Listing Machines. Address in India: Adrema Limited, Lakshmi Building, Sir Phipposhah Mehta Road, Fort.

ADJUSTABLE LOUVRE WINDOWS

James Sandy Pty., Ltd., Sydney, Australia. Agents: Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

AERATED WATER REQUISITES

Antoine Chiris, S. A., Grasse, France. Essential Oils, Natural and Synthetic, Soluble Essences, Flavours and Perfume compounds. Agents: Anil Trading Co., Sharaf Mansion, Princess Street, Bombay 2.

BOOTS PURE DRUG CO., LTD., England. (Sacharin.) Selling Agents: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

I.C.I. LTD., England. Alkali Division ('Melacox'). Agents: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

JOHN & E. STURGE LTD., England. (Citric Acid.) Agents: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

UNITED GLASS BOTTLE MANUFACTURERS LTD., Bottles. Agents: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

AERIAL MAPS AND SURVEYS

Hunting Aerosurveys Ltd., London. Air Survey and Photography, Mapping and Mosaicling. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Hunting Geophysics Ltd., Borehamwoods, Herts, England. Airborn Geophysical Surveys. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

AERIAL ROPEWAYS

Breco-Ropeways Ltd., High Holborn, London, W.C. 1. Aerial Ropeways, etc. Agents: Gillanders Arbuthnot & Co., Ltd., 16, Queen's Road Estate, Bombay 1.

AGRICULTURAL MACHINERY MFRS.

E. V. Twose Limited, Tiverton. Agricultural Implements. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Fisher Humphries Ltd., Pershore. Manufacturers of Agricultural Implements. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

International Harvester Export Co., Chicago, U.S.A. Agricultural Machinery and Implements, McCormick International Tractors (Agricultural & Industrial). Sole Distributors: Voltas Limited, Chinchpokli Road, Bombay 12.

Marshall, Sons & Co., Ltd., Gainsborough. Manufacturers of Tractors, Combine Harvesters and Threshing Machinery. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

New Osaka Selsukusho Co., Ltd., Osaka, Japan. Sole Agents: J. Khushaldas & Co., 77-79, Nagdevi Street, Bombay 3.

Ransomes, Sims & Jefferies Ltd., England. Agricultural Implements and Lawn Mowers. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

AIR-CONDITIONING, REFRIGERATION, HUMIDIFICATION UNITS AND EQUIPMENT

Air Conditioning Corporation (Jeffreys) Ltd., London. Air-conditioning and Drying Machinery. Sole Agents: Air Conditioning Corporation Private Ltd., Ballard Estate, Bombay 1.

Aktiebolaget Svenska Flaktfabriken, Stockholm, Sweden. Manufacturers of Air-conditioning, Humidification and Ventilation Plants, Dryers, Fans and Blowers. Air filters and Electric Precipitators. Representatives: Asea Electric India, Private Limited, Yaff Building, Goa Street, Ballard Estate.

Andrew Machine Construction Co., Ltd., Stockport. Humidifier Installation. Sole Representatives: W. H. Brady & Co., Ltd., Veer Nariman Road, Bombay 1.

Carrier Corporation, Syracuse, N.Y., U.S.A. Refrigerating, Air-conditioning and Ventilating Machinery. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Copeland Refrigeration Corporation, Ohio, U.S.A. Agents for Bombay State: Chatur Parmanand Vaswani, 59, Forbes Street, Bombay 1.

Davidson & Co., Ltd., Belfast. "Sirocco" Fans, Industrial Vacuum Cleaners, Evaporative Cooling Plants, Air-conditioning. Sole Representatives in Bombay: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Bombay 1.

E. C. D. Limited, Priory Mills, Tudeley Lane, Tonbridge, Kent, England. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Bombay.

FARBWERKE HOECHST AG., Frankfurt/Main/Hoechst, W. Germany. (Frigen, Methyl Chloride). Distributors: Messrs. Fedco Private Ltd., Mafatal House, Backbay Reclamation, Bombay 1. Phone: 38864/5. Grams: "RAFRICOL."

Frick Co., U.S.A. Sole Distributors: Bombay Ammonia & Refrigeration Co. Private Ltd., 298, Bazargate Street, Bombay 1.

Gebr. Winkelstrater, Wuppertal-Barmen, W. Germany. Manufacturers of "Winair" Air Conditioners. Sole Distributors: Dadajee Dhackjee & Co. Private Ltd., Sandhurst Bridge, Bombay 7.

General Engineering & Manufacturing Co., New Orleans, U.S.A. Manufacturers of Cool-A-Matic Commercial Air-conditioning Units. Sole Distributors: Dadajee Dhackjee & Co. Private Ltd., Sandhurst Bridge, Bombay 7.

I.C.I. LTD., Billingham Dn., London (Anhydrous Ammonia). Selling Agents: I.C.I. (India) Private Ltd., P. B. No. 310, Bombay 1.

I.C.I. LTD., England. General Chemicals Division ('Arcton, Methyl, Chloride, Sulphur Dioxide'). Selling Agents in India: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

Nash Kelvinator Corporation, U.S.A. Refrigerators. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

Nordic Refrigeration Ltd., Denmark. Manufacturers of Nordic Condensing Units, for Machinery, Cold Storage equipment, etc. Sole Distributors: Dadajee Dhackjee & Co. Private Ltd., Sandhurst Bridge, Bombay 7.

Pressed Steel Co. Ltd., of Cowley, Oxford, England. Manufacturers of "Prestcold" Commercial Refrigerators and Condensing Units. Sole Distributors: Dadajee Dhackjee & Co. Private Ltd., Sandhurst Bridge, Bombay 7.

Taylor Instrument Companies—Rochester, N. Y., U.S.A. Sole Agents: Air Conditioning Corporation Private Ltd., Ballard Estate, Bombay 1.

Taylor Controls Limited, Walthamstow, London, E.17. Industrial Instrumentation. Sole Agents: Air Conditioning Corporation Private Ltd., Ballard Estate, Bombay 1.

Tempair Ltd., Maidstone, Kent, England. Manufacturers of "Tempair" self-contained packaged and window type air-conditioners. Sole Distributors: Dadajee Dhackjee & Co. Private Ltd., Sandhurst Bridge, Bombay 7.

Vilter Manufacturing Co., U.S.A. Agents: Economy Refrigeration & Engineering Co., Forbes Street, Bombay 1.

York Corporation, York Pa., U.S.A. Air-conditioning Refrigeration & Ice Making Plant. Sole Agents: Air Conditioning Corporation Private Ltd., Ballard Estate, Bombay 1.

AIR COMPRESSORS

Alexander Wilson (Aberdeen) Ltd., Aberdeen, Scotland. Diesel-driven Portable Air Compressors. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

Broom & Wade Ltd., High Wycombe, Bucks, England. Air Compressors, Pneumatic Tools. Sole Distributors: Voltas Ltd., Ballard Estate, Bombay 1.

DAVEY COMPRESSOR CO., Kent, Ohio, U.S.A. Manufacturers of Air Compressors, Mobile Machine Shops, etc. Agents: Gaytee & Co., Jammabhoosi Chambers, Fort Street, Bombay 1. Phone: 263449. Grams: "IMPENG."

De Villbiss Company, Toledo, Ohio, U.S.A. Air Compressing, Spray Painting Outfits and Hoses, etc. Agents: John Fleming & Co., Private Ltd., Bastion Road, Fort, Bombay 1. Phone: 261153.

MACKAY INDUSTRIAL EQUIPMENT LTD., Faggs Road, Feltham, Middlesex, England. Representatives: James Finlay & Co., Ltd., P.O. Box No. 73, Bombay 1.

Richard C. Walther, Germany. Representatives: Behram & Co., 1/1, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

Tecalemit Limited, Brentford, U.K. Manufacturers of medium size aircompressors. Agents: Tecalemit (India) Ltd., 9, Forbes Street, Fort, Bombay.

AIR ENTRAINING AGENT, ASPHALT ANTI-STRIPPING ADDITIVE

Dewey & Almy, Chemical Co., Massachusetts, U.S.A. Agents: Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

ALUMINIUM

EMPIRE ALUMINIUM CO. LTD., 204, Polmadie Road, Glasgow S.2. Representatives: James Finlay & Co., Ltd., P.O. Box No. 73, Bombay 1.

ANTIFRICTION METALS AND SOLDERS

Eyre Smelting Ltd., Antifriction Metals. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

The Eyre Smelting Ltd., Tandem Works, Merton Abbey, London, S. W. 19. Sole Agents: Heatly & Gresham, Ltd., 9, Forbes Street.

ANTISEPTICS

British Alkaloids Ltd., T.C.P. Antiseptic Lotion, etc. Sole Agents:—J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Milton Proprietary Ltd., "Milton" Antiseptic Lotion. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

ANTI-VIBRATION BEARINGS & MOUNTINGS

Silentbloc Ltd., Victoria Gardens, Notting Hill Gate, London, W. 11. Antifriction, Flexible Mounting and Couplings. Agents: Heatly & Gresham, Ltd., 9, Forbes Street, Fort.

ARMS AND AMMUNITION

I.C.I. LTD., England. Sporting Ammunition Dept., Metals Division. Eley's and Metallic Ammunition. Kynoch's Shot Gun Cartridges. Factory Representatives in India: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

AROMATIC CHEMICALS

Antoine Chiris, S.A., Grasse, France. Agents: Anil Trading Co., 32, Princess Street, Bombay 2.

Dragoco-Holzminiden, W. Germany. Agents: B. C. Patel & Co. 79, Princess Street, Bombay 2.

ESROLKO LTD. (Formerly FLORA), Switzerland. Manufacturers of Synthetic Essential Oils & Aromatic Chemicals. Agents: M. C. Dava & Co., 143, Princess Street, Bombay 2.

H. Raab & Co., Holland. Agents: B. C. Patel & Co., 79, Princess Street, Bombay 2.

Jean A. du Crocq Jr. N. V., Huizen N. H., Holland. Sole Agents for Bombay State: R. K. Shapurji & Co., Prospect Chambers, 319, Dr. Dadabhoi Naoroji Road, P.B. No. 1065, Bombay 1.

Les Derives Resiniques & Terpinique, 40, Rue Des Carmel & Rue D'Eyrose, Dan (Landes), France. Agents: Anil Trading Co., 32, Princess Street, Bombay 2.

P. Robert & Co., Grasse, France. Agents: B. C. Patel & Co., 79, Princess Street, Bombay 2.

R. Lienau & Cie., 22(a) Uerdingen A. R. H., Germany, West. Sole Agents for India: R. K. Shapurji & Co., Prospect Chambers, 319, Dr. Dadabhoi Naoroji Road, P.B. No. 1065, Bombay 1.

ASBESTOS PRODUCTS

Arthur Hecker Asbest-Und Gummiwerke kg., (14a) Weil Im Schonbuch (Wurtemberg), West Germany. Sole Agents: Datson, Raviraj & Co., Private Ltd. 43, Tamarind Lane, Fort, Bombay. Phone: 39333.

Chilleotts Ltd., Newlands Park, Sydenham, London S. E. 26. Sole Agents: Datson, Raviraj & Co., Private Ltd. 43, Tamarind Lane, Fort, Bombay. Phone: 39333.

AUTOMATIC LOOMS

Henry Livesey Ltd., Blackburn. Weaving Machinery. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

AUTOMOBILE

Bentley Motors (1931) Ltd., Conduit Street, London. Manufacturers of Bentley Motor Cars. Sole Distributors: Dadajee Dhackjee & Co. Private Ltd., Sandhurst Bridge, Bombay 7.

Daimler-Benz, A. G., Stuttgart, Germany. Manufacturers of Mercedes-Benz Cars and Diesel Trucks. Sole Distributors: Dadajee Dhackjee & Co. Private Ltd., Sandhurst Bridge, Bombay 1.

Jaguar Cars Ltd., Coventry, England. Manufacturers of Jaguar Cars and Accessories. Agents: Garware Motors Private Ltd., Chowpatty Chambers, Sandhurst Bridge, Bombay 7.

Rolls-Royce Ltd., Conduit Street, London. Manufacturers of Rolls-Royce Motor Cars. Sole Distributors: Dadajee Dhackjee & Co. Private Ltd., Sandhurst Bridge, Bombay 7.

Rootes Limited, Devonshire House, Piccadilly, London, W. 1. Export Division of Humber, Hillman, Sunbeam-Talbot Motor Cars and Commer and Karrier Commercial Vehicles. Sole Distributors: Dadajee Dhackjee & Co. Private Ltd., Sandhurst Bridge, Bombay 7.

AVIATION

Auto Diesels Ltd., Uxbridge, Middlesex. Aircraft Starting & Servicing Ground Power Units. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Blackburn & General Aircraft Ltd., Brough, East Yorks, England. "Cirrus" Air-cooled Aero-engines. Blackburn-Turbomeca Gas Turbine Engines, 'Universal' Freight Aircraft. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Bristol Aero-Engines Ltd., Filton House, Bristol, England. Gas Turbine Engines, Propeller Turbine Engines, Ram Jet Engines. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

Bristol Aircraft Ltd., Filton House, Bristol, England. Aircraft, Helicopters, Pressure Storage Vessels, Plastic. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

British Messier Ltd., Cheltenham Road, Gloucester, England. Under-carriage and Hydraulic systems. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

British Refrall Co. Ltd., The Stillington, County Durham, England; Light-weight Silica Material for high temperature thermal and electrical insulation; Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes St., Fort, Bombay.

C. T. (London) Ltd., 27, Ashley Place, Westminster, London S.W. 1, England; Mechanism Aircraft Instruments; Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes St., Fort, Bombay.

Chelton (Electrostatics) Ltd., Marlow, Bucks, England; Aircraft Aerial Equipment and Static Dischargers; Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes St., Fort, Bombay.

Flight Refuelling Ltd., Dorset. Agents: Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

Hunting Aircraft Ltd., Luton Airport, Bedfordshire, England. Passenger and Trainer aircraft, Helicopters. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Redifon Limited. Flight Simulator Division, Gatwick Road, Crawley, Sussex, England. Synthetic Training Devices. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Rotol Ltd., Cheltenham Road, Gloucester, England. Propellers & Accessory Drive Equipment. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Slough Estates (London) Ltd., London. Agents: Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort. Thermionic Products Ltd., Southampton, England. Agents: Hindco, 24, New Queen's Road, Bombay 4.

AXLE LUBRICATING OILER PADS

Armstrong Oiler Co. Ltd., Lendal Bridge, Yorks. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

BALL & ROLLER BEARINGS (MFRS.)

British Timken Ltd., England. Timken Tapered Roller Bearings and Railway Axle boxes. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate, Bombay.

Federal Bearings Co. Inc. Poughkeepsie, N. Y., U.S.A.; Sole Agents: Ball Bearing & Machinery Corporation, 172-74, Nagdevi Street, Bombay 3.

Fisher Bearings Co. Ltd., England. F. B. C. Ball and Roller Bearings. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate, Bombay.

KUGELFISCHER GEORG. SCHAFFER & CO., West Germany. Mfrs. of Ball and Roller Bearings. Sole Agents: Messrs. B. Chowdhury & Co., Indian Globe Chambers (7th Floor), Fort Street, Fort, Bombay 1. Phone: 263479. Grams: "BISKEH".

Ransome & Marles Bearing Co., Ltd., Newark-on-Trent. "B & M" Ball and Roller Bearings. Agents: Roberts, McLean & Co., Ltd., Ilaco House, Sir Phiroozshah Mehta Road, Fort.

STEPHENS ADAMSONS MFG. CO., COMPANY (Seal-Master Ball Bearing units), Los Angeles, U.S.A., Sole Agents: Harchandrai Sons, 172-74, Nagdevi St., Bombay 3.

BATTERIES

Accumulatoren-Fabrik A.G., Export Department, Neue Mainzer Strasse 52, Frankfurt/Main, Germany. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

Deutsche Edison-Akkumulatoren Co., G.m.b.H. Export Dept. Neue Mainzer Strasse 54, Frankfurt/Main, Germany. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

Tudor Accumulator Co., Ltd., Storage Batteries. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

BATTERY ACCESSORIES

Mueller Electric Co., 1583 East 81st Street, Cleveland, 14, Ohio, U.S.A. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

BATTERY CHARGERS

Legg (Industries) Ltd., Williamson Street, Wolverhampton, England. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

Revall Manufacturing Co., Euclid Avenue, Cleveland 3, Ohio, U.S.A. Agents: Cine Sales, Jyoti Studio Bldg., Kennedy Bridge, Bombay 7.

BEER AND STOUT

Beck & Co., Bremen. Brewers. Sole Distributors: Spencer & Co. Ltd., Spencer's Building, Forjett Street, Bombay 26.

Tennent, J. & R., Ltd., Glasgow. Brewers. Sole Distributors: Spencer & Co. Ltd., Spencer's Building, Forjett Street, Bombay 26.

BELTING (TEXTILE) MANUFACTURERS

British Belting & Asbestos Ltd., Southwark, London. Scandinavia, M.C.M. Cotton Belting, Saturn Hair Belting, MINTEX and Halo Broke Lining and Clutch Rings, etc. Agents: Balmer Lawrie & Co. Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Fenner, J. H., & Co., Ltd., Hull, England. Leather & Woven Belting. Ram Leathers. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Gandy Limited, Wheatland Works, Wallasey, Cheshire, England. Leather Belting and Belting Accessories. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Gates Rubber Company, The, Denver Colorado, U.S.A. Cons Belts, Everen Belts & Card Bands. Sole Representatives: W. H. Brady & Co., Ltd., 12-14, Veer Nariman Road, Fort, Bombay 1.

John Ormerod & Sons Ltd., England. Agents: Altex Private Ltd., 147, Mahatma Gandhi Road, Fort.

Maxa, Limited, 43 & 45, Cannon Street, London, E.C. 4. "Maxa" Belt Dressing and Preservative. Sole Agents: J. D. Jones & Co. (Bombay), Private Ltd., Ruston Building, Veer Nariman Road, Fort.

Nitta Leather Bolting Co., Ltd., Osaka, Japan. Sole Agents: J. Khushaldas & Co., 77-79, Nagdevi Street, Bombay 3.

Nitta Rubber Industrial Co., Ltd., Osaka, Japan. Sole Agents: J. Khushaldas & Co., 77-79, Nagdevi Street, Bombay 3.

ROYAL ADAM TANNING & BELT MANUFACTURING CO., Ltd., The, DCLFT, Holland. Sole Agents: Harchandrai Sons, 172-74, Nagdevi Street, Bombay 3.

BISCUIT MANUFACTURERS

Huntley & Palmers Ltd., Biscuit Manufacturers, Reading. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

BOARDS (INSULATION HARD)

A. AHLSTROM OSAKEYTIO, P. O. Box No. 329, Helsinki (Finland). Representatives: James Finlay & Co., Limited, P.O. Box No. 73, Bombay 1.

BOBBINS MANUFACTURERS

Dixon, John & Son Ltd., Steeton, Yorks. Bobbins for Cotton, Wool, Silk & Jute. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

Kirk & Co. (Blackburn), Ltd., England. Principal Distributors: Altex Private Ltd., 147, Mahatma Gandhi Road, Fort.

Wilson Bros. Bobbin Co., Ltd., Bobbins, Shuttles, etc. Representatives: W. H. Brady & Co., Ltd., Veer Nariman Road, Fort, Bombay 1.

BOILER ACCESSORIES

Baines & Co., Ltd., W.N., Phoenix Brass Works, Rotherham, England. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Bombay.

Clyde Blowers, Ltd., Livingston Street, Clydebank, near Glasgow G. 2. Sole Agents: Heatly & Gresham, Ltd., 9, Forbes Street, Fort.

DEWRANCE & CO., LTD. 165, Great Dover Street, London S.E. 1. Steam Valves, Steam Traps and Boiler Mountings. Sole Agents: Kilburn & Co., Private Ltd., P.O. Box No. 565, Bombay. Phone: 25-1908. Grams: "TASCONIUM".

Dermatine Company, Ltd., 98-95, Neate Street, London, S.E. 5. Agents: Heatly & Gresham, Ltd., 9, Forbes Street.

Everlasting Valve Co. (Great Britain), Ltd., 125, Balham High Road, London, S.W. 12, England. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Farrar Boilerworks Ltd., Newark-on-Trent. Vertical Boilers. Fishmeal & Oil Plants. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Graham & Craven, Ltd., Ordal Lane, Salford, Manchester, England. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Scott & Co., London. "Stopakal" Boiler Compound. Agents: Richardson & Crudas, Ltd., Byculla, Bombay 8.

Versil Ltd., Rayner Mills, Liversedge, Yorks. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

BOILER HOUSE & CIVIL ENG. RECORDERS

British Pitometer Co., Ltd., London. Agents: Glenfield & Kennedy, Ltd., 198, Jamshedji Tata Road, Fort, Bombay 1.

Glenfield & Kennedy, Ltd., Kilmarnock. Meters for Boiler Feed. Agents: Glenfield & Kennedy, Ltd., 198, Jamshedji Tata Road, Fort, Bombay 1.

BOILER MANUFACTURERS

Clarke Chapman & Co., Ltd., Gateshead-on-Tyne. Water Tube Boilers, Capstans Winches, etc. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Cradley Boiler Co. Ltd., Nr. Birmingham. Makers of Vertical Steam Boilers. Agents: Richardson & Crudas, Ltd., Byculla, Bombay 8.

Marshall, Sons & Co., Ltd., Gainsborough Trent, Lancashire, Cornish, Locomotive Economic Boilers. Sole Agents: Marshall Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Penman & Co., Ltd., Caledonian Iron Works, Glasgow. S. E. Lancashire & Cornish Boilers, Economic Boilers. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Ruston & Hornsby Ltd., Lincoln. Vertical Cross Tube and "Thermax" Boilers. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

BOILER PRESERVATIVES AND COMPOSITIONS

British Boiler Cleaning & Enamelling Co. "Langhrod" Boiler Composition. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhai Naoroji Road.

Clensol Ltd., 40, Berkeley Square, London. Patent Scale Remover and Boiler Water Purifiers. Agents: Roberts, McLean & Co., Ltd., Ilaco House, Sir Phiroozshah Mehta Road.

Houseman & Thomson Ltd., New Castle-upon-Tyne. "D.M." Boiler Solution. Agents: Balmer Lawrie & Co. Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

BOILER SCALE PREVENTIVE AND COMPOSITIONS

Boilerline Ltd., London. Scale Preventive Composition. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road.

Charles S. Madan & Co., Ltd. Cheshire, England. Sole Agents: R. Ochavial & Co., 86, Nagdevi Street, Bombay 3.

Houseman & Thompson Ltd., Newcastle-upon-Tyne. "D.M." Boiler Solution. Agents: Balmer Lawrie & Co. Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

BOILER TUBES

Comptoir F. B. T. 84, Rue Pierre, Chanon, Paris. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

BOLTS, NUTS & SCREWS

Guest Keen & Nettlefolds (Midlands) Ltd., Birmingham. Representatives: Nettlefolds of India Private Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

Joseph Fitter Ltd., 26, Sherlock Street, Birmingham, 5. Agents: Soho House, Lohar Street.

BOOKS PUBLISHERS

Brown Son & Ferguson Ltd., 52-58, Darnley Street, Glasgow, S. 1, Scotland. Agents: E. W. Stevens & Co. Private Ltd., 4, Ballard Road, Bombay 1.

Director of Publications, H. M. Stationery Office, P. O. Box No. 509, London S.E.1. Agents: E. W. Stevens & Co. Private Ltd., 4, Ballard Road, Bombay 1.

Harrap & Co., Ltd., George G., 182, High Holborn, London W.C. 1. Publishers. Agents: Oxford University Press, Post Box No. 31, Bombay 1.

Imray, Laurie, Norie & Wilson Ltd., Wyeh House, St. Ives, Huntingdonshire, England. Agents: E. W. Stevens & Co. Private Ltd., 4, Ballard Road, Bombay 1.

J. D. Potter, 145 Minorics, London E. O. 3. Agents: E. W. Stevens & Co. Private Ltd., 4, Ballard Road, Bombay 1.

James Munro & Co., Ltd., 16, Carrick Street, Glasgow O.2, Scotland. Agents: E. W. Stevens & Co. Private Ltd., 4, Ballard Road, Bombay 1.

Lloyds Shipping Publications, Lloyds, London E.C.3. Agents: E. W. Stevens & Co. Private Ltd., 4, Ballard Road, Bombay 1.

Thomas Reed & Co., Ltd., 184, High Street, West, Sunderland, England. Agents: E. W. Stevens & Co. Private Ltd., Ballard Road, Bombay 1.

University Tutorial Press, Ltd., Clifton House, Euston Road, London, N.W.1. Publishers. Agents: Oxford University Press, Post Box No. 31, Bombay 1.

W. H. Smith & Son Ltd., Export Trade Department, Strand House, Portugal Street, London W.C. 2. Agents: E. W. Stevens & Co. Private Ltd., 4, Ballard Road, Bombay 1.

BRASS FOUNDRY

Harrison (Birmingham) Ltd., Bradford Street Works, Birmingham, 12. Agents: Soho House, Lohar Street.

BRICK-MAKING EQUIPMENT

Hebert Alexander & Co. Ltd., Leeds. Brick-making machinery & equipment. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

BRUSH MANUFACTURERS

Addie Ltd., "Widom" Nylon Toothbrushes and other Toilet Brushes. Sole Agents: J. L. Morison Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

BRUSHES

Briton Brush Co. Ltd., The, Wymanham, Norfolk, England. Sellers: Goodlass Nerolac Paints Private Ltd., Forbes Building, Home Street, Fort, Bombay 1.

G. B. Kent & Sons Ltd., 24, Old Bond Street, London W. 1. Agents: Gillanders Arbuthnot & Co. Ltd., 16, Queen's Road Estate, Bombay 1.

BUILDING & CONSTRUCTION MACHINERY

Friedrich Wilh Schwing G.m.b.H., Germany. Construction Equipment like Self-Supporting Hoists, Climbing Cranes, Hoisting Shows Load, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Fritz Graupner Ohg, Germany. Stone Polishing, Grinding and Cutting both Petrol & Electrically Driven. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Georg. Stetter Baumaschinenfabrik, Germany. High Speed Builder's Winches, Concrete Mixers, Canal Cranes, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

METAL EXPORT MOKOTO WIEKA, 49, Warszawa, Poland. Selling Agents: Khemka & Co., (Agencies) Private Ltd., Vulcan Insurance Bldg., 202/A, Veer Nariman Road, Bombay 1.

W. G. Armstrong Whitworth (Metal Industries) Ltd., England. "Kue-Ken" Jaw and Gyrotyr Crushers. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Wacker Gebruder, Germany. Gasoline/Electric High Frequency Internal/External Concrete Vibrators, Tampers, Tie Tampers, Plate Vibrators, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

BUILDING MATERIAL HARDWARE

MOLOPLAST LTD., England. (Moloplast Linings, Panels Extrusions "CHE-QUERPLAST.") Selling Agents: I.C.I. (India), Private Ltd., Post Box No. 310, Bombay 1.

I.C.I. LTD., Dyestuffs Division, England. Concrete additives. Selling Agents: Imperial Chemical Industries (India) Private Ltd., P.O. Box No. 310, Bombay 1.

I.C.I. LTD., England. Metals Division & Yorkshire Imperial Metals Ltd., Leeds, London. (Wrought Non-ferrous Metals, Pipe Fittings, Aluminium Sheets, plate and corrugated). Plastics Division: Corrugated "Perspex", "Alkathene Film". Selling Agents: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

Richard Hill Ltd., England. Mfrs. of "MAXWELD" brand Steel fabric for Concrete reinforcement. Sole Agents in India: Alsales Ltd., 9, Wallace Street, Bombay 1.

Wm. Newman & Sons Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

CABLES & WIRES

Aktiebolaget Liljeholmsn Kabelfabrik, Stockholm. Manufacturers of cables and wires. Representatives: Asea Electric India, Private Limited, Yaffa Building, Goa Street, Ballard Estate.

Charles Hirst & Sons Ltd., England. Hardened & Tempered Steel Card Wire. Agents: Armstrong Smith Private Ltd. 1, Sir P. M. Road, Post Box No. 185, Bombay 1.

George Clayton Ltd., England. Polished Flat Iron Rod Wire. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Post Box No. 185, Bombay 1.

John Rigby & Sons Ltd., England. Steel Wire for Springs, Planes, Stitching, Reeds, Scraps, Pins, Drawn Pinion Sections & Powder Metallurgy Products, Paper Clips, etc. Agents: Armstrong Smith Private Ltd. 1, Sir P. M. Road, Post Box No. 185, Bombay 1.

Northern Cable & Wire Works, Copenhagen, Denmark. Agents: Hindco, 27, New Queen's Road, Bombay 4.

SCOTTISH CABLES LIMITED, Deanside, Renfrew, Scotland. Power Cables. Representatives: James Finlay & Co., Limited, P.O. Box No. 73, Bombay 1.

CANNED & BOTTLED PROVISIONS

Frank Cooper Ltd., "Oxford" Marmalade, etc. Agents: J. L. Morison, Son & Jones India Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Marmite Food Extract Co., Ltd., "Marmite." Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

CANVAS TWINE AND HOSE

Boase Spinning Co., Ltd., Dundee. Agents: Killick Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

Tanner Bros. (Greenfield) Ltd., Greenfield, Near Oldham. Agents: Soho House, Lohar Street.

CARD CANS (MFRS.)

Stowace Fibre & Can Co., Ltd., Moston, Manchester 9. Fibre and Steel Card Cans. Agents: Roberts, McLean & Co., Ltd., Ilaco House, Sir Phiroozshah Mehta Road, Fort.

CARRIAGE TYRE CHANNELS

Pritt & Co., Ltd., 11-12, St. Swithin's Lane, London, E.C. 4. Agents: Soho House, Lohar Street.

CASTING MANUFACTURERS

Les Fonderies Magottesaux Limited, Belgium—Steel Casting, Grinding Bodies, for Cement, Mining, Chemical and Ore Crushing Industries. Contact: Ratana Moraji Private Limited, Prospect Chambers, 317/21, Dr. Dadabhai Naoraji Road, P. B. No. 1270, Bombay 1.

CEMENT & CONCRETE

Cement Marketing Co., Ltd., London. Agents: Killick Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

Christiansi & Nielsen, Copenhagen, Denmark. Patented E. O. C. Arch Bridges with inclined hangers. Sole Agents in India: Gammon India Private Ltd., Hamilton House, Ballard Estate, Bombay.

Colcrete Ltd., London. Manufacturers of Colloidal Mixers and Colloidal Trouting. Sole Agents in India: Gammon India Private Ltd., Hamilton House, Ballard Estate, Bombay.

Keystone Refractories Co., "Dura-Stix" Firebrick Cement. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhai Naoraji Road, Fort.

Moushel & Partners, L. G., Ltd., London. Cooling Towers Consultants; Agents in India: Gammon India Private Ltd., Hamilton House, Ballard Estate, Bombay.

CEMENT AND CONCRETE MACHINERY

Winget Limited. Concrete Mixers & Mortar Mills, Vibrators, Batching Plants, Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

CEMENT MACHINERY

Johnson (Machinery) Ltd., O. H., England. Sole Agents: Killick Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

CEMENT WATERPROOFER

Oliver Keeling & Sons, Keynsham, Nr. Bristol. Agents: Gillanders Arbuthnot & Co. Ltd., 16, Queen's Road Estate, Bombay 1.

Sika Limited, London. Sika Cement Water-proofer. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate, Fort.

CERAMIC KILNS & MATERIALS

Applied Heat Co., Ltd., The, England. Agents in India: Indian Wild-Barfield Co. Private Ltd., Lotus Cinema Buildings, Hornby Vellard, Bombay 8.

Blythe Colour Works Limited, England. General Agents in India: Indian Wild-Barfield Co. Private Ltd., Lotus Cinema Building, Hornby Vellard, Bombay 8.

CHAIN BELTS AND CONVEYORS

Griffin Woodhouse Chain Cables Ltd., Chains and Cables. Agents: John Fleming & Co., Private Ltd., Eastion Road, Fort, Bombay. Phone: 261153.

J. Collis & Sons Ltd., London. Sole Agents: Killick Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

CHAIN LINKS AND DRIVES

Ewart Chainbelt Co., Colombo Street, Derby, England. Chains & Chain Links. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Whitney Chain Co., Hartford (U.S.A.). Agents in India: Essential Engineering Co., Botawala Building, Elphinstone Circle, Fort.

CHARTS (MARINE)

Imray, Laurie, Norie & Wilson Ltd., Wyeh House, St. Ives, Huntingdonshire, England. Agents: E. W. Stevens and Co., Private Ltd., 4, Ballard Road, Bombay 1.

Superintendent of Issue, Hydrographic Supplies Establishment, Creechlearrow House, Taunton Somerset, England. Agents: E. W. Stevens and Co., Private Ltd., 4, Ballard Road, Bombay 1.

CHEMICAL MANUFACTURERS

A.C.C.I. CAUSTIC SODA, Liquid Chlorine, Hydrochloric Acid. Selling Agents in India: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1. (For details please see under the heading "CHEMICALS".)

DIA CHEMIE. (German D. R.) Sole Distributors: Mahendra Shantlal, Shanti Niketan, Marine Drive, Bombay 2. Grams: "COALTER," Bombay.

HARDMAN & HOLDEN LTD., Manchester (England.) Manufacturers of "Manex" Sodium Hydrosulphite. Sole Suppliers in India: Ciba Dyes Private Ltd., Royal Insurance Building, Jamshedji Tata Road, Churchgate Reclamation, Bombay 1. Phones: 37164-67. Tel. Address: "CIBA". Post Box No. 479. Codes used: Universal Trade and Bentley's Second Phrase.

Howards of Ilford Ltd., Ilford, near London. Manufacturers of Pharmaceutical Chemicals, Quinine preparations and Solvents. Agents: The Anglo-Thal Corporation Ltd., Ewart House, Bruce Street.

JOHNSONS OF HENDON LTD., Hendon Way, London, England. Seales Brand Photographic & Process Chemicals. Agents: Allied Photographics Private Ltd., Kasturi Bldg., Jamshedji Tata Road, Bombay 1.

ROHM & HAAS CO., Philadelphia, U.S.A. Sole Representatives in India: Amritlal & Co. Private Ltd., 11, Spreni Road, Ballard Estate, Fort, Bombay.

CHEMICAL AND PHARMACEUTICAL MACHINERY AND EQUIPMENT MFRS.

Amberg, Germany. Machinery for manufacture of Ampoules, Vials, Tablet and test-tubes, bulbs, etc., Glass Tubes Cutting, Sorting & Weighing Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Apex Construction Co., London. Tablet Machines, Industrial Compressing Machinery, Pharmaceutical equipment, special process plant. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Blackfriars Engineering Co., England. Mason Mills used in Rubber, Plastics and allied industries. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Blackfriars Rotary Cutters, England. 'Mason & Junior' Rotary Cutters used in Rubber, Plastic and allied industries. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Constructors John Brown Limited. Solvent Extraction, Fatty Acid, Splitting and Distillation Units, Fertilizer Heavy Water Pumps etc. Sole Distributors: William Jacks & Co., Ltd., Hamilton House, Graham Road, Ballard Estate.

Enamelled Metal Products Corporation (1933) Ltd., England. "PFAUDLER" Glass Enamelled Steel Storage & Mixing Vessel, Steel Chemical Process Equipment, Stainless Steel Vessel & Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Hungerford & Terry I.R.C., Clayton, New Jersey, U.S.A., Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

L. A. Mitchell Ltd., England. Heating Ovens, Mitchell Drying Equipment, Acid Pumps, Chemical Plants, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Liba Machine Fabrieken, Nalla, West Germany. Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

Pfaudler Co., U.S.A. "Pfaudler" Glass Enamelled Steel Storage & Mixing Vessel, Steel Chemical Process Equipment, Stainless Steel Vessel & Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Pfaudler Werke A. G., Germany. "Pfaudler" Glass Enamelled Steel Storage & Mixing Vessel, Steel Chemical Process Equipment, Stainless Steel Vessel & Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Q. V. F. Limited, England. Industrial Plants in Glass, "PYREX" Visible Flow Pipes Lines for Chemical, Pharmaceutical and Food Industries. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Sharples International Centrifugal Sales Ltd., Nassau. Complete range of specialised equipment for Centrifugal application in paint, vegetable oil, lubricating oil, transformer oil, pharmaceuticals, chemicals, starch, oil re-claiming, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

CHEMICALS

Airco Company International, 60, East 42nd Street, New York 18 N.Y., U.S.A. Agents: Harcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

ALBRIGHT & WILSON (MFG.) LTD., Fine Chemicals Division, England. Selling Agents: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

ALBRIGHT & WILSON (MFG.) LTD., London. (Amorphous Phosphorus, Phosphoric Acid, etc.). Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

ALUMINA CO., LTD., THE, Widnes. (Sulphate of Alumina-Iron Free). Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

AMCEL CO., Inc. U.S.A. An affiliate of Celanese Corporation of America, U.S.A. (Solvents, Intermediates, Gasoline additives, Functional Fluids). Sole Selling Agents in India: Industrial & Allied Chemicals, National House, 6, Tulloch Road, P.O. Box 466, Bombay 1.

Archer Daniels-Midlands Company, 225, Broadway, New York 7, N. Y., U. S. A. Agents: Harcastle Waud & Co. Private Ltd., Alice Building, Dr. Dadabhoy Naoroji Road, Fort.

ASSOCIATED CHEMICAL COMPANIES (Sales) LTD., LEEDS, Selling Agents for Formalin and Hydros in India: Imperial Chemical Industries (India) Private Ltd., P.O. Box No. 310, Bombay 1.

BOLIDEN'S GRUVAKTIEBOLAG, Sweden. (Arsenic). Agents: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay.

BOOTS PURE DRUG CO., LTD., Nottingham. (Saccharin, Potassium permanganate Tech.). Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

BORAX CONSOLIDATED LTD., London. Borax, Boric Acid and Tartaric Acid, Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

BRITISH DYEWOOD CO., LTD., Glasgow. Tannic Acid and Gallic Acid, Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

BRITISH GLUES & CHEMICALS LTD., London. Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

BRITISH SULPHATE OF COPPER ASSOCIATION, LTD., London. Copper Sulphate Selling Agents in India: Imperial Chemical Industries (India) Private Ltd. P.B. No. 310, Bombay 1.

CHEMICALS & INSULATING CO., LTD., (THE), Darlington Light Magnesium Carbonate and Oxide, Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

CHEMISCHE WERKE HUELS AKTIENGESELLSCHAFT, Marl Germany—Manufacturers of Chemicals, Solvents & Plastic Raw Materials. Sole Distributors: Chika Private Limited, Industrial Assurance Building, Opp. Churchgate Station, Bombay-1. Phone: 242291-3. Gram: 'Dyescid.'

Chemo Puro Mfg. Corp., U.S.A. Sole Agents: Indo-International Commercial Corp., Private Ltd., Crescent Chambers, Tamarind Lane, Bombay 1.

DIAMANT AKTIENGESellschaft, München, Germany—Manufacturers of Gems and Diamond Agents. Please apply to: Chika Private Limited, Industrial Assurance Building, Opp. Churchgate Station, Bombay 1. Phone: 242391-3. Gram: "Dyccold".

FARBENFABRIKEN BAYER AKTIENGESellschaft, Leverkusen, Germany—Manufacturers of Chemicals. Sole Distributors: Chika Private Limited, Industrial Assurance Building, Opp. Churchgate Station, Bombay 1. Telephone: 242391-3. Gram: "Dyccold".

FAERWERKE HOECHST AG., Frankfurt/Main/Hoechst, W. Germany. (Chemicals, Solvents, raw materials for Lacquers, Intermediates, etc.). Distributors: Messrs. Fedco Private Ltd., Mafatal House, Backbay Reclamation, Bombay 1. Phone: 36364/3. Grams: "RAPRICOL".

FERTILISER & CHEMICALS (TRAVANCORE) LTD., (Ammonium Chloride). Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

FULLERS' EARTH UNION LTD., Surrey. Bleaching Earths and Bonding clays. Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

Hercules Powder Co., Inc., Wilmington, Delaware, U.S.A. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Houghton, B. F. & Co., Philadelphia. Houghton's Heat Treatment Specialties. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Industrial Tartarica Valenciana, S.A., Valencia, Spain. Tartaric Acid. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort.

Industrias Químicas Y. Tartaricas, S.A., Girona, Spain. Tartaric & Citric Acid. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort.

JOHN & E. STURGE LTD., Citric Acid. Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

JOHNS-MANVILLE INTERNATIONAL CORPN., New York, Filteraids and Fillers, Selling Agents: I.C.I. (India) Private Ltd., P.B. No. 310, Bombay 1.

K. J. Feddersen & Co., "Elbhof", Steinhof 9, Hamburg 11, Germany. Fine, Heavy, Industrial and Pharmaceuticals Chemicals. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay 1.

LAFORTE, CHEMICAL, LTD., Luton, Bedfordshire. Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

MAGADI SODA CO., LTD. (THE), Mombassa, Soda Ash Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

Meer Corporation, New York, U.S.A. Sole Agents: Indo-International Commercial Corp., Private Ltd., Crescent Chambers, Tamarind Lane, Bombay 1.

MOND NICKEL CO., LTD., THE, England. (Nickel Salts) Cobalt, Salts and Selenium. Selling Agents: I.C.I. (India) Private Ltd., P.B. No. 310, Bombay 1.

M. W. Hardy & Co., Ltd., London. Chemicals, Pharmaceuticals, Dyes. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort.

NATIONAL PEROXIDE LTD., Bombay. (Hydrogen Peroxide and Sodium Perborate). Selling Agents: I.C.I. (India) Private Ltd., P.B. No. 310, Bombay 1.

N.V.F. VAN CHEMISCHE PRODUCTIEN (Oxalic acid). Selling Agents: I.C.I. (India) Private Ltd., P.B. No. 310, Bombay.

PAN AMERICAN SULPHUR CO., Washington, (Sulphur). Selling Agents: I.C.I. (India) Private Ltd., P.B. No. 310, Bombay 1.

PROGIL S. A., FRANCE (Solvents, Chlorinated Solvents, Organic acids and derivatives, Technical Phosphates); Sole Selling Agents in India: Industrial and Allied Chemicals, National House, 6, Tulloch Road, P.O. Box 488, Bombay 1.

SEAWALLACE & CO., LTD., Madras; Sodium Silicofluoride. Selling Agents: Imperial Chemical Industries (India) Private Ltd., P. O. Box No. 310, Bombay 1.

SVENSKA CELLULOS AKTIEBOLAGET, Sweden. Wood Pulp for Paper & Rayon. Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

SVENSKA TANDSTICKES AKTIEBOLAGET, Sweden. (Chlorate of Potash). Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

WESTERN INDIA MATCH CO., Bombay. (Chlorate of Potash). Selling Agents: I.C.I. (India) Private Ltd., P.B. No. 310, Bombay 1.

CHEMICALS & RAW MATERIALS

Montecatini, Milan, Italy. Acids, Chemicals, Minerals and Pigments. Contact: Ratansi Morarji Private Limited, Prospect Chambers, 317/21, Dr. Dadabhoy Naoroji Road, P. B. No. 1270, Bombay.

CHEMICALS (TEXTILES)

Chemapol Ltd., Panaka 9, Prague II Czechoslovakia. Sole Agents for India: Chemidye Trading Co., Ltd., Kamer Building, Cawasji Patel Street, Fort.

IMPERIAL CHEMICAL INDUSTRIES (INDIA) PRIVATE LTD., P.B. No. 310, Bombay. Importers of all Chemicals. For details please see under "CHEMICALS" Heading.

CHEMISTS, MANUFACTURING

Stafford, Allen & Sons, Ltd., London. Manufacturing Chemists, Distillers of Essential Oils, Manufacturers of Aromatic Chemicals, Soap and Perfume Compounds, and Insecticides. Agents: The Anglo-Thal Corporation, Ltd., Ewart House, Bruce Street.

CHRISTMAS & GREETING CARDS

Masterpiece Studios, Chicago. Sole Agents: Nair Aggarwal Ltd., National House, Tulloch Road, Apollo Bunder.

CIGARETTE LIGHTERS

Ronson Products Ltd., London. Cigarette Lighters & Products. Sole Distributors: Spencer & Co. Ltd., Spencer's Building, Forjett Street, Bombay 26.

CINEMA MACHINERY

British Thomson-Houston Export Co., Ltd., Rugby, England. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma, Gandhi Road, Bombay 1.

CIRCLIPS

ORBIS G.m.b.H., West Germany. Mfrs. of Circlips. Sole Agents: Messrs. B. Chowdhury & Co., Indian Globe Chambers, (7th Floor), Fort Street, Fort, Bombay 1. Phone: 28-3479. Grams: "BISUKHI".

CLEARING AND FORWARDING AGENTS

Dean & Dawson Ltd., Passenger and Tourist Agents. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Geo. W. Wheatley & Co. Ltd., London Liverpool, New York and Marseilles. Shipping and Forwarding Agents. Agents: Balmer Lawrie & Co. Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Gerhard & Hey Ltd., Shipping Agents, London, Liverpool, Manchester, Hull, Southampton, Glasgow. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Gerhard & Hey Co., Inc., Shipping Agents, 44, Whitehall Street, New York 4, N. Y. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Pitt & Scott Ltd., London, Glasgow, Liverpool, New York and Marseilles. Shipping and Forwarding Agents. Agents: Balmer Lawrie & Co. Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

COAL CUTTING MACHINERY AND CONVEYORS

Mavor & Coulson Ltd., 47, Broad Street, Glasgow. Coal Cutters and Conveyors. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Siskol Machines Ltd., Siskol Works, Sheffield, England. Electric and Pneumatic Coal Cutters (Portable), Electric, Pneumatic and Petrol Engine Driven Drills. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

COAL PROCESSING PLANT

Nelson L. Davis Company, Illinois, U.S.A. Coal Preparation and Coal Cleaning Plant; Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes St., Fort, Bombay.

COLOURS

I. C. I. LTD., Dyestuffs Division, Manchester, England. Selling Agents in India: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

J. W. & T. A. Smith Ltd., London. Fine Colour & Pigments. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort.

CONCRETE MACHINERY

Gifford-Udall Prestressing Equipment, Sole Agents: Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort, Bombay.

Stelmo Ltd., London. Agents: Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

CONCRETE PRESTRESSED

McCall Macalloy Ltd., Sheffield, England. "Lee McCall" System of Prestressed Concrete: "Macalloy" bars and accessories; Designs and drawings supplied. Richard Johnson & Nephew Ltd., Manchester. H. T. Wires; Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

CONCRETE REINFORCEMENT

McCall & Co., (Sheffield) Ltd., Templeborough, Sheffield, England. "Matobar" High Tensile Electrically Welded Steel Fabric for Reinforcement; "Tenkor"—Bars; Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

Pittsburgh Steel Products Co., Pittsburgh, U.S.A. Distributors: Maneklal & Co., 166, Dr. Dadabhai Naoroji Road, Bombay 1.

Richard Hill Ltd., England. Mfrs. of "MAXWELD" brand Steel Fabric for Concrete reinforcement. Sole Agents in India: Alsals Ltd., 9, Wallace Street, Bombay 1.

CONCRETE VIBRATORS

Allam, E. P., & Co., Ltd., 45, Great Peter Street, Westminster, London, S.W.1. Sole Agents: Healy & Gresham Ltd., 9, Forbes Street, Fort.

Johnson (Machinery) Ltd., C. H., England. Sole Agents: Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

Wacker Gebrüder, Germany. Gasoline/Electric High Frequency Internal/External Concrete Vibrators, Tampers, Tie Tampers, Plate Vibrators, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

CONDUIT APPLIANCE

Ductube Co. Ltd., London. Agents: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

CONFECTIONERS

B. YOUNG & CO., England. Edible Gelatine. Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

James Pascaill, Ltd., Confectionery. Sole Agents: J. L. Morrison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

CONFECTIONERY MACHINERY

Rose Brothers (Gainsborough) Ltd., England. Packing, Wrapping, Labelling & Bag Making Machinery. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

CONSULTING ENGINEERS

Ingenieurdienst, G.m.b.H. Germany. Agents: Behram & Co., 1/1 Lakshmi Bldg., Sir P. M. Road, Bombay 1.

CONTRACTORS, PLANT AND MACHINERY

Blaw Knox Ltd., London. Concrete Mixers. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Boydell & Co. Ltd., E., Manchester (Muir-Hill Dumpers). Agents for Western India: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

Cement & Steel Ltd., Kent, (Bar Bending & Bar Shearing Machine). Agents: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

Christopher & Sons Ltd., J., London, (Hemel Hoists). Sole Agents: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

Florentini & Co., Ing. F., Italy. Agents for Western India:—Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

Frederick Parker, Ltd., Leicester. Sole Agents: Healey & Gresham Ltd., 9, Forbes Street, Fort.

Friedrich Wilh Schwing G.m.b.H. Germany. Construction Equipment like Self-Supporting Hoists, Climbing Cranes, Hoisting Show Load, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Frits Graupner Ohg., Germany. Stone Polishing, Grinding and Cutting both Petrol & Electrically Driven. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Georg. Stetter Baumaschinenfabrik, Germany. High Speed Builder's Winches, Concrete Mixers, Canal Cranes, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Ingenieurdienst G.m.b.H. Germany. Representatives: Behram & Co., 1/1 Lakshmi Bldg., Sir P. M. Road, Bombay 1.

W. G. Armstrong Whitworth (Metal Industries) Ltd., England. "Kue-Ken" Jaw and Gyrotory Crushers. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Wacker Gebrüder, Germany. Gasoline/Electric High Frequency Internal/External Concrete Vibrators, Tampers, Tie Tampers, Plate Vibrators, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

CONVEYORS AND LOADERS

Barber-Greene (Overseas) Inc., Aurora, Illinois, U.S.A. Barber-Greene Olding Co. Ltd., Hatfield, Herts, England. Bituminous Finishers, Conveyors and Loaders. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

British Straddle Carrier Co., Ltd., London. Agents: Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

COPPER SULPHATE

TRAVANCORE CHEMICAL & MANUFACTURING CO. LTD., Travancore; Copper Sulphate; Agents: Imperial Chemical Industries (India) Private Ltd., P.O. Box No. 310, Bombay 1.

CRANES & HOISTS

Clyde, Crane & Booth Ltd., Rodley, Leeds, England and Mossend, Scotland. Electric, Steam and Diesel Dock and Wharf Cranes, Travelling Jib Cranes for Docks, Railways and Collieries, Railway Breakdown and Main Line Cranes and Deck cranes. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Cowans, Sheldon & Co. Ltd. Carlisle. Cranes, Ganties, Lifting Gear, Turntables, etc. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay.

Fellows Brothers Ltd., Cradley Heath, England. Overhead Electric and hand Power Travelling Cranes, Pulley Blocks & Hoists; Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

John Smith & Sons (Kelghley) Ltd., Kelghley. Electric Overhead Travelling Cranes. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

KARL KEIENBURG, ESSEN-STEEL, Germany. Manufacturers of Steel Tube Light Construction Cranes for all Purposes. Agents: Gaytee & Company, Jammahesam Chambers, Fort Street, Bombay 1. Phone: 283449. Grams: "IMPENG."

Loro & Parkini, Milan. Sole Agents: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort, Bombay.

Thomas Smith & Sons (Rodley) Ltd., Rodley. Steam and Diesel Cranes. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

CUTTING OILS AND SOLUTIONS

Germ Lubricants Ltd., Salford, Manchester. Lubricating Oils, Greases, Soluble Cutting Oils and Quenching Oils. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes St., Bombay.

DAIRY MACHINERY MANUFACTURERS

Enamelled Metal Products Corporation (1933) Ltd., England. "PFAUDLER" Glass Enamelled Steel Storage & Mixing Vessel, Steel Chemical Process Equipment, Stainless Steel Vessel & Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Pfaudler Co., U.S.A. "Pfaudler" Glass Enamelled Steel Storage & Mixing Vessel, Steel Chemical Process Equipment, Stainless Steel Vessel & Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Pfaudler Werke A. G., Germany. "Pfaudler" Glass Enamelled Steel Storage & Mixing Vessel, Steel Chemical Process Equipment, Stainless Steel Vessel & Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Westfalia Separator A. G. West Germany. Agents: Dairy Equipment Co., 204, Dr. Dadabhai N. Road, Bombay 1.

DENTAL GOODS

DENTAL MANUFACTURING CO., LTD., England. (Kallodont, etc.) Selling Agents: I.C.I. (India) Private Ltd., P.B. No. 310, Bombay 1.

Nordenta (Sweden) Ltd., Dental Syringes, Instruments & Equipments. Sole Agents: J. L. Morrison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

DIESEL ENGINES

Andrita, Vienna. Industrial Diesel Engines from 250 BHP. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Bergius Co. Ltd., The, Glasgow. Agents: India Metal Agencies, Post Box No. 1966, Bombay-1.

Cummins Diesel Export Corp., Indiana, U.S.A. Sole Agents: Blackwood Hodge (India) Private Ltd., Lotus House, Marine Lines, Bombay 1.

Davey Paxman & Co., Ltd., Standard Iron Works, Colchester. Diesel Engines for Stationary, Marine and Rail Traction Duties. Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Dorman, W. H. & Co., Ltd., Stafford. Industrial and Marine Diesel Engines. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

East Japan Heavy Industries Ltd. (Japan). For Beacon Diesel Engines. Agents in India: Essential Engineering Co., Botawala Building, Elphinstone Circle, Fort.

H. Widdop & Co. Ltd., Kelghley, England. Agents: India Metal Agencies, Post Box No. 1966, Bombay 1.

R. A. Lister & Co. Limited, Dursley, Gloucestershire, England; Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Ruston & Hornsby Ltd., Lincoln & Grantham, England. Horizontal & Vertical Stationary Diesel Engines, also Marine, Main and Auxiliary Diesel Engines. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Turner Manufacturing Co., Ltd., Wolverhampton. Agents: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

DISC SPRINGS

ADOLF SCHNORR, West Germany. Mfrs. of Disc Springs. Sole Agents: Messrs. B. Chowdhury & Co., Indian Globe Chambers, (7th Floor), Fort Street, Fort, Bombay 1. Phone: 26-3470. Grams: "BIBUKH".

**DISINFECTANTS AND
INSECTICIDES, FUNGICIDES,
WEEDKILLERS, LIQUID
CHLORINE ETC.**

**ALKALI & CHEMICAL CORPORATION
OF INDIA LTD.**, Calcutta. Gammaxane brand insecticides etc.) Agents: I.C.I. (India) Private Ltd., Post Box 310, Bombay 1.

BRITISH SULPHATE OF COPPER ASSOCIATION LTD., 1, Great Cumberland Place, London, W. 1. (Copper Sulphate) Agents in India: I. C. I. (India) Private Ltd., Post Box No. 310, Bombay 1.

Dakin Brothers Ltd., 82, Middlesex Street, London, E.1. Manufacturers of Dakin's Cresol Disinfectant. Sole Agents: J. D. Jones & Co. (Bombay) Private Ltd., Ruston Building, Veer Nariman Road, Fort.

Hercules Powder Co., Inc., Wilmington, Delaware, U.S.A. Agents: Hardcastle, Wand & Co. Private Ltd., Alice Buildings, Dr. Dadabhoi Naoroji Road, Fort.

Lee Nagel's (Cowan's) Process for Extermination of White ants. Agents: The Anglo-Thai Corporation, Ewart House, Bruce Street.

Michigan Chemical Corporation, U.S.A. Insecticides. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

PLANT PROTECTION LTD., Bolton House, 61, Curzon Street, Piccadilly, London, W. 1. (For plant protection products and growth promoting chemicals). Agents in India: I. C. I. (India) Private Ltd., Post Box No. 310, Bombay 1.

Thresh Disinfectant Co., Phoenix Works, Marriner Road, Kelghley, Yorks. Sole Agents: Healdy & Gresham, Ltd., 9, Forbes Street.

DOMESTIC APPLIANCES

Lumbys Ltd., London. Hot Water Boiler, etc. Agents: Richardson & Cruddas, Ltd., Byculla, Bombay 8.

DOMESTIC HARDWARES

Valor Co., Ltd., "Stoves, Cookers, Ovens, etc." Sole Agents: J. L. Morrison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

DRAWING OFFICE EQUIPMENT

Lewis Rabjohns Ltd., Acre Works, Brooklands Road, Weybridge, Surrey. Drawing Office Materials and Equipment. Agents: Gillanders Arbuthnot & Co., Ltd., 16, Queen's Road Estate, Bombay 1.

DREDGERS

Fleming & Ferguson Ltd., Paisley. Agents: Glenfield & Kennedy Ltd., 198, Jamshedji Tata Road, Fort.

**DREDGERS AND DREDGING
PLANT BUILDERS**

De Groot, Holland. Bucket Dredgers. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

DRILL STEEL

Sheffield Hollow Drill Steel Co. Ltd., Sheffield; Hollow Drill & Mining Steel; Sole Distributors: William Jacks & Co., Ltd., Hamilton House, Graham Road, Ballard Estate.

Gwynnes Pumps Ltd., Lincoln. Suction Dredgers. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

I. H. C. Holland, Holland. Agents for Western India: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

Wm. SIMONS & CO., LTD., Renfrew, Near Glasgow. Representatives: James Finlay & Co., Limited, P.O. Box No. 73, Bombay 1.

**DRILLING AND BORING
EQUIPMENT**

Halifax Tool Co., Ltd., Halifax. Sole Agents: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

Kitchen & Wade Ltd., Halifax, England. Drilling Machines. Agents: Healdy & Gresham Ltd., 9, Forbes Street.

Mindrill Ltd., Preston, Victoria, Australia. Diamond Coring and blast hole drills, Grout drills and accessories. Rods, Casings and pumps. Diamond bits. Bits for Coring, non-coring, reaming and casing bits. Portable Rotary drills. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

National Supply Co., New York, The, Oil Well drilling rigs and Equipment, Hughes Bits; Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes St., Fort, Bombay.

Ruston-Bucyrus Ltd., Lincoln, England and Bucyrus-Erie Company, South Milwaukee, Wisconsin, U.S.A. Excavating Machinery, Well and Blast Hole Drills, Hydro Cranes. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Siemens-Schuckert (G.B.) Ltd., Brentford, Middlesex. Electric Hand Drills, Gate End Panels, Wimet Bits, etc. Agents: Balmer Lawrie & Co., Ltd., 6, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Swenska Motorbör Aktiebolaget, Sweden. Portable Petrol Driven Rock Drilling & Braking Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

DRUGS & MEDICINES

Otto A. H. Wolfer, Hamburg 1, Rosenstrasse 11 (Germany). Agents: Hardcastle Wand & Co. Private Ltd., Alice Building, Dr. Dadabhoi Naoroji Road, Fort.

DUMPERS

Foden Ltd., Sandbach. Dumpers. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

DUSTERS

T. N. WALDRON LTD., Aven Works, Stratford-on-Avon, England. (Waldron-powder Distributor) Agents: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

DYESTUFFS

Badische Anilin & Soda Fabrik, Germany. Agents: Sukhanand Shankarlal Jain & Co., Private Ltd., 47, Deniyathan Street, Bombay 3.

Chemapol Ltd., Panaka 9, Prague II, Czechoslovakia. Sole Agents for India: Chemidye Trading Co., Ltd., Kamber Building, Cawasji Patel Street, Fort.

CIBA LIMITED, Basle (Switzerland). Manufacturers of Aniline Dyes, Indigo, etc. Sole Suppliers for India: Ciba Dyes Private Limited, Royal Insurance Building, Jamshedji Tata Road, Churchgate Reclamation, Bombay 1. Phone Nos. 37184/7. Tel. Address: "CIBA." Post Box No. 478. Codes used: Universal Trade and Bentley's Second Phrase.

FARBENFABRIKEN BAYER AKTIENGESELLSCHAFT, Leverkusen, Germany. Manufacturers of Coal-tar Dyes. Sole Distributors: Chikla Private Ltd., Industrial Assurance Building, Opp. Churchgate Station, Bombay 1. Phone: 242291-3. Grams: "DYECOLD".

FARBWERKE HOECHST AG., Frankfurt/Main/Hoechst, W. Germany. (Dyestuffs, Textile Auxiliaries, etc.). Distributors: Messrs. Fedco Private Ltd., Mafatal House, Backbay Reclamation, Bombay 1. Phone: 36864/5. Grams: "RAFRICOL".

I. C. I. LTD., Dyestuffs Division, Manchester, England. Selling Agents: I. C. I. (India) Private Ltd., Post Box No. 310, Bombay 1.

L. B. HOLLIDAY & CO. LTD., Ruddersfield, England. Sole Agents for India, Burma & Ceylon: Amritlal & Co. Private Ltd., 11, Spott Road, Ballard Estate, Fort.

EARTHMOVING EQUIPMENTS

Aveling Barford Ltd., Invieta Works, Grant-ham, England. Motor & Diesel Road Rollers, Dumper Trucks, Trench-Diggers, Calf-Dozers, Graders, Crushing & Screening Plant. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Blaw Knox Ltd., London. Bulldozers, Scrapers, Rotters, Tamping Rollers, Excavators. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Boydell & Co. Ltd., E. Manchester (Muir-Hill Dumpers). Agents for Western India: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

Curtiss-Wright Corp., New York. Earth-moving equipment, construction machinery. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes St., Fort, Bombay.

Euclid Division General Motors Overseas Operations, U.S.A. Bear Dumps, Bottom Dumps, Scrapers, etc. Sole Agents: Blackwood Hodge (India) Private Ltd., Lotus House, Marine Lines, Bombay 1.

International Harvester Export Co., U.S.A., U.K., Australia and Associates; Crawler and Wheel Tractors, Bulldozers, Bulgraders, Scrapers, Tractor Shovels etc., Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

LeTourneau-Westinghouse Company, Peoria, Illinois, U.S.A. Adams Motor Graders, etc. Sole Distributors: William Jacks & Co., Ltd., Hamilton House, Graham Road, Ballard Estate.

Mack Trucks Inc., 1355 West Front Street, Plainfield, New Jersey, U.S.A. Bear End Dumpers, Side Dumpers, Truck Tractor for heavy duty trailer transport, Heavy Duty Trucks. Sole Distributors: Voltas Ltd., Chinchpokli Road, Bombay 12.

Newton Chambers & Co. Ltd., Horndelife, Sheffield. Excavators, Earth Moving Plant. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Buston-Bucyrus, Ltd., Lincoln, England and Bucyrus-Erie Company, South Milwaukee, Wisconsin, U.S.A. Excavating Machinery, Well and Blast Hole Drills, Hydro Cranes. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

EARTHMIVING MACHINERY, CRANES

Florentini & Co., Ing. F., Italy. Agents for Western India: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

EDUCATIONAL FILMS

Bray Studios Inc., 729 Seventh Avenue, New York, 10, N.Y. Sole Agents: National Education & Information Films Ltd., National House, Apollo Bunder, Bombay.

Czechoslovak Films, Prague, Sole Agents: National Education & Informations Films Ltd., National House, Apollo Bunder, Bombay.

Common Ground Ltd., Sydney Place, London, S.W. 7. Sole Agents: National Education and Information Films Ltd., National House, Tulloch Road, Apollo Bunder, Bombay.

Coronet Instructional Films, Coronet Building, Chicago, U.S.A. Sole Distributors: National Education & Information Films Ltd., National House, Tulloch Road, Apollo Bunder, Bombay.

Edited Pictures System (E.P.S. Instructional Films), 165 West, 46th Street, New York 19. Sole Agents: National Education & Information Films Ltd., National House, Tulloch Road, Apollo Bunder, Bombay.

Films of the Nations, Inc., 62, West, 45th Street, New York 19. Sole Agents: National Education and Information Films Ltd., National House, Tulloch Road, Apollo Bunder, Bombay.

McGraw-Hill Book Co., New York. Sole Distributors of McGraw-Hill Textfilms: National Education & Information Films Ltd., National House, Apollo Bunder, Bombay.

National Film Board of Canada, Montreal (Canada). Sole Distributors for 16 mm. Film and Filmstrips: National Education & Information Films Ltd., National House, Apollo Bunder, Bombay.

ELECTRIC CONTROL GEAR

Allen West & Co. Ltd., Motor Control Gear of all descriptions. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

Laurence Scott & Electromotors Ltd., Electric Motors of all descriptions. Sole Agents: William Jacks & Co., Ltd., Hamilton House, Graham Road, Ballard Estate.

ELECTRIC FURNACES

Electric Furnace Co., Ltd. (Group), Weybridge, Surrey. Agents: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

ELECTRIC HOUSE SERVICE METERS

Uher & Co., Vienna, Austria. Agents: India Metal Agencies, India House, Fort Street, Bombay 1.

ELECTRIC LAMPS

A.E.I. Lamp & Lighting Co., Ltd., London. Electric Lamps, "Ediswan". Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494. Grams: "BALMER".

Elektro-Rohren-gesellschaft mbh., Göttingen, West Germany. Mfrs. of Signal, Indicator Neon Lamps, and special purpose lamps. Agents: G. K. Trading Company, 327, Hornby Road, Bombay 1. Phone: 253877. Grams: "MULTIPLUG".

Nijmegen Lamp Co. Ltd. N.V., Nijmegen, Holland. Agents: G. K. Trading Company, 327, Hornby Road, Bombay 1. Phone: 253877. Grams: "MULTIPLUG".

United Incandescent Lamp & Electrical Co. Ltd., Ujpest 4 (Budapest), Hungary. Mfrs. of Famous Tungaram Krypton Lamps, Miniature Lamps, Film Excitor, Projection, Studio & Flood Light Lamps. Infra Red Lamps. Agents: G. K. Trading Company, 327, Hornby Road, Bombay 1. Phone: 253877. Grams: "MULTIPLUG".

ELECTRIC MOTORS

Aeronox Corporation, U. S. A. 'Aeronox' Motor Capacitors. Agents: C. Sethia & Co., 59, Forbes Street, Bombay 1.

Brook Motors Ltd., Huddersfield. A. C. Motors of all types and sizes. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Outboard Marine & Manufacturing Co., Waukegan, U.S.A. Agents: India Metal Agencies, Post Box No. 1966, Bombay 1.

ELECTRIC THERMOSTATS

ROBERT MACLAREN & CO., LTD., Eglinton Works, Kilbride Street, Glasgow, C. 5. Representatives: James Finlay & Co., Ltd., P.O. Box No. 73, Bombay 1.

ELECTRICAL GOODS & APPLIANCES

Artie Fuse & Electrical Mfg. Co., Ltd., Birtley Co., Durham, England. Knife Switches, H.R.C. Cartridge and Fuse Wire Type Switchboard Pattern Fuses, Ironclad Switchgear, etc. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort, Bombay.

Belling & Co., Ltd., Southbury Road, Enfield, Middlesex, England. Electric Cookers & Heaters. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

Black & Decker Mfg. Co., Towson, Maryland, U.S.A. Portable Electric Tools, etc. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

Black & Decker Ltd., Harmondsworth, Middlesex, England. Portable Electric Tools, etc. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

Bullers Ltd., 6, Laurence Pountney Hill, London, E.C. 4. Porcelain Insulators, etc. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

Compteurs Et Material D'usine A. Gaz, Selmes, France. Agents: Hindco, 27, New Queen's Road, Bombay 4.

Cooke & Ferguson, Ltd., Openshaw, Manchester, England. High Tension Switchgear. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

Crompton Parkinson Ltd., Crompton House, Aldwych, London, W.O. 2, England. Electrical Machinery, Lamps, Fans, Batteries, Wires, Cables, etc. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

Dubiller Condenser Co. (1925) Ltd., North Acton, London, W.3, England. Static Capacitors, etc. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

E. & B. Kaye Ltd., England. Bare Copper Strips, Plain and Enamelled D.C.C. & S.C.C. Wires. Sole Agents: Johnson & Phillips Ltd., Kaiser-i-Hind Building, Currimbhoy Road, Ballard Estate.

ELECTRIC TRANSMISSION LTD., England. Outdoor Switchgear and Fuses. Sole Agents: Johnson & Phillips Ltd., Kaiser-i-Hind Building, Currimbhoy Road, Ballard Estate.

Electrical Apparatus Co., Ltd., St. Albans, England. Electric Control Gear. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

Gent & Co., Ltd., Faraday Works, Leicester, England. Electrical Clocks and Signalling Apparatus. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

H. K. PORTER COMPANY (DALA-WARE), Electric Service Works, Delta Star Division, Philadelphia, U.S.A. 'Crystal Valve Lightning Arresters'; Sole Agents: Johnson & Phillips Ltd., Kaiser-i-Hind Building, Currimbhoy Road, Ballard Estate, Bombay.

Horstmann Gear Co., Ltd., Bath, England. "H.B.E." Electric Time Switches. Sole Agents: Johnson & Phillips Ltd., Kaiser-i-Hind Building, Currimbhoy Road, Ballard Estate.

Imperial-Werke G.m.b.H., Bunde/Westf. Germany. Mfrs. of Cooking Ranges. Agents: G. K. Trading Company, 327, Hornby Road, Bombay 1. Phone: 253877. Grams: "MULTIPLUG".

Jeka Spezialfabrik Elektrischer Apparate, Ing. Josef Kraut O.G.H., Heppenhiem/Bergstrasse, West Germany. Mfrs. of Hot Plates & Special Electrical Elements. Agents: G. K. Trading Company 327, Hornby Road, Bombay 1. Phone: 253877. Grams: "MULTIPLUG".

L. ANDIS & GYR, London, England. Electricity Meters. Sole Agents: Johnson & Phillips Ltd., Kaiser-i-Hind Building, Currimbhoy Road, Ballard Estate.

Landis & Gyr, Ltd., Zug (Switzerland). Electricity Meters, Time Switches. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

P. B. Mallory & Co., Inc. Indianapolis, 6, Indiana, U.S.A. Agents: Hindco, 27, Queen's Road, Bombay 4.

Morgan Crucible Co., Ltd., Battersea Church Road, London, S.W.11, England. Carbon and Morganite Brushes. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

Nalder Bros. & Thompson Ltd., England. Electrical Measuring Instruments. Sole Agents: Johnson & Phillips Ltd., Kaiser-i-Hind Building, Currimbhoy Road, Ballard Estate.

N. V. Pope's Draad-en Lampen Fabrieken, Holland. Agents: Hindco, 27, New Queen's Road, Bombay 4.

Pifco Ltd., Manchester, England, Mfrs., Hair Dryers, Vibratory Massagers, etc. Sole Agents: Ramnarayan Trading Corporation, 8, Himalaya House, Paltan Road, Bombay 1 (India). Phone: 263816. Cable: "MORPHY".

Beyrolle, A., & Co. Ltd., Hebburn Co., Durham, England. Plugs, Sockets, Switch-Sockets and Plugs, Switch-Fuse-Sockets & Plugs, etc. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

Richard Johnson & Nephew Ltd., Forge Lane, Manchester 11. Steel Cored Aluminium Conductor. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

Rowenta Metall-warenfabrik G.m.b.H., Offenbach A. M. Germany. Mfrs. of Rowenta High class Electrical Appliances. Irons, Sauce-pans, Coffee percolators and Espresso Coffee Machines. Agents: G. K. Trading Co. 327, Hornby Road, Bombay 1. Phone: 25887 Grams: "MULTIPLUG".

Simplex Electric Co. Ltd., P.O. Box No. 8, Birmingham, England. Iron clad Switchgear and Switch fuse gear. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

S. O. Bowker Ltd., England. "TENBY" Pilot 4 amps. Tumbler Switches and Electrical Accessories. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Switchgear & Equipment Ltd., Banbury, Oxon, England. L. T. & H. T. Switchgear & Fusegear, Overhead Line Switchgear, etc. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

Thomas & Son (Worcester) Ltd., Worcester, England. "Climax" Piston pumps. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

Walsall Conduits Ltd., West Bromwich, England. Conduit. Agents: Balmer Lawrie & Co. Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

ELECTRICAL INSTRUMENTS AND APPLIANCES

Elliott Brothers (London) Ltd., Century Works, Lewisham, London, S.E. 13. Electrical Measuring Instruments and Telegraph Apparatus. Sole Agents: Siemens Edison Swan Ltd., United Bank Building, Sir P.M. Road, P.O. Box No. 1062, Fort, Bombay.

ELECTRICAL MOTOR CONTROL GEAR

BROOKHIRST SWITCHGEAR LTD., Northgate Works, Chester, England. (Electric Motor Control Gear and Auxiliaries). Representatives: James Finlay & Co., Limited, P.O. Box No. 73, Bombay 1.

IGRANIC ELECTRIC CO., LTD., Export Department, Victoria Station House, Victoria Road, London, S.W. 1. (Electric Motor Control Gear and Auxiliaries). Representatives: James Finlay & Co., Limited, P.O. Box No. 73, Bombay 1.

ELECTRICAL PLANT

Asea, Vasteras, Sweden. Manufacturers of all types of electrical machinery and apparatus for power purposes. Representatives: Asea Electric India, Private Limited, Yaff Building, Goa Street, Ballard Estate.

Brown, Boveri & Co., Ltd., Baden, (Switzerland). Steam Turbine and Electrical Machinery Apparatus of every description. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Bruce Peebles & Co. Ltd., Edinburgh. Electrical Machinery, Transformers, etc. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

ELECTRICAL & RADIO TEST INSTRUMENTS

Avo Ltd., 92-96, Vauxhall Bridge Road, London, S.W. 1. England. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

Sangamo Weston Ltd., Great Cambridge Road, Middlessex, England. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

ELECTRICAL RESISTANCE ALLOYS, NICHROME, ETC.

British Driver-Harris Co. Ltd., Cheshire 15, England. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

Driver-Harris Company Harrison, New Jersey, U.S.A. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

ELECTRICAL SWITCHES AND FUSES

Arrow Electric Switches Ltd., Hanger Lane, Ealing, England, London, W 5. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

ELECTRICAL SWITCHGEAR

British Klockner Switchgear Ltd. Air Break and Oil Immersed Electric Motor Starters, Contractors, Loom Switches, Remote control push button stations—Contact: Ratansi Morarji Private Limited, Post Box No. 1270, Bombay.

Contractor Switchgear Ltd., Wolverhampton, England. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

Dorman & Smith Limited, Electric Switch-fuses, Rewirable & H.E.C. fuses, Miniature Circuit Breakers, Lighting Fittings, Plugs and Sockets—Contact: Ratansi Morarji Private Limited, Post Box No. 1270, Bombay.

Midland Electric Mfg. Co. Ltd., Birmingham. Distributors: Advani & Co., 7 Shahviri Bldg. 37, Picket Road, Bombay 2.

M. & C. Switchgear Ltd., Glasgow. Electrical Switchgear. Agents: Guest, Keen, Williams Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

Sprocher & Schuh Ltd., Aaran (Switzerland). Agents: Kaycee Industries Ltd., Kamani Chambers, Nicol Road, Bombay 1.

Stots—Kontakt G.m.b.H. Heidelberg (Germany) Agents: Advani & Co., 7, Shahviri Bldg., 37, Picket Road, Bombay 2.

Yorkshire Switchgear & Engineering Co. Limited, Meanwood, Leeds 6, England. Manufacturers of Metalclad H. V. Switchgear. Representatives: Asea Electric India Private Limited, Yaff Building, Goa Street, Ballard Estate.

ELECTRICAL WIRES & CABLES

Manufactures De Cables Electriques Eupen, Belgium. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

ELECTRODES

Cooper & Turner Ltd., Vulcan Works, Vulcan Road, Sheffield, England. Sole Agents: Datsun, Raviraj & Co., Private Ltd., 43, Tamarind Lane, Fort, Bombay. Phone: 39333.

Murex Welding Processes Ltd., Waltham Cross, Herts. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

Union Carbide International Company, New York 17, N.Y. (U.S.A.). Acheson Graphite and National Carbon Electrodes for Electrothermic & Electrolytic applications, Carbon Lining Blocks, Bricks, Paste, etc., Chemically inert "Karbate" (Impervious Carbon and Graphite) Products. Representatives in India: Voltas Limited, Ballard Estate, Bombay 1.

Weldcraft Ltd., 26, Purley Way, Croydon, England. Manufacturers of "Bronze-craft" Low Temperature Welding Rods. Sole Agents: Datsun Raviraj & Co., Private Ltd., 43, Tamarind Lane, Fort.

Welding Supplies Ltd., England. Electrodes & Welding Plants, Magnetic Crack Detectors, and Gas Cutting Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

ELECTRONIC APPARATUS FOR RESEARCH & INDUSTRY

Allen B. Du Mont Laboratories, Inc. International Division, 515, Madison Avenue, New York, 22 N.Y., U.S.A. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

Boonton Radio Corp., Boonton, New Jersey, U.S.A. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

Southern Instruments Ltd., Surrey, England. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

Sperry Gyroscope Co. Ltd., Brentford, Middlesex, England. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

Sperry Gyroscope Co. Division of the Sperry Rand Corporation. Great Neck, New York, U.S.A. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

ELECTRONIC APPARATUS & RADIO BROADCASTING & COMMUNICATION EQUIPMENT

Westinghouse Trading Co. (Asia) Ltd., 40 Wall Street, New York, U.S.A. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

ELECTRONIC EQUIPMENT AND INSTRUMENTS

Brush Instruments. 3405, Perkins Avenue, Cleveland 14, Ohio, U.S.A. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

Electronic Instruments Ltd., Surrey, England. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

General Radio Company, 275, Massachusetts Avenue, Cambridge 39, Mass., U.S.A. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

ELECTROPLATING & POLISHING EQUIPMENTS

I.C.I. LTD., General Chemicals Division, England. (Cyanides) Agents: I.C.I. India Private Ltd., P.B. No. 310, Bombay 1.

MOND NICKEL CO. LTD. THE, England. (Nickel Sulphate, Chloride etc.). Agents: I.C.I. (India) Private Ltd., P.O. Box No. 310, Bombay 1.

R. Cruickshank Ltd., Camden St., Birmingham 1. Agents: Haricastle, Waud & Co. Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Bombay 1.

W. Canning & Co., Ltd., Birmingham, England. Agents and Chief Distributors: S. Mitra & Co., 187, Dr. Dadabhoy Naoroji Road, Bombay 1. Grams: "Mludeshl."

ENGINEERING

Aerex Ltd., 46, Rutland Park, Sheffield. Mine Ventilating Fans. Agents: Balmer Lawrie & Co. Ltd., 5, Graham Road, Ballard Estate, Fort, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Ashworth & Parker, Ltd., Bury, Lancs. High Speed Steam Engines and Accessories. Sole Representatives: W. H. Brady & Co., Ltd., Veer Nariman Road, Fort, Bombay 1.

Beck & Co. (Meters) Ltd., etc. Agents: Haricastle, Waud & Co. Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

British Pitometer Co., Ltd., London. Agents: Glenfield & Kennedy, Ltd., 198, Jamshedji Tata Road, Fort, Bombay 1.

Charles Thomas & Co., Ltd., Wainwright Street, Aston, Birmingham, 6, England. Agents: Soho House, Lohar Street, Bombay.

Christiani & Nielsen, Copenhagen, Denmark. Patented R.C.C. Arch Bridges with inclined hangers. Sole Agents in India: Gammon India Private Ltd., Hamilton House, Ballard Estate.

Craven Bros. Crane Division, Ltd., Loughborough. Breakdown and Railway Cranes. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Glenfield & Kennedy, Ltd., Kilmarnock. Agents: Glenfield & Kennedy, Ltd., 198, Jamshedji Tata Road, Fort, Bombay 1.

Head, Wrightson & Co., Ltd., Stockton Forge Division, Stockton-on-Tees, England. Ore mining and Treatment Plant, Coal mining and Treatment Plant. Selling Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Henricot Steel Foundry, 5, Lawrence Pountney Hill, Cannon Street, London, E. C. 4. Steel Castings. Agents: Haricastle, Waud & Co. Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Hick Hargreaves & Co., Ltd., Steam Engines and Turbo Generators. Representatives: W. H. Brady & Co., Ltd., Veer Nariman Road, Fort, Bombay 1.

Hoffman Sprinkler Co., Ltd., Manchester. Specialists. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Hopkinson, Ltd., Huddersfield. Mountings and Fittings for all classes of Engines and Boilers, Steam, Air and Oil Valves, Oil Purifiers. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Kent, George, Ltd., Biscot Road. Works: Luton, Beds. Steam, Water, Air and Oil Meters and Recorders. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Lister & Co. (R. A.), Dursley, Glos. Auto Trucks. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Morris (Herbert), Ltd., Loughborough. Hand & Electric Cranes, Pulley Blocks, Runways, Stacking Machines, Lifts, Conveyors, Elevators, and all types of Mechanical Handling Equipments. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Norris, Henty & Gardner, Ltd., High Speed Oil Engines. Sole Representatives: W. H. Brady & Co., Ltd., Veer Nariman Road, Fort, Bombay 1.

Power Plant Co., Ltd., England. Agents: Balmer, Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Renold Chain Ltd., Didsbury, Manchester. Chains, Chain Drives, etc. Sole Representatives for India: W. H. Brady & Co., Limited, 12/14, Veer Nariman Road, Fort, Bombay 1.

Richard Klinger Ltd., Klinger Engineering specialties. Agents: Haricastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Ultra Lens Company, The, London, E.C. 2. Agents: Haricastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Veeder-Root Ltd., Hartford, U.S.A. Counters. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Weir, G. & J., Ltd., Glasgow. Pumps & Power Plant Auxiliaries, Refrigeration Plant. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Wells, A. C., & Company Ltd., Manchester. Wells Oil Filters. Agents: Haricastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

ENGINEERING STORES & HARDWARE

Dicks Asbestos and Insulating Co., Ltd., Asbestos Packings. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Dixon (Joseph), Crucible Co., Graphite Specialities. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Lushington Tool & Gauge Co., Ltd., England. Representatives: Behram & Co., 1/1 Lakshmi Bldg., Sir P. M. Road, Bombay, 1.

Nicholson File Co., Providence, U.S.A. Files and Rasps. Wholesale Representatives in Bombay State: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Signode Steel Strapping Co., Chicago. "Signode System" of Strapping and Seals. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

ENGRAVING MACHINES

Taylor, Taylor & Hobson Ltd., England. Engraving Machines, Pantograph Milling & Diesinking Machines, Electric Etching Equipment. Toolmakers' Microscopes, Talysurf Instrument, Talysond Roundness Measuring Instrument, Auto-Collimator, etc. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

ESSENCES & PERFUMES

N. V. SLUYS BOECROUT, BELGIUM. Sole Selling Agents in India: Industrial and Allied Chemicals, National House, 6, Talloch Road, P.O. Box 488, Bombay 1.

ESSENTIAL OILS

Antoine Chiris, S. A., Grasse, France. Sole Agents: Anil Trading Co. 32, Princess Street, Bombay 2.

Destilaciones Bordas Chinchureta, S.A., Seville, Spain. Essential Oils. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort.

Destilaciones Garcia De la Fuente S.A., Granada (Spain). Sole Agents: Aromatic Products & Chemicals Private Ltd., 42, Prospect Chambers Annexe, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Grams: "DISCOVERY."

Dragoco-Holzmlinden, W. Germany. Agents: B. C. Patel & Co., 79, Princess Street, Bombay 2.

ESROLKO LTD. (formerly FLORA), Switzerland. Mfrs. of Synthetic Essential Oils & Aromatic Chemicals. Agents: M. C. Davar & Co., 143, Princess Street, Bombay 2.

H. Raab & Co., Amsterdam, Holland. Agents: B. C. Patel & Co., 79, Princess Street, Bombay 2.

Jean A. du Crocq Jr. N. V., Hulzen N. H., Holland. Agents for Bombay State: B. K. Shapurji & Co., Prospect Chambers, 319, Dr. Dadabhoy Naoroji Road, P.B. No. 1065, Bombay 1.

L. Russo & Figlio, Messina (Italy). Sole Agents: Aromatic Products & Chemicals Private Ltd., 42, Prospect Chambers Annexe, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Grams: "DISCOVERY."

M. M. Hatherbacha & Co., Penang, Malaya. Agents: M. C. Davur & Co., 143, Princess Street, Bombay 2.

N. V. Chemische Fabrick "FLEBO", Hoesezand (Holland). Sole Agents: Aromatic Products & Chemicals Private Ltd., 42, Prospect Chambers Annexe, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Grams: "DISCOVERY."

P. Roberte & Cie, Grasse, France. Agents: B. C. Patel & Co., 79, Princess Street, Bombay 2.

S. A. Jean Roure, Pierre Ziller, Bruno Court, Grasse (France). Sole Agents: Aromatic Products & Chemicals Private Ltd., 42, Prospect Chambers Annexe, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Grams: "DISCOVERY."

Takasago Perfumery Co. Ltd., Tokyo, Japan. Sole Agents: Aromatic Products & Chemicals Private Ltd., 42, Prospect Chambers Annexe, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Grams: "DISCOVERY."

EXCAVATING MACHINERY MANUFACTURERS

Blaw Knox Ltd., London. Excavators. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Harnischfeger Corporation, International Division, Milwaukee, Wisconsin, U.S.A. Power Shovels, Dragliners, Cranes, Clamshells and Soil Stabilizers. Sole Distributors: Voltas Ltd., Chinchpokli Road, Bombay 12.

Marlon Power Shovel Co., Ohio, U.S.A. Agents: Blackwood Hodge (India) Private Ltd., Lotus House, Marine Lines, Bombay 1.

Newton Chambers & Co. Ltd., Horncliffe, Sheffield. Excavators, Earthmoving Plant. Agents: Balmer Lawrie & Co. Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Thomas Smith & Sons (Rodley) Ltd., Rodley, Excavators. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

EXPLOSIVES (CHEMICALS)

I.C.I. LTD. Nobel Division, Glasgow, Scotland. Commercial Explosives & Accessories for Blasting also Sporting Gunpowder. Selling Agents: **I.C.I. (India) Private Ltd.**, P.B. No. 310, Bombay 1.

FACTORY AND CALENDAR CLOCKS

Solari Remici O. & C. (Italy). Agents: for India: **Essential Engineering Co.**, Botawalla Building, Horniman Circle, Fort, Bombay.

FANS

Blackman Export Co., Ltd., London. Industrial Fans and Blowers. Sole Agents: **Marshall Sons & Co. (India) Ltd.**, Marshall's Building, Ballard Road, Bombay 1.

FILTERS

Vokes Ltd., Guilford, England. Agents: **John Fowler India Private Ltd.**, Marshall's Bldg., Ballard Road, Bombay 1.

FIRE ENGINES AND APPLIANCES MANUFACTURERS

Coventry Climax Engines, Ltd., Widdrington Road Works, Coventry (ENGLAND). Sole Agents: **Kooverji Devshi & Co.**, Private Ltd., 164, Lohar Street, Bombay 2.

Dennis Bros. Ltd., Guildford, Surrey, England. Dennis' Motor, Fire Engines and Trailer Pumps. Agents: **Roberts, McLean & Co., Ltd.**, Ilaco House, Sir Phirozshah Mehta Road.

Merryweather & Sons, Ltd., Greenwich, London. Fire Engines & Appliances. Agents: **Balmer Lawrie & Co., Ltd.**, 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER."

Read & Campbell Ltd., 75, Victoria Street, Westminster, London S.W. 1 (ENGLAND). Sole Agents: **Kooverji Devshi & Co.**, Private Ltd., 164, Lohar Street, Bombay 2.

Walter Kidde Co., England. Fire Extinguishers and built-up systems. Agents: **Roberts McLean & Co., Ltd.**, Ilaco House, Sir Phirozshah Mehta Road, Fort.

FIRE FIGHTING APPLIANCES

Albion Motor Co., Sweden. Sole Agents: **National Fire Equipment Co.**, 11 Bank Street, Bombay 1.

Firewater Company, 1, First Street, Los Altos, California (U.S.A.). Sole Agents: **Kooverji Devshi & Co.**, Private Ltd., 164, Lohar Street, Bombay 2.

H. Christoferson & Co., Goteburg, Sweden. Agents: **National Fire Equipment Co.**, 11, Bank Street, Fort, Bombay 1.

James Hendry Ltd., 252 Main Street, Bridgeton, Glasgow, S.E. (ENGLAND). Sole Agents: **Kooverji Devshi & Co.**, Private Ltd., 164, Lohar Street, Bombay 2.

Koehler Mfg. Co., Marlboro, Massachusetts (U.S.A.). Sole Agents: **Kooverji Devshi & Co.**, Private Ltd., 164, Lohar Street, Bombay 2.

Mandals Reherbane C. H. Co., Oslo, Norway. Sole Agents: **National Fire Equipment Co.**, 11, Bank Street, Fort, Bombay 1.

Pyrene Company Ltd. Fire fighting Appliances. Sole Distributors: **William Jacks & Co., Ltd.**, Hamilton House, Graham Road, Ballard Estate.

FIRE WORK MFRS.

ALBRIGHT & WILSON LTD., England. (Stremthum Nitrate). Selling Agents: **I.C.I. (India) Private Ltd.**, Post Box No. 310, Bombay 1.

ENGLISH METAL POWDER CO., LTD., England. Aluminium Powder Pyrotechnic. Selling Agents: **I.C.I. (India) Private Ltd.**, Post Box No. 310, Bombay 1.

I.C.I. LTD. Nobel Division, England. (Barium Nitrate). Selling Agents: **I.C.I. (India) Private Ltd.**, Post Box No. 310, Bombay 1.

FISH (PRESERVED)

Seafood Products Ltd., Vancouver. Frozen Fish. Sole Distributors: **Spencer & Co., Ltd.**, Spencer's Building, Forjett Street, Bombay 26.

Stavanger Preserving Co., A.S. Canned Fish. Sole Agents: **J. L. Morison, Son & Jones (India) Private Ltd.**, Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

FLAME GUNS & BURNERS

Hauck Manufacturing Co., U.S.A. Agents: **Guest, Keen, Williams, Ltd.**, Wakefield House, Spratt Road, Ballard Estate, Bombay 1.

FLAVOURING & PERFUMERY RAW MATERIALS

Jean A. du Crocq Jr. N. V., Hulzen N. H. Holland. Sole Agents for Bombay State: **E. K. Shapurji & Co.**, Prospect Chambers, 319, Dr. Dadabhai Naoroji Road, P.B. No. 1065, Bombay 1.

B. Lienau & Cie., 22(a) Uerdingen A. R.H., Germany-West. Sole Agents: **R. K. Shapurji & Co.**, Prospect Chambers, 319, Dr. Dadabhai Naoroji Road, P.B. No. 1065, Bombay 1.

FLOOR HARDENING COMPOUND

Ironite Co., Ltd., 4, Holbeine Place, Sloane Square, London, S.W. 1. Sole Agents: **Heath & Graham, Ltd.**, 9, Forbes Street, Fort.

FLOUR MILLING PLANT & MACHINERY

E. R. & F. Turner Ltd., England. Complete Flour Milling Plant and Machinery. Sole Distributors: **William Jacks & Co. Ltd.**, Hamilton House, Graham Road, Ballard Estate.

FOOD PREPARATION MACHINERY

Allied Ironfounders Ltd., England. Heavy duty Hotel & Canteen Cooking and Food Preparation Machinery. Sole Distributors: **William Jacks & Co. Ltd.**, Hamilton House, Graham Road, Ballard Estate.

FORGINGS AND STAMPINGS FOR RAILWAYS

COMPTON DES FERRURES, CHARLEVILLE (ARDENNES), France. Manufacturers of Component Parts of Machinery, Rolling Stock, etc. Agents: **Gaytee & Company, Jammabhoomi Chambers, Fort Street, Bombay.** Phone: 263449. Grams: "IMPENG."

USINES ET ACHIERIES DE SAMBRE ET MEUSE, Paris, France. Steel Castings, Carbon Steel and Alloy Steel. Railroad Parts, Armament Products, Aircraft Bombs, Machinery, etc. Agents: **Gaytee & Company, Jammabhoomi Chambers, Fort Street, Bombay.** Phone: 263449. Grams: "IMPENG."

FORK LIFT TRUCKS

Coventry Climax Engines Ltd., Widdrington Road Works, Coventry. Fork Lift Trucks, etc. Sole Distributors: **William Jacks & Co. Ltd.**, Hamilton House, Graham Road, Ballard Estate.

FOUNDRY MATERIAL & EQUIPMENT

BEARDSLEY & PIPER, U.S.A. Manufacturers of "SANDLO" Core Blowers. Sole Agents: **Pioneer Equipment Co., Private Ltd.**, 139, Meadows Street, P.O. Box 1909, Bombay 1 (Phone: 251882). Also at 1, Mangoe Lane, Calcutta 1 (Phone: 231611) and 193, Mount Road, Madras 2. Grams: "PIOMETAL."

Foundry Services International Ltd., Long Acre, Nechelles, Birmingham. Foundry Fluxes, for use in the founding of light alloys, non-ferrous & ferrous metals. Sole Concessionaires: **Greaves Cotton & Co. Ltd.**, 1, Forbes Street, Fort, Bombay.

GRAUE, G.m.b.h., W. Germany. Manufacturers of Sand Conditioning & Foundry Mechanisation Plants. Sole Agents: **Pioneer Equipment Co. Private Ltd.**, 139, Meadows Street, P.O. Box 1909, Bombay 1 (Phone: 251882). Also at 1, Mangoe Lane, Calcutta 1 (Phone: 231611) and 193, Mount Road, Madras 2. Grams: "PIOMETAL."

GUSTAVE ZIMMERMANN MASCHINENFABRIK, G.m.b.h., W. Germany. Manufacturers of famous Zimmermann Moulding Machines. Sole Agents: **Pioneer Equipment Co., Private Ltd.**, 139, Meadows Street, P.O. Box 1909, Bombay 1 (Phone: 251882). Also at 1, Mangoe Lane, Calcutta 1 (Phone: 231611) and 193, Mount Road, Madras 2. Grams: "PIOMETAL."

Hauck Manufacturing Co., U.S.A. Agents: **Guest, Keen, Williams, Ltd.**, Wakefield House, Spratt Road, Ballard Estate, Bombay 1.

HESONWERK, Germany. Manufacturers of Moulding Boxes etc. Sole Agents: **Pioneer Equipment Co. Private Ltd.**, 139, Meadows Street, P.O. Box 1909, Bombay 1 (Phone: 251882). Also at 1, Mangoe Lane, Calcutta 1 (Phone: 231611) and 193, Mount Road, Madras 2. Grams: "PIOMETAL."

Houghton, E. F. & Co., Philadelphia. Agents: **Hardcastle, Waud & Co.**, Private Ltd., Alice Buildings, Dr. Dadabhai Naoroji Road, Fort.

Morgan Crucible Co. Ltd., The Battersea Church Road, London, S.W. 11. Morgan's tilting and Lift-out Furnaces—Coke and Oil-fired, Crucibles and Accessories, Plumbago and Fatching Materials, Refractoryware and other allied articles. Sole Concessionaires: **Greaves Cotton & Co. Ltd.**, 1, Forbes Street, Fort, Bombay.

Newton Chambers & Co., Ltd., Thorncliffe. Agents: **Killick, Nixon & Co.**, Private Ltd., Killick House, Home Street, Fort.

Robinson Major & Co., Manchester. Manufacturers of "SCOLS" Iron Cement, Pipe Joint Compound, Tube and Bar Bending Machines. Sole Agents: **J. D. Jones & Co. (Bombay), Private Ltd.**, Ruston Building, Vir Nariman Street, Fort.

SISSON LEHMANN, France. Manufacturers of Shot Blasting machines. Sole Agents: **Pioneer Equipment Co., Private Ltd.**, 139, Meadows Street, P.O. Box 1909, Bombay 1 (Phone: 251882). Also at 1, Mangoe Lane, Calcutta 1 (Phone: 231611) and 193, Mount Road, Madras 2. Grams: "PIOMETAL."

FOUNTAIN PEN

Montblanc Sempio GmbH.—Germany. Manufacturers of Quality Writing Instruments, Pens, Pencils, Desk-sets & Ink. Sole Agents in India: **Jhaveri Bros. & Co.**, Private Ltd. (Established 1914), 345, Abdul Rehman Street, Opp. Crawford Market, Bombay 3. Grams: "MONTBLANO"

FORK LIFT TRUCKS

Yale & Towne Manufacturing Co., U.S.A., U.K., Germany and Associates. Industrial Fork Lift Trucks and Hoists. Sole Distributors: Voltas Limited, Chinchpokli Road, Bombay 12.

FRUIT JUICES AND EXTRACTS

H. D. Davies & Co., Ltd., 98/100 Bishopsgate, London E.C. 2. Sole Distributors: Spencer & Co. Ltd., Spencer's Building, Forjett Street, Bombay 26.

E. I. Michel & Co., Ltd., 415, Oxford Street, London W.1. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

FUEL INJECTION SERVICING EQUIPMENT

Leslie Hartridge, England. Fuel Injection Servicing Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

FUEL LINE PIPES

TECHNO-CHEMIE KESSLER & CO., West Germany. Mfrs. of Fuel line pipes. Sole Agents: Messrs. B. Chowdhury & Co., Indian Globe Chambers (7th Floor), Fort Street, Fort, Bombay 1. Phone: 26-3479. Grams: "BISUKHI."

FURNACES

Furnace Construction Co., Birmingham, England. All kinds of Furnaces. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

G. W. B. Furnaces Ltd., England. (Manufacturers of large Electric Furnaces). Sole Agents: Indian Furnace Co., Private Ltd., Lotus Cinema Buildings, Hornby Vellard, Bombay 8.

I. C. I. LTD., General Chemicals Division, England ("CASSEL" Heat Treatment Furnaces). Selling Agents: I. C. I. (India) Private Ltd., Post Box No. 310, Bombay 1.

Morgan Crucible Co. Ltd., The, Battersea Church Road, London, S.W. 11. Morgan's tilting and Lift-out Furnaces, Oil and Coke-fired. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

OTTO-JUNKER, G. m. b. h., Germany. Electric Steel smelting and heat treatment Furnaces. Agents: Pioneer Equipment Co. Private Ltd., 139, Meadows Street, P.O. Box No. 1909, Bombay 1 (Phone: 251882). Also at 1, Mangoe Lane, Calcutta 1 (Phone: 231611) and 193, Mount Road, Madras 2. Grams: "PIOMETAL."

SKELNAR FURNACES LTD., Cardiff, U.K. Melting Furnaces, Reverberatory—Capacity 25 lb. to 5 tons—oil, coke and gas fired. Also Holding Furnaces. Sole Agents: Pioneer Equipment Co. Private Ltd., 139, Meadows Street, P.O. Box 1909, Bombay 1 (Phone: 251882). Also at 1, Mangoe Lane, Calcutta 1 (Phone: 231611) and 193, Mount Road, Madras 2. Grams: "PIOMETAL."

Stein & Atkinson Ltd., Parnell House, 25, Wilton Road, London, S. W. 1. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Thermic Equipment and Engineering Co. Ltd., England. Sole Agents in India: Indian Furnace Co., Private Ltd., Lotus Cinema Buildings, Hornby Vellard, Bombay 8.

Wild-Barfield Electric Furnaces Ltd., England. Associated Company in India: Indian Furnace Co., Private Ltd., Lotus Cinema Buildings, Hornby Vellard, Bombay 8.

GARAGE EQUIPMENT

A/B Carl Larssons—Mek-Verksland, Gothenberg Sweden. Agents: Chandul Mehta & Co., (Private) Ltd., 15, New Queen's Road, Bombay 4.

B. O. Morris Ltd., England. "Morrisflex" Flexible Shaft Equipment for Motor Garages, Workshops and for Boiler Decaling Agents: Armstrong Smith Private Ltd., Sir P. M. Road, Bombay 1.

Barrett Equipment Co., U.S.A. Brake Drum Lathes, Brake Reining Machines, Hydraulic Brake Bleeder & Filler Tanks. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Bear Manufacturing Co., U.S.A. Wheel Alignment and other Automotive Testing Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Black & Decker Ltd., England. "UTILITY" Portable Electric Tools, Valve Refacers, Vibrocentric Kits, Bench & Portable Grinders, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

British Tool & Engineering Co., Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

C. & E. Fein, Germany. Heavy Duty Portable Electric Drills with Universal Motors 440 volts A.C. Drills, Slow Speed Drills, Multispeed Drills, Right Angle Drills and Attachments, Screw Drivers, Impact Wrenches, Valve Grinders, Tappers, Tool Post & Precision Lathe Grinders, Brake Drum & Journal Grinders, Shears, Nibblers, Pipe Cutting Saws, Stone (Rock) Drilling Machines, Hammers, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Churchill, V. L. & Co., 27/84, Walnut Tree Walk, Kennington, London, S.E. 11. Agents: Heatly & Gresham, Ltd., 9, Forbes Street, Fort.

Clayton Manufacturing Co., U.S.A. GLAYTON Engine and Chassis Dynamo meters. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

De Vilbiss Company, Ohio, U.S.A. Air Compressing & Spray Painting Outfits, Hose, etc. Agents: John Fleming & Co., Private Ltd., Bastion Road, Fort, Bombay 1. Phone: 261158.

E. Asbeck-Genelsberg, Germany. Agents: Chandul Mehta & Co., (Private) Ltd., 15, New Queen's Road, Bombay 4.

Hall-Toledo (Division of Baker Bros. Inc.), U.S.A. Production Valve Seat Grinders, Eccentric Grinders. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Harvey Frost & Co. Ltd., England. Garage Tools, Jacks, Tyre Changers, Vulcanising Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Homestead Valve Mfg. Co. Ltd., U.S.A. Hypressure Steam Jennis & Compounds. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Joseph Bradbury & Sons Ltd., England. Garage Equipment, Jacks, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

King Electric Equipment Co. Inc. Cleveland, Ohio, U.S.A. Agents: Chandul Mehta & Co., (Private) Ltd., 15, New Queen's Road, Bombay 4.

Lisle Corporation, U.S.A. Cylinder Honing Machines, Wet Honing Machines, Bldge Reamers, Rod Aligners, Glaze Brakers, Garage Tools. Also "Lisle" MAGNETIC PLUGS. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Newton Bros. (Cudworth) Ltd., England. Hand or Power Operated Main Wire Bearing Boring Machines, Conrod Aligning & Boring Machines and other Engine Reconditioning Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Origo — Verken: Halmstad — Sweden. Agents: Chandul Mehta & Co., (Private) Ltd., 15, New Queen's Road, Bombay 4.

Otto—Boge, Belfield, Germany. Agents: Chandul Mehta & Co., (Private) Ltd., 15, New Queen's Road, Bombay 4.

Rogers Wilson & Co. Ltd., England. Tyre Retreading Plants and Accessories. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Taylor & Jones Ltd., England. "T & J" Expanding Reamers and Tool Holders. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Tecalemit Ltd., Brentford, U.K. Agents: Tecalemit (India) Ltd., 9, Forbes Street, Fort, Bombay.

Van Norman Co., U.S.A. Cylinder Boring Bars, Crankshaft Regrinders, Horizontal Surface Grinders, Automatic Wet Honer, Super Rotary Surface Grinder, Con-Rod Boring Machine, Piston Turning & Grinding Machines, Race-way Grinding Machines, Special purpose Milling Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

GAS CUTTING MACHINERY

Welding Supplies Ltd., England. Electrodes & Welding Plants, Magnetic Crack Detectors, and Gas Cutting Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

GAS GENERATORS

Bottagas Ltd., 6, London Street, Paddington W.2. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

GAS MAKING PLANT, ETC.

Humphreys & Glasgow Ltd., London. Agents: Killick Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

GAS TURBINES

Blackburn & General Aircraft Ltd., Brough, East Yorks, England. Gas Turbine driven Compressors, Generators and Pumping Equipment. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Bristol Aero-Engines Ltd., Filton House, Bristol, England. Gas Turbine Marine Engines. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Euston & Hornsby Ltd., Lincoln, England. Gas Turbines. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

GAUGES & INSTRUMENTS

Bailey & Mackey Ltd., Birmingham, England. Agents: Keshavlal Narsidas Jallwala, 157, Abdul Rehman Street, Bombay 3.

BRITISH STEAM SPECIALITIES LTD., Leicester, England. Manufacturers of Pressure Vacuum and Hydraulic Gauges. Agents: Gaytee & Company, Jannabhooni Chambers, Fort Street, Fort. Phone: 283446. Grams: "IMPENG."

Coley Thermometers Ltd., Brentford, Middlesex. Thermometers & Pressure Gauges. Sole Concessionaires: Greaves Cotton & Co., Ltd., Forbes Street, Fort, Bombay.

Dobbie McInnes Ltd., Glasgow. Engine Indicators & Accessories. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Heath & Co., London. Mercury and Fluid-in-Glass Thermometers. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Joseph Tormey & Sons Ltd., England. Gauge glasses, Pressure-Vacuum & Temperature Gauges. Agents: John Fleming & Co. Private Ltd., Bastion Road, Fort, Bombay 1. Phone: 261153.

GEARS

David Brown Corporation (Sales) Ltd., Huddersfield, England. All types of open Gearing, Totally enclosed Gear units, Automobile Gears, Geared Motors. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

GENERATING SETS

Hampson Industries Ltd., West Bromwich. Generating Sets. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

GLASS-CRETE BLOCKS

King, J. A., & Co., Ltd., Bridge House, 181, Queen Victoria Street, London, E.C. 4. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

GLASSWARE

PARKINSON AND SPENCER LTD., England. (Refractory materials). Agents: I.C.I. (India) Private Ltd., P.O. Box No. 310, Bombay 1.

UNITED GLASS BOTTLE MANUFACTURERS LTD., England. ("SHEEDLEY" brand Glassware). Selling Agents: I. C. I. (India) Private Ltd., Post Box No. 310, Bombay 1.

GLUCOSE AND STARCH MANUFACTURERS

Irving R. Boody & Co., Inc., New York. Liquid Glucose 45° Baume. Distributors: F. Dock & Co., Shale Building, Bank Street, Fort.

GLUES, 'CHURN' MINERAL SUPPLEMENT

BHOPAL GLUES & CHEMICALS, Bhopal. Selling Agents: I.C.I. (India) Private Ltd., P.B. 310, Bombay 1.

BRITISH GLUES & CHEMICALS LTD., England. Selling Agents: I. C. I. (India) Private Ltd., Post Box No. 310, Bombay 1.

GUMS

H. IMAMI & SONS, Teheran (Gum Tragacanth). Selling Agents in India: I. C. I. (India) Private Ltd., Post Box No. 310, Bombay 1.

HEAT TREATMENT SALTS

IMPERIAL CHEMICAL INDUSTRIES LTD., General Chemicals Division, England. ("Cascel" brand Heat treatment Salts). Agents in India: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

HEAT TREATMENT & METAL PROCESSING PRODUCTS

Houghton, E. F., & Co., Philadelphia. Agents: Hardcastle, Waud & Co. Private Ltd., Alice Buildings, Dr. Dadabhai Naoroji Road, Fort.

HEAVY CHEMICALS

Barter Trading Corp. Ltd., 14, Waterloo Place, London S.W. 1. Agents: Gillanders Arbuthnot & Co., Ltd., 16, Queen's Road Estate, Bombay 1.

HIGH SPEED, ALLOY AND HIGH CARBON STEELS

Firth's "Speedicut" High Speed Steel. Sole Distributors: William Jacks and Co., Ltd., Hamilton House, Graham Road, Ballard Estate.

HOISTING MACHINERY

Fellows Bros. Ltd., Cradley Heath, England. Agents: Keshavlal Narasidas Jallwala, 157, Abdul Behman Street, Bombay 3.

Rowland Fris & Co. Ltd., England Pulley, Blocks, Mechanical & Hydraulic Lifting & Traversing Jacks & Other Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Stroj Export, Praha, Czechoslovakia. Agents for Western & Central India: India Metal Agencies, Post Box No. 1960, Bombay 1.

HOSPITAL EQUIPMENT (MFRS.)

I.C.I. LTD., Pharmaceuticals Division, England. ("Evion" brand pharmaceuticals). Selling Agents: I. C. I. (India) Private Ltd., Post Box No. 310, Bombay 1.

Manlove Allott & Co., Ltd., Nottingham. Manufacturers of Sterilisers, Disinfectors, Laundry Equipment, Oil Mill Machinery, etc. Sole Distributors: William Jacks & Co., Ltd., Hamilton House, Graham Road, Ballard Estate.

HYDRAULIC ENGINEERS

Glenfield & Kennedy, Ltd., Kilmarnock. Agents: Glenfield & Kennedy, Ltd., 198, Jamshedji Tata Road, Fort, Bombay 1.

HYDRAULIC JACKS

Epcot Ltd., Leeds 7, England. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Bombay.

HYDRAULIC MACHINERY

Glenfield & Kennedy, Ltd., Kilmarnock. Hydraulic Accumulators, Rams and Pumps. Agents: Glenfield & Kennedy, Ltd., 198, Jamshedji Tata Road, Fort, Bombay 1.

J. Blakeborough & Sons Ltd., London & Brighouse, England. Hydraulic Valves, Screening Plant, etc. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

John Blake Ltd., Accrington, Hydram Water Raisers. Agents: Richardson & Cruddas Ltd., Byculla, Bombay 8.

Leeds Engineering & Hydraulic Co., Ltd., Leeds. Makers of Hydraulic Machinery. Agents: Richardson & Cruddas, Ltd., Byculla, Bombay 8.

Theodore Bell & Co. Ltd., Kriens-Lucerne, Switzerland. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

INDUSTRIAL ADHESIVES

B. B., Chemical Company Ltd., Industrial Adhesives. "Bostik". Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

INDUSTRIAL EQUIPMENT (MANUFACTURERS)

TEDDINGTON INDUSTRIAL EQUIPMENT LTD., Windmill Road, Sanbury-on-Thames, Middlesex. Manufacturers of Industrial Control Equipment. Representatives: James Finlay & Co., Ltd., P.O. Box No. 73, Bombay 1.

INDUSTRIAL INSTRUMENTS

G. Luft Metallbarometer Fabrik, G.m.b.H. Germany. Representatives: Behram & Co., 1/1, Lakshmi Bldg., 22, Sir P. M. Road, Bombay 1.

HARRY W. DIETERT, INC., Detroit, U.S.A. Manufacturers of Sand Testing Equipment. Agents: Pioneer Equipment Co., Private Ltd., 139, Meadows Street, P. O. Box 1909, Bombay 1 (Phone: 251882). Also at 1, Mangoe Lane, Calcutta-1 (Phone: 231611) and 193, Mount Road, Madras 2. Grams: "PIOMETAL."

RIDSDALE & CO., U.K., Manufacturers of Sand Testing Equipment. Sole Agents: Pioneer Equipment Co., Private Ltd., 139, Meadows Street, P.O. Box 1909, Bombay 1. (Phone: 251882). Also at 1, Mangoe Lane, Calcutta-1 (Phone: 231611), and 193, Mount Road, Madras 2. Grams: "PIOMETAL."

STROHEIN & CO., Dusseldorf, Germany, for Analytical Instruments for Iron and Steel and other metallurgical industries. Sole Agents: Pioneer Equipment Co., Private Ltd., 139, Meadows Street, P. O. Box 1909, Bombay 1 (Phone: 251882). Also at 1, Mangoe Lane, Calcutta-1 (Phone: 231611) and 193, Mount Road, Madras-2. Grams: "PIOMETAL."

W. & L. E. Gurley Troy, New York, U.S.A. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

INDUSTRIAL INSTRUMENTS AND STEAM LINE ACCESSORIES

Drayton Regulator & Instrument Co. Ltd., West Drayton (Middlesex, England). Steam Traps & Steam Line Accessories, Instruments for Measuring, Regulating or Controlling Temperature, Pressure and Draught. Electrically and hydraulically operated valves, metal bellows. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

INDUSTRIAL PLANTS

Polysius G.m.b.H. Neubeckum, W. Germany. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

Polysius Limited, The Brackens, Ascot, Berks, England. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

Theodore Bell & Co. Ltd., Kriens-Lucerne, Switzerland. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

INDUSTRIAL TRUCKS

Douglas (Kingswood) Ltd., 50, Pall Mall, London. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

INHALER & ACCESSORIES

CYPRANE LTD., [England. Selling Agents: I.C.I. (India) Private Ltd., P.B. No. 310, Bombay 1.

INSULATING BOARD & MATERIAL

British Refrasil Co. Ltd., The, Stillington, Co., Durham, England; Lightweight Fibrous Silica, high temperature insulation material, Applications—Aeronautical Engineering, Chemical Engineering etc. where electrical insulations and thermal insulation problems are encountered; Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes St., Fort, Bombay.

Continental Diamond Fibre Company, Bridgeport, Pa., U.S.A. Agents: Hardcastle, Wand & Co. Private Ltd., Alice Buildings, Dr. Dadabhai Naoroji Road, Fort.

Diamond Fibre Co., Ltd., 59, Southward Street, London. Agents: Hardcastle, Wand & Co. Private Ltd., Alice Buildings, Dr. Dadabhai Naoroji Road, Fort.

Ioco Ltd., Anniesland, Glasgow. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER."

Mo. & Domsjo Trading Co., Ltd., 47, Piccadilly, London, W. 1. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

INSULATORS (HIGH TENSION)

Hoverken, Bromolla, Sweden. Manufacturers of Porcelain Insulators. Representatives: Asea Electric India Private Limited, Yafi Building, Goa Street, Ballard Estate.

INSURANCE COMPANIES

Alliance Assurance Co., Ltd., London. (Settlement of Marine Claims). Agents: The Anglo-Thal Corporation Ltd., Ewart House, Bruce Street.

Baloise Fire Insurance Co., Ltd., Basle (Inc. in Switzerland). Principal Agents: Volkart Brothers, Ballard Estate, Bombay.

British Law Insurance Co., Ltd., London (Settlement of Marine Claims). Agents: The Anglo-Thal Corporation Ltd., Ewart House, Bruce Street.

Helvetia Swiss Fire Insurance Co., Ltd., St. Gall (Inc. in Switzerland). Agents: Volkart Brothers, Ballard Estate, Bombay.

Insurance Company of North America (Inc. in Pennsylvania, U.S.A.). Agents: Volkart Brothers, Ballard Estate, Bombay.

London Assurance, London (Fire & Marine). Agents: The Anglo-Thal Corporation Ltd., Ewart House, Bruce Street.

Northern Assurance Co., Ltd., London & Aberdeen (Inc. in Great Britain). Agents: Volkart Brothers, Ballard Estate, Bombay.

Prudential Assurance Co., Ltd., Holborn Bars, London, E.C. 1. All classes of insurance. Agents: Gillanders Arbuthnot & Co., Ltd., 16, Queen's Road Estate, Bombay 1.

Sea Insurance Co., Ltd., Exchange Buildings, Liverpool 2. Marine Claims Settling. Agents: Gillanders Arbuthnot & Co. Ltd., 16, Queen's Road Estate, Bombay 1.

ION-EXCHANGE RESINS & EQUIPMENT

INDUSTRIELE MAATSCHAPPIJ ACTIVIT N. V., HOLLAND (For purification of liquids—Sugar, Glucose, Glycerine etc.). Sole Selling Agents in India: Industrial and Allied Chemicals, National House, 6, Tulloch Road, P.O. Box 466, Bombay 1.

IRON, STEEL & BRASS

Hallamshire Steel Co., Ltd., Hallamshire Works, Sheffield 3, England. Sole Agents: H. Choksi & Co., Ltd., 106/108, Meadows Street, Fort, Bombay.

Saville, J. J., & Co., Ltd., Triumph Steel Works, Sheffield. Mfrs. of High Speed Carbon & Alloy Tool Steels. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

W. T. Hawkins & Co., Huddersfield. Mfrs. of Iron Cement. Agents: Richardson & Cruddas Ltd., Byculla, Bombay 8.

IRRIGATION EQUIPMENT

Wright Rain Ltd., Ringwood, England. Sprinkler Irrigation Equipment. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

JUICE EXTRACTOR

National Die Casting Co., 200 Fifth Ave. New York, 10 N.Y., U.S.A. Manufacturers of "JUICE KING" Single Stroke Juice Extractors. Sole Agents in India: Jhaveri Bros. & Co. Private Ltd. (Established 1914), 345, Abdul Rehman Street, Opp. Crawford Market, Bombay 3. Grams: "GIFTS".

KITCHEN EQUIPMENT

Holmuth A. Jensen, Denmark. Products:—Mix Master Juicers. Agents for India: Gladwyn & Co., 251, Hornby Road, Fort.

LABORATORY CHEMICALS & REAGENTS

Fine Chemicals of Canada Ltd., 124, Pharmacy Avenue, Toronto 13, Ontario, Canada. Agents for Bombay State: R. K. Shapurji & Co., Prospect Chambers, 319, Dr. Dadabhai Naoroji Road, P. B. No. 1065, Bombay 1.

George T. Gurr Ltd., 136/138, New King's Road, London, S.W.6, England. Agents for Bombay State: R. K. Shapurji & Co., Prospect Chambers, 319, Dr. Dadabhai Naoroji Road, P.B. No. 1065, Bombay 1.

International Division Allied Chemical & Dye Corp., 40, Rector Street, New York 6; N. Y. Sole Agents for Bombay State: R. K. Shapurji & Co., Prospect Chambers, 319, Dr. Dadabhai Naoroji Road, P.B. No. 1065, Bombay 1.

LABORATORY EQUIPMENT

August Aauter, Ebingen, Germany. Balances for Research Laboratories and Industries. Sole Agents: Ghordandas Desai Private Ltd., Kermani Bldg., Sir P. M. Road, Bombay 1.

Chr. Beck & Sohne, K. G. Kassel, Germany. Manufacturers of Microscopes. Sole Agents for India: J. T. Jagtiani, National House, 6, Tulloch Road, Apollo Bunder, Bombay 1.

Difco Laboratories Inc., Michigan, U.S.A. Biological reagents and Culture media. Sole Agents: Ghordandas Desai Private Ltd., Kermani Bldg., Sir P. M. Road, Bombay 1.

General Biological Supply House Inc., Chicago, U.S.A., Turtore prepared biological products viz. Slides, preserved Specimens, Skeletons, Models etc. Sole Agents: Ghordandas Desai Private Ltd., Kermani Bldg., Sir P. M. Road, Bombay 1.

H. STRUERS CHEMISKE LABORATORIUM, Denmark. Manufacturers of METALLOGRAPHIC Polishing Equipments. Sole Agents: Pioneer Equipment Co. Private Ltd., 139, Meadow's Street, P.O. Box 1909, Bombay 1. Phone: 231611.

Isopad Limited, Barnet By-Pass, Boreham Wood, Herts, U.K. Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

James A. Jobling & Co., Ltd., Sunderland, England. Pyrex brand heat Resisting Laboratory Glassware. Sole Agents: Ghordandas Desai Private Ltd., Kermani Bldg., Sir P. M. Road, Bombay 1.

James Jaquet, Switzerland. Physiology Instruments and Teichometers. Sole Agents: Ghordandas Desai Private Ltd., Kermani Bldg., Sir P. M. Road, Bombay 1.

Metafiltration Co. Ltd., Hounslow, Middlesex. Metafilters for Laboratory and Industrial use. Agents: Roberts, McLean & Co., Ltd., Ilaco House, Sir P. Mehta Road. Precision Scientific Co., Chicago, U.S.A. Thermostatic Baths, Ovens, Incubators etc. and equipment for testing oils, Liquid Fuels etc. Sole Agents: Ghordandas Desai Private Ltd., Kermani Bldg., Sir P. M. Road, Bombay 1.

TINSLEY (INDUSTRIAL INSTRUMENTS) LTD., London. Manufacturers of "TINSLEY" Polarographs. Sole Agents: Pioneer Equipment Co., Private Ltd., 139, Meadows Street, P. O. Box 1909, Bombay 1 (Phone: 231662). Also at 1, Mango Lane, Calcutta-1 (Phone: 231611) and 193, Mount Road, Madras-2. Grams: "PIOMETAL."

Worcester Royal Porcelain Co., Ltd. Worcester, England. R.W.P. and Sillax brand Laboratory Porcelainware. Sole Agents: Ghordandas Desai Private Ltd., Kermani Bldg., Sir P. M. Road, Bombay 1.

LAMPS AND LANTERNS MANUFACTURERS

Aktiebolaget Optimus, Sweden. Sole Agents: Elliott Wand & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

I. C. I. PLASTICS DIVISION, England. ("GRINOTHEME" Parapex and Davico for lighting fittings). Selling Agents: I. C. I. (India) Private Ltd., Post Box No. 310, Bombay 1.

Tilley Lamp Co., Ltd., London. Patent Kerosene Floodlight Projectors. Agents: Roberts, McLean & Co., Ltd., Ilaco House, Sir Pirozshah Mehta Road.

LATCHES, LOCKS & SAFES

Cheney, C. W., & Son, Ltd., Factory Road, Hockley, Birmingham, 19. Agents: Soho House, Lohar Street, Bombay 2.

LAUNDRY EQUIPMENT

Thos. Bradford & Co., Ltd., Manchester. Laundry Machinery. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

LEATHER & SKINS

John Ormerod & Sons Ltd., England. Agents: Altex Private Ltd., 147, Mahatma Gandhi Road, Fort.

Thomas Evans & Sons Ltd., Sawston, Cambridge. Agents: Soho House, Lohar Street, Bombay 2.

LEATHER CLOTHS

Robert Pickles Ltd., Portsmouth Mill, Portsmouth, Near Todmorden. Agents: Soho House, Lohar Street, Bombay 2.

LEATHER GOODS MANUFACTURERS

Bridge of Weir Leather Co., Ltd., Bridge of Weir, Near Glasgow. "Warm-Sit" Leather for Upholstery. Agents: Hardcastle, Wand & Co., Private Ltd., Alice Buildings, Dr. Dadabhai Naoroji Road, Fort.

Houghton, H. F., & Co., Philadelphia. Agents: Hardcastle, Wand & Co., Private Ltd., Alice Buildings, Dr. Dadabhai Naoroji Road, Fort.

LIFE SAVING EQUIPMENT

R. F. D. Company Ltd., Catteshall Lane, Godalming, Surrey, England. Agents: E. W. Stevens & Co. Private Ltd., 4, Ballard Road, Bombay 1.

Schermuly Pistol Rocket Apparatus Ltd., 51, Coleman Street, London E. C. 2. Agents: E. W. Stevens & Co. Private Ltd., 4, Ballard Road, Bombay 1.

LIFTING EQUIPMENT

Richard C. Gibbins & Co., Ltd., Birmingham.
Agents: Killick, Nixon & Co., Private
Ltd., Killick House, Home Street, Fort.

**LIFTS, ELEVATORS, CONVEYORS
(ELECTRIC)**

Christopher & Sons Ltd., J. London (Hoists
& Winches). Sole Agents: Killick, Nixon
& Co., Private Ltd., Killick House,
Home Street, Fort.

GIMSON ENGLAND, Electric Passenger
& Goods Lifts. Sole Agents: Eastern
Engineers, 1, Bruce Street, Raja
Bahadur Compound, Fort, Bombay.
Phone: 281810.

Marryat & Scott, London. Electric
Passenger and Goods Lifts. Agents:
John Fleming & Co. Private Ltd., Bastion
Road, Fort, Bombay 1. Phone: 261153.

Rowland Frith & Co. Ltd., England. Pulley
Blocks, Mechanical & Hydraulic Lifting
& Traversing Jacks & Other Equipment.
Agents: Armstrong Smith Private Ltd.,
1, Sir P. M. Road, Bombay 1.

W. S. BARROW & SONS LTD., Glen-
cester, England, Manufacturers of
Screw Lifts, Elevators & Conveyors.
Agents: Gayle & Co., Jammabhoosi
Chambers, Fort Street, Bombay 1.
Phone: 253449. Grams: "IMPENG."

LINOLEUM

Taylors Floorcloth Co., Ltd., Newburgh,
Fife, Scotland. Sole Agents: Healy &
Gresham Ltd., 9, Forbes Street.

LITHOGRAPHERS

Waterlow & Sons Ltd., 25/27, St. Winchester
Street, London, E.C. 2. Protective Cheque
Specialists, Bank Notes, Bond and Stamp
Engravers. Agents: Gillanders Arbuthnot
& Co., Ltd., 16, Queen's Road Estate,
Bombay 1.

LOCOMOTIVE EQUIPMENT

Associated Locomotive Equipment Ltd.,
London. Agents: Guest, Keen, Williams,
Ltd., Wakefield House, Sprott Road,
Ballard Estate, Bombay 1.

WM. GRIFFITH & SONS LIMITED,
Saville Street East, Sheffield, 4 (Eng-
land). Laminated Springs. Repre-
sentatives: James Finlay & Co.,
Limited, P.O. Box No. 73, Bombay 1.

LOCOMOTIVES

Davey Paxman & Co., Ltd., Standard Iron
Works, Colchester. Diesel Engines for
Rail Traction in Locomotives and Rail-
cars. Sole Concessionaires: Greaves Cotton
& Co., Ltd., 1, Forbes Street, Fort,
Bombay.

G. Cesare Rauzi, Legnano, Italy. Sole
Agents: India Metal Agencies, India
House, Fort Street, Bombay 1.

**NORTH BRITISH LOCOMOTIVE CO.
LTD.**, 110, Farnington Street, Spring-
burn, Glasgow, N. Representatives:
James Finlay & Co., Limited, P.O.
Box No. 73, Bombay 1.

Buston & Hornsby Ltd., Lincoln. Narrow
& Metre Gauge Diesel Locomotives and
Broad Gauge Shunting Diesel Locomo-
tives. Sole Concessionaires: Greaves
Cotton & Co., Ltd., 1, Forbes Street, Fort,
Bombay.

**LUBRICATING OILS AND
GREASES**

Acheson, Colloids Ltd., London. "Colloidal
Graphite Products", "Oildag", "Aqua-
dag", etc. Agents: Hardcastle, Waud
& Co., Private Ltd., Alice Buildings,
Dr. Dadabhai Naoroji Road, Fort.

A. E. Westwood Ltd., England. Sole Agents:
Elliott Waud & Hill Private Ltd., 1-2,
Lakshmi Bldg., Sir P. M. Road, Bombay 1.

Edgar Vaughan & Co., Ltd., Birmingham.
Agents: Hardcastle, Waud & Co., Private
Ltd., Alice Buildings, Dr. Dadabhai
Naoroji Road, Fort.

Germ Lubricants Ltd., Salford, Manchester.
(Lubricating Oils and Greases). Sole
Concessionaires: Greaves Cotton & Co.,
Ltd., 1, Forbes Street, Fort, Bombay.

Houghton, E. F., & Co., Philadelphia.
Agents: Hardcastle, Waud & Co., Private
Ltd., Alice Buildings, Dr. Dadabhai
Naoroji Road, Fort.

Ocean Oil Co. (1948) Ltd., Marine Engine
Oils. Agents: Hardcastle, Waud & Co.,
Private Ltd., Alice Buildings, Dr.
Dadabhai Naoroji Road, Fort.

United Refining Co., Warren, Philadelphia,
U.S.A. Sole Agents for India: Bombay
Mercantile Corporation, 211-217, Nagdevi
Street, Bombay 3.

MACHINE TOOLS

A. A. Jones & Shipman Ltd., England.
Universal & Semi-Universal Grinding
Machines, Surface Grinders, Tool
& Cutter Grinders etc. Sole Distributors:
William Jacks & Co. Ltd., Bharat House,
Apollo Street, Fort, Bombay.

Adcock & Shipley Ltd., England. Universal,
Vertical and Horizontal Milling Machines
and Attachments. Sole Distributors:
William Jacks & Co. Ltd., Bharat House,
Apollo Street, Fort, Bombay.

Alfred J. Amster & Co., Switzerland.
Treating Machines for all materials,
Planimeters, Integrators, Current Meters,
Torsion and Drawbar Dynamometer and
Track Recording Cars for Railways.
Sole Distributors: Voltas Limited, Ballard
Estate, Bombay 1.

Anton Kirner, West Germany. Relief
Milling Machines for Milling Cutters.
Sole Distributors: Voltas Limited, Ballard
Estate, Bombay 1.

Armstrong Whitworth (Metal Industries)
Ltd., England. Rolls for Rolling Mills
and Tube Mills. Sole Distributors: William
Jacks & Co. Ltd., Bharat House, Apollo
Street, Fort, Bombay.

B. M. W. Maschinenfabrik, Germany. Single
Spindle Automatics, Gear Deburring
Machines, etc. Agents: Armstrong Smith
Private Ltd., 1, Sir P. M. Road, Bombay 1.

Boko, Bohner & Kohle, West Germany.
Universal High Speed Vertical Milling
Machines, Pattern Milling Machines,
Semi-Automatic Spinning Lathes. Sole
Distributors: Voltas Limited, Ballard
Estate, Bombay.

B. S. A. Tools Ltd., England. Single &
Multi-Spindle Automatic Screw Machines,
Centreless Grinding Machines, Multi-
Tool Lathes, etc. Sole Distributors:
William Jacks & Co. Ltd., Bharat House,
Apollo Street, Fort, Bombay.

Bretts Patent Lifter Co., Foleshill Works,
Coventry, England. Sole Agents: Healy
& Gresham, 9, Forbes Street, Fort.

C. & F. Fein, Germany. Portable Electric
Tools. Agents in India: Armstrong
Smith Private Ltd., 1, Sir P. M. Road,
Bombay 1.

Carl Hurth, West Germany. Tool Room
Milling Machines, Key-way and Slot
Milling Machines, Spline Shaft Milling
Machines, Gear Chamfering Machines,
Gear Speeders, Gear Shavers, Power
Presses with Epicyclic Gear Drives. Sole
Distributors: Voltas Limited, Ballard
Estate, Bombay 1.

Casati Ernesto & Figli (Caser), Italy.
Radial Drilling Machines. Sole Distri-
butors: Voltas Limited, Ballard Estate,
Bombay 1.

Churchill-Redman Ltd., Parkinson Lane,
Halifax. Sole Agents: Healy & Gresham
Ltd., 9, Forbes Street, Fort.

Cincinnati Milling Machines, Cincinnati,
Ohio, U.S.A. Sole Agents: Healy &
Gresham Ltd., 9, Forbes Street, Fort.

Cincinnati Milling Machines Ltd., Woodlands
Farm Road, Tyburn, Birmingham, Eng-
land. Sole Agents: Healy & Gresham
Ltd., 9, Forbes Street, Fort.

Coventry Gauge & Tool Co. Ltd., England.
Machine Tools: Jig Boring Machines, Tap
Grinding Machines, Thread Grinders, Gear
Grinders, Cylindrical Grinders, Broach
Sharpening Machines, Tread Milling Ma-
chines, etc. Measuring Instruments: Float-
ing Carriage Diameter Measuring Machines,
"Micro-Mag" Internal Micrometers,
Taper Measuring Machines, Pitch Measur-
ing Machines, etc. Gauges: Gap Gauges,
Caliper Gauges, Slip Gauges, etc. Sole
Distributors: William Jacks & Co. Ltd.,
Bharat House, Apollo Street, Fort,
Bombay.

Craven Bros. (Manchester) Ltd., England.
Railway Wheel Lathes, Axle Journal Re-
turning & Grinding Machines, and all
types of Railway Machine Tools. Heavy
Duty S.S. & S. O. Lathes, Gear Cutting
Machines, Horizontal Boring Machines,
etc. Sole Distributors: William Jacks &
Co. Ltd., Bharat House, Apollo Street,
Fort, Bombay.

D. Mitchell & Co. Ltd., England. General
Purpose High Speed S.S. & S.O. Lathes.
Sole Distributors: William Jacks & Co.
Ltd., Bharat House, Apollo Street, Fort,
Bombay.

Douglas Fraser & Sons Ltd., Scotland.
Double ended Facing and Centering
Machines. Sole Distributors: Voltas
Limited, Ballard Estate, Bombay 1.

E. H. Jones (M.T.) Ltd., England. British
Built "Kearney & Trecker" MILWAU-
KEE Milling Machines, Vertical and Hor-
izontal and Universal, Duplex, Simplex
Die Making Machines. Agents: Armstrong
Smith Private Ltd., 1, Sir P. M. Road,
Bombay 1.

Eitel K. G., West Germany. Hydraulic
Presses various sizes including Bench
Presses, Open Gap Presses, Drawing
Presses, Capacity 5 tons to 500 tons.
Sole Distributors: Voltas Limited, Ballard
Estate, Bombay 1.

Emil Sachs, Germany. Thicknessing Planner,
Heavy Duty Smooth Planing, Jointing and
Moulding Machines, Upright Chain Mortis-
ing machines, tenoning & Slotting Ma-
chines and other wood working machinery.
Agents: Armstrong Smith Private Ltd., 1,
Sir P. M. Road, Bombay 1.

Ernst Grob, Switzerland. Vertical Metal
Cutting Band Saws. Sole Distributors:
Voltas Limited, Ballard Estate, Bombay 1.

Ernst Grob, W. Germany. Thread Rolling
Machines. Special purpose Unit heads
and Machines; Sole Distributors: Voltas
Limited, Ballard Estate, Bombay 1.

F. B. Hatebur, Switzerland. Automatic
Cold Bolt Formers, Automatic Cold and
Hot Nut Formers. Sole Distributors:
Voltas Limited, Ballard Estate, Bombay 1.

F. J. Edwards Ltd., England. Complete
range of Sheet Metal Working Machinery.
Sole Distributors: William Jacks & Co.
Ltd., Bharat House, Apollo Street, Fort,
Bombay.

Fell, W. A., Ltd., Windermere, England.
Agents: Healy & Gresham Ltd., 9,
Forbes Street, Fort.

Finlay Engineering Co., England. Hydraulic
Cold Benders, Press Units, Rail & Grinder
Presses, Hand Operated Press, Plate Sec-
tion Presses, etc. Agents: Armstrong
Smith Private Ltd., 1, Sir P. M. Road,
Bombay 1.

Fischer, Karl Eugen, Germany. Press Brakes & Guillotine Shears. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Frederick Town & Sons Ltd., Halifax, England. Radial Drilling Machines, Vertical Drilling Machines, etc. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

George Fischer Ltd., Switzerland. Hydraulic Copying Lathes for Bar and Chucking Work. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Gildemeister & Co., West Germany. Turret Lathes, Multi-Spindle Bar and Chucking Automatics, Plano-Milling Machines. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Graham & Normanton Ltd., England. "GRANOE" High Speed S.S. & S.C. Lathes & Shaping Machines. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

GV Nibbler & Company, Sweden. Nibblers, Cutting and Framing Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

H. A. Waldrich G. m. b. H., Siegen, W. Germany. Heavy Planers, Lathes, Roll Grinders, Combined Planing and Milling Machines, Steel Ingot Cleaning Machines. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Hans-Biel, Germany. Metal Spraying and Sand Blasting Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Herman Hilbert, Ramsched Germany. Sole Agents: Tirathdas Kesharam, 130, Narayan Dhuru Street, Bombay 3.

Hermann Pfauter, West Germany. Gear Hobbing Machines, Spline Hobbing Machines, Worm Milling Machines. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Herminghausen Werke, G. m. b. H., West Germany. Precision Centreless Grinders and Polishers. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Hilgers Maschinenfabrik, Germany. Cold Tube Bending Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Ingenieurdienst G.m.b.H. Germany. Representatives: Behram & Co., 1/1, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

J. E. Batty & Co., Ltd., Burgess Hill, Sussex. Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Building, Sir P. M. Road, Bombay 1.

James Neill & Co., (Sheffield) Ltd., England. Representatives: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

Johann Streicher K. G., W. Germany. Automatic Nut Tapping Machines, Automatic Nut Counter-Sinking Machines, Bar Pointing Machines. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Jungner, Svenska Akkumulator Aktiebolaget, Sweden. Universal Tool & Cutter Grinder Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Kearney & Trecker Corp., U.S.A. "Milwaukee" Milling Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Kelghley Grinders (M.T.) Ltd. (Newall Group Sales Ltd.), England. Universal Grinders, Precision Cylindrical Grinders and Internal Production Grinders. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Kitchen & Wade Ltd., Halifax, England. Drilling Machines. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Kjellberg-Kberle, G. m. b. H., West Germany. Gas Cutting Machines various sizes, Portable Models to large gantry type profile cutting machines. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Malmmedie & Co., G.m.b.H., Germany. Wire Drawing Plant, Wire Nail Making Machines, Nut Presses, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Mannaioni Works, Italy. High Production Automatic Single Point Tool, Multicut, Screw Cutting Lathe. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Manurhin, France. Single Spindle Automatics 12 mm. to 60 mm. Bar Capacity, Measuring Instruments. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Murad Developments Ltd., England. High Speed Capstan Lathes, Double Ended 'Dustless' Grinders (the only Grinder in the world with built-in Dust Inhibitors). Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

National Acme Co., U. S. A. Multi-Spindle Bar Automatics. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

Ned Grossmann, Holland. Twist Drill Milling Machines, Second Operation Lathes, Marking Machines. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Newall Engineering Co. Ltd. (Newall Group Sales Ltd.), England. Jig Boring Machines, Angular Head Grinding Machines, Thread Grinding Machines, Cylindrical Grinding Machines, Internal Grinding Machines & Production Lapping Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Officine Meccaniche Ceruti, S. A., Italy. Horizontal Boring Machines. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Officine Rino Berardi, Italy. Single Spindle drilling Machines 14 to 70 mm. Capacity, Multi-Spindle Drilling Machines. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Optical Measuring Tools Ltd. (Newall Group Sales Ltd.), England. Projectors, Optical Rotary Table, Optical Rotary Projection Table, Optical Rotary Inclined Table, Toolmaker's Microscope, Thread Template Microscope, Vertical & Horizontal Ommeters. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Ormerod Shapers Ltd., Hebdon Bridge, Yorks, England. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Physik Instrument Huggenberger, Switzerland. Tensometers, Deflectometers, Deformeters, Clinometers, Portable Callibrators, Co-ordinometers, Vibrographs and Strain Gauges. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Pickles, John & Son (Engineers) Ltd., Hebdon Bridge, England. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Planers (Huddersfield) Ltd., England. Planing Machines. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

Prachoma Werke Kehren & Co., West Germany. Vertical and Horizontal Spindle Surface Grinders with Circular and Rectangular Tables in various sizes. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Remo-Werke, West Germany. Pipe and Bolt Threading Machines, Tube Cutting-Off Machines, Chaser Grinding Machines. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Rushworth & Co., England. Bar Cropping Machines, Punching & Shearing Machines, Guillotine Shearing Machines, Plate Bending & Straightening Rolls, Press Brakes. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

Safag, S. A., Switzerland. Automatic form cutter Milling Machines, Horizontal Spindle Rotary Surface Grinders, Automatic carbide tool grinding and lapping machines. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Samuel Denison & Son Ltd., England. Compression & Transverse Machine, Wire Twist & Tensile Testing Machines, Universal Machines, Fabric Testing Machines, Creep Testing Machines, Chain Testing Machines, etc. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

Schardt Machine G. m. b. H., W. Germany. Cylindrical internal, Universal, Camshaft, Jet Bore and Gear grinders. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Schless—A. G., West Germany. Single Column Vertical Turret Lathes, Double Column Vertical Boring Mills, Floor type Horizontal Boring and Milling Machines, Large Gear Hobbing Machines, Gear Shaping Machines, Crankshaft Milling and Crankpin Turning Machines, Multi-tool Automatic Lathes. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Scottish Machine Tool Corporation Ltd., Glasgow, U.K. Planers, Lathes with centre height over 20", Wheel Lathes Guillotine Shears, Press Brakes, Shipyard and Heavy Structural Shop Machinery, Power Presses 75 to 1,000 tons. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Sheffield Twist Drill & Steel Co., Ltd., England. Representatives: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

Societe Genevoise D'Instruments De Physique, Switzerland. Jig Boring Machines, Measuring Machines, Profile Projectors. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Standall Engineering Ltd., England. Forging Hammers, Air Compressor Plants. Agents: Balmer Lawrie & Co. Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER."

Stenners of Tiverton Ltd., England. Log Band Mills, Band Rack Saws, Band Resaws, Saw Doctoring Equipment, etc. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

Sykes, W. E., Ltd., Manor Works, Staines, Middlesex, England. Hobbing and Gear Cutting Machine. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Technolimpex, Budapest, Hungary. Lathes, Radial Drills, Milling Machine, Plate Shearing Machines, Pneumatic Power Hammer, Hydrocopying Shapers, Tapping Machines, Balancing Machines, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Tesa, S. A., Switzerland. Precision Measuring Instruments. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Theodor Gen-Kinger Nurtinsen, Germany. Sole Agents: Tirathdas Kesharam, 130, Narayan Dhuru Street, Bombay 3.

Thos. Firth & John Brown Ltd., Sheffield, England. Forged Steel Rolls for Rolling Mills. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

Tolimit Gauges, Ltd., England. Precision Thread and Plain Gauges. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Trumpf & Co., West Germany. Curve, Cutting out and Nibbling-Shears, Flexible Shaft Grinders. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Ulvreunda Verkstader Aktiebolag, Sweden. Internal Grinders. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Wanderer Werke, A. G., West Germany. Plain, Vertical and Universal Milling Machines, Thread Milling and Spindle Hobbing Machines, Bed types single and double head Milling Machines. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Weingarten, Germany. Plate Bending and Rounding Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

MACHINERY (BAG FILLING)

Sack Fillers Ltd., London. Sole Agents: Killick Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

MACHINERY (ELEC. & MECH.)

Christy & Norris Ltd., Chelmsford. Disintegrators, Hammer Mills, Screening Plant. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Clayton Manufacturing Co., El-Monte, California, U.S.A. Agents: Chandulal Mehta & Co. (Private) Ltd., 15, New Queen's Road, Bombay 4.

Clearing Machine Corporation, Chicago 38, Illinois, U.S.A. (Mechanical and Hydraulic Power presses & Press Brakes). Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Colcrete Ltd., London. Manufacturers of Colloidal Mixers and Colloidal Grouting. Sole Agents in India: Gammon India Private Ltd., Hamilton House, Ballard Estate.

Electric Construction Co. Ltd., 9, Kingsway, London. Electric Motors and Generators. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Fluidrive Engineering Co. Ltd., Isleworth (Middlesex, England). Hydraulic Couplings. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

Karl-Kack Maschinenbau, Germany. Representatives: Behram & Co., 1/1, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

Lister & Co., Ltd. (R. A.), Dursley, Glos., England. Petrol and Diesel Engines, Pumping, Generating Sets, Cream Separators and Dairy Equipment. Distributors: Voltas Limited, Ballard Estate, Bombay 1.

SIEMENS-SCHUKERTWERKE, A.G.
SIEMENS-HALKE, A.G. of Western Germany. Manufacturers of all types of Electrical Equipment, Steam & Hydro-Power Plants, Telephone & Telecommunication Equipment, Electrical precision machinery, Cables and Instruments, Electricity Meters, Water Meters and other Electric Equipment. Sole Representatives in India: Siemens Engineering & Manufacturing Co. of India Private Limited, 81/83, Veer Nariman Road, Bombay 1.

Stroj Export, Praha, Czechoslovakia. Agents for Western & Central India. India Metal Agencies, Post Box No. 1966, Bombay 1.

Stream-Line Filters Ltd., London, England. Filters for reclaiming used Engine Lubricating Oil, Transformer Oil Filters. Aviation Fuel Filters. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

Sulzer Brothers Ltd., Winterthur, Switzerland. Diesel Engines, Pumps. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Weston, Shipley & Weston Ltd., Leicester. "Kut-Out" Machines for Pipe Cutting. Agents: Richardson & Cruddas Ltd., Byculla, Bombay 8.

MACHINERY MANUFACTURERS

C. H. & E. Manufacturing Co., 3849, North Palmer Street, Milwaukee 12, Wis. (U.S.A.). Agents in India: Essential Engineering Co., Botawala Building, Elphinstone Circle, Fort.

Cement Gun Co., Ltd., London. Agents: John Fleming & Co., Private Ltd., Bastion Road, Fort, Bombay 1. Phone: 261153.

Reckermann Frasmachine (Germany). Agents for India: Essential Engineering Co., Botawala Building, Horniman Circle, Fort, Bombay.

Sturtevant Engineering Co., Ltd., England. Crushing, Grinding, Screening, Separating and Mixing Machinery including Laboratory Machinery. Contact: Ratana Morarji Private Limited, Prospect Chambers, 317/21, Dadabhai Naoroji Road, P.B. No. 1270, Bombay 1.

MACHINERY PRESSURE GAUGES

Eagle & Wrights (Gauges) Ltd., 87, Carver Street, Birmingham 1, England. Sole Agents for Bombay State: R. K. Shapurji & Co., Prospect Chambers, 319, Dr. D. Naoroji Road, Fort, P.B. No. 1065, Bombay 1.

MACHINERY (TEXTILE)

Armstrong Cork Co., Ltd., Kingsbury, London, N.W. 9. Agents: Roberts, McLean & Co., Ltd., Ilaco House, Sir Phirozshah Mehta Road.

Atwood Division Universal Winding Co., Hartford, U.S.A. Silk Machinery. Sole Representatives: W. H. Brady & Co., Ltd., 12-14, Veer Nariman Road, Fort, Bombay 1.

Cook & Co., Manchester, Ltd., Spinning and Doubling Travellers, Card Vacuum Stripping Plants, Spinning Specialities. Sole Representatives: W. H. Brady & Co., Ltd., 12-14, Veer Nariman Road, Fort, Bombay 1.

Daniel Foxwell & Sons, Ltd., Cheddle, Manchester. Cloth Rolling, Folding, Measuring and Lapping Machinery. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Dronfield Bros., Ltd., Oldham. Card Mounting and Grinding Machinery, Roller Covers Plant. Representatives: W. H. Brady & Co., Ltd., 12-14, Veer Nariman Road, Fort, Bombay 1.

Dronfield Bros. Ltd., Oldham. Card Grinding Equipment, Emery, Fillet Roller Covering Machinery. Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

ELLERWERKE MASCHINENFABRIK, Hamburg 33, Germany. Mfrs. of Hydro Extractors. Sole Importers: Popular (Imp.-Exp.) Trading Co., Javeri House, 110, Meadows Street, Bombay 1.

Gebruder Wicki, Zurich, Switzerland. Manufacturers of "KNITTAX" Hand Knitting Machine. Agents: Altex Private Ltd., 147, Mahatma Gandhi Road, Fort, Bombay 1.

Goodbrand & Co., Ltd., Stalybridge. Yarn & Cloth Testing Machines. Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Grob & Co. Ltd., Horgen, Switzerland. Wire and Flat Steel Heads. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Hindle Son & Co., Ltd., Blackburn. Electric Baling Presses. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Hodges, P. & Co., Ltd., Nottingham. High Speed Braiding and Twisting Machinery. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

John T. Hardaker Ltd., Bradford. Jacquards and Jacquard Sundries. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Longloose Engineering Co. Ltd., Leeds. Cheese, Cone & Beam Dyeing Plants. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Mather & Platt Ltd., Manchester. Dyeing, Bleaching, Printing and Finishing Machinery. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Mount Engineering (Sales) Company, Oldham, England. Makers of Improved Mechanical Warp Stop Motions, Firm Stripping Machines and Hydraulic Beam Trucks, etc. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

OERLIKON MACHINE TOOL WORKS, Zurich 50 Oerlikon, Switzerland. Mfrs. of Roller bearing inserts and Jockey pulleys. Sole Importers: Popular (Imp.-Exp.) Trading Co., Javeri House, 110, Meadows Street, Bombay 1.

Power House Components Ltd., Nottingham. Manufacturers of "WAYNE" patent Self-Winding Electric Cable Reels and Fuel Economy Specialities. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Pulrose Co., Ltd., England. Agents: Altex Private Ltd., 147, Mahatma Gandhi Road, Fort.

REINERS & FURST, M. Gladbach, Germany. Mfrs. of Spinning Rings, Ring Travellers & Automatic Winders Knotters. Sole Importers: Popular (Imp.-Exp.) Trading Co., Javeri House, 110, Meadows Street, Bombay 1.

RHEYDTER MASCHINEN & SPINDEL-FABRIK, Rheydter (Rhld), Germany. Mfrs. of Spinning Fly Frame Parts & Ball Bearing Tops Rollers of every description. Sole Importers: Popular (Imp.-Exp.) Trading Co., Javeri House, 110, Meadows Street, Bombay 1.

Rietor & Co., Ltd. (J.J.), Winterthur (Switzerland). Cotton Spinning Machinery. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Rotameter Mfg. Co. Ltd., Crydon, Surrey. Manufacturers of Flow Meters for all Gases and Liquids. Sole Representatives: W. H. Brady & Co. Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Ruti Machinery Works, Ruti (Zch.), Switzerland. Warping, Beaming and Sizing Machinery, Cotton & Silk Looms. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Ryden Mill Stores Ltd., England. Agents: Altex Private Ltd., 147, Mahatma Gandhi Road, Fort.

S. Dodd & Sons Ltd., England. Manufacturers of Hopper Blenders. Conversions of Single Process Blow Room. Suppliers of Melner's Thread Illuminators. Agents: Altex Private Ltd., 147, Mahatma Gandhi Road, Fort, Bombay.

S. Dodd & Sons Ltd., Oldham, England. Makers of Conversion Equipments, etc. Sole Representatives: W. H. Brady & Co. Ltd., 12/14, Veer Nariman Road, Fort, Bombay.

Schweitzer Ltd., Horgen, Switzerland. Automatic Pirn Winders and all Winding Machines. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Staubli Bros. & Co., Horgen, Switzerland. Dobbies. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Stone-Wallwork Ltd., London, S.W. 1, England. Suppliers of Ting Tuf Mark 1 Tufting Machine for making Rugs, Carpets, Mats, etc. Agents: Altex Private Ltd., 147, Mahatma Gandhi Road, Fort, Bombay 1.

T. W. Riley & Co., Ltd., Rochdale. Cloth Raising Machines. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Thos. Holt Ltd., Rochdale. High Speed & Automatic Winding & Warping Machines. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Vollenweider, Sam., Horgen, Switzerland. Shearing Machines. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Wm. Ryder Ltd., Bolton, England. Makers of Flyers, Spindles, Collars and Fluted Rollers, etc. Sole Representatives: W. H. Brady & Co. Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Wright Hargreaves Engineering Co., Ltd., Blackburn. Vacuum Card Stripping Equipment. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Zellweger Ltd., Uster, Switzerland. Warp Tying Machines. Distributors: Voltas Limited, Ballard Estate, Bombay 1.

MAINTENANCE EQUIPMENT (ELEC. & MECH.)

Martindale Electric Co. Limited, London and Cleveland, Ohio, U.S.A. Electrical and Mechanical Maintenance Equipment, Comminators and Blowers. Representatives: Asea Electric India, Private Limited, Yaffi Building, Goa Street, Ballard Estate.

MARINE DIESEL ENGINES

Bergius Co. Ltd., The, Glasgow, England. Agents: India Metal Agencies, India House, Fort, Street, Bombay 1.

MEASURING AND RECORDING INSTRUMENTS

Esterline—Angus Co., Inc. Indiana, U.S.A. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

H. W. Wallace & Co. Ltd., England. Hardness Meters, Dead Load Hardness Testers, Abrasion Testers, Rapid Plastimeters, Compression Set Apparatus, Flexton Testing Machines, Laboratory Ovens. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Hilger & Watts Ltd., England. Measuring Equipment of all types including Projectors, Enlargers, Optical Gauging & Inspection Equipment etc. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

L. M. Ericassons Matinstrument Aktiebolaget, Stockholm, Sweden. Manufacturers of Electricity Meters. Representatives: Asea Electric India, Private Limited, Yaffi Building, Goa Street, Ballard Estate.

M. S. S. Recording Co., Ltd., England. Dictaphones. Agents: Hind Co., 27, New Queen's Road, Bombay 4.

Pierre Roch, S.a.r.l. Switzerland. Representatives: Behram & Co., 1/1, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

Radiometer, Copenhagen, Denmark. Agents: Hindco, 27, New Queen's Road, Bombay 4.

Taylor of London Ltd., London, England. Water Meters, Waste & Cocks Fittings. Agents: John Fleming & Co. Private Ltd., Bastion Road, Fort, Bombay 1. Phone: 261153.

Thomas Ashworth & Co. Ltd., England. "Speedy" Moisture Testers. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

MECHANICAL EQUIPMENT

J. Collis & Sons, Ltd., London. Sole Agents: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

MECHANICAL HANDLING, CONVEYING & TRANSPORTING EQUIPMENT

Cranes (Dereham) Ltd., Furham, Norfolk, England. Trailers. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes St., Fort, Bombay.

Drake America Corp., New York, N.Y. Gasoline Powered Solid tired fork lift trucks. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes St., Fort, Bombay.

Moxey Conveyor & Transporter Co. Ltd., Birmingham, England. Complete Ore handling Plants, Bucket Elevators, Conveyors, Wagon Tipplers. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes St., Fort, Bombay.

Oliver International, S.A., Chicago, Illinois, U.S.A., Crawler Tractors, Fork Lift Trucks. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes St., Fort, Bombay.

Shinyei Kikito Kaish, Kobe, Japan. Fork Lift Trucks. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes St., Fort, Bombay.

METAL DOORS AND WINDOWS

Gibbons James, Ltd., St. John's Works, Wolverhampton, England. Sole Agents: Healey & Gresham Ltd., 9, Forbes Street, Fort.

METAL MANUFACTURERS

IMPERIAL CHEMICAL INDUSTRIES LTD., Metals Division, England and Yorkshire Imperial Metals Ltd., Leeds, (Wrought Non-ferrous Metals and Alloys). Selling Agents: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

Mond Nickel Co. Ltd., The, London. Nickel. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

MICROPHONES AND PICKUPS

American Microphone Co. Division of Elgin Pneumatic Inc., 600 Bellanca Avenue, Los Angeles 45, England. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

SHURE BROS, Inc., Evanston, Illinois, U.S.A. Manufacturers of the World famous Shure Microphones, Magnetic Tape Recording Heads, & Electronic Components. Represented in India by M. V. DADA, Pennsylvania Traders, Post Box 4044, Bombay 1, Telephone: 74444, Telegram: "PENUNION."

MICROSCOPES

CARL ZEISS JENA, East Germany.—Microscopes, Optical, Surveying, Precision measuring and Scientific Instruments. Sole Agents: Ghordandas Desai Private Ltd., Kermani Bldg., Sir Pherozshah Mehta Road, Bombay 1.

COOKE, TROUGHTON & SIMMS LTD., U.K. Manufacturers of Vickers Microscopes. Sole Agents: Pioneer Equipment Co. Private Ltd., P.O. Box 1909, Bombay 1 (Phone: 251882.)

MILL & GIN STORE SUPPLIERS

Frankland Bros., Blackburn. Loom Pickers and Shutters. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Haydock & Drake Ltd., Blackburn. Healds and Reeds. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

John Atkinson & Son (Sowerby Bridge) Ltd., England. Agents: Altex Private Ltd., 147, Mahatma Gandhi Road, Fort.

Joseph Sykes Brothers, Huddersfield. Card Clothing. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Kenyon & Son, Ltd. (James) Bury, Lancs. Textile Clothing and Filter Cloth. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Lupton Bros., Accrington. Loom Sundries. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Pulrose Co., Ltd., England. Agents: Altex Private Ltd., 147, Mahatma Gandhi Road, Fort.

Reallia Cots & Rollers Ltd., Marfleet, Hull, (England) (Cots, Aprons, Buffers, Loop Pickers, Twister Sleeves, Lug Straps, etc). Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Robert Hyde & Co., Ltd., Stalybridge. Machinery Cloths for Cotton Spinning & Weaving. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

William Kenyon & Son Ltd., Dukinfield, Cheshire. P.I. Cotton Driving Rope and Baling. Spindles, Tape and Twine. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

MILLING MACHINES

UNION WERKEUOMASCHINENFABRIK M. REUTHER K.O., Germany. Milling Machines. Agents: Gaytee & Company, Jammahoomi Chambers, Fort Street, Bombay 1. Phone: 263449. Grams: "IMPENG."

MINERAL WATERS, SQUASHES, CORDIALS, ETC.

E. I. Michel & Co., Ltd., 415, Oxford Street, London W.1. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

H. D. Davies & Co., Ltd., 98/100 Blahopagate, London E.C. 2. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

Societe Des Eaux Mineral Source Cachat Evian Les-Bains. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

MINERS LAMPS & EQUIPMENTS

Ceag Ltd., 58, Victoria Street, London, S.W. 1. Miner's Electric Safety Lamps. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Gram: "BALMER."

MINING MACHINERY & EQUIPMENT

Broom & Wade Ltd., High Wycombe, England. Portable and Stationary Air Compressors & Pneumatic Tools. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Exdeveco Corp., New York. Coal Mining Drills. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes St., Fort, Bombay.

Head, Wrightson Colliery Engineering Co., Ltd., England. Coal Preparation and Screening Plants. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Joy Manufacturing Co., Pittsburg 22, PA., U.S.A. & Joy Sullivan Ltd., London, England. Coal Mining Machinery, Auxiliary Mining Machinery, Air Compressors and Pneumatic Tools. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Kennametal Overseas Corp., Latrobe, U.S.A., Mining Bits and Rock Bits; Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes St., Fort, Bombay.

Olin Mathieson Ltd., 17-18, Old Bond Street, London W.1. Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

Sheepbridge Equipment Ltd., England. Tuggers, Haulages, Mine Cars, Vibrating Screens. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Ukside Engineering Co. Ltd., Newport, Mon. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

MOTOR ACCESSORIES

H. D. Jackson Co., Ltd., Summit Works, Walsall. Agents: Soho House, Lohar Street, Bombay 2.

MOTOR CYCLES MFRS.

Associated Motorcycles, Ltd., Plumstead Road, London, S.E. 18. Manufacturers of A.J.S. Motor Cycles. Sole Distributors: Dadajee Dhackjee & Co., Private Ltd., Sandhurst Bridge, Bombay 7.

MOTOR SCOOTERS

"Innocenti" Metallurgical and Mechanical General Co., Milan. Manufacturers of Lambretta Motor Scooters, 3-Wheeler Rikshaw and Dely. Van Chassis, Auto-Bykes. Sole Distributors: Dadajee Dhackjee & Co., Private Ltd., Sandhurst Bridge, Bombay 7.

NON-FERROUS METALS

Henry Wiggin & Co., Ltd., Birmingham. Monel and Nickel alloys. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

I.C.I. LTD., Metals Division, and Yorkshire Imperial Metals Ltd. Leeds. (Wrought Brass, Copper, Aluminium and other non-ferrous metals.) Selling Agents: I. C. I. (India) Private Ltd., Post Box No. 316, Bombay 1.

Manganese Bronze & Brass Co. Ltd., Ipswich. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

Mond Nickel Company Limited, The, London. Nickel, 'P' Nickel. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

Thomas Bolton & Sons Ltd., London, England. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

United Wire Works (Birmingham) Ltd., Birmingham. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

NUCLEAR RESEARCH INSTRUMENTS

Baird Atomic Inc., 33, University Road, Cambridge 38, Mass., U.S.A. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay.

NUT & BOLT MAKING MACHINES

Etchells David & Son Ltd., Bull Piece Works, Darlaston 8, Staffs, England. Sole Agents: Healy & Gresham Ltd., 9, Forbes Street, Fort.

OFFICE APPLIANCES AND EQUIPMENT

Addressograph-Multigraph Corporation, Cleveland, Ohio, U.S.A. Agents for India: The National Cash Register Co., Steelcrete House, Dinsha Wacha Road, Back Bay Reclamation, Bombay 1.

Addressograph-Multigraph Ltd., London, England. Agents for India: The National Cash Register Co., Steelcrete House, Dinsha Wacha Road, Back Bay Reclamation, Bombay 1.

Friden Calculating Machine Co., Inc., California (U.S.A.). Manufacturers of Friden Automatic Calculators. Sole Agents for India: The National Cash Register Co., Steelcrete House, Dinsha Wacha Road, Back Bay Reclamation, Bombay 1.

Kalamazoo Ltd., Kalamazoo Works, Northfield, Birmingham. Loose Leaf Equipment. Agents: Gillanders Arbuthnot & Co., Ltd., 16, Queen's Road Estate, Bombay 1.

UNIVERSAL POSTAL FRANKERS LTD., Frankpost Works, London N-16. Postal Franking and Stamp Cancellation Machines. Totometer-Counting & Impriating Machines. Sole Agents: Kilburn & Co. Private Ltd., P.O. Box 568, Bombay; Phone: 25-1908. Grams: "TASCONIUM".

OIL BURNERS

Wallend Slipway & Engineering Co., Ltd., Wallend-on-Tyne, England. Sole Agents: Healy & Gresham, Ltd., 9, Forbes Street.

OIL ENGINES

Blackstone & Co., Ltd., Dursley, England. Oil Engines Importers: Voltas Limited, Ballard Estate, Bombay 1.

Lister & Co., Ltd., B.A., Dursley, Gloucestershire, England. Vertical Diesel Engines, Petrol and Kerosene Engines, Lighting and Pumping Sets, Vertical Marine Diesel Engines. Importers: Voltas Limited, Ballard Estate, Bombay 1.

Ruston & Hornsby Ltd., Lincoln & Grantham, England. Horizontal and Vertical Diesel Engines. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

OIL MILLING MACHINERY

Fukoku Kogyo Co. Ltd., Osaka, Japan. Sole Agents: J. Khushaldas & Co., 77-79, Nagdevi Street, Bombay 3.

Rose Downs & Thompson Ltd., Hull. Maxoil & Duplex Oil Expellers. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

V. D. Anderson Co., Cleveland, Ohio, U.S.A. Oil expellers, Continuous Solvents extraction plants. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

OIL SEALS

CARL FREUDENBERG, West Germany. Mfrs. of Oil Seals. Sole Agents Messrs. B. Chowdhury & Co., Indian Globe Chambers (7th Floor), Fort Street, Fort, Bombay 1. Phone: 26-3479. Grams: "BIHUKHI."

OIL WELL EQUIPMENTS

National Supply Co., The, New York. Oil Well Drilling rigs & equipment, Hughes bits. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes St., Fort, Bombay.

ORE DRESSING & CHEMICAL EQUIPMENT

DENVER EQUIPMENT CO., Denver, U.S.A. Sole Agents: Pioneer Equipment Co., Private Ltd., 139, Meadows Street, P. O. Box 1969, Bombay 1 (Phone: 251682). Also at 1, Mangoe Lane, Calcutta 1. (Phone: 251611) and 193, Mount Road, Madras 2. Grams: "PIOMETAL."

OXYGEN CUTTING & PROFILING MACHINES

Hancock & Co., (Engineers) Ltd., Progress Way, Croydon, England. Sole Agents: Datsun Raviraj & Co., (Private) Ltd., 43, Tamarind Lane, Fort, Bombay. Phone: 39333.

PACKAGING MACHINERY

Packing Machinery (Peters) Ltd., Slough. Labelling Machine. Code & Printing Machines, Unscrambling Hoppers, Carton Erecting & closing Machines. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

PACKING & JOINT RINGS

Batey Metallic Packing Co., St. Peters, Newcastle-on-Tyne, England. Agents: Healy & Gresham, Ltd., 9, Forbes Street.

British Metallic Packing Co. (1933), Ltd., Britimp Works, Sidcup, Kent, England. Sole Agents: Healy & Gresham Ltd., 9, Forbes Street, Fort.

Walker, James & Co., Ltd., Woking, Surrey, England. 'Lion' Brand Packings and Jointings. Agents: Roberts, McLean & Co., Ltd., Ilaco House, Sir Phiroosah Mehta Road, Fort.

PADLOCKS & KITCHENWARE

Henry Squire & Sons Ltd., Near Willenhall, Staffs, New Invention. Agents: Soho House, Lohar Street, Bombay 2.

PAINTS, ENAMEL & VARNISHES

A. C. C. I. LTD., "DUCO" & "DULUX"
Paints and L.C.I. Pre-treatment processes. Agents: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

Docker Bros., Rotton Park Street, Birmingham 16. Agents: Gillanders Arbuthnot & Co., Ltd., 16, Queen's Road Estate, Bombay 1.

Francisco Nubiola, Avda. Jose Antonio, Barcelona. Agents for Ultramarine Blue: "Cock" Brand, Chemidye Trading Co. Private Ltd., 38, Cawasji Patel Street, Bombay 1.

Morrison Charles Composition Co., Ltd.
"Capetan" Brand Paints. Agents: Hardcastle, Waud & Co. Private Ltd., Alice Buildings, Dr. Dadabhoi Naoroji Road, Fort.

Pinchin Johnson & Co., 4, Carlton Gardens, London, S.W.1. Agents: Gillanders Arbuthnot & Co. Ltd., 16, Queen's Road Estate, Bombay 1.

Robt. Ingham Clark & Co., 4, Carlton Gardens, London, S.W.1. Agents: Gillanders Arbuthnot & Co. Ltd., 16, Queen's Road Estate, Bombay 1.

Wilkinson Heywood & Clark, 4, Carlton Gardens, London, S.W.1. Agents: Gillanders Arbuthnot & Co. Ltd., 16, Queen's Road Estate, Bombay 1.

PAPER BAGS FOR PACKAGING

Paper Sacks Ltd., London. Sole Agents: Killick Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

PAPER MFRS. & MERCHANTS

CHARLES MORGAN & CO., LTD.,
Paper Merchants, Gateway House, 1, Watling Street, London, E.C. 4. Agents: Wiggins, Teape & Alex. Pirie (Export) Ltd., Kamani Chambers, Nicol Road.

FINNISH PAPER & BOARD CONVERTERS' ASSOCIATION, Unioninkatu, 19, Helsinki, Finland. Representatives: James Finlay & Co., Limited, P.O. Box No. 73, Bombay 1.

FINNISH PAPER MILLS' ASSOCIATION, Department I, Helsinki, Finland. Newsprint. Representatives: James Finlay & Co., Ltd., P.O. Box No. 73, Bombay 1.

FINNISH PAPER MILLS' ASSOCIATION, Department II, Helsinki, Finland. Representatives: James Finlay & Co., Ltd., P.O. Box No. 73, Bombay 1.

LIEBIG PAPER EXPORT CO., A/S, Gothenburg, Sweden. Exclusive Agents for: Fiskeby Fabriks Aktiebolag, Sweden. A/S. Follum Fabriker, Norway. Union Paper Co., Ltd. A/S Norway. Representatives in India:—Scanfennia Paper Co., (Bombay) Private Ltd., 53/57, Lakshmi Bldgs., Sir Phirozshah Mehta Road, Bombay 1. Calcutta Office: Scanfennia Paper Co., (Calcutta) Private Ltd., 32-A Brabourne Road, Calcutta.

STORM & BULL LTD., Oslo, Norway. Agents: R. K. Gandhi & Co., Aga Khan Building, Dalal Street, Fort, Bombay. Phone: 255484. Grams: "BOARD PAPER".

PAPER MILLS

Backhouse & Coppock Ltd., "Perfection" Postal Wrappers. Agents: Hardcastle, Waud & Co. Private Ltd., Alice Buildings, Dr. Dadabhoi Naoroji Road, Fort.

Cincinnati Industries Inc., Cincinnati (Lookland), Ohio, U.S.A. Agents: Hardcastle, Waud & Co. Private Ltd., Alice Buildings, Dr. Dadabhoi Naoroji Road, Fort.

Drayton Paper Works Ltd., Talbot House, 9, Arundel Street, London W.C. 2. Agents: Hardcastle, Waud & Co., Pr. Ltd., Alice Bldg., Dr. D. Naoroji Road, Bombay 1.

F. Gardner Corbett Ltd., Napier House, 24-27, High Holborn, London W.C. 1. Agents: Hardcastle Waud & Co. Pr. Ltd., Alice Bldg., Dr. D. Naoroji Rd., Bombay 1.

Smith, Stone & Knight Ltd., Wrapping Papers, Corrugated Strawboards, etc. Agents: Hardcastle, Waud & Co. Private Ltd., Alice Buildings, Dr. Dadabhoi Naoroji Road, Fort.

Transparent Paper Ltd., Bury, Lancashire. "Diophane" Transparent Papers. Agents: Hardcastle, Waud & Co. Private Ltd., Alice Buildings, Dr. Dadabhoi Naoroji Road, Fort.

PAPER TRANSFERS

Tearne & Sons Ltd., All Saint's Road, Birmingham, England. Sole Agents: Heatly & Graham Ltd., 9, Forbes Street, Bombay.

PATENT GLAZING BARS

Pennycook Patent Glazing & Engineering Co., Ltd., 23, Bath Street, Glasgow C.2, Scotland. Sole Agents: Heatly & Graham, Ltd., 9, Forbes Street, Fort.

PERFUMERY

Antoine Chiris, S. A. Grasse, France. Agents: Anil Trading Co., 32, Princess Street, Bombay 2.

Dragoo-Holzminde, W. Germany. Agents: B. C. Patel & Co., 79, Princess Street, Bombay 2.

H. Raab & Co., Amsterdam, Holland. Agents: B. C. Patel & Co., 79, Princess Street, Bombay 2.

P. Robert Co., Grasse, France. Agents: B. C. Patel & Co., 79, Princess Street, Bombay 2.

Parfums Lucien Lelong, Ltd., Perfumes. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

PHARMACEUTICALS

Arnold Otto Meyer, Ballindamm 1-3, Post Box No. 689, Hamburg 1. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay.

Bigot, Scharfe & Co., Chemische Fabrik, G.M.B.H., Kirchenallee 25, Hamburg. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay.

Chemifa Chemische Fabrik Amsterdam N. V., Amsterdam—"X-Ray Contrast Mediums & Dental Anaesthetics." Agents: The Fairdeal Corporation (Private) Ltd., Lakshmi Building, Sir P. M. Road.

Chemische Vertriebs-Gesellschaft, m. b. h. Gereco, Frankfurt Am Main. "Aretus." Agents: Fairdeal Corporation (Private) Ltd., Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

CIBA Limited, Basle (Switzerland). Manufacturers of Pharmaceutical Specialities, etc. Sole Representatives for India: CIBA Pharma Private Limited, Royal Insurance Building, 14-J, Tata Road, Fort.

Commercial Solvents Corporation, New York 16, U.S.A., "Penicillin Preparations." Agents: Fairdeal Corporation (Private) Ltd., Lakshmi Building, Sir Phirozshah Mehta Road.

Conray Products Co., 129, Pearl Street, New York 5, N.Y. Fine Chemicals/Pharmaceuticals. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay 1.

C. S. R. CHEMICALS PTY. LTD., Australia (Ascorbic Acid Vitamin "C") Agents: I. C. I. (India) Private Ltd., P.B. No. 310, Bombay 1.

Curapharm C. V. Amsterdam—"Intravenous Solutions and Administration Sets". Agents: The Fairdeal Corporation (Private) Ltd., Lakshmi Building, Sir P. M. Road.

DEERY PRODUCTS LTD., New Zealand. (Lactose). Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

De Witt & Co., E. C., Ltd., London. "De Witt's Kidney and Bladder Pills." Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Ephasone and Company, 180, Piccadilly. "Ephasone" for Asthma, Bronchitis, etc. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay.

F. Hoffmann-La Roche & Co., Ltd., Basle (Switzerland). Manufacturers of Biochemicals, fine chemicals, alkaloids, Vitamins and "Roche" Pharmaceutical Specialities. Sole Distributors: Voltas Limited, Ballard Estate, Bombay.

G. D. Searle & Co., Ltd., High Wycombe, U.K. "Ethical Pharmaceuticals." Agents: Fairdeal Corporation (Private) Ltd., Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

Herts Pharmaceuticals Ltd., Pharmaceuticals. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Heyden Newport Chemical Corporation, 342, Madison Avenue, New York, 17, N. Y. Industrial, Fine & Pharmaceutical Chemicals. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort.

HINDUSTAN LEVER LTD., Glycerine. Agents: I.C.I. (India) Private Ltd., P.B. No. 310, Bombay 1.

Homburg A. G., Chemiewerk, Daimlerstrasse 25, Postfach 5125, Frankfurt/Main, Western Germany. Factory Representatives: German Remedies & Trading Co. Private Ltd., Laxmi Building, Ballard Estate, Bombay. G.P.O. Box No. 1945, Bombay 1.

Honeywill Atlas Ltd., Devonshire House, Mayfair Place, Piccadilly, London W. 1, England. Sole Agents for India for Surface Active Agents: Chemidye Trading Co. Private Ltd., 38, Cawasji Patel Street, Bombay 1.

Hugo Stinnes G.m.b.H., Mulheim (Ruhr) Ruhrstrasse 1, Germany. Products: Phthalic Anhydride, Maleic Anhydride and Fumaric Acid. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay.

IMPERIAL CHEMICAL INDUSTRIES LTD., Pharmaceuticals Division, England. Selling Agents: I. C. I. (India) Private Ltd., Post Box No. 310, Bombay 1.

Inabata & Co. Ltd., 40 2-Chome, Doshomachi, Higashiku, Osaka, Japan. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay.

International Division, Allied Chemical Corp., 40, Rector Street, New York 6, N.Y. Sole Agents for Bombay State: R. K. Shapurji & Co., Prospect Chambers, 319, Dr. Dadabhai Naoroji Road, Fort, Post Box No. 1065, Bombay 1.

I.C.I. LTD., PHARMACEUTICALS DIVISION, Manchester, England. ("CAVLON" Brand Pharmaceuticals.) Selling Agents: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

Istituto Chemioterapico Italiano, Milano—Via Crocefisso No. 12, Italy. Products: Sulfa drugs and Vitamins. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay.

Johnson & Johnson (Gt. Britain) Ltd., Slough, U.K. "Personal Products." Agents: Fairdeal Corporation (Private) Ltd., Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

Kemball, Bishop & Co. Ltd., Crown Chemical Works, Bromley-by-Bow, London, E. 3. Agents: Gillanders Arbuthnot & Co. Ltd., 16, Queen's Road Estate, Bombay 1.

M. & B., Dietetic Laboratories Inc., Columbus, 16, U.S.A. "Simlas." Infant Milk Food. Agents: Fairdeal Corporation (Private) Ltd., Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

Mead Johnson & Co., U.S.A., "Meads" Vitamin Preparations etc., Sole Agents: J.L. Morrison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Merck & Sharp & Dohme International, New York. Pharmaceutical Specialities and Biologicals. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Munton & Fison Ltd., Stowmarket, Suffolk, England. Malt Extract. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay 1.

Newton Chambers & Co., Ltd., Thorncliffe Works, Sheffield. Isal Germicide, etc. Agents: Gillanders Arbuthnot & Co., Ltd., 16, Queen's Road Estate, Bombay 1.

A. & G. NICHOLAS LTD., England. (Pharmaceuticals). Selling Agents: I.C.I. (India) Private Ltd., P. B. No. 310, Bombay 1.

Nordmark Werke G.M.B.H., Adolphstrasse 32, Hamburg 21, Western Germany. Factory Representatives: German Remedies & Trading Co. Private Ltd., Laxmi Building, Ballard Estate, Bombay. G.P.O. Box No. 1945, Bombay 1.

Optrex (Overseas) Ltd., "Optrex" Eye Lotion and "Optone" Eye Drops. Sole Agents: J. L. Morrison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Oxo Ltd., London. Culture Media & Laboratory Preparations. Agents: Anglo-Thal Corporation Ltd., Ewart House, Bruce Street, Fort.

Pearson & Co., Ltd., E. T., "Lactagol," "Tessol," "Rhinitol," "Todinocol," etc. Sole Agents: J. L. Morrison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Pharmaceutical Manufacturing Co., Ltd., "Novutox," "Xylotox," "Surfacaine." Sole Agents: J. L. Morrison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Riedel de Haen A. G., (Pharmaceutical Department), (20a.) Seelze, b. Hannover, Western Germany. Factory Representatives: German Remedies & Trading Co. Private Ltd., Laxmi Building, Ballard Estate, Bombay. G.P.O. Box No. 1945, Bombay 1.

Riker Laboratories Ltd., Patent and Proprietary Medicines. Sole Agents: J. L. Morrison, Son & Jones (India), Private Ltd., Contractor Building, Nicol Road, Estate, Bombay 1.

R. Lienau & Cie., 22 (a) Uerdingen A. R.H., Germany (West). Sole Agents for India: R. K. Shapurji & Co., Prospect Chambers, 319, Dr. D. Naorji Road, P.B. No. 1065, Bombay 1.

Schering A. G., Mullerstrasse, 170-172, Berlin N 65, Western Germany. Sole Importers & Distributors: German Remedies & Trading Co. Private Ltd., Laxmi Building, Ballard Estate, G. P. O. Box No. 1945, Bombay 1.

SCOTT & BOWNE LTD. (Scotts Emulsion, Ballville.) Selling Agents: I. C. I. (India) Private Ltd., Post Box No. 310, Bombay 1.

Scott & Turner Ltd., Newcastle-on-Tyne. "Andrews Liver Salt." Sole Agents: J. L. Morrison, Son & Jones (India), Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Societa Italiana Medicinali Scandicci Firenze (Scandicci), Italy, via Molin Vuovo-Products: Choline Salts. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay.

Spencer & Co., Ltd., Urdonal. Sole Agents: J. L. Morrison Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Spartan Faraday Inc., Hoboken, U.S.A. Electro Medical Apparatus. Agents: Fairdeal Corporation (Private) Ltd., Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

Van Baerle & Co. Ltd., Munchenstein/Basle, Switzerland. Products: Crystalline Phosphoric Acid, Potassium Silicate. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay.

VEB Berlin-Chemie, Berlin/Aldershof Glienicke Weg 181. Products: Chloramphenicol, Santonin Chloroform. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay.

WHEAT PRODUCTS LTD., London. (Lactose). Selling Agents: I. C. I. (India) Private Ltd., P.B. No. 310, Bombay 1.

Wulff & Co., A., M.B.H. (Sanatogen-Werke Bauer & Cie, and Fabrik Pharmazeutischer Praeparate Johann A. Wulff) Graf-Adolf-str., 18 (22a.) Dusseldorf, Western Germany. Factory Representatives: German Remedies and Trading Co., Private Ltd., Laxmi Building, Ballard Estate, Bombay 1. G.P.O. Box No. 1945, Bombay 1.

Yodogawa Pharmaceutical Co., Ltd., 136, Higashi, 2-Chome, Nozato, Nishiyodogawa-Ku, Osaka, Japan. Products: Folic Acid U.S.P. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay.

PHARMACEUTICAL MACHINERY & EQUIPMENT

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Areco Aktiebolag, Stockholm (Sweden). Tube Filling, Folding & Crimping Machine, Jar Filling Machine. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Arthur Colton & Co., New York 16, N. Y. Complete range of Tablet Machinery, Filling, Closing, Crimping Machines, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Autopak Ltd., Birmingham, England. Ampoule Cutting, Washing, Filling & Sealing Machines, Powder Ampoule Filling Machine, Vial Feeding, Filling & Capping Machines, Protamin Insulin Double Headed Filling machine, Powder, Tea Powder, Flour, Cereal, Soap Flakes Weighing & Filling Machines, Weighing, Pressing & Tin Feeding Machines, Tube Filling, Feeding and Corking Machine, Cap Spinning Unit for Vials, Screw Capping Machine with/without filling unit, Cellophane wrapping machine, Automatic film wrapping machine, Anacin type Tablet Packing Machine. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Banister Street Works Ltd., London N.1. Tube Filling, Folding & Crimping Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Blomqvists Verkstadsaktiebolag, Sweden. Mixers and Dough Knaders. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

D. Trapow & Co. (Clifford Packaging Machinery Ltd.), England. NEWMAN Fully and Semi-Automatic Labelling Machines for bottles, jars, ampoules, vials, torch batteries, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Greif Werke, Germany. Weighing and Filling Machine for flour, sugar, etc. Agents: Armstrong Smith Private Ltd., Sir P. M. Road, Bombay 1.

James Cruickshank Ltd., Scotland. 'Huaky', 'Consul' & 'Envoy' Multispeed Mixers, Vortex Dough Knader, Vegetable Preparer, Coffee Grinder, Meat Mincer, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

J. G. Jackson & Crockett Ltd., England. Granulators for Dry & Wet Masses. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

MANESTY MACHINES LTD., Liverpool, 19. Pharmaceutical & Tablet making Machines, Distilled Water Plants, etc. Sole Agents: Kilburn & Co., Private Ltd., P.O. Box 565, Bombay. Phone: 25-1906. Grams: "TASCONIUM."

Ormerod Engineers Ltd., England. Homogenisers for Pharmaceutical, Textile, Jute, Foodstuffs, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

William Gardner & Sons (Gloucester) Ltd., England. Sifters & Mixers, Crushers, Grinders and Ball Mills, Essence Sprayer, Mixer. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

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British Steel Piling Co., Ltd., Pile Driving Equipment, Steel Sheet Piling and Piles. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

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Staveley Iron & Chemical Co. Ltd., Chesterfield, England. C. I. Pipes and Specials. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Bombay.

Tom Carrington & Co., Ltd., England.
Sole Agents: Elliott Waud & Hill Private
Ltd., 1-2 Lakshmi Bldg., Sir P. M. Road,
Bombay 1.

YORKSHIRE IMPERIAL METALS LTD.,
Leeds. Selling Agents: I.C.I. (India)
Private Ltd., Post Box No. 310,
Bombay.

PLASTIC MANUFACTURERS

American Moulding Powder & Chemical
Corporation, 703, Bedford Avenue,
Brooklyn 6, N. Y. Products—Polystyrene
Moulding Powder, Cellulose Acetate
Butyrate, "Master" Colour concentrates
"Kromoplast" Dry Colorants. Distrib-
utors: F. Bock & Co., Shale Building,
Bank Street, Fort.

CIBA (A.R.L.) LTD., Duxford,
Cambridge (England). Manufacturers of
Synthetic Resin Adhesives for
Plywood, Veneering, Furniture and
Metal bonding. Sole Suppliers in
India: Ciba Dyes Private Limited,
Royal Insurance Building, Jamshedji
Tata Road, Churchgate Reclamation,
Bombay 1. Phones: 37184-87. Grams:
"CIBA." Post Box No. 479. Codes
used: Universal Trade and Bentley's
Second Phrase.

CIBA Limited, Basle (Switzerland).
Manufacturers of Urea Formaldehyde
and Melamine Formaldehyde Mould-
ing Powders, Surface Coating Resins,
Casting and Laminating Resins. Sole
Suppliers in India: Ciba Dyes Private
Ltd., Royal Insurance Building,
Jamshedji Tata Road, Churchgate
Reclamation, Bombay 1. Phone
Nos.: 37184-87. Grams: "CIBA." Post
Box No. 479. Codes used: Universal
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HOLOPLAST LIMITED, England. (Plastic
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blocks & rods; "Welvic" & "Corvic"
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pounds; "Diakon" Injection Moulding
Powder "Mouldrite" P.F., U.F. &
W.F. Moulding Powders "Darvic"
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I. C. I. LTD., Plastics Division, England,
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Rods, Tubes, etc. "ALKATHENE".
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THENE", Nylon Monofilaments
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Moulding Powders, P.V.C. Moulding
Powders and "Darvic Rigid" P.V.C.
Sheets). Selling Agents: I.C.I. (India)
Private Ltd., Post Box No. 310,
Bombay 1.

I.C.I. (India) LTD., Calcutta. "Alka-
thene" Pipe & Film. Sales Office:
I.C.I. (India) Private Ltd., P.O. Box
No. 310, Bombay 1.

LUSTRE FIBRES LTD., Coventry
("DEXEL", Cellulose Acetate
Moulding Powder). Selling Agents in
India: Imperial Chemical Industries
(India) Private Ltd., P. O. Box No. 310,
Bombay 1.

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Baker Platinum, 52, High Holborn, London,
W.C.1. Manufacturers of Jewellery Plat-
inum and Palladium, Precious Metal Alloys
and Compounds, Spinnerettes, Thermo-
couples Wire, Laboratoryware, Gauzes,

Catalysts, Contacts Pen points, etc. Sole
Agents: Malgham Bros., 26, Old Custom
House Road, Fort, Bombay 1. Grams:
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A.C.C.I. LTD., "DUCO" Wax Polish
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I.C.I. (India) Private Ltd., Post Box
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Goddard, J., & Sons, Ltd. Goddard's Plate
Powder, Liquid Polish, Furniture Cream,
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Son & Jones (India) Private Ltd., Con-
tractor Building, Nicol Road, Ballard
Estate, Bombay 1.

Ronuk, Ltd., Household Polishes. Sole
Agents: J. L. Morison, Son & Jones
(India) Private Ltd., Contractor Building,
Nicol Road, Ballard Estate, Bombay 1.

W. Canning & Co., Ltd., Birmingham,
England. Agents and Chief Distributors:
S. Mitra & Co., 187, Dr. Dadabhai Naoroji
Road, Bombay 1. Grams: "Miludeshi."

POTTERIES

John Aynsley & Sons Ltd., Stoke. Manufac-
turers of China Tableware. Agents: A.
H. Shah & Co. Private Ltd., Nanabhai
Mansion, Sir Phirozshah Mehta Road,
Fort, Bombay.

Johnson Brothers (Hanley) Ltd., Stoke-on-
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Tableware. Agents: A. H. Shah & Co.
Private Ltd., Nanabhai Mansion, Sir
Phirozshah Mehta Road, Fort, Bombay.

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Holdern, Mason & Edwards Ltd., Pye
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Forbes Street, Bombay.

POWER TRANSMISSION EQUIPMENT

Engrenages Citron Limited, Paris, France.
Spur, Bevel and Cylindro-Conical Gears
and Flexible Couplings. Contact: Ratana
Moraji Private Limited, Prospect Cham-
bers, 317/21, Dr. Dadabhai Naoroji Road,
P.B. No. 1270, Bombay 1.

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Carl Zeiss Jena, East Germany. Sole Agents:
Ghordandas Desai Private Ltd., Kermani
Bldg., Sir P. M. Road, Bombay 1.

J. E. Batty & Co. Ltd., Burgess Hill, Sussex.
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Sir P. M. Road, Bombay 1.

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Ronson Products Ltd., London. Cigarette
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Fry's Metal Foundry Ltd., Tandem Works,
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Fishburn Printing Ink Co. Ltd., England.
Sole Agents: Indo-Europa Trading Co.,
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August Fomm Maschinenfabrik, Germany.
Sole Agents: Indo-Europa Trading Co.,
9, Dalal Street, Fort, Bombay.

Cundall Folding Machine Co. Ltd., England.
Sole Agents: Indo-Europa Trading Co.,
9, Dalal Street, Fort, Bombay.

Kustermann & Comp., Germany. Sole
Agents: Indo-Europa Trading Co., 9,
Dalal Street, Fort, Bombay.

Prakma Maschinenfabrik G.m.b.H., Ger-
many. Sole Agents: Indo-Europa Trading
Co., 9, Dalal Street, Fort, Bombay.

Reiss & Schirmer, Germany. Sole Agents:
Indo-Europa Trading Co., 9, Dalal Street,
Fort, Bombay.

VEB Buchbindereimaschinenwerk, Leipzig,
Germany. Sole Agents: Indo-Europa
Trading Co., 9, Dalal Street, Fort, Bombay.

VEB Druckmaschinenwerk Universal, Ger-
many. Sole Agents: Indo-Europa Trading
Co., 9, Dalal Street, Fort, Bombay.

VEB Druckmaschinenwerk Victoria,
Germany. Sole Agents: Indo-Europa
Trading Co., 9, Dalal Street, Fort,
Bombay.

VEB Druckautomatenwerk, Germany. Sole
Agents: Indo-Europa Trading Co., 9,
Dalal Street, Fort, Bombay.

VEB Optima-Fabrik Graphischer Maschinen,
Germany. Sole Agents: Indo-Europa
Trading Co., 9, Dalal Street, Fort,
Bombay.

PRINTING PRESS MACHINERY MATERIAL

Baptist Bacher, Germany. Sole Agents:
Indo-Europa Trading Co., 9, Dalal Street,
Fort, Bombay.

Matern-un Presspanwerke, Thalheim VEB,
Germany. Sole Agents: Indo-Europa
Trading Co., 9, Dalal Street, Fort, Bombay.

Max Nitasche & Co., A. G., Germany. Sole
Agents: Indo-Europa Trading Co., 9,
Dalal Street, Fort, Bombay.

Sauven Perforating Machine Co., England.
Perforating Machines. Agents: Armstrong
Smith Private Ltd., 1, Sir P. M. Road,
Bombay 1.

PROVISION MERCHANTS

Canada Packers Ltd., Toronto. Sole Dis-
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Building, Forjett Street, Bombay 28.

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Byron Jackson Co., Los Angeles,
California. Deep Well Turbine Pumps,
Vertical Spindle and Horizontal Spindle
Centrifugal pumps. Sole Concessionaires:
Greaves Cotton & Co., Ltd., 1, Forbes
Street, Fort, Bombay.

PUMPS & PUMPING MACHINERY

Auto Diesels Ltd. (England). Agents
in India: Essential Engineering Co.,
Botawala Building, Horniman Circle,
Fort, Bombay.

Benton & Stone Ltd., Birmingham. Patent Hyject Foot Pumps. Agents: Richardson & Cruddas, Ltd., Byculla, Bombay 8.

British La Bour Pump Co., Ltd., Nibbete Works, London, N.7. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

C. H. & E. Manufacturing Co., 3849, North Palmer Street, Milwaukee 12, Wis. (U.S.A.). Agents for India: Essential Engineering Co., Botawala Building, Elphinstone Circle, Fort, Bombay.

Charles S. Madan & Co. Ltd., Altrincham, England. Compressed Air-operated Testing Pumps, Hydraulic Pressure Pumps, Grease and Viscous Fluid Pumps. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

Glenfield & Kennedy, Ltd., Kilmarnock. Hydraulic Ram Pumps. Agents: Glenfield & Kennedy, Ltd., 198, Jamshedji Tata Road, Fort, Bombay 1.

Gwynnes Pumps Ltd., Lincoln. Centrifugal Pumps. Sole Agents: Marshall, Sons & Co., (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Hayward Tyler & Co., Luton. Boiler Feed Pumps. Sole Agents: Marshall, Sons & Co., (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

J. Hartlage, Osnabruck, W. Germany. Agents: India Metal Agencies, Post Box No. 1966, Bombay 1.

Tecalemit Limited, Brentford, U.K. Mfrs. of High Pressure Grease Pumps & Lubricating Units. Agents: Tecalemit (India) Ltd., 9, Forbes Street, Fort, Bombay.

Worthington-Corporation, Harrison, N.J., U.S.A. Pumping Machinery and Air Compressors for all applications. Sole Distributors: William Jacks & Co., Ltd., Bharat House, Apollo Street, Fort, Bombay.

Worthington Simpson Ltd., Newark-On-Trent, England. Pumping Machinery of all descriptions and Air Compressors. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

PYROMETERS

Foster Instrument Co. Ltd., England. Manufacturers of Pyrometers. Sole Agents & Stockists: Indian Furnace Co. Private Ltd., Lotus Cinema Building, Hornby Vellard, Bombay 18.

QUARRYING EQUIPMENT

Goodwin Baraby & Co. Ltd., Leicester. Stone-breakers & Crushing Plants, Road, Quarry, Gravel and Construction Plant. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1 Forbes Street, Fort, Bombay.

RADIOS & RADIOGRAMS

Telefunken G.m.b.H. Gottinger, Chaussee, 76, Hanover, W. Germany. Agents: Hindco, 27, New Queen's Road, Bombay 4.

RAIL CARS AND TROLLEYS

Drewry Car Co., Ltd., London. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

RAIL JOINT SHIMS

D. WICKHAM & CO., LTD., Ware, Hertfordshire, England. Manufacturers of Railway Cars and Equipment. Representatives: James Finlay & Co., Ltd., P.O. Box No. 73, Bombay 1.

Womham Incorporated, 18, Victoria Street, London, S.W.1. Rail Joint Shims. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

RAILWAY ENGINEERS

Associated Locomotive Equipment Ltd., London. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

P. & M. Co. (England), Ltd., London. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

RAILWAY EQUIPMENT

D. WICKHAM & CO., LTD., Ware, Hertfordshire, England. Manufacturers of Railway Cars and Equipment. Representatives: James Finlay & Co. Ltd., P.O. Box No. 73, Bombay 1.

English Steel Spring Corporation Ltd., Sheffield. Springs, Forgings and Railway Wagon Accessories. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

English Steel Forge & Engineering Corp., Ltd., Sheffield. Springs, Forgings and Railway Wagon Accessories. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

English Steel Casting Corp. Ltd., Sheffield; Springs, Forgings and Railway Wagon Accessories; Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

MATHE EQUIPMENT LIMITED, 78, Buckingham Gate, Westminster, London, S. W. 1 (England). Representatives: James Finlay & Co., Limited, P.O. Box No. 73, Bombay 1.

Owen & Dyson Ltd., Rotherham, England. Wheels and axles for locomotives. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort, Bombay.

PRESSED STEEL CO., LTD., Cowley, Oxford, England. Representatives: James Finlay & Co., Ltd., P.O. Box No. 73, Bombay 1.

S. A. D. Ateliers de la Dyle, Louvain, Belgium. Agents: Hardcastle Waud & Co., Private Ltd., Alice Building, Dr. Dadaboy Naoroji Road, Fort.

S. A. Usines Emile Henricot, Court, Saint Etienne, Belgium. Agents: Hardcastle Waud & Co., Private Ltd., Alice Building, Dr. Dadaboy Naoroji Road, Fort.

Steel, Peech & Tozer, Sheffield, England. Locomotive, Carriage and Wagon Tyres. Wheels, Axles and Laminated Springs. Disc Wheel Centres, Crank Axles and Forgings. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

Wm. Beardmore & Co. Ltd., Glasgow. Railway Wheels and Axles. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

Workington Iron & Steel Co., Workington, England. Steel Rails, Fish plates, Steel Sleepers and Fastenings. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

RAILWAY EQUIPMENT & SANITARY FITTINGS

Levick John Ltd., Birmingham, England. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

RAZOR BLADE MFRS.

Ever-Ready Razor Products Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

RECORDING INSTRUMENTS

British Pitometer Co., Ltd., London. Indicators and Recorders for Water, Sewage, Oil and other Fluids. Agents: Glenfield & Kennedy, Ltd., 198, Jamshedji Tata Road, Fort, Bombay 1.

Glenfield & Kennedy, Ltd., Kilmarnock. Water Level Indicators and Recorders. Agents: Glenfield & Kennedy, Ltd., 198, Jamshedji Tata Road, Fort, Bombay 1.

PTOWERK, G.m.b.H. Germany, for Temperature Recording Instruments, Pyrometric indicators, etc. Sole Agents: Pioneer Equipment Co. Private Ltd., 139, Meadows Street, P.O. Box 1909, Bombay 1. (Phone: 251882.) Also at 1, Mangoe Lane, Calcutta 1. (Phone: 231811) and 193, Mount Road, Madras 2. Grams: "PIOMETAL."

REDUCTION GEARS

Turbine Gears Ltd., England. Gears and Gear Units. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

REFLECTIVE SHEETINGS

Minnesota Mining and Mfg. Co., Ltd., Birmingham. Agents: Gillanders Arbuthnot & Co., Ltd., 16, Queen's Road Estate, Bombay 1.

REFRACTORIES

General Refractories Ltd., Genefax House, Sheffield 10, Great Britain. Sole Agents: J. D. Jones & Co. (Bombay) Private Ltd., Rustom Building, Veer Nariman Road, Fort, Bombay.

REFRACTORY CEMENTS

Furnace Linings Co., Ltd., Nursery Street, Sheffield 3. Sole Agents: Datsom, Raviraj & Co. (Private) Ltd., 43, Tamarind Lane, Fort, Bombay.

Quigley Company of Canada Ltd., P. Q. Lachine, Canada. Sole Agents: Datsom, Raviraj & Co. (Private) Ltd., 43, Tamarind Lane, Fort, Bombay. Phone: 39333.

REFRIGERATORS

Alfred Teves R. G., Frankfurt/Main, Germany. Exclusive Representatives in India. Refrigeration & Appliances Co. Private Ltd., Pravin Court, 95, Queen's Road, Bombay 1.

Nash Kelvinator Ltd., England. Refrigerators. Sole Distributors: Spencer & Co. Ltd., Spencer's Building, Forjett Street, Bombay 26.

REFRIGERATION EQUIPMENT (COMMERCIAL)

Svenska Turbin Aktiebolaget Ljungstrom (Stal), Norrkoping, Sweden. Manufacturers of Refrigeration and Ice making Plant. Representatives: Asa Electric India, Private Limited, Yash Building, Goa Street, Ballard Estate.

RIVETS & NAILS

J. & W. Somerville Ltd., Kall Nail Works, Lennoxtown, nr. Glasgow. Agents: Soho House, Lohar Street, Bombay 2.

S. & D. Rivet Co., 'Ariel Works', Temple Road, Leicester, England. Agents: Soho House, Lohar Street, Bombay 2.

ROAD BUILDING EQUIPMENT & MACHINERY

Alfred Hagestein, Germany. Kemna Diesel Road Rollers. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

Boydell & Co. Ltd., E., Manchester (Muir-Hill Dumpers). Agents for Western India: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

British Standard Machinery Co. Ltd., Sydney, Australia; Earthmoving, Logging and Road Construction equipment. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

Gallon Iron Works & Mfg., Co. Gallon, Ohio, U.S.A. Gallen Motorgraders. Sole Distributors: Voltas Ltd., Chinchpokli Road, Bombay 12.

Georg. Stetter Baumaschinenfabrik, Germany. High Speed Builder's Winches, Concrete Mixers, Canal Cranes, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

International Harvester Export Co., U.S.A., U.K., Australia & Associates. Bulldozers, Tractor Cranes, Doser Shovels, Loaders, Land Clearing Equipment, Rippers, Motor, Scrapers, etc. Sole Distributors: Voltas Limited, Chinchpokli Road, Bombay 12.

Johnson (Machinery) Ltd., C. H., England. Sole Agents: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

Johnston Bros. (Engineering) Ltd., 284, Iber House, Minories, London, E.C. 3. (Asphalt Mixers, Tar Rollers, Slush Removers, Suction Scavengers, Mobile Bitumen Heaters, Road Line Makers). Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

LeTourneau-Westinghouse Co., Peoria, Illinois, U.S.A. Bulldozers, Scrapers, Rotators and Rollers. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

Marshall, Sons & Co., Ltd., Gainsborough. Diesel Road Rollers. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Thew Shovel Company, The Lorain, Ohio, U.S.A. Shovels, Draglines and Cranes. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

Wacker Gebrüder, Germany. Gasoline/Electric High Frequency Internal/External Concrete Vibrators, Tampers, Tie Tampers, Plate Vibrators, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

W. G. Armstrong Whitworth (Metal Industries) Ltd., England. "Kue-Ken" Jaw and Gyrotory Crushers. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

ROLLER BEARINGS

British Timken Ltd., England. Timken Taper Roller Bearings and Railway Axle Boxes. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

Fischer Bearings Co. Ltd., England. F.B.C. Ball & Roller Bearings Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate, Bombay.

Ransome & Marles Bearing Co., Ltd., Newark-on-Trent. "R & M" Ball and Roller Bearings. Agents: Roberts, McLean & Co., Ltd., Ilaco House, Sir Phirozshah Mehta Road, Fort.

ROLLING SHUTTERS

Dennison Kett & Co., Ltd., Kenoval House, Farmer's Road, London, S.E. 5. Sole Agents: Heatly & Graham Ltd., 9, Forbes Street, Fort.

ROLLMAKERS

British Rollmakers' Corporation Ltd., Crewe, Agents: Guest, Keen, Williams Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

ROLLS FOR PAPER & RUBBER MANUFACTURE

Miller Co. Ltd., Edinburgh. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

ROOFING MATERIAL

D. Anderson & Sons, Manchester & London, Rok Roofing, Paints, etc. Agents: Richardson & Cruddas Ltd., Byculla, Bombay 8.

Helliwell & Co., Ltd., Brighouse. Patent Glazing Bars. Agents: Richardson & Cruddas Ltd., Byculla, Bombay 8.

McNell, F., & Co., Ltd., 10, Lower Grosvenor Gardens, London, S. W. 1. Bituminised Roofing Felt. Agents: Heatly & Graham Ltd., 9, Forbes Street, Fort.

Permanite Limited, London. Roofing Felt and Water-proofing Compounds. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

RUBBER AND PLASTIC INDUSTRIES

CHANCE & HUNT LTD., England. Carbon Black. Selling Agents: I.C.I. (India) Private Ltd., P.B. No. 310, Bombay 1.

I. C. I. LTD., Dyestuffs Division, England. Rubber Chemicals and Colours. Selling Agents: I.C.I. (India) Private Ltd. Post Box No. 310, Bombay 1.

Northern Rubber Co. Ltd., Retford, Notts. Agents: Soho House, Lohar Street, Bombay 2.

RUST, ACID AND HEAT RESISTING STEELS

Firth-Vickers Stainless Steels, Ltd., Rust, Acid and Heat Resisting Steels. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

SANITARY WARES & FITTINGS

Allied Iron Founders Ltd., London. Cast Iron Enamelled Baths. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Fordham Pressings Ltd., Wolverhampton. Mfrs. of Seamless Steel & Enamelled Flushing Cisterns, Cattle Drinking Bowls, etc. Agents: A. H. Shah & Co., Private Ltd., Nanabhoy Mansion, Sir Phirozshah Mehta Road, Fort.

John Slater (Stoke) Ltd., Stoke. Mfrs. of Sanitary & Hospital Fireclayware. Agents: A. H. Shah & Co., Private Ltd., Nanabhoy Mansion, Sir Phirozshah Mehta Road, Fort, Bombay.

Johnson Bros. Ltd., Stoke. Mfrs. of Sanitary Earthenware. Agents: A. H. Shah & Co., Private Ltd., Nanabhoy Mansion, Sir Phirozshah Mehta Road, Fort, Bombay.

J. & R. Howie Ltd., Huriford. Fireclay Works, Kilmarnock, Scotland. Sole Agents for Bombay State: R. K. Shapurji & Co., Prospect Chambers, 319, Dr. Dadabhai Naoroji Road, Fort, P.B. No. 1065, Bombay 1.

Robert McARD & Co., Ltd., Denton. Mfrs. of Sanitaryware, W. C. Seats. Agents: A. H. Shah & Co., Private Ltd., Nanabhoy Mansion, Sir Phirozshah Mehta Road, Fort, Bombay.

Samuel Booth & Co., Ltd., and Barking Brassware & Co., Ltd., England. Mfrs. of Sanitary Metal Fittings. Agents: A. H. Shah & Co., Private Ltd., Nanabhoy Mansion, Sir Phirozshah Mehta Road, Fort, Bombay.

Twyford's Ltd., England. Sanitaryware. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

SCIENTIFIC & MARINE INSTRUMENTS

Aldis Brothers Ltd., Sarehole Road, Hall Green, Birmingham 28, England. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Amster & Co. (Alfred, J.), Schaffhausen, Switzerland. Testing Machines, Planimeters, Integrators. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Archibald Low & Sons Ltd., Merkleland Works, Partick, Glasgow, Scotland. Agents: E. W. Stevens & Co. Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

O. A. Steinhilf Sohne, Germany. Spectrographic Instruments. Sole Agents: Ghordhandas Desai Private Ltd., Kermani Bldg., Sir P. M. Road, Bombay 1.

Chadburns (Liverpool) Ltd., Park Lane, Aintree, Liverpool 10, England. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Comor Radar Ltd., Comor House, Highbury Grove, London N. 5. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

O. Plath, Stubbenhuk 25, Hamburg 11, Germany. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Decca Navigator Co., Ltd., 1-3, Brixton Road, London S.W. 9. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Decca Radar Ltd., 1-3, Brixton Road, London S.W. 9. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Electroacustics G.m.b.H., Kiel, Westring 425-429, Germany. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

JULIUS PINTSCH WEST K. G., Frankfurt/Main, Germany. Manufacturers of Light Buoys, Light Beacons, Maritime Signal and Lighting Equipment, Sea Marking Devices, Electric Acoustical Plants. Agents: Gaytee & Co., Jannabhooni Chambers, Fort Street, Bombay. Phone: 263449. Grams: "IMPENG."

Kelvin & Hughes (Marine) Ltd., 99, Fenchurch Street, London E.C. 3. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Leeds & Northrup Company, Philadelphia. Indicators, Recorders, Controllers, etc. Electrical Measuring Instruments. Agents: Harcastle, Vaud & Co., Private Ltd., Alice Buildings, Dr. Dadabhai Naoroji Road, Fort.

Radio Corporation of America, RCA Building, 30, Rockefeller Plaza, New York 20, N.Y., U.S.A. Agents: E. W. Stevens and Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Raytheon Manufacturing Company, Waltham 54, Massachusetts, U.S.A. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Ross Ensign Ltd., North Side, Clapham Common, London S.W. 4. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Seahamuly Pistol Rocket Apparatus Ltd., 51, Coleman Street, London E.C. 2. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

S. G. Brown Ltd., Shakespeare Street, Watford, Herts, England. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Sperry Gyroscope Co., Division of Sperry Rand Corporation, Great Neck, Long Island, New York, U.S.A. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Steels Engineering Installations Ltd., Crown Works, Sunderland, England. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Submarine Signal Co. (London) Ltd., Shakespeare Street, Watford, Herts, England. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Thomas Mercer Ltd., Eyewood Road, St. Albans, England. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Thomas Walker & Son Ltd., 58, Oxford Street, Birmingham 5, England. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

T. Francis & Sons, Electric House, Turner Bridge, Bolton, Lancs., England. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

SEWAGE EQUIPMENT

Cakebread Robey & Co., London. Makers of Drain Cleaning Appliances. Agents: Richardson & Cruddas Ltd., Byculla, Bombay 8.

Hughes & Lancaster Ltd., London. Makers of Sewage Ejectors, etc. Agents: Richardson & Cruddas Ltd., Byculla, Bombay 8.

SHIPPING COMPANIES

Behlps Co. Ltd., Victoria St., Westminster, London, S.W. 1. Agents: Killik Nixon & Co., Private Ltd., Killik House, Home Street, Fort.

Bibby Bros. & Co., Martins Bank Building, Water Street, Liverpool. Agents: Killik Nixon & Co., Private Ltd., Killik House, Home Street, Fort.

Compagnie des Messageries Maritimes, Paris. To and from Continental and Mediterranean Ports. Representatives: Volkart Brothers, Ballard Estate, Bombay.

Ellerman's City & Hall Lines Ltd., Bankside House, 107, Leadenhall Street, London, E.C. 3. Agents: Killik Nixon & Co., Private Ltd., Killik House, Home Street, Fort.

Hoegh Line—Service of the Hoegh Line to and from U.S.A., Atlantic and Gulf Ports. Representatives: Volkart Brothers, Ballard Estate, Bombay.

Holland-Bombay-Karachi Line and Holland-Bengal-Burma Line. Service of the United Netherlands Navigation Co., Rotterdam, to and from European, Continental and Mediterranean Ports. Representatives: Volkart Brothers, Ballard Estate, Bombay.

Java Pacific & Hoegh Lines—Service of Java Pacific Line, Amsterdam, and Lief Hoegh & Co., A/S., Oslo to and from Ceylon, Malayan Union, Indonesia, Philippines and West Coast of U.S.A. and Canada. Representatives: Volkart Brothers, Ballard Estate, Bombay.

L. Smit & Co.'s Internationale Sleepdienst, Westplein 5, P.O. Box 1042, Rotterdam. Agents: Killik Nixon & Co., Private Ltd., Killik House, Home Street, Fort.

Maerck Line—Service of A. P. Moller, Copenhagen, to and from the Far East. Representatives: Volkart Brothers, Ballard Estate, Bombay.

T. & J. Harrison, Mersey Chambers, Liverpool. Agents: Killik Nixon & Co., Private Ltd., Killik House, Home Street, Fort.

Thos. & Jno Brocklebank Ltd., Cunard Building, Pier Head, Liverpool. Agents: Killik Nixon & Co., Private Ltd., Killik House, Home Street, Fort.

SIZING MATERIAL

Houghton, E. F. & Co., Philadelphia. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoi Naoroji Road, Fort.

SMALL TOOLS—METAL & WOOD WORKING

Firth Brown Tools Ltd., Sheffield, England. Files, Drills, Augers, etc. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

SOUND RECORDING MAGNETIC TAPES

Minnesota Mining & Mfg. Co. Ltd., International Division, 99, Park Avenue, N. Y. 16, U.S.A. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

Minnesota Mining & Mfg. Co. Ltd., 3-M. House, Wighmore Street, London W. 1, England. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

SPEED INDICATORS & RECORDERS

Hasler Telegraph Works, 26, Victoria Street, Westminster, London, S.W.1. Sole Agents: Healy & Gresham Ltd., 9, Forbes Street, Fort.

SPORTS GOODS MFRS. AND DEALERS

A. G. Spalding & Bros. Ltd., "Sports Goods." Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

I. C. I. LTD., Sporting Ammunition Dept., England. ("ELEY" and "KY-NOCK" Cartridges, Gun Powders, etc.) I. C. I. Ltd., Plastics Division: ("Luron" Fishinglines, "Survon" for Tennis racquets.) Representatives in India: I. C. I. (India) Private Ltd., Post Box No. 310, Bombay 1.

SPRAY PAINTING EQUIPMENT

Aerograph Co. Ltd., London, England. Spray Painting Equipments. Agents: John Fleming & Co. Private Ltd., Bastion Road, Fort, Bombay. Phone: 261153.

B.E.N. Patents Ltd., High Wycombe, England. Air Compressors, Spray Painting plants, Tyre Inflators, Car Washers, Spark Plug Cleaners. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

B. O. Morris Ltd., Coventry, Polishers. Agents in India: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

DeVillias Company, Toledo 1, Ohio, U.S.A. Agents: Gillanders Arbuthnot & Co. Ltd., 16, Queen's Road Estate, Bombay 1.

De Villias Company, Ohio, U.S.A. Air Compressing, Spray Painting outfits and Hose, etc. Agents: John Fleming & Co., Private Ltd., Bastion Road, Fort, Bombay 1. Phone: 261153.

Richard C. Walther, Germany. Representatives: Behram & Co., 1/1, Lakshmi Bldg., Sir P. M. Road, Fort, Bombay.

SPRINGS

Cope & Timmins (London) Ltd., 91/93, Paul Street, Finsbury, London E.C.2. Agents: Soho House, Lohar Street.

STATIONERS

HARDTMUTH, L. & C. (GREAT BRITAIN), LTD., Keh-i-Noor Pencil Factory, Chard, Somerset. Agents: Wiggins, Teape & Alex. Pirie (Export) Ltd., Kamani Chambers, Nicol Road, Ballard Estate.

Perry & Co. Ltd., "Perry" Steel Pens and other Stationery Items. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

PIRIE, APPLETON & CO., LTD., Manufacturing Stationers, Chadwell Heath Mill, Essex. Agents: Wiggins, Teape & Alex. Pirie (Export) Ltd., Kamani Chambers, Nicol Road, Ballard Estate.

STEAM, DIESEL & ELECTRIC LOCOMOTIVES & SPARES

Vulcan Foundry Ltd., Newton-Le-Willows, Lancashire, England. Sole Agents: Healy & Gresham Ltd., 9 Forbes Street, Fort.

STEAM & WATER TURBINES

Charmilles Engineering Works Ltd., Geneva, Switzerland. Agents: Kaycee Industries Ltd. Kermani Chambers, Nicol Road Bombay.

Hayward Tyler & Co. Ltd., Luton. Steam Turbines. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Hitachi Limited, Tokyo, Japan, Steam & Water Turbines. Sole Distributors: William Jacks & Co., Ltd., Hamilton House, Graham Road, Ballard Estate.

Svenska Turbin Aktiebolaget Ljungstrom (Stal), Finspong, Sweden. Manufacturers of Steam and Gas-Turbo-Alternators. Representatives: Asea Electric India, Private Limited, Yaff Building, Goa Street, Ballard Estate.

STEAM TRAPS & VALVES

Richard Klingers Ltd., Klingers Works, Sidcup, Kent. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoi Naoroji Road, Bombay 1.

Samson, Apparatebau, A. G. Frankfurt, Germany. Samson Controls, Regulators. Agents: C. Sethia & Co., 59, Forbes Street, Bombay 1.

Velam Engineering Co., Ltd., 18/22, Erskine Street, Leicester, England. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Bombay 1.

STEEL

C. D. Walsholz, Hohenlimburg, Germany. Cold Drawn and Cold Drawn Steel Strips, Wire, Section and Profiles. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay 1.

Samson, Apparatebau, A. G. Frankfurt, Germany. Samson Controls, Regulators. Agents: C. Sethia & Co., 59, Forbes Street, Bombay 1.

STALUNION-EXPORT G.m.b.H., Düsseldorf. Steel materials, Machine Tools and Engineering Products of all kinds. The Stahlunion Company Limited, 61, Pall Mall, London, S.W.1. The Stahlunion Company Limited, India House, 4th Floor, Fort Street, Bombay 1. Telegraphic Address: "MARCASTEEL," Bombay. Branch Office: Calcutta.

STEEL & BRASS

Harrison (Birmingham) Ltd., Bradford Street Works, Birmingham 12. Agents: Soho House, Lohar Street, Bombay 2.

Vossloh Werke, G. m. b. H., Werdohl, Westfalia, Germany (Brit. zone). Agents: Soho House, Lohar Street, Bombay 2.

STEEL (STAINLESS) & ALLOY

Brown Bayley Steels Ltd., Leeds Road, Sheffield. Agents: Healty & Gresham Ltd., 9, Forbes Street, Fort.

Fox (Samuel) & Co. Ltd., Sheffield, England, Alloy and Stainless Steel Sheets, Bars, Strip and Wire. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

STEEL CASTINGS & FORGINGS

Darlington Forge Ltd., Darlington, County Durham, England. Steel Castings and Forgings. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Edgar Allen & Co., Ltd., Sheffield. Makers of High Speed Steels, heavy C. S. castings and Metal Working Tools. Agents: Richardson & Cruddas, Ltd., Byculla, Bombay 8.

Wm. Beardmore & Co. Ltd., Glasgow. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

STEEL MANUFACTURERS

Appleby-Frodingham Steel Co., Scunthorpe, England. Mild Steel Plates for Ship-builders, Bridge builders, Structural Engineers, Roller Makers, etc. Steel Angles, Channels, Joists, Tees, and Flats. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

ARTHUR LEE & SONS LTD., Sheffield, (Lee of Sheffield Ltd.), Sheffield, England. Manufacturers of Cold Rolled Steel Strips, Free cutting Steel, Bars, Rounds and Hexagons, Stainless Steel Strips, High Tensile Steel Wires, etc. Representatives for Bombay:—Eastern Trading & Engineering Co., Alice Building, 3rd Floor, 339, Dr. Dadabhai Naoroji Road, Fort, Bombay 1.

Dorman Long & Co. Ltd., Middlesborough, England. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Dunford & Elliott (Sheffield) Ltd., Attercliffe Wharf Works, Sheffield, England. Mining Drill Steel Bars. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

Edgar Allen & Co., Ltd., Sheffield. Makers of High Speed Steels, Heavy C. S. Castings and Metal Working Tools. Agents: Richardson & Cruddas, Ltd., Byculla, Bombay 8.

English Steel Rolling Mills Corporation Ltd., Sheffield. Tool & Alloy Steel. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Exors of James Mills, Ltd., Stockport. Agents: Guest, Keen, Williams (P) Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

Guest, Keen & Nettlefolds (South Wales), Ltd., Cardiff. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

Hallamshire Steel Co., Ltd., Hallamshire Works, Sheffield 8, England. Manufacturers of Black & Bright Bars in Alloy & Special Carbon Steels, Wire & Rods, etc. Sole Agents: H. Choksi & Co., Ltd., 106/108, Meadows Street, Fort, Bombay.

Huntsman B. (Sheffield) Ltd., Sheffield, England. High Speed and Tool Steel, Hack-saw Strip. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

Johnson Richard & Nephew Ltd., Manchester, England. Mild and High Tensile Steel Wire. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

Power, Fredrick A. & Sons (Saltley) Ltd., Edgbaston, Birmingham, England. Bright drawn Steel Bars. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

Shipmans (Sheffield) Ltd., Sheffield, England. Silver Steel and Polished Music Spring Wire. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

Steel Company of Wales Ltd., London. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

Steel Peech & Tozer, Sheffield, Mild & Carbon Steel Bars, Strip & Strapping, Forgings, Wheels, Axles & Tyres. Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

Summers, John & Sons Ltd., Hawarden Bridge Steel Works, Shotton, Chester, England. Steel Sheets. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

TINLEY ROLLING MILLS CO. LTD., Sheffield, England. Manufacturers of Silico Manganese Spring Steel to EN-48A, Quality. Representatives for India: Eastern Trading & Engineering Co., Alice Building, 3rd Floor, 339, Dr. Dadabhai Naoroji Road, Fort, Bombay.

United Steel Companies Ltd., Sheffield, England. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

STEEL PRODUCTS

Crittall Manufacturing Co. Ltd., London. Steel Windows, Doors and Industrial Sashes. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

Firth Cleveland Steel Strip Ltd., Mfrs. of Cold roll, hardened and tempered Steel strips. Agents in India: Alsales Ltd., 9, Wallace Street, Bombay 1.

Firth Co. Ltd., England. Mfrs. of High Carbon borie and Acid Steel wires and other Steel Products. Agents in India: Alsales Ltd., 9, Wallace Street, Bombay 1.

Henry Hope & Sons, Ltd., Steel Windows & Doors Mfrs., Smethwick, Birmingham. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Pittsburgh Steel Products Co., Pittsburgh, U.S.A. Distributors: Maneklal & Co., 166, Dr. Dadabhai Naoroji Road, Bombay 1.

Richard Hill Ltd., England. Mfrs. of Steel wire, rods and M. S. Bars. Sole Agents in India: Alsales Ltd., 9, Wallace Street, Bombay 1.

STEEL ROLLS

Daniel Doncaster & Sons Ltd., Sheffield; Hardened rolls for cold rolling. Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

Steel Peech & Tozer, Sheffield; Forged unhardened rolls for hot re-rolling. Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

STEEL STRIPS

Steel Peech & Tozer, Sheffield; Strips for Bicycle Mudguards, Rims etc. Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

STONEBREAKERS & GRANULATORS

Baxter W. H. Ltd., Leeds. Knapping Motion Stonebreakers and Granulators. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Edgar Allen & Co., Ltd., Sheffield. Makers of High Speed Steels, Heavy C. S. Castings and Metal Working Tools. Agents: Richardson & Cruddas Ltd., Byculla, Bombay 8.

STUD WELDING EQUIPMENT

Crompton Parkinson Ltd., London. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

SUGAR MACHINERY

A. F. Craig & Co. Ltd., England. Complete Sugar Plant. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

Associated Engineering Manufacturers of Australia Pty Ltd., Bowen Street, Maryborough, Queensland, Australia. Sugar Machinery. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

FAWCETT, PRESTON & CO., LIMITED, Bromborough, Cheshire, England. Representatives: James Finlay & Co. Limited, P.O. Box No. 73, Bombay 1.

SURGICAL GOODS AND INSTRUMENTS

Charles F. Thackray & Co. Ltd., Leeds; Surgical Instruments, Theatre Equipments, Hospital Furniture, Dressing Sterilizers etc.. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

I. C. I. LTD., Plastics Division, England. (Surgical Nylon Sutures, etc.) Selling Agents: I. C. I. (India) Private Ltd., Post Box No. 310, Bombay 1.

Smith & Nephew Ltd., Surgical Dressings 'Klastoplast', 'Gypsona', etc. Sole Agents: J. L. Morrison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Thos. Glover and Son, Ltd., "Verlog" Kneecaps, Anklets etc. Sole Agents: J. L. Morrison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

SURVEYING INSTRUMENTS

Carl Zeiss Jena, East Germany. Sole Agents: Ghordandas Desai Private Ltd., Kermani Building, Sir P. M. Road, Bombay 1.

COOKE TROUGHTON & SIMMS LTD., York, England. For Engineers' Block Levels, Gauges, Surveyor's Levels, Theodolites, Techeometers, etc. Agents: Pioneer Equipment Co. Private Ltd., 139, Meadows Street, P. O. Box 1909, Bombay 1. (Phone: 251882). Also at 1, Mangoe Lane, Calcutta 1. (Phone: 231611) and 193, Mount Road, Madras 2. Grams: "PIOMETAL".

SYNTHETIC FIBRES

FARBENFABRIKEN BAYER AKTIENGESELLSCHAFT, Leverkusen, Germany; Manufacturers of Chemical & Synthetic Fibres & Threads. Sole Distributors: Chika Private Ltd., Industrial Assurance Building, opp. Churchgate Station, Bombay 1. Phone: 242291; Grams: "DYECOLD".

TAPE RECORDERS

Simon Sound Service, Ltd., London W. 1, England. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

TELEGRAPH & RADIO COMMUNICATION EQUIPMENT

Great Northern Telegraph Works. Division of the Great Northern Telegraph Co., Ltd., Copenhagen S V, Denmark. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

TELEPHONE EQUIPMENT

Telephone Manufacturing Co., Ltd., Hartell Road, West Dulwich, London. Agents: Hindco, 27, New Queen's Road, Bombay 4.

TELEPHONE, TELEGRAPH AND CARRIER COMMUNICATION APPARATUS

Automatic Electric International Corp., Chicago 7, Illinois, U.S.A. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

Lenkurt Electric Co., Calif., U.S.A. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

TESTING MACHINES (PHYSICAL)

COATS MACHINE TOOL CO., U.K., for Shores Scleroscopes, Hardness Testers etc. Sole Agents: Pioneer Equipment Co. Private Ltd., 139, Meadows Street, P. O. Box 1909, Bombay 1. (Phone: 251882). Also at 1, Mangoe Lane, Calcutta 1. (Phone: 231611) and 193, Mount Road, Madras 2. Grams: "PIOMETAL".

SOLUS SCHELL LTD., U.K., for Non-destructive Testing Equipment. Sole Agents: Pioneer Equipment Co. Private Ltd., 139, Meadows Street, P. O. Box 1909, Bombay 1. (Phone: 251882). Also at 1, Mangoe Lane, Calcutta 1. (Phone: 231611) and 193, Mount Road, Madras 2. Grams: "PIOMETAL".

TEXTILE ENGINEERS

Allen Beam Co., New Bedford, Massachusetts. Wrapper Beams, etc. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Bates Textiles Machine Co., Ltd., Leicester, England. Hosiery Finishing Machinery. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

British Northrop Loom Co., Ltd., Daisyfield, Blackburn, England. Automatic Looms. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Coker Machine and Foundry Co., U.S.A. High Speed Warping & Sizing Machinery. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Devoe & Co., Ltd., Manchester, England. Jacquards, Card Cutting Machinery, etc. Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Durrant, G., & Sons, Ltd., Textile Specialists. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Kershaw (H.), & Son, Ltd., Mossley. Roller Cloth, Sizing Flannel, etc. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Lang Bridge Ltd., Accrington. Cotton Bleaching, Dyeing, Printing and Finishing Machinery. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Macadam & Co., Ltd., Manchester. Stamping Paste & Mercine Glaze. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Oldham Rope & Twine Co., Ltd., Oldham. Cotton Rope and Banding. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

O'Neill, S., & Sons, Ltd., Paper Cones & Tubes. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Petrie & McNaught Ltd., Rochdale, England. Wool Washing, Carbonising and Drying Machinery, etc. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Rudman & Co., Ltd., F. E., Manchester. Mercine Glaze, Epsoll Softening. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Sanderson & Co. (Textile Engineers), Ltd., Manchester, England. Yarn Conditioning Machinery, etc. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Tatham (William) Ltd., Belfield Works, Rochdale, England. Cotton Waste and Woollen Machinery. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Tragasol Products Co., Ltd., Hooton. Gum Tragasol and Gum Tragon for sizing and finishing. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Universal Winding Co., Providence, U.S.A. Mfrs. of Textile Winding Machinery. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Walrus Fibre Mfg. Co., Ltd., Rochdale, Lancashire, England. Card, Can, etc. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Whitley E. Gordon, Leeds, England. Woollen & Worsted Finishing Machinery, etc. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Wilson & Ingham, Mirfield Card Clothing, Burnishing and Stripping Brushes. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Woonsocket Napping Machine Co., Woonsocket, U.S.A. Raising Machines. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

TEXTILE MACHINERY & EQUIPMENT

Adolph Saurer Ltd., Arbon, Switzerland. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

Allis-Chalmers Mfg. Co., Milwaukee, U.S.A. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

American Moistening Co., U.S.A. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

Armstrong Cork Co., Ltd., Kingsbury, London, N.W. 9. Agents: Roberts, McLean & Co., Ltd., Ilaco House, Sir Phirozshah Mehta Road.

Chas. A. Schieren Co., U.S.A. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

Creation Textiles, Switzerland. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

Cutler Hammer Inc., Milwaukee, U.S.A. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

David Gassner & Co., Worcester, U.S.A. Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

Dip. Ing. Holzwart, Bayreuth, Germany. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

Emill Adolf, West Germany. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

Erhardt & Leimer, Augsburg, West Germany. Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

Giacomo Jucker, Milan, Italy. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

Hahn & Kolb Stuttgart, West Germany. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

Heberlien & Co., Switzerland. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

Hungerford & Terry Inc., Clayton, New Jersey, U.S.A.—Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

H. W. Butterworth & Sons Co., Bethayres, U.S.A. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

I. A. Mitchell Ltd., Manchester, U.K.—Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

Injecta Ltd., Switzerland. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

J. Brookesbank Ltd. U.K. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

J. Mac A. King & Co. Ltd., U.K. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

Liba Machine Fabrieken, Nalla, West Germany.—Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

Lindemann Kammandtgesellschaft, Dusseldorf, Germany. Scrap Sheers & Presses, Hydraulic Balling Presses for Cotton Jute, etc. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Luwa A. G., Zurich.—Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

Mckiernan-Terry Corporation, Dover, New Jersey, U.S.A.—Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

Platt Bros. & Co. Ltd., Oldham. Cotton Gins & Openers. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Plutte Koecke & Co., Wuppertal-Barman, West Germany. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

Reisinger, Austria. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

Richard Hough Ltd., Lancashire, U.K. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

Rodney Hunt Machine Co., Orange, Massachusetts, U.S.A.—Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

Stowack Fibre & Can Co. Ltd., Moston, Manchester 9. Fibre and Steel Card Cans. Agents: Roberts, McLean & Co., Ltd., Ilaco House, Sir Phirozshah Mehta Road, Fort.

Thomas Josef Heimbach & Co. West Germany. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

Trockentechnik, Stuttgart, West Germany.—Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

Ulrich Steinemann, Switzerland. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

Wicaco Machine Corporation, U.S.A. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

TEXTILE MACHINERY MFRS.

David Gassner & Co., Worcester, U.S.A. Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

Erhardt & Leimer, Augsburg, West Germany. Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

Hungerford & Terry Inc., Clayton, New Jersey, U.S.A. Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

L. A. Mitchell Ltd., Manchester, U.K. Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

Liba Machine Fabrieken, Nalla, West Germany. Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

Luwa, A. G., Zurich. Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

Mckiernan-Terry Corporation, Dover, New Jersey, U.S.A. Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

Rodney Hunt Machine Co., Orange, Massachusetts, U.S.A. Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

Trockentechnik, Stuttgart, West Germany. Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

Morrison Machine Co., Paterson, New Jersey, U.S.A. Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

TEXTILE & TECHNICAL PUBLICATIONS

NIXON (ALFRED) SON & TURNER, Chartered and Incorporated Accountants, 40, Brazennose Street, Manchester, 2, England. British Representatives for The Indian Textile Journal, (Private) Ltd., Military Square, Fort, Bombay.

TEXTILES

Attenborough, C. W., & Co., Ltd., Leicester, England. Sole Agents: Batliboi, C. J., & Co., 319, Dr. Dadabhoi Naoroji Road, Fort, Bombay.

F. M. Hammesle, Dornbirn, Austria. Sole Agents: Jethalal V. Dave & Co., 295, Masjid Bunder, Bombay 3.

Hield Brothers Ltd., Bradford, England. Sole Agents: Batliboi, C. J., & Co., 319, Dr. Dadabhoi Naoroji Road, Fort, Bombay.

Keith & Henderson, Ltd., London. Sole Agents: Batliboi, C. J., & Co., 319, Dr. Dadabhoi Naoroji Road, Bombay 1.

Moore Johnston & Co. Ltd., England. Sole Agents: Jethalal V. Dave & Co., 295, Masjid Bunder, Bombay 3.

TEXTILES MANUFACTURERS

Dan River International Corporation, 1407, Broadway, New York, N.Y. Cotton, Woolen and Art Silk Piecegoods. Agents: Windmere (India) Private Ltd., Sir Vithaldas Chambers, Apollo Street, Fort, Bombay.

THERMOMETERS

British Rototherm Co., Ltd., London. Industrial Thermometers. Sole Agents: Marshall, Sons & Co., (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

TILE & MARBLE MANUFACTURERS

Johnson, H. & R., Ltd., Tunstall. Manufacturers of Glazed Tiles "Crystal" Brand. Agents: A. H. Shah & Co., Private Ltd., Nanabhoy Mansion, Sir Phirozshah Mehta Road, Fort, Bombay.

TOILETRIES

Bronnley, H., & Co., Ltd., London. Makers of high class Soaps and Perfumes and Toilet requisites. Agents: The Anglo-Thai Corporation, Ltd., Ewart House, Bruce Street.

Delavelle (G. B.) Ltd., "Go" Stick Deodorant, etc. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Gala of London Ltd. Nail Colour, Lipsticks, Lipplines, etc. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Morny, Ltd. Perfumery & Toilet Specialists. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Smith & Nephew Ltd., "Nivea" Creme etc. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Thomas Christy & Co., Ltd., Glycothymoline, Liquid Lanoline and Zepto Tartar Removing Pencils. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

TOOLS MFRS.

ACKERMANN U. SCHMITT K. G., Postfach 28, Stuttgart, 13, Germany. Electric Tools. Representatives: James Finlay & Co., Limited, P.O. Box No. 73, Bombay 1.

British Tool & Engineering Co. Ltd., Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

Brooke Tool Mfg. Co., Ltd., England. Mfrs. of "Cardinal" brand small tool for factories. Sole Agents in India: Shah Traders, 229, Masjid Bunder Road, Bombay 3. Phone: 39604.

Charles Thomas & Co. Ltd., Wainwright Street, Astar, Birmingham 6. Agents: Soho House, Lohar Street, Bombay 2.

Cumbrian Tools Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

Elliott-Lucas Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

English Steel Tool Corporation Ltd., Manchester, Sheffield. Engineers' Small Tools, Files, Hackaw Blades, etc. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

FRITZ KLAIBER K. G., SCHWENNINGEN/NECKAR, Germany. Manufacturers of Tools & Cutter Grinders, Surface Grinders etc. Agents: Gaytee & Co., Jannabhooni Chambers, Fort Street, Bombay 1. Phone: 263449. Grams: "IMPENG."

Hack Saws Ltd., England. "Aven" Hack saw Blades, Frames and Metal Cutting Band Saws. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Ideal Machine Tools & Eng. Co. Ltd., England. Precision Tools. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

James Neill & Co., (Sheffield) Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

Job Wheway & Son Ltd., England. Electrically Welded Steel Chains, Shackles. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Nuckey Scott & Co. Ltd., England. "Warrior" Brand Taps & Dies. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Peter Stubs Ltd., England. Files, Gravers, Scrapers, Tool Holder Bits, Tool Steels. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Post Box No. 185, Bombay 1.

Thor Hammer Co. Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

Tom Carrington & Co. Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

Turton Bros. & Matthews Ltd., Sheffield. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

VEERKOPKANTOOR VANDER HEEM N. V., Maanivag 256, The Hague, Holland. Electric Drills. Representatives: James Finlay & Co., Limited, P.O. Box No. 73, Bombay 1.

Wm. Gilpin Senr. & Co., (Tools) Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

TOOL STEEL

B. K. Morton & Co., Ltd., Sheffield, England. Representatives: D. M. Harishanker Narbheram & Co., 94, Kansara Chawl, Kalbadevi Road, Bombay 2.

Horbach & Schmitz G.m.b.H. Kolu, W. Germany. Representatives: D. M. Harishanker Narbheram & Co., 94, Kansara Chawl, Kalbadevi Road, Bombay 2.

Moss & Gamble Brothers Ltd., Sheffield, England. Agents: Kaycee Industries Ltd., Kamani Chambers, Nicol Road, Bombay 1.

Rayo Steel Works, Sheffield, England. Representatives: D. M. Harishanker Narbheram & Co., 94, Kansara Chawl, Kalbadevi Road, Bombay 2.

WALTER SPENCER & CO., LTD., Sheffield, England. Manufacturers of Highspeed Steel, Alloy Tool Steel, Carbon Tool Steel, etc., etc. Milling Cutters, Twist Drills, Reamers, Slitting Saws, Files, Carbide Tipped Tools, Lathe Tools, etc. Agents: Gaytee & Co., Jammabhooni Chambers, Fort, Bombay. Phone: 263449. Grams: "IMPENG."

TOWER CRANES

H. Liebherr, Germany. Tower Cranes. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

TRACTION GEARS AND UNITS

Wiseman, Alfred & Co. Ltd., Glover Street, Birmingham 9. Sole Agents: Healy & Graham Ltd., 9, Forbes Street, Fort.

TRACTORS & FLOUGHS

International Harvester Export Co., Chicago, U.S.A. Agricultural Machinery and Implements, McCormick-Deering Tractors, (Agricultural and Industrial). Sole Distributors: Voltas Limited, Chinchpokli Road, Bombay 12.

John Fowler & Co., (Leeds) Ltd., Leeds. Diesel Crawler Tractors from 40 BHP to 150 BHP. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Marshall, Sons & Co., Ltd., Gainsborough. Diesel Tractors (Wheel Types). Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Oliver International, S.A., Illinois, U.S.A. Oliver Tractors and Agricultural Implements. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

TRAIN LIGHTING BATTERIES & ACCUMULATORS

Pritchett & Gold & E. P. S. Co. Ltd. Manufacturers of Accumulators of all types. Head Office: 50, Grosvenor Gardens, Victoria, London. Sole Agents: Healy & Graham Ltd., P. O. Box No. 1774, Bombay. Telephones: 255756 & 255757. General Manager for India: Niren N. Ghose, J.P., D.F.H. (Lond.), A.M.I.E.E.

TRANSFORMERS

BRUCE ELECTRIC CONSTRUCTION CO., LTD., Kelvin Works, Hackbridge, Wallington, Surrey, England. Representatives: James Finlay & Co., Ltd., P.O. Box No. 73, Bombay 1.

Gresham Transformers Ltd., Hanworth. Transformers. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Hitachi Ltd., Tokyo, Japan. Transformers. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

Yorkshire Electric Transformer Co., Ltd., Dewsbury. Transformers. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Zenith Electric Co. Ltd., London, N.W. 2, England. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

TRAVELLING REQUISITES

Fibre Case Co. Ltd., 36/8, Peckham Road, London, S.E. 5. Agents: Soho House, Lohar Street, Bombay 2.

TUBE WELL DRILLING AND BORING EQUIPMENT

English Drilling Equipment Co., Ltd., London. Sole Agents: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

TYGAN FLYSCREENING

Fothergill & Harvey Ltd., Manchester. Agents: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

TYGLAS INSULATION

Fothergill & Harvey Ltd., Manchester. Agents: Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

TYPEWRITERS, CALCULATORS, ADDING MACHINES & TELEPRINTERS

ING. C. OLIVETTI & C. S.P.A., Ivrea, Italy. Typewriters, Calculators, Adding & Listing Machines. Representatives: Latham Abercrombie & Co. Private Ltd., Forbes Building, Home Street, Fort.

OLIVETTI TELESCRIVENTI, Via Viotto 9, Torino, Italy. Teleprinters. Representatives: Latham Abercrombie & Co. Private Ltd., Forbes Building, Home Street, Fort.

Pallard Ltd., Yverdon (Switzerland). Hermes Typewriters. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

UPHOLSTERY

ALBRIGHT & WILSON LTD., London, (Calgon) Leather Cloth Manufacturers. Selling Agents: I.C.I. (India) Private Ltd., P.B. No. 310, Bombay 1.

I. C. I. LTD., Leather cloth Division, England. "REXINE" & "VYNIDE" Leather cloth. Selling Agents: I. C. I. (India) Private Ltd., Imperial Chemical House, Ballard Estate, Bombay 1.

VACUUM BRAKE EQUIPMENT

Vacuum Brake Co., Ltd., 187, Abby House, Victoria Street, London, S.W. 1. Locomotive and Rolling Stock Fittings. Agents: Healy & Graham Ltd., 9, Forbes Street, Fort.

VACUUM CLEANERS & FLOOR MAINTENANCE MACHINES

Breuer Electric Mfr. Co., Chicago 6, Illinois, U.S.A. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

VALVES MFRS.

Superior Valve & Fittings Co., Pittsburgh 26, Pa. U.S.A. Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

VALVES (WATERWORKS)

Ernest Filtach, Stuttgart, Germany. "Flica" Expansion Valves. Agents: C. Sethia & Co., 59, Forbes Street, Bombay 1.

Ham Baker & Co., Ltd., England. Valves, Penstocks Fittings, etc. Agents: John Fleming & Co., Private Ltd., Bastion Road, Fort, Bombay 1. Phone: 261153.

J. Blakeborough & Son, Ltd., Brighouse. Makers of Valves all types, and other Waterworks Appliances. Agents: Richardson & Cruddas Ltd., Byoula, Bombay 8.

Meynell & Sons Ltd., Wolverhampton, England. Agents in India: R. Ochavial & Co., 86, Nagdevi Street, Bombay 3.

VEE ROPE MFRS.

Fenner, J. H., & Co., Ltd., Marfleet, Hull, England. V-Belts and V-Belt Drives. Agents: Greaves, Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

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JOHN-MANVILLE, INTERNATIONAL CORPN., (Filter-aids), Agents: I.C.I. (India) Private Ltd., P. B. No. 310, Bombay 1.

MOND NICKEL CO. LTD., England. Nickel formate. Agents: I.C.I. (India) Private Ltd., P.B. No. 310, Bombay 1.

VENTILATORS

Greenwood & Alrvas Ventilating Co., Ltd., Kingsway, London. Manufacturers of Alrvas Ventilators and Railway Carriage Ventilating Fittings. Sole Agents: J. D. Jones & Co. (Bombay) Private Ltd., Ruston Building, Veer Nariman Road, Fort.

Robertson, Thain Ltd., Mersey Iron Works, Ellesmere Port, Wirral, Cheshire. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

VETERINARY SPECIALITIES

Bob Martin (Export) Ltd., "Condition Tablets and Dog Remedies." Sole Agents: J. L. Morrison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

VIBRATORY SCREENS

Niagara Screens (Great Britain) Ltd., Middlesex. Sole Agents: Killick Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

WALKING DRAGLINES

Page Engineering Co., U.S.A. Walking Draglines. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

WATCHES & CLOCKS

Buren Watch Co., S.A. Switzerland. Representatives: Phoenix Watch Co., 166, Dr. Dadabhai Naoroji Road, Bombay 1.

Enicar, S. A., Switzerland. Representatives: Phoenix Watch Co., 166, Dr. Dadabhai Naoroji Road, Bombay 1.

Wehrle Uhrenfabrik, G.m.b.H., West Germany. Representatives: Phoenix Watch Co., 166, Dr. Dadabhai Naoroji Road, Bombay 1.

WATER FILTRATION

CANDY FILTER CO., LTD., London. Manufacturers of all types of Water Purification and treatment Plant. Agents: Candy Filters (India) Private Ltd., Forbes Bldg., Home Street, Fort, Bombay.

Cleveland Meters Ltd., Redcar, England. Agents: Kaycee Industries Ltd., Kamani Chambers, Nicol Rd., Bombay 1.

Metafiltration Co., Ltd., Hounslow, Middlesex. Metafilters for Laboratory and Industrial use. Agents: Roberts McLean & Co., Ilaco House, Sir Phiroozshah Mehta Road.

WATER METERS

Aquametro Ltd., Basle, Switzerland. Meters for Water and other Liquids. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

British Pitometer Co., Ltd., London. Venturi Meters and Recorders. Agents: Glenfield & Kennedy, Ltd., 198, Jamshedji Tata Road, Fort, Bombay 1.

C. G. E., Liege, Belgium. Agents: India Metal Agencies, P. Box No. 1966, Bombay 1.

Cleveland Meters Ltd., Yorkshire. Makers of Water Meters. Agents: Richardson & Cruddas, Ltd., Byculla, Bombay 8.

CONTIMETER, COMPAGNIE CONTINENTALE D'APAREILS, De Mesure, Bruxelles, Belgium. Manufacturers of Water Meters, Gas Meters and Geysers. Agents: Gaytee & Co., Jambhoomi Chambers, Fort Street, Bombay 1. Phone: 283448. Grams: "IMPENG."

Glenfield & Kennedy, Ltd., Kilmarnock. Inferential and Positive. Agents: Glenfield & Kennedy, Ltd., 198, Jamshedji Tata Road, Fort, Bombay 1.

Taylor of London Ltd., London, England. Water Meters, Waste & Cocks Fittings. Agents: John Fleming & Co. Private Ltd., Bastion Road, Fort, Bombay 1. Phone: 261153.

WATER PURIFICATION & SCALE PREVENTING DEVICES

Epuro Limited, Antwerp, Belgium. Water Purification Plants, Electro Magnetic Devices for anti-Calcareous treatment of Water, Sugar-cane Juice, etc. Contact: Ratanji Morariji Private Limited, Prospect Chamber, 317/21, Dr. Dadabhoi Naoroji Road, P.B. No. 1270, Bombay 1.

WATER TREATMENT CHEMICALS

I.C.I. LTD., "ALFLOC" Water Treatment Service, England. ("ALFLOC" Water Treatment Chemicals). Selling Agents: I. C. I. (India) Private Ltd., P.B. No. 310, Bombay 1.

WATER TREATMENT PLANTS

DUPER WATERREINIGING N. V., HOLLAND. Sole Selling Agents in India: Industrial and Allied Chemicals, National House, 6, Tulloch Road, P.O. Box 488, Bombay 1.

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Ashworth, E. & A. Ltd., Crown Engineering Works, Staincliffe Road, Dewsbury, Yorks, England. Scales & Weighbridges. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

WEIGHING MACHINES

Aktiebolaget Stathmos, Eklstuna, Sweden. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

WELDED STEEL WIRE FABRIC

British Reinforced Concrete & Engineering Co., Ltd., Lichfield Road, Stafford, England. Sole Agents: Heatly & Gresham, Ltd., 9, Forbes Street, Fort.

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A. I. ELECTRIC WELDING MACHINES LTD., Rose Street, Inverness, England. Representatives: James Finlay & Co. Ltd., P.O. Box No. 73, Bombay 1.

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AB Asea Svetsmaskiner, Stockholm, Sweden. Manufacturers of Electric Welding Equipment and Electrodes of all types. Representatives: Asea Electric India Private Limited, Yaffi Building, Goa Street, Ballard Estate.

Elektiska Svcningsaktiebolaget "ESAB", Sweden. Magnetic Crack Detectors, Welding Plants, etc. Agent: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

F. Bode & Sons Ltd., England. Welding positioners and fixtures for welding operation. Agents: Armstrong Smith Ltd., 1, Sir P. M. Road, Bombay 1.

New Process Welders Ltd., England. All Types of Spot Welders, Seam Welders, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Welding Supplies Ltd., England. Electrodes & Welding Plants, Magnetic Crack Detectors, and Gas Cutting Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

WINDOW & DOOR FITTINGS (TRANSPORT)

E. Hill Aldam & Co. Ltd., Britannic Works, Haslemere Avenue, London, S.W.18. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Williams & Williams, Ltd., Chester. Makers of Steel Window Frames. Agents: Richardson & Cruddas, Ltd., Byculla, Bombay 8.

WINDOWS FOR RAIL, ROAD AND MARINE TRANSPORT

Beckett Laycock & Watkinson Ltd., Acton Lane, London, N.W. 10. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

WINE & SPIRITS

Drumblie Liqueur Co. Ltd., 12, York Place, Edinburgh 1. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

Martell & Co., Cognac, France. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

Wm. Gaymer & Co., Ltd., Attleborough-Norfolk, England. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

WIRE BRUSHES

Gem Brushes (Inson) Ltd., Gem Works, Minerva Road, Park Royal Road, London, N.W. 10. Sole Agents: Datson, Raviraj & Co. (Private) Ltd., 43, Tamarind Lane, Fort, Bombay. Phone: 39333.

WIRES & CABLES

British Insulated Cables Ltd., London. Agents: Killick Nixon & Co., Private Ltd., Killick House, Home Street, Fort, Bombay.

WIRE PRODUCTS

Firth Co. Ltd., England. Mfrs. of High Carbon Basic and Acid Steel Wires and other Steel Products. Agents in India: Alsales Ltd., 9, Wallace Street, Bombay 1.

Pittsburgh Steel Products Co., Pittsburgh, U.S.A. Distributors: Manckini & Co., 166, Dr. Dadabhoi Naoroji Road, Bombay 1.

Richard Hill Ltd., England. Mfrs. of Spoke Wires, Roping Wire and 'Maxweld' Electrically welded screen cloth. Sole Agents in India: Alsales Ltd., 9, Wallace Street, Bombay 1.

Somerset Wire Co. Ltd., Somerset. Wire for Rope and Spring Making, Pre-stressed Concrete Wire. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Spott Road, Ballard Estate, Bombay 1.

WIRE ROPE MANUFACTURERS

Allan Whyte & Co., Ltd. (Unit British Ropes Ltd.), Glasgow. Wire Ropes. Agents: Shaw Wallace & Co., Ltd., 3, Wittet Road, Ballard Estate.

HALL'S BARTON ROPEY CO., LTD., 100, New Cleveland Street, Hull, England. Representatives: James Finlay & Co., Limited, P.O. Box No. 73, Bombay 1.

JOHN SEAW LTD., Workshop, England. Manufacturers of Steel Wire Ropes. Representatives for Bombay: Eastern Trading & Engineering Co., Alice Building, 3rd Floor, 339, Dr. Dadabhoi Naoroji Road, Fort, Bombay.

Thos. Holdsworth & Sons Ltd., Drighlington, England. Sole Agents in India: Anil Private Ltd., 57 Stock Exchange, New Building, Apollo Street, Fort, Bombay 1.

Whitecross Co. Ltd., England. Wire Ropes. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Wm. Jas. Glover & Co., Ltd., Lancashire, England. Agents: Keshavji Naraldas Jaliwala, 157, Abdul Rehman Street, Bombay 3.

Wrights Ropes Ltd., Steel wire ropes of all descriptions. Sole Agents: William Jacks & Co., Ltd., Hamilton House, Graham Road, Ballard Estate.

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CABLE COVERS LTD., Westminster, England. Manufacturers of "Talurit" Wire Rope Splicing Equipments. Representatives for India: Eastern Trading & Engineering Co., Alice Building, 3rd Floor, 339, Dr. Dadabhai Naoroji Road, Fort, Bombay.

WIRELESS TRANSMITTERS & APPARATUS

Nera, P.B. 4060, Pilestredet 75c, Oslo, Norway. Agents: E. W. Stevens & Co., Private Ltd., 4, Ballard Road, Bombay 1.

Radio Corporation of America, RCA Building, 30, Rockefeller Plaza, New York 20, N.Y., U.S.A. Agents: E. W. Stevens & Co., Private Ltd., 4, Ballard Road, Bombay 1.

Redifon Limited, Broomhill Road, London, S.W. 18, England. Agents: Hindco, 27, New Queen's Road, Bombay 4.

Robertson Radio-Elektro, P.O. Box 75, Egersund, Norway. Agents: E. W. Stevens & Co., Private Ltd., 4, Ballard Road, Bombay 1.

WOOD PULP

FINNISH CELLULOSE ASSOCIATION, 3 Esplanadgatan 2, Helsinki, Finland. Representatives: James Finlay & Co., Ltd., P.O. Box No. 73, Bombay 1.

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Pratchitt Brothers Ltd., Denton Ironworks, Carlisle, England. (Timber Impregnating Plant). Sole Concessionaires: Greaves Cotton & Co., Ltd., 1 Forbes Street, Fort, Bombay.

WOODWORKING TOOLS, SAWS & FLOUR MILLING MACHINERY ETC.

Albert Fezer, Germany. Spindle Moulding Machines and Other Wood Working Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

ELSWORTH LTD., Sheffield, England. Manufacturers of Woodworking Saws and Woodworking Tools. Agents: Gaytee & Co., Jammabhoemi Chambers, Fort Street, Bombay. Phone: 263449. Grams: "IMPENG."

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Mafell Maschinenfabrik, Germany. Powerful Portable and Stationary Woodworking Machines, like Saws, Routers, Jointers, Planers, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

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Sheffield & Halamshire Hacksaw Co., Ltd., Sheffield, England. Agents: Keshavji Naraldas Jaliwala, 157, Abdul Rehman Street, Bombay 3.

Taylor, Brothers (Saws) Ltd., England. Representatives: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

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Lawler Ayers & Co. Ltd., England. Hydraulic Head Operated Tube Bending as well as power operated Bending & Cutting Machinery for Pipes & Bars. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

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Rose Bros. (Gainsborough) Ltd., Gainsborough, England. Wrapping & Packing Machines for all purposes, etc. Sole Representatives: W. H. Brady & Co., Ltd., 12 14, Veer Nariman Road, Fort, Bombay 1.

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F. Kanematsu & Co., Ltd., Osaka, Japan. Woollen Worsted Yarns. Agents: Darahimal Tandon & Co., Victoria Building, Parsee Bazar Street, Bombay 1. Phone: 254995.

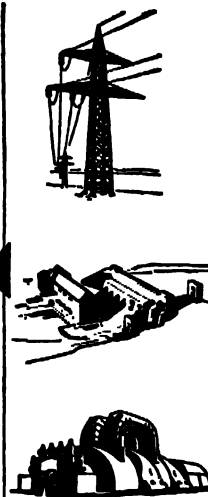


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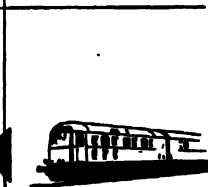
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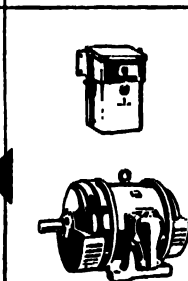
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Street, Bombay 3. Phone No. 72598.
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Managing Agents: Walchand & Co.
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Advance Industries, 11, Tinwala Bldg.,
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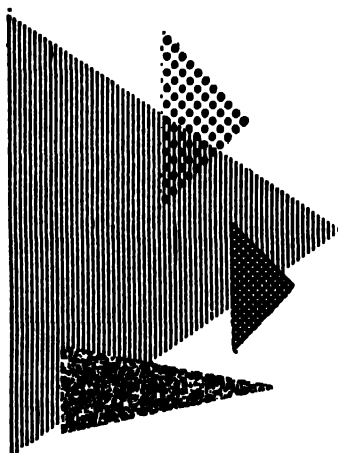
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Telephone Nos.: 261741-42.

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Local Office: "Electricity House," Lal Darwaja, P.O. Box No. 37, Ahmedabad (ref. Ahmedabad Section.)

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BOLTON FINE ART LITHO WORKS, 274, Tardeo Road, Bombay 7. Offset Colour printers of posters, Show Cards, Pictures, Calendars, Labels, Boxes, Playing Cards, Insurance Policies, Cheque Books etc. Estd. 1909. Phones: 41614, 76287. Grams: "BOLTONLITHO".

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London: 12, A. Kingsway, London W.C. 2.

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Bombay Ammonia & Refrigeration Co., Ltd., Ice making and cold storage engineers. Bazar Gate Street, Bombay 1.

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Phone No. 26-3031 (Seven lines).

Post Box 1081, Bombay.

Bombay Co-operative Insurance Society Ltd., Co-operative Insurance Building, Sir Phiroozshah Mehta Road, Fort.

Bombay Crystal Ice Works, No. 179, Love Lane, Victoria Gardens Post, Bombay 27.

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Bombay Industries, Kamar Building, Cawasji Patel Street, Bombay; Phone: 252846.

Bombay Letter Foundry Ltd., Type Founders & Printers' Providers, 7A, Nickadwary Lane, Kandewadi, Girgaum, Bombay 4.

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Bombay Safe Deposit Company, Ltd., Forbes Building, Home Street, Fort. Directors: Sir Purnohandas Thakurdas, K.B.M., C.I.E.; Sir Jamssetjee Jejeebhoy, Bart.; F. H. Kemple (*ex-officio*); The Hon. R. D. Campbell and Mr. M. R. Chinoy. Phone No. 268083.

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Local Office: Electricity House, Santa Cruz (East).

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Boulton Trading Corporation, Electrical Materials & Machinery Merchants, 112, Meadows Street, Bombay 1.

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Boyce & Co., 38, Fort Street, Fort, Bombay. Phone No. 263619. Mines & Minerals & General Merchants and Cinema Proprietors, at Belgaum. Phone No. 26.

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British Commonwealth Insurance Co., Ltd., Gresham Assurance House, Sir Phiroozshah Mehta Road, Fort. Phone No. 255088.

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Head Office:—BOMBAY: Imperial Chemical House, Ballard Estate, Bombay 1. Post Box No. 1841. Phone No. 26-3138 & 263130 (2 lines).

Branches at:—

CALCUTTA: 58/D, Chowringhee Road, Calcutta 16, P.O. Box 9024. Phone No. 44-5680.

MADRAS: 99, Nynlappa Nalck Street, Park Town, Madras 3. Phone No. 4371.

DELHI: P.O. Box 1150, Harbans Singh Street, 24, Daryaganj, Delhi. Phone: 25772.

GRAMS: "Tetradome", Bombay, Calcutta, Delhi & Madras.

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BRITISH METAL CORPORATION (INDIA) PRIVATE LTD., THE, Importers of all Non-Ferrous Metals and Stockists of a wide range of Minor Metals. Exporters of Mineral Ores and Concentrates—Jute goods and Vegetable Oils. Bombay Office: Steelcrete House, Dinsha Vachha Road, Bombay 1. Phone: 37826. Grams: "BRI-METACOR." Regd. Office: United India Life Bldg., 22, Chittaranjan Avenue, Calcutta. Phone: City 235246. Grams: "BRIMETACOR."

BRITISH PAINTS (INDIA) LTD., Manufacturers of Paints, Varnishes, Enamels, etc., Steelcrete House, Dinsha Vachha Road, Bombay 1. Phone: 37837. Grams: "APEXIOB."

British Steel Piling Co. (India), Private Ltd., The, Hamilton House, Ballard Estate, Bombay 1.

Brooke Bond India Private Ltd., Gresham Assurance House, 91r Phirozshah Mehta Road, P. O. Box 271, Bombay. Phone No. 253527. Grams: "BLENDERS."

Brough & Philippott (India), Private Ltd., Kaiser-I-Hind Building, Currimbhoy Road, Ballard Estate, Bombay.

Budroodih Mahomedally & Sons, Provisions, Patent Medicines & General Merchandise, 238, Nagdevi Street, Bombay 3. Phone: 22235. Grams: "BIEMSONS."

Bunge & Co., Limited (Incorporated in England with limited liability), Himalaya House, Palton Road, Bombay 1.

BURMAH-SHELL OIL STORAGE & DISTRIBUTING CO. OF INDIA LTD.

(Incorporated in England)

Importers and Distributors of Petroleum Products.

GENERAL MANAGER'S OFFICE

Burmah-Shell House, Currimbhoy Road, Ballard Estate, Bombay.

Grams: "KEROPET."

Phone No. 269061 (10 lines).

Post Box No. 688.

BOMBAY BRANCH

Burmah-Shell House, Ballard Estate, Bombay No. 1.

Grams: "BURMAHSHEL."

Phone No. 268281 (20 lines).

Post Box No. 193.

BOMBAY DIVISIONAL OFFICE

Royal Insurance Building, 14, Jamshedji Tata Road, Churchgate, Bombay.

Grams: "BURMAHSHEL."

Phone No. 268281 (20 lines).

Post Box No. 612 A.

BURMAH-SHELL REFINERIES LTD.

(Incorporated in India)

★

Administrative Office,
Burmah-Shell Refineries
Site,
Trombay.

★

Grams: "BESREFIN"

Phone No. 62221 (10 lines)

Post Box No. 1725

BOMBAY

BURN & COMPANY, LTD., Managing Agents: Martin Burn Ltd. *Head Office:* 12, Mission Row, Calcutta. *Bombay Branch:* Esplanade House, Waudby Road, Bombay. Phone: 264102. Grams: "BURNBOM".

BURROUGHS WELLCOME & CO. (INDIA) PRIVATE LTD., Manufacturing Chemists.

Registered Office:

16, Bank Street.

P.O. Box No. 290, Bombay 1.

Tel. Address—"Tabloid," Bombay.

Telephone No. 255339.

City Sales Office:

Jannabhoomi Bhavan, Ghoga Street, Fort Bombay 1.

Works: 88-C, Old Parbhadevi Road, Bombay 28. Phone No. 61968.

Byramjee Jeejeebhoy & Co., Alice Building, 3rd Floor, Hornby Road, Fort.

BYRAMJI & CO., T., Merchants and Manufacturers' Representatives. Central Bank Building, Fort, Bombay. Phone: 251406. Grams: "SWEETSMILE." *Bombay. Codes:* Bentley's. A.B.C. and all standard commercial codes. Partners: T. Byramji and Dhun T. Byramji.

CADBURY-FRY (INDIA) PRIVATE LTD., Manufacturers of Cocoa, Chocolate & Bournvita. "Cadbury House", 19, Bhulabhai Desai Road, Bombay 26. Phones: 75350, 75358 & 75359. Grams: "CADFRY."

Calcutta Essence Supply Co., Dealers & Importers of Essential Oils, Aromatic Chemicals & perfumery compounds. Mulchand Mansion, 1st Floor, Princess Street, Bombay 2. Grams: "Supralux." Phone No. 22623. Agents for Industrial Perfumes Private Ltd., for Bombay State (Except Bombay city) and West Bengal including Calcutta.

C. PRAVINCHANDRA & CO., Manufacturers of "CIPCO" Brand 85 per cent Asbestos Magnesia & other Lagging Products; 56/48, Bhabha Bldg., 2nd Floor, Masjid Bunder Road, Bombay 3. Phone: 71337. Grams: "SNOWDROP"; Factory: 5, Quay Street, New Plot, Darukhana, Bombay 10.

CALCUTTA IRON & STEEL CO. PRIVATE LTD., Shipchangers & General Hardware Merchants; Dealers in Chain Pulley Blocks, Wire Ropes Crab Winches, Sluice Valves, Reflux Valves, Wheel Valves, Wire Rope Cutters, Carbon Tool Steel, Pneumatic Hose Pipe, Brass Rods, Foot Valves, Steel Flanges, Rope Pulley Blocks and all sorts of pipe fittings, etc.; 68/D, Mahomedali Road, Bombay 3. Grams: "RIVETBOLT". Phone: 22182. Calcutta Office: 65/A, Netaji Subash Road, Calcutta 1. P.O. Box No. 179. Phone: 22-4744. Grams: "FLATS".

C. Agrawal & Co., Ltd., Dyestuffs, Chemicals & Pharmaceutical dealers, 43-44, Lakshmi Bldg., Sir P. Mehta Road, Bombay 1.

CALTEX (INDIA) LIMITED, Distributors and Marketers of Caltex Petroleum Products—Petrol, Kerosene, Powerkero Diesel Oils, Furnace Oil, Caltex RPM Motor Oils, the full range of Lubricating Oils and Greases, Asphalts and Road Surfacing Materials, etc.

District Offices at Bombay, Calcutta, Madras and New Delhi.

Sales Offices at Ahmedabad, Bangalore, Coimbatore, Indore, Jaipur, Lucknow, Madurai, Nagpur, Patna, Poona and Secunderabad.

General Office: Caltex House, 8, Ballard Road, Ballard Estate, Bombay 1.

Telegrams: "Caltex."

Phone No. 26-8031 (10 lines).

Managing Director:—J. R. Price.

General Manager:—H. D. Dennis.

Marketing Department.

Manager, Marketing: R. E. M. Mayne.

Operating Department.

Manager, Operations: R. J. Vlado.

Accounting Department.

Manager, Finance & Accounting: R. B. Brown.

Chief Accountant:—R. G. Marshall.

Bombay District Office.

District Manager:—R. W. Mann.

Installations:

Kerosene Installation, Sewree. Phone No. 62565/6. Petrol Installation, Wadala. Phone No. 61185. Furnace Oil Installation, Ifay Bunder. Phone No. 74802. Lube Oil Plant, Ifay Bunder. Phone No. 75817.

CALTEX OIL REFINING (INDIA) LTD., Registered Office: Caltex House, 8, Ballard Road, Ballard Estate, Bombay 1.

Refinery Address: Caltex Oil Refining (India) Ltd., Post Bag 145, Visakhapatnam 1, Andhra State.

Managing Director:—J. R. Price, Bombay.

Director & Refinery Manager:—D. M. Berdine, Visakhapatnam.

Director Secretary:—R. B. Brown, Bombay.

Director:—R. L. Davis, Visakhapatnam. Director:—L. Chapman, Visakhapatnam.

BOMBAY VISAKHAPATNAM
Grams: "CORIL" "CORIL"
Phone: 26-8031 616

CAMA, NORTON & CO., Importers and Manufacturers' Representatives of Pharmaceutical and Printing Materials. Cama Chambers, 23, Meadows Street, Phone No. 255354. Telegrams: "Camanorton."

CAMBATA INDUSTRIES PRIVATE LIMITED, "Cambata Building", 42, Queen's Road, Bombay 1. Telephones: 37191 (5 lines). Grams: "COALPITS". Branches:—New Delhi, Calcutta, Madras.

Sole Agents in India for:

American Machine & Foundry Co., Rust-Oleum Corporation, Miller Aircraft Corporation and Photo Tool Co.—U.S.A. Ruhrthaler Maschinenfabrik Schwarz & Dyckerhoff, K.G., ED. Breitenbach, G.m.b.H., And GEBE. Hilgeland—West Germany; Hamworthy Engineering Ltd., and International Plastics (Engineering) Ltd.—England.

Import:—Tools, Helicopters, Rust-Oleum, etc.

Export:—Iron Ore, Manganese Ore, etc.

Camlin Private Ltd.; Office. 210, Lady Jamshedji Road, Bombay 16. Phone: 61158. Grams: "CAMELINK". Factory: Off Andheri-Kurla Road, Bombay 43.

C. B. Contractor & Co., Mill gin, pipe fittings & Hardware Merchants. 82, Nagdevi Cross Lane, Bombay 3.

C. Vadilal & Co., Mill gin & Hardware Merchants 40, Nagdevi Cross Lane, Bombay 3.

CANDY FILTERS (INDIA), PRIVATE LTD., Forbes Building, Home Street, Fort. Hydraulic Engineers and Purification Specialists, Gravity and Pressure Filter Installations, Chlorinators, Ammoniators, Water Softeners, Chemical Dosing Apparatus, Water Testing Equipment. Telegrams: "Pontifex". Bombay. Telephone No. 26-8081, Bombay.

CAPCO PRIVATE LTD., Importers of and Dealers in Dyestuffs, Chemicals, Pharmaceuticals. Head Office: 14, Netaji Subhas Road, P.O. Box 2301, Calcutta 1. Grams: "CAPCO-DYKES". Phones: 22-2862/3.

Bombay Offices: Dyes & Chemicals Dept.: Co-operative Insc. Bldg., Sir Phirozshah Mehta Road, Bombay 1. Phone No. 255641. E. Merck Dept. 15, Cowasji Patel Street, Bombay 1. Phone No. 255259.

Branches: Ahmedabad, Kanpur, Delhi, Madras, Mathurai, Salem, Secunderabad, Vijaywada, Cochin.

Capitol Electric Co., Electrical Goods, Importers, Stockists and Contractors, 112, Marine Manalon, 1st Marine Street, Bombay 2.

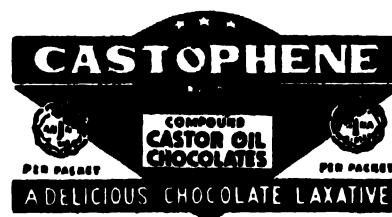
Caprihans (India) Private Ltd., Manufacturers of 'SUN' brand P.V.C. Sheets and Films, Auto-Seat Covers, Janmahoomi Chambers, Fort, Street, Bombay 1. Phone: 26-2810. Grams: "CAPRIHANS". Branches: New Delhi and Calcutta.

Cardboard Suppliers, 6, Tank Street, Surti Mohalla, Bombay 8. Phone: 41718; Grams: "RAOOF"; Dealers in Grayboards manufactured by Western Paper & Board Mills Private Ltd., Vikhrol.

CARGO INSPECTORS & SUPERINTENDENCE CO., PRIVATE LTD., Alice Buildings, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone: 255771. Cable: "WAUDCO"—Bombay.

Carona Shoe Co., Private Ltd., Mfrs. of Canvas and Rubber Shoes, Velvet Chappals and Multi Coloured Children Shoes, 143, Mahatma Gandhi Road, Fort, Bombay 1.

Casimnath M. B. Eduljee Sons, Stavedores, Dubashes to Messrs. Lloyd Triestino S. N. Co., & M/s. Volkart Bros., 17, Bastion Road, Fort, Bombay. Phone: 261657.



CASTOPHENE MANUFACTURING CO. Manufacturers of Fine Household Remedies, such as Castophene Laxative, Caprin, Gripe Mixture, Cough Syrup and Tablets, Ointments, etc., 85, Dr. Annie Besant Road, Worli, Bombay 18. Phone: 72456. Grams: "CASTOPHENE". Branch at Delhi 6, and Agencies throughout India.

Cawasji Behramji & Co., Shipchangers, Dubashes, Importers, Exporters and General Merchants, City Ice Building, 208, Bazar Gate Street, Fort, Bombay. Phone No. 252497.

CAWNPORE MILLS DEPOT. (Departmental Stores), General Merchants and Mill Agents, "Churchgate House," Veer Nariman Road, Fort, Bombay. Telegraphic Address: "Tapestry." Phone No. 253433.

Proprietor: Hanaraj Laxmidas.

C. Bole & Co., Dealers in Machinery and Engineering Stores such as Lathes, Drills, Shaping, Milling, Planing Machines and Engineering tools. Sole Agents for precision Tools and Instruments manufactured by C. Stiefelmayer, Esslingen, West Germany, 61, Narayan Dhuru Street, Bombay 3.

THE CEMENT MARKETING CO. OF INDIA PRIVATE LTD.

Address: "Cement House", 121, Queen's Road, P.O. Box 572, Bombay 1
Telegrams: "CEMENT"
Telephone: 242001 (4 lines)

Branches at: New Delhi, Kanpur, Patna, Calcutta, Madras, Coimbatore, Bangalore, Secunderabad (Dn.), Ahmedabad and Indore.

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General Manager:

Dr. F. P. Antia.

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Executive Head:

M. C. Captain, Esq.

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Publicity Department:

P.O. Box No. 1753.

Telegrams: "CEMPUB."

Executive Head:

M. H. Engineer, Esq.

Also see the Concrete Association of India.

CEMENTATION COMPANY LTD., THE. Civil Engineers & Contractors. Steelcrete House, Dinshaw Vachha Road, Bombay. Phones: 36268 & 37923. Grams: "GROUTING."

CENTRAL AGENCY LTD., THE. Selling Agents of J. & P. Coats, Ltd., Lightning Fasteners Ltd., Jumna Thread Mills, Private Ltd., etc., selling sewing cotton and embroidery thread, hand sewing needles and slide fasteners, etc. *General Manager:* J. Thomson, *General Sales Manager:* G. B. Mathison. *Bombay Branch:* 81, Faltan, Road, Fort, Bombay 1. Phone Nos. 28-1924 and 28-1925. Post Box No. 280. *Manager:* A. K. Morton. *Delhi Branch:* Gartin, Bastion Road. Phone No. 26804. Post Box No. 1091. *Manager:* M. D. P. Whiteford. *Madras Branch:* 19, Vanlar Street. Phone No. 3568. Post Box No. 273. *Manager:* C. J. Korula. Tel. Address for all Branches: "SIXCORD."

CENTRAL AUTOMOBILES PRIVATE LIMITED

466, Sandhurst Road, Bombay 4.

Phone: 72866. Grams: "CENTALAUTO"

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of

MOTOR PARTS & ACCESSORIES DISTRIBUTORS IN INDIA

for

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Central Ice & Cold Storage Co., Largest Cold Storage in Bombay, Saboo Sidick Road, Crawford Market, Bombay.

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Phone: 38586. Grams: "DRILLHOUSE".

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CENTRAL TOOL & EQUIPMENT COMPANY

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Engineering Stores, Tools, Pipes and Pipe Fittings, Mill and Gin Stores.

Address: 32, Sarang Street, Bombay 3. Phone: 22784. Grams: "CENTREC".

Chaganlal (India) Imports, Importers & Manufacturers' Representatives, New Iron Market, Argyle Road, 'Arnac Bunder, Bombay 9. Grams: "CONTRACTS". Phone No. 20751. Importers of and Indenting agents for Iron & Steel of all Types.

Chhaganlal Kasturchand & Co. Ltd., Importers & Exporters. Lalsing Bldg., Sheikh Memon Street, Bombay 2.

Grams: "ELEGGOODS". Phone: 38836.

CHAMPAKLAL & COMPANY

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Importers, Wholesale Distributors and Government Contractors of Electric Wiring Materials, Wind-ing Wires, Insulating Materials, Switchgear, etc.

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Chandulal & Co., Kathawala. Dealers in all kinds of Coir Ropes, Manila Ropes, Coal Tar, Pitch, Hardware, etc. General Merchants and Commission Agents, 11, Kazi Sayed Street (Shalk Gully), Bombay 9. Grams: "Cordocor." Phone: 71298.

CHANDULAL MEHTA & CO., PRIVATE LTD., Oldest House for everything in Automobile spare parts, tools, Garage Equipment. New Queen's Road, Bombay 4. Phone: 22191. Grams: "ROMOILS."

Branches:— Deffiance Automobiles, Siddambar Bazar, Hyderabad-Dn. Gram: "DEFIANCE". Phone: 4780. Spare parts Specialists; Mehta Mahal, James Street, Secunderabad-Dn. Studebaker, Baby Hindustan, Land Rovers; Hyderabad Auto Service, 49, Mahatma Gandhi Road, Secunderabad-Dn. Grams: "ROMOILS" Bricovmo G. M. Spares Autolite Ferodo, etc.

Chemical Moulding Manufacturing Co. Private Ltd., (Chemould), Manufacturers of Picture Frames (mouldings), Shapur Bang, Marol, Bombay 41. Phone: 86345.

Chemicals & Machinery Private Ltd., Hamam House, Hamam Street, Fort, Bombay.

Chemicolour Private Limited, Kasturi Buildings, Jamshedji Tata Road, Bombay 1.

CHEMO-PHARMA LABORATORIES LTD., THE. Manufacturers of Ethical Pharmaceuticals, and Fine Chemicals. Offices: 75, Dr. Annie Besant Road, Worli, Bombay 18. Phone: 76952. Factory: Plot No. C 8 215 Sewri, Bombay 15. Phone: 63231. Grams: "CHEMOLABS". Managing Agents: Nadkarni & Co.

CHESEBROUGH-POND'S INC. (Incorporated in U.S.A. with Limited Liability.) 13, Gunbow Street, Fort, Bombay. "Vaseline" Brand Products, Pond's Creams and other famous toilet requisites. Phone: 261078. Grams: "VASOPONDS".

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CHHAGANLAL KASTURCHAND & CO. (PRIVATE) LTD., Importers & Exporters, Lalsing Building, Sheikh Memon St., Bombay 2. Phone: 22011 & 22012. Grams: "ANTOTRAM".

Chhaganlal Keshavjee (Estd. 1915), Stationer and Printer, 22-A, Parsee Bazar Street, Fort, Bombay. Phone No. 259008. Tel. Address: "STAPRI."

CHIKA PRIVATE LIMITED, Industrial Assurance Building, opp. Churchgate Station, Bombay 1. Phones: 242291, 242292 and 242293. Grams: "DYE-COLD." Supplying Dyes, Chemicals, Plant protection products & Synthetic Fibres manufactured by Farbenfabriken Bayer A. G., Germany, Chemicals, Solvents & Plastic Raw Materials by Chemische Werke Huels A. G., Germany, Gums & Desizing Agents by Diamalt A. G., Germany.

CHIMANLAL DESAI & CO., Manufacturers' Representatives of Auto & Radio Parts, Patent Medicines, Drugs & Chemicals, Hardwares, Mill Stores, Electrical Accessories, Cycles & Parts, Zinc Sheets, Cinema Carbons, Photographic Process Carbons, Codliver Oil, Sundries, etc., and exporters of Cotton Piece-goods, Handloom Cloth, Spices, etc. to Middle-East, Africa and other countries. Distributors and Stockists of important imported items. Manufacturers of Gasket Shellac Compound, Motor Car Batteries, Cycle Parts and Wire netting.

Telephone: 252341-42 (Two Lines).

Telegrams: "SYSTEMATIC."

Head Office: Gool Mansion, Homji Street, Fort, Bombay. *Branches:* Calcutta, Madras, New Delhi, Rangoon and Colombo.

CHIMANLAL MANGHAND & CO., Leading State Jewellers and Central government appointed Jewellery Valuers. Importers, Exporters & Dealers in precious Stones and manufacturers of exclusive & artistic jewellery. *Show Rooms:* Opp. Opera House, New Queen's Road. Phone No. 30321. Grams: "PLATINUM."

CHIMANLAL PAPER CO., Importers of High Grade Papers, Boards & Mill Representatives. Bombay Mutual Building, Dr. Dadabhai Naoroji Road, Fort, Bombay. Tel. Add.: "SELECTION." Phone Nos. 263232 and 88260 (Residence).

CHIMANLAL POPATLAL MINAWALA

Art Jewellers
Manufacturers of Gold, Enamel and Diamond Ornaments.

255, Zaveri Bazar, Ghia Mansion, Bombay 2

Phone: 28352. Grams: "GOLDENAMEL"

Chimanlal Shah & Co., 3-D, Mangaldas Road, Mangaldas Market, Bombay 2. Phone: 23885.

CHIMANLAL VRAJLAL & CO.*Stockists of:—***IRON, STEEL & HARDWARE.**

Latif House, Iron Market, Bombay 9.

Phone : 30963.

CHINESE ENGINEERING WORKS,
Licencees for Hughes & Merewether Dry
Docks, Welders & Ship Repairers, Tank
Erectors, 381, Reay Road, Bombay 10.
Phone : 40833.

CHINYOY, F. M., & CO. PRIVATE LTD.
Directors of the Firm:— Sir Sultan M.
Chinoy, Kt., Chairman; Dostmahomed
F. Chinoy; Habib N. Chinoy, Joint
Managing Director; Mahommedhusain
R. Chinoy, Joint Managing Director;
Ebrahim D. Chinoy.

Managing Agents:—

The Bombay Garage Private Ltd.,
Bombay; The Bombay Garage
(Poona) Private Ltd., Poona. Grams:
"FRIENDSHIP," Bombay. Phone
No. 77121, Bombay, P. O. Box No.
560, Bombay 1.

Chinubhai Kalidas & Bros., Bombay Mutual
Chambers (3rd floor), 19 21, Hamam St.,
Bombay : Phone : 251025.

Chloride & Exide Batteries (Eastern) Private
Ltd., Savoy Chambers, Wallace Street,
Fort, Bombay. Tel. Address : "Chloride."
Phone No. 262188 (2 lines). G. P. O. Box
No. 382. Calcutta Office : 59-C, Chow-
ringhee Road, Calcutta 20.

General Manager : H. R. Gregson.
Bombay Manager : H. Bebbington.
Calcutta Manager : H. V. Russell.
Madras Representative : K. Knight.
Delhi Representative : S. C. Basu.

CHOKSI BROTHERS PRIVATE LTD.Importers of Photo, Cine & Process
Materials, Mounts & Albums Manu-
facturers.

Head Office : Western India House,
Sir P. Mehta Road, Fort, Bombay 1.
Branches : 5/17, Dinroze Estate,
Mount Road, Madras 2.
66, Ganesh Chandra Avenue,
Calcutta 13.

Choksi Brothers, Direct Importers of
Electroplating Materials, Kanji Mansion,
315, Sandhurst Road, Bombay 4.

CHOONILAL MANILAL PRIVATE LTD.,
4th Floor, Yusuf Building, Veer Nariman
Road (Churchgate Street), Fort. Coal Mer-
chants, Landing and Bunkering Con-
tractors and Scrap Iron Merchants.

Directors:—

Choonilal Girdharlal (Chairman).
Bhogilal K. Patel.

All Humza.

Shantilal Choonilal.

Harshadkant Choonilal.

Partner, Scrap Iron Department:—
All Humza.

Managing Agents:

Estrela Batteries Ltd.

Bombay Representatives for:—

Cory Brothers & Co., Ltd., London.
Tel. Address : "CHOONIMANI". Phone :
255161 (3 lines).

Chotani Electric & Engineering Co.,
Private Ltd., Electrical Engineers, Con-
tractors, Machinery Importers and Manu-
facturers' Representatives; Stockists of
Simplex Steel Enamelled Conduits, Con-
duit Fittings and Accessories, Hardware,
paint machineries, etc. "Creda" Electric
Heating and Cooking appliances; Sole
Proprietors: The Battery Services Station,
New Queen's Road, Office and showrooms,
57, Apollo Street, Fort, Bombay. Post
Box No. 788, G.P.O., Bombay; Home
and Foreign Telegraphic Address:
"INSTALL," Bombay; Phone No.
253300. Codes : A.B.C. 5th & 8th Edition
and Bentley's.

CHOTIRMALL & CO., K.A. J., Importers,
Exporters of Piecegoods of all descriptions,
501, Kalbadevi Road, Bombay 2. Phone
Nos. 39582 (Manager), 39583 (Office).

CHOWGULE & CO. (HIND) PRIVATE
LTD., 5th floor, India House, Fort Street,
P.O. Box 1478, Bombay 1; Phone : 201021
(3 lines). Grams : "CHOWGULECO".

Directors:— Prataprao D. Chowgule,
Shivajirao D. Chowgule.

Sole Importers & or Agents:— Bayer—
Handelsgesellschaft, Leverkusen—
Pharmaceutical Specialties & Drugs;
Fuji Photo Film Co. Ltd., Tokyo
Sensitised Photographic Materials;
Chemische Werke Albert, Wiesbaden—
Synthetic Resins & Chemicals; Several
Manufacturers of Production Machi-
nery and Machine Tools.

Branches:— 7, Chittaranjan Avenue, P.O.
Box 8043, Calcutta 13; 7 90, Wallajah
Road, Mount Road, P.O. Box 3738,
Madras 2; M-8, Connaught Circus,
P.O. Box 486, New Delhi.

Chunilal & Co., General Cotton Waste
Merchants & Exporters, 100, Old
Hanuman Lane, Bombay No. 2. Tel.
Address : "Millwaste."

Chunilal & Co., Expanded Metal, Zinc
Sheet, Mono Metal and Stainless Steel
Merchants. Opp. State Bank, 74,
Abdul Rehman Street, Bombay 3. Phone:
27710. Grams : "HIRCHUNGI".

Chunilal & Co., Diamond, Pearl & Jewellery
Merchants, 17-19, Dhanji Street.

Chunilal Gupta & Co., Transport Con-
tractors, Nr. Dongri Bridge, Wadi Bunder,
Bombay 9.

CHUNILAL KHANNA & CO., Govt. &
Rly. Contractors. Saraswati Nivas, Tha-
kurdwad Road, Bombay 2.

CHUNILAL MULCHAND & CO., Waterloo
Mansion, Mayo Road, Fort, Bombay.
Phone No. 35515. Grams : "Muircom."

*Partner:—*R. C. Kapadia.*Manager:—*J. C. D'Souza.*Accountant:—*S. C. Shah.

Chunilal Ralchand, Electrical Goods
dealers. Lalsingh Bldg., Lohar Chawl,
Bombay 2.

Cine Agency (India), Parekh Building, 18,
New Queen's Road, Bombay 4.

Cine Sound Equipments, Cinema machinery
& Accessories, 470, Sandhurst Road,
Bombay 4.

Cinerama Private Ltd., Cinema machinery
532, Sandhurst Bridge, Bombay 7. Phone :
75412. Grams : "AGAR".

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Holden Ltd., Manchester (England).
Manufacturers of "Manox" Sodium
Hydrosulphite, and Societe Rapldase,
Seclin (France), Manufacturers of
"Rapidase", Textile De-Sizing Agent.
Office: Royal Insurance Building,
Jamshedji Tata Road, Churchgate
Reclamation, Bombay 1. Tel. Address:
"CIBA". Phones : 37184-87. Post Box
470. Codes used : Universal Trade, Ben-
tley's Second Phrase. Sales Office at
Almedabad.

CIBA Pharma Private Limited,
Sole Suppliers for India, for the
products of CIBA Ltd., Basle
(Switzerland). Manufacturers of
Pharmaceutical specialties, cosmetics,
etc. Royal Insurance Building, 14, J.
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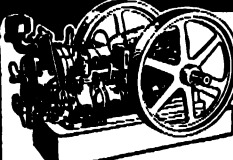
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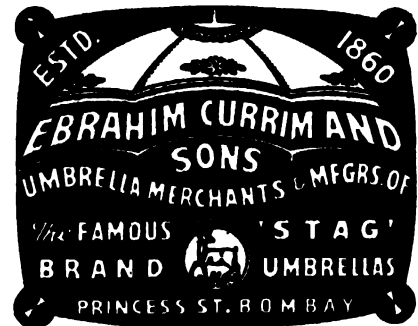
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1, Bhauvar Kuva Road, Indore City.
Phone: 6552. Grams: "TILES."

HINDUSTAN WIRE NETTING CO., PRIVATE LTD. Manufacturers of Wire Gauze, Hexagon Wire Netting, Galvanized Chain Link Fencing, Galvanized Stranded Stay Wires, Galvanized Signal Wire, Stranded Copper Conductors and Panel Pins. **Works:** Agra Road, Thana. **City Office:** 55/57, Nagdevi Cross Lane, Bombay 3. Telegrams: "Wiregauze," Bombay. Phone: 34008.

Hindustan Co-operative Insurance Society Ltd., Bombay, Commissariat Building, Hornby Road, Fort.

Hindustan General Insurance Society, Ltd., Bombay, Area Office: Commissariat Building, Hornby Road, Fort, Bombay.

HINDUSTAN PLASTICS LTD., Manufacturers of JAY BUTTONS—washable, durable, unbreakable and iron proof. First manufacturers of NYLON COMBS in India. Specialists in the manufacture of industrial and electrical goods and advertising, display and decoration articles. Also combs, toys, soap boxes, bowls and similar household articles.

Office: Podar Chambers, Fort, Bombay 1. Telephone No. 259261. Telegrams: "ELECTRA."

Hira, P. H., & Co., 18-20, Princess Street, Bombay 2. Phone: 29489. Grams: "Perfumes." **Agents for—**Westminster Laboratories Ltd., London, Houbigant, Paris, France; Perfums Cheramy, Paris, France. **Branches:** Calcutta, Madras & Delhi.

Hiralal & Co., 2, Vithaldas Road, Near Mangaldas Road, Bombay 2. Phone: 34525. Grams: "WEBSAW". Specialists in saw mill stores and Planing knives & Cutters.

Hiralal Panchand & Co., Exporters, Importers & Tobacco Commission Agents. Jai Hind Estate, No. 1, 2nd Floor, Cathedral Street, Bhuleswar, Bombay 2.

Hiscocks & Co., E., Bakery & Dairy, "Win Villa," 23, Clare Road, Byculla, Bombay 8.

H. Moonchand & Co., 25, Parsee Bazar Street, Bombay 1.

HOARE MILLER & CO. LTD., Head Office: 5, Fairlie Place, P.O. Box No. 63, Calcutta 1. Phone: 22-4801-8 (8 lines). Grams: "HOARMILLER."

Branch Office: "Readymoney Terrace", Dr. Annie Besant Road, Worli, Bombay 18. P.O. Box No. 6567. Phones: 77421-2 (2 lines), 76363 & 40204. Grams: "HOARMILLER". **Manager:** W. Abraham. **Madras Office:** Catholic Centre, Armenian Street, Madras 1. Phone: 2640. Grams: "HOARMILLER".

Hoechst—Fedco Pharma Private Ltd., Mafatlal House, Backbay Reclamation, Bombay.

HOLLERITH (INDIA) (PRIVATE) LIMITED—P.O. Box 516, Bombay 1.

Hollerith Electronic and Electro-mechanical Punched Card Accounting machines. **Head Office:** Fazalbhoy Building, Mahatma Gandhi Road, Bombay 1. **Resident Directors:** R. R. Rula, Murarji J. Valdiya and D. H. F. Arcourt-Rippingale (*Director and General Manager*). **Secretary and Chief Accountant:** L. C. Mehta. **Sales Manager & Assistant General Manager:** J. S. Redwell. **Chief Inspector:** L. J. O'Carroll. **Works:** Hay Bunder Road, Sewri. **Branches:** Bombay, Calcutta, Delhi, Madras, Bangalore and Lucknow. **West and South Regional Office:** Liberty House, New Marine Lines, Bombay 1. **Regional Manager:** M. N. Bhagwat. **District Office:** Mistry Bhawan, Dinsha Wacha Road, Bombay 1. **District Manager:** G. K. Sahasrabudhe. **Telephones:** Head Office: 252243-44; Regional Office: 241982; District Office: 35086. **Works:** Sewri: 75408. **Telegraphic Address:** "Tabulorial."

Hoosaini Co., Mount Road, near Hasanabad Horse Stable Compound, Mazagaon, Bombay 10.

Hoosain, M. A., & Bros., Agents and Importers of Cotton, Rayon & Nylon yarns, Iron & Steel and their products, Pipes and Fittings and non-Ferrous Metals, Hardware & Building materials, Papers and Boards, Mill accessories, Dyes, Chemicals, Exporters of Indian Cotton Piece-goods, Yarns and all sorts of merchandise. **Lakshmi Building, Sir Phiroozshah Mehta Road, Fort.** Tel. No. 26-2166/67. Tel. Add.: "Tropicals." **Branch:** Calcutta.

HOOSAINBHAY A. LALLJEE SONS & CO., Navsari Bldg., Dadabhoy Naoroji Road, Bombay 1. Phone: 262052. Grams: "FLOWERMEAD".

Importers of: Dyestuffs, Chemicals, Textile Auxiliaries etc.

Exporters of: Vegetable Oils, Oil Seeds, Oil cakes and miscellaneous.

Hormasji Ardeshir & Co., Partners: Hormasji Ardeshir, F.I.A., M.I.E. (Ind.), L.C.E., Sorab H. Ardeshir, A.M.S.E. (Lond.), Architects, Engineers and Surveyors, 22-D, Parsi Bazar Street, Fort, Bombay 1. Phone No. 253592.

Hornby Fountain Pen Depot, 204, Hornby Road, Fort, Bombay.

Huge Engineering Co., Electrical Engineers, Contractors, Radio & Sound Specialists, Imperial Chambers, Wilson Road, Ballard Estate, Bombay. Phone No. 268991, Box No. 679.

Husenl Bros., Hardware, Machinery & Engineering Tools, 129, Lohar Street, Bombay 2.

IBCON PRIVATE LIMITED Industrial and Business Consultants, Adelphi House, 119, Queen's Road, Phone: 242052/3. Grams: "Ibco".

Branches: 2, Fairlie Place, Calcutta. George Oakes Building, Sri Narayanaharaja Square, Bangalore 2. Mahatma Gandhi Road, Kanpur. State Bank Building, Baillie Street, Colombo.

Managing Director: H. N. Thadani.

Directors: B. R. Bajpal, C. R. Asnani, B. J. Kripalani, J. B. Vasandani.

Associate Cos.: Ibccon (Australia) Pty. Ltd., Melbourne & Sydney; Ibccon (Pakistan) Ltd., Karachi; Ibccon de Mexico S. A., Mexico D. F.; Ibccon Argentina, Sociedad Civil, Buenos Aires; Ibccon Do Brasil Ltd. a., SAO PAULO, Brazil; International Business Consultants, Ltd., Hong Kong; International Business Consultants (G.B.) Ltd., 8, Clarges St., London (U.K.); Albert Ramond & Assoc., Chicago & New York; Barnes Textiles Assoc., Boston & Spartanburg, U.S.A.

Consultancy Service in respect of: Development of New Industries, planning for Modernisation and Expansion of Industries, Building and Factory design, Market Research, Operational Research.

Also

Executive work, Clerical Procedures and Methods; Scientific costing; Accounting Procedures and Methods, Labour utilisation, Job classification and Wage structure; Stores organisation and Control; Stores consumption and control; Fuel utilisation Quality control; Management Control; Executive Training; Preventive Maintenance.

IBM WORLD TRADE CORPORATION, Bombay Branch and Head Office: Vulcan Insurance Building, Veer Nariman Road, Bombay 1. Phone: 242386. Tel. Address: "INBUSMACH". Offices at Calcutta and New Delhi, IBM Electric and Electronic Accounting Machines.

Ideal Leather Works, Manufacturers of Fancy Leather Goods, Kitab Mahal, 192, Dr. Dadabhai Naoroji Road, Fort, Bombay.

Ideal Motors, Distributors of Motor Cycles, Cycles & Accessories, Bombay Mutual Annex, Cawasji Patel Street, Fort, Grams: "Idealmotor." Phone: 262660.

Ideal Supplies Co., Stationers, Printers & General Merchants & Commission Agents, 134, Meadows Street, Fort.

IDEAL WRAPPERS PRIVATE LTD., Paper Converters, Waterproof Kraft Paper, Waxed Paper and other Laminated Papers and Manufacturers of Himalaya Drinking Straws; Advani Chambers, Sir P. M. Road, Fort, Bombay; Phones: 261061-2 (Office), and 67209 (Factory); Grams: "LAMINATED".

ILFORD-JELO (INDIA) PRIVATE LTD., Registered Office: Cook's Building, Dr. Dadabhoy Naoroji Road, Bombay 1. Sole Agents and Distributors: ILFORD Photographic materials and X-ray Materials, Cameras and Accessories. Phone No. 251284. Tel. Address: "Bromide". **Branches:** Calcutta, New Delhi and Madras.

IMPERIAL CHEMICAL INDUSTRIES

(INDIA) PRIVATE LTD. Suppliers of Chemicals—all types, Refrigerant Gases, Dairy Detergents and General Cleaners, Water Treatment Chemicals, Alkalis, Mineral and Organic Acids, Emulsifying Agents, Dyestuff and Auxiliary Products, Heat Treatment Furnaces and Salts, Metal Degreasing Plants and Trichloroethylene, "Alkathene" Pipe and "Alflan" Fittings, Silicones, Leathercloth Plastics—all types, Wrought Non-Ferrous Metals and Alloys, Sporting Ammunitions, Explosives, Rubber Chemicals, Colours and Synthetic Resins, Nitrile Rubbers, Paints, Fertilizers, Agricultural Chemicals, Insecticides, Fungicides, Weed-killers and Pharmaceuticals. Also Sole Selling Agents of Albright & Wilson (Mfg.) Ltd. (Chemicals, Laboratory Reagents), The Alkali & Chemical Corporation of India Ltd. (Caustic Soda, Chlorine, Hydrochloric Acid, "Gammexane" Insecticides, "Duco" and "Dulux" Paints, Stoving and Industrial Finishes, Aircraft Dopes Lacquers and Thinners, Metal Pretreatment Chemicals etc.), The Alumina Co. Ltd. (Sulphate of Alumina—Iron Free), Boots Pure Drug Co. Ltd. (Saccharin, Potassium Permanganate Technical), Borax Consolidated Ltd., (Borax, Boric Acid, Tartaric Acid), British Glues & Chemicals Ltd., (Glues, "Churn" brand Mineral Mixtures, Roller Composition), British Dyewood Co. Ltd. (Tannic Acid), British Sulphate of Copper Association Ltd. (Copper Sulphate), Associated Chemicals Companies (Sales) Ltd. (Hydros & Formosul), Chance & Hunt (Carbon Black & Cobalt Oxide), Chemical & Insulating Co. Ltd. (Light Magnesium Carbonate, Oxide & Hydroxide), Chipman Chemical Co. Ltd. (Weedkillers), C. S. R. Chemicals Pty. Ltd. (Ascorbic Acid), Cyprane Ltd. (Inhalers), Dental Manufacturing Co. Ltd. (Kallodont etc.).

Duff Chemical Co. Inc. (Phosphorus), Earnshaw Ltd. (Leather Pigments), English Metal Powder Co. Ltd. (Aluminium Powder and Paste), Fertilizer & Chemicals (Travancore) Ltd. (Ammonium Chloride), Fullers' Earth Union Ltd. (Bleaching Earths), Hardman & Holden Ltd. (Naphthalene Driers), H. Imami & Bros. (Gum Tragacanth), Holoplast Ltd. (Plastic Laminated Panels and Linings), John & E. Sturge Ltd. (Citric Acid), Johns-Manville International Corp. (Filter-aid), Laporte Chemicals Ltd., The Lactose Company of New Zealand Ltd. (Lactose), Hindustan Levers Ltd. (Glycerine), Lustre Fibres Ltd. (Cellulose Acetate Moulding Powder and Flakes), The Magadi Soda Co. Ltd. (Heavy Soda Ash), Mond Nickel Co. Ltd. (Nickel Electroplating Salts, Selenium, Cobalt Oxide & Salts), National Peroxide Ltd. (Hydrogen Peroxide), A. & G. Nicholas Ltd. (Meginide Daptazole).

Plant Protection Ltd. (Insecticides, Fungicides, Weed-killers), Bayer Agriculture Ltd. (Plant Protection Products), Pan American Sulphur Co. (Sulphur), Scott & Bowne Ltd. (Vitamin Products), Shaw Wallace & Co. Ltd. (Sodium Silico Fluoride), Svenska Tandsticks Aktiebolaget (Chlorate of Potash), Svenska Cellulosa Aktiebolaget (Rayon Pulp and Paper Pulp), Travancore Chemical & Manufacturing Co. Ltd. (Copper Sulphate), T. N. Waldron & Co. Ltd. (Dusting Equipment), The United Glass Ltd. (Glassware), Western India Match Co. Ltd. (Potassium Chlorate), Whey Products Ltd. (Lactose), B. Young & Co. Ltd. (Edible & Technical Gelatines), Yorkshire Imperial Metals Ltd., Leeds, England.

Bombay Regional Office at "Crescent" House, Ballard Estate, Bombay 1. Telephone Nos. Bombay : 26-8051 (15 lines). Director-in-Charge, Bombay Offices: E. Parker.

All India Head Office for Dyes: Manager: J. P. Ward. Telegrams: "ICIDYES", Bombay, P.O. Box No. 287.

Bombay Regional Office: Manager: A. C. Muir. Telegrams: "Alkali", Bombay, P.O. Box No. 310.

Bombay Commercial Services Dept.: Manager: N. J. Gordon.

Technical Service Laboratory: Fosbery Road, Sewri, Bombay. Technical Manager, D. P. Milburn, Telephone No. 76131.

Head Office for India: 34, Chowringhee, Calcutta.

Chairman and Managing Director: J. M. Lall; Managing Directors: A. R. Foster, F. G. Lamont; Directors: C. E. J. Crawford, E. Parker, C. A. Pitts and R. Coleman. Secretary: K. M. McCaw; Chief Accountant: H. M. Moleworth; Sales Controller: J. Greenwood.

Codes used: Bentley's Complete and Second Phrase and Private. Telegraphic Address: "IMPKE MIX", Calcutta. G.P.O. Box No. 182, Calcutta 1. Phone No. 23-2391 (11 lines); T.S. Laboratory, Tiljala.

Delhi Office: Hamilton House, Connaught Place, Post Box No. 107, New Delhi. Telephone: 43161; Telegram: "IMPKE MIX", New Delhi; Managing Director: A. R. Foster.

Branches: Calcutta: P.O. Box 334, A. Keown (Manager). Phone No. 22-2361 (10 lines). Madras: P.O. Box No. 130, E. L. Armitage (Manager). Phone Nos. 2028, 2929, 2930 & 55597.

District Offices: Ahmedabad, Kanpur; Resident Representatives: Patna, Cochin, Bangalore, Mathurai, Amritsar, Alleppey. Telegrams: "ALKALI".

Imperial Surgical Co., "India House," opp. G. P. O., Fort, Bombay.

IMPERIAL TOBACCO CO. OF INDIA LTD., THE. Factory Address: P.O. Box No. 6002, Parel, Bombay 12. Phone No. 62521 (3 lines). Tie. Address: "BACCYMAK".

Importers & Exporters, Ltd., The, Managing Agents: Eranes Brothers, 9, Forbes Street, Fort.

Ind Advertising Agency, Advertising Service Agents and Consultants, Commercial Chambers, Masjid Bunder Road, Bombay 3.

INDEQUIP PRIVATE LTD., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1. Phone: 255038. Grams: "INDEQUIPCO". Textile Engineers and Machinery Merchants. Branches: Ahmedabad, Amritsar, Calcutta, Delhi, Indore, Kanpur and London.

INDIA ARMS (PRIVATE) LTD., Arms, Ammunition & Shooting Requisites, 351, Abdul Rehman Street, Bombay 3. Phone: 22119. Grams: "FIREARMS".

INDIA CORPORATION PRIVATE LTD. (Estd. 1941). Cotton and Piecegoods Merchants, Indian Globe Chambers, Fort Street, Bori Bunder, Fort, Bombay 1. Tel. Address: "LOONI".



INDIA CROWN CORK CO. (PRIVATE) LTD., Office: I. C. House, Dougall Road, Ballard Estate, Bombay 1. Telephone: 264411 (8 lines). Factory: Powal Estate, North Kurla. Telephone: 87997 (5 lines).

Manufacturers of Crown Corks. Directors: H. Holck-Larsen; F. Fox; H. Skov; S. K. Toubro; N. M. Desai (Ex-Officio). Selling Agents: Larsen & Toubro Ltd., P.O. Box 278, Bombay. Tel. Address: "LARSENBO".

THE INDIA ELECTRIC WORKS, LTD.

6, Sir Phiroozshah Mehta Road, Fort. Phone No. 252505. Tel. Address: "MANUFACTURER." Manufacturers of I. E. W. low consumption fans, Telephones, Telegraph, Train Lighting Dynamo & Switch Gears and Railway Signalling Instruments, Pole Fittings, Electrical Accessories, Domestic Appliances, Fractional H. P. Motor & Starters and Distribution Transformers, etc. Repairers of Measuring Instruments, Mechanical & Electrical Engineers and Approved Contractors to Railways and I. S. D. Head Office & Factory:—Diamond Harbour Road, Calcutta 34. Instrument Factory:—25, South Road, Eataly, Calcutta. Other Branches at Madras, Kanpur, Delhi & Patna. Managing Director: B.K. Bohatgi. Manager: Harihar Chandra.

PRADIP LAMPS

(General Service, Automobile Fluorescent Tubes, Starters and other special types of lamps.)
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The India Electric Works Ltd.

India Engineering Works, Importers, Exporters and Manufacturers' Representatives, opp. Share Bazar Building, Hamam Street, Fort, Bombay.

India Engineering Works & Trading Co., Mechanical & Structural Engineers and manufacturers of W. I. Split and C. I. Pulleys; 194, Trimbak Parasram Street, Golpitha, Bombay 4. Phone: 71272. Grams: "TRIPLARM".

India Laboratory Products Co., 2-4, 3rd Cross Lane, Sankli St., Byculla, Bombay 8.

India Machinery Stores, Dealers in Machinery, Flourgrinding Mills, etc., 163, Nagdevi Cross Lane, Bombay 3.

INDIA METAL AGENCIES, Importers & Manufacturers' Representatives, India House, Opp. G.P.O., P. Box 1966, Bombay 1. Telephone: 261978. Grams: "WIDE-EYE".

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G. Cesare Rauzi Legnano (Italy) Diesel Locomotives, wagons and Engine Testing Equipments.

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Saxby, Paris (France) for Signalling materials.

Agents for Western India:

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GPIF Indian Make Water Meter 1", 1 1/2", 2" (Agent in Andhra Pradesh).

Strojexport, Praha. (Czechoslovakia) (For Western & Central India). Excavators, Concrete Mixers, Battery Trucks, Conveyors, Electrical Hoists, Mechanical and Hydraulic Jacks, Chain Pulley Blocks.

Outboard Marine International, S. A., Nassau (Bahamas). "EVINRUDE", Outboard Motors.

We also supply Brass Sugar Tubes, A.C.S.R. Conductors, Tubular Poles, Cables, Wire Ropes, Stone Crushers, Road Rollers, etc.

India Pipe Fittings Co., Pipe & Fittings Merchants, 146, Nagdevi Street, Bombay 8.

India Publications Company, 31, Hamam Street, Fort, Bombay. Trade, Business and Class Journals.

India Radio Service, Dreamland, New Queen's Road, Bombay 4.

India Raw Products Supply Co., 65, Alli Chambers, Tamarind Lane, Fort, Bombay.

India Taps & Dies Works, Engineering Tools Manufacturers & Brass & Iron Founders, Central Bank Building, Mahatma Gandhi Road, Bombay 1.

INDIA TRAVEL SERVICE PRIVATE LTD., General Travel Agents. People's Building, Sir Phirozshah Mehta Road, Fort, Bombay 1. Phone: 261424 (3 lines). Grams: "INDTRAVEL".

INDIA UNITED MILLS LTD., comprising: Mill No. 1; Mill No. 2; Mill No. 3; Mill No. 4; Mill No. 5 and Dye Works. Agents:—Agarwal & Co., Indu House, Dougall Road, Ballard Estate, Bombay. Phone No. 26-5331. Tel. Address: "INDUFAB". P.O. Box No. 807.

India Water Proofing Co., Structural Waterproofing Engineers & Contractors. Hassan Chambers, Parsi Bazar Street, Fort, Bombay.

INDIAN ALUMINIUM COMPANY, LIMITED. Bombay Office: Lotus House, Marine Lines, Bombay 1.

Head Office: 31, Chowringhee Road, Calcutta 16.

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Products: Bauxite, Alumina Hydrate, Calcined Alumina; Aluminium Ingots; Sheets, Strips, Coils, Circles, Slugs, Corrugated Sheet, Chequered Plate, Extruded Sections, Frameless Houses, Grain Bins; Aluminium paste and powder, Carbon Electrode paste.

Sole Selling Agents for "Venesta" Aluminium Foil. Non-exclusive distributors for a variety of imported aluminium products.

Indian Arts Emporium, Bombay Mutual Annexe, 2-C, Cowasji Patel Street, Fort, Bombay 1.

Indian Art Museum Private Ltd., Carnac Bridge, Bombay 3. Artware & Curio Dealers. Manufacturers of Brassware and Carpets. Exporters of Brassware, Ivory, Woodcarvings, Carpets, Cotton Piece Goods, Benares Silk Sarees, Scarves, Zaribags and other Indian commodities.

Managing Director:—Kishinchand Lekhra.

Tel. Address: "INDARTMUSE". Phone: 20726.

Indian Automobile Company, Ltd., 4, Apollo Street, Fort. Dealers in Petrol, Oils and Tyres.

INDIAN CABLE COMPANY LIMITED, THE, Cable Manufacturers and Electrical Engineers and Contractors. Representatives in India for British Insulated Callender's Cables Ltd.

Bombay Office: Esplanade House, Waudby Road, Fort.

Head Office: 9, Hare Street, Calcutta 1. Factory: Tatanagar (S.E. Ry.).

INDIAN CASABLANCAS HIGH DRAFT CO., PRIVATE LTD., THE, Registered Office: Maneckji Wadia Building, Mahatma Gandhi Road, Fort, Bombay 1. Telephones: 255026/7 and 40486. Grams: "INCASA." Patentees and Manufacturers

of the Casablanecas System of High Drafting for Cotton Spinning for India, Pakistan, Burma & Ceylon and Selling Agents for "Casavon" Products and Constant Card Apparatus.

INDIAN CATHODIC PROTECTION CO. PRIVATE LTD., Corrosion Engineers. Maneckji Wadia Building, 127, Mahatma Gandhi Road, Fort, Bombay 1. Director-in-charge: N. B. Bhagat. Tel: Nos.: 255601-2-3. Telegrams: CATHOPROF.

INDIAN COMMERCIAL CO., LTD., THE, 45/47, Apollo Street, Fort, Bombay. Gram: "INDCOM". Phone: 254258. Exporters and Importers. Manufacturers of 'CENTRAL' Diesel Engines in India.

Indian Durries Emporium, Carpets, Durries & Coir Mats Dealers, 64, Mahomedali Road, Bombay 8.

INDIAN DYESTUFF INDUSTRIES LTD., Manufacturers of 'Navinon Vat Dyes', Mafatlal Houses, Backbay Reclamation, Bombay 1. Phone: 37854-5 (2 lines). Grams: "HITSAGAR". Factory at: Shahad, near Kalyan (Thana Dist.). Managing Agents: Messrs. Mafatlal Gagalbhai & Sons.

Indian Electric Stores, Electrical Goods, Maskati Mahal, Lohar Chawl, Bombay 2. Phone No. 31613.

INDIAN EXPANDED METALS, PRIVATE LTD., THE, Manufacturers of Steel, Brass, Copper & Aluminium Expanded metal of all sizes and meshes. Managing Director:—N. B. Bhagat, Mechanical Engineer, Overseas Member of the Institute of Welding, London and Sustaining member of the American Welding Society.

Works:—Fort Road, Wadala, Bombay 31.

Office:—Maneckji Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay. Phones: 255601-2-3.

Indian Globe Insurance Co., Ltd., The, 315/321, Dr. Dadabhai Naorji Road, Fort.

Indian Guarantee & General Insurance Co., Ltd., Bank of Baroda Building, Apollo Street, Bombay. Tel. Address: "INDGUARCO." Phone Nos. 32955/6.

INDIAN HOTELS CO., LTD., Bombay House, 24, Bruce Street, Fort.

Taj Mahal Hotel, Green's Hotel & Restaurant and Wellington Mews.

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N. H. Tata.

A. D. Shroff.

Brig. M. H. Rane.

J. D. Choksi.

T. V. Baddeley.

D. B. D. Tata.

K. C. Bakhle.

Managing Agents: Tata Industries, Private Ltd.

Director-in-Charge: D. B. D. Tata.

Manager: B. D. Cotval.

Controller of Accounts: S. B. Bajan.

Secretary & Agents' Assistant: M. K. Vajifdar.

Tel. Address: "INHOTELS."

Phone No. 219101 (10 lines).

INDIAN HUME PIPE CO., LTD., THE, are the largest manufacturers in India of Concrete Pipes, Steel Pipes and Concrete Poles. Concrete Pipes manufactured by this Company, better known as "Hume Pipes" and "Homogeneous Pipes" are very extensively used for Water Supply, Drainage, Culverts, Irrigation, etc. They are also used as Cable Conduits, Half-round and One-third round Channels, as well as for Well Sinking, Septic Tanks, Telephone Cabins, Dust Bins, Cattle Troughs, Fencing Posts, Latrines, Policeman Cabins, Pillars, etc.

For High Pressure Mains and Distribution required for Water Supply, the Company manufactures Steel Pipes lined and out-coated with Concrete, known as "Hume Steel Pipes." These too are very extensively used and are considered more economical than any other substitutes used for the purpose. During the World War II, the Company started manufacture of Welded Steel Pipes for Penstock requirements of Hydro-Electric Projects.

The R.C.C. Poles manufactured by this Company have very advantageously replaced the Steel Electricity Poles for both High Tension and Low Tension Transmission Lines. They are also largely used as Lamp Posts in all the big Cities.

Recently the Company has also started manufacturing the Prestressed Concrete Pipes, which can easily stand pressures upto 400 ft. head.

The Company have a large network of about sixty factories spread over India, and Ceylon. Head Office: Construction House, Ballard Estate, Bombay 1. Telephone No. 26-2904 (3 lines). Telegraphic Address: "HUMEPIPE", Bombay.

Excellent tests and testimonials: Maintaining large staff of qualified Engineers.

INDIAN INDUSTRIAL ENGINEERS, Electrical Engineers, Importers and Stockists of Electrical Measuring Instruments, 43, Tamarind Lane, Fort. Phones: 255514 (Office) and 241469 (Res.). Grams: "NEWLIGHT."

Proprietor: B. A. Mehta, B.Sc. (Eng.), M.I.E.

Manager: I. P. Gupta, M.A., B.Com., LL.B.

INDIAN IRON & STEEL CO., LTD., Managing Agents: Martin Burn Ltd. Head Office: 12, Mission Row, Calcutta. Bombay Branch: Esplanade House, Waudby Road, Fort, Bombay. Phone: 264102. Grams: "INISKEBOM".

Indian Mercantile Insurance Co., Ltd., Indian Mercantile Chambers, Nicol Road, Ballard Estate, Fort.

Indian Pharmaceutical Combine Association Ltd., Manufacturers of Pharmaceutical and Biological Products. 95, Morland Road, Byculla, Bombay 8. Phone: 74631. Grams: "IPCA PHARM".

INDIAN PLYWOOD MANUFACTURING COMPANY, PRIVATE LTD., Manufacturers of:—Plywood, Veneers, Block Boards, Flush Doors, etc., 9, Wallace Street, Post Box 1175, Fort, Bombay. Factory at Dandell (Southern Ry.), North Kanara. Phone: 26-3381. Grams: "INDPLYWOOD," Bombay.

Indian Rare Earths (Private) Ltd., Manufacturers of Thorium Cerium nitrates, Army & Navy Building, 148, Mahatma Gandhi Road, Fort, Bombay. Phone: 255544/45 Gram: "RAREARTH."

Indian Schering Private Limited, Mercantile Chambers, 1st Floor, Graham Road, Ballard Estate, Bombay.

INDIAN OXYGEN LIMITED

Ghatkopar (Bombay-Agra Road), Bombay, 39. Manufacturers of Oxygen, Dissolved Acetylene, Nitrous Oxide, Nitrogen gases, Suppliers of Oxy-Acetylene Welding and Cutting Equipment, Welding Rods and Fluxes, Electric Arc Welding Plant and Electrodes, Automatic Arc Welding Equipment, Argon Arc Welding Equipment, Metal Spraying Equipment and Wires, Hydrogen, Helium, Argon, Neon and other rare gases, also Medical Apparatus for Anaesthesia, Analgesia and Oxygen Therapy and Medical Oxygen.

Registered Office:—48-1, Diamond Harbour Road, Calcutta 27.

Managing Director:—R. G. C. Stephenson.

Bombay Office:—Ghatkopar (Central Railway, Bombay 39).

Telegrams:—"INDOXCO", Ghatkopar.

Phone No. 67941 (4 lines).

Bombay City Depot:—Arched Bungalow Road, Off Reay Road, Mazagon, Bombay 10.

Phone Nos.: 75311 and 75312.

Bombay District Manager's Office:—Sadhana Rayon House, 1st Floor, Dadabhoy Naoroji Road, Bombay 1.

Telegrams:—"INDOXYGEN", Bombay.

Phone No.: 264825.

District Manager:—P. C. Kavanagh.

District Sales Manager:—K. Hartley.

Bombay Works:—

Oxygen Production and Compression/
Dissolved Acetylene Production—
Ghatkopar.

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INDIAN SMELTING & REFINING CO., LTD., THE,

"Industry House"

159, Jamshedji Tata Road, Churchgate
Reclamation, Bombay 1.

Tele. No. 246261.

Cable: "ISARC," Bombay.



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THE,** I. S. M. Estate, Chinchpokli Cross
Lane, Bombay 27. Phone Nos. 42205 and
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Manufacturers of:—

Antifriction Bearing Metals, Copper,
Brass and Gun Metal, Phosphor
Bronzes, Die-Casting Alloys, Alumi-
nium and Light Alloys, Tin and
Silver Solders, Type Metal, Monel
Metal and S. G. Iron Castings, Die
castings in Zinc base & Aluminium
alloys.

Metallurgical and Foundry Engineers.

Board of Directors:

J. D. Chokai (Chairman), A. A.
Jasdanwalla, D. M. Ghia, S. Mool-
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Manager: F. A. A. Jasdanwalla.

Managing Agents: The Investment
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INDIAN TEXTILES CO. PRIVATE LTD.

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Bombay 1. Phone: 36771. Grams:
"HANDICRAFT".

Head Office: Varanasi (U.P.). Phone:
1087. Grams: "TEXTILES".

Branches: Great Eastern Hotel, Cal-
cutta. Phone: 231543. Grand Hotel,
Calcutta, 13N, Cannanagar Circus,
New Delhi. Ambassadors Hotel, New
Delhi. Phone: 45121/10. Grams:
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THE INDIAN TEXTILE JOURNAL

**THE INDIAN TEXTILE JOURNAL
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Indian Textile Journal," a representa-
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Engineering and Electrical Industries of
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(Chairman), Jai H. Mehta, Nitya-
nand M. Wagle, J. Symon and Jai
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Agents: M. C. Rutnagar & Co.

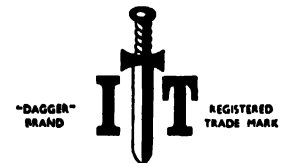
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N. H. Tata, Esq.
Mathuradas Devidas Madhowji, Esq.

K. M. Antia, Esq.
Prahlad C. Mehta, Esq.

Registered Office:—
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Post Box No. 79, Bombay, 1.

Factory:
Arched Bungalow Road, Ghorupdeo,
Bombay 10.

Telegraphic Address: "VESTERMORN".

Factory Telephone Nos. 42094/95.

Office Telephone No. 268081 (10 Lines).

H. V. Samal, Esq. **Assistant Manager.**

V. R. Apte, Esq.—**Assistant Manager.**

INDIAN FURNACE CO., PRIVATE LTD. (Formerly Indian-Wild-Barfield Co. Private Ltd.), Lotus Cinema Building, Hornby Vellard, Bombay 18. Branch Office: 27/29, Brabourne Road, Calcutta 1. Heat Treatment & Furnace Engineers. Suppliers of: "WILD-BARFIELD" Electric Furnaces; "THERMIC" Fuel Fired Furnaces; "FOSTER" Pyrometers; "GRAFTON" Electric Kilns. "AUTO-LEC" Electrode Steam & Waterboilers; Pottery Kilns; Ceramic and Enamel Colours; "ETERNITE" Carburlizing Compound and other Heat treatment Shop Supplies; "CASSEL", Heat treatment Sals; "SHELL-WILD-BARFIELD" Quenching Oils. Phone: 74687. Grams: "Electurn."

Indo-Bombay Trading Co., Steel Specialists, Pipe Fittings Merchants, 84, Nagdevi Street, Bombay 3.

Indo-Berolina Ind-Pvt. Ltd., Mfrs. of Machinery for Chemical, Pharmaceutical etc., Victoria Bldg., 1st Floor, Parsee Bazar Street, Fort, Bombay.

Indo-British Chemical Co., Dealers in Sizing Materials and Chemicals, Raja Bahadur Mansion, Tamarind Lane, Fort.

INDO-BRITISH TRADING BUREAU (Estd. 1917), Direct Importers and Stockists of Mill & Handloom Stores, 7-10, Horniman Circle, Fort, Bombay. Phone No. 252778. Tel. Address: "Millocraft."

INDO-BURMA PETROLEUM CO., LTD. Managing Agents: Steel Brothers & Co., Ltd., Allahabad Bank Building, Apollo Street, Fort, Bombay No. 1. P.O. Box No. 869. Phone Nos. 251214-15. Grams: "STEEL OIL."

Indo-Europa Trading Co., Estd. 1926, Importers Exporters & Printers' Complete Furnishers, 9, Dalal Street, Fort, Bombay. Grams: "INDOEUROPA." Phone: 252124.

Sole Agents for: Cundall Folding Machine Co., Ltd., England; Flashburn Printing Ink Co., Ltd., England; VEB Druckautomatenwerk Leipzig, Germany; VEB Druckmaschinenwerk Universal, Germany; Max Nitzsche & Co. A. G., Germany; Baptist Bacher, Germany; Kustermann & Comp., Germany; VEB Buchbindereimaschinenwerk Leipzig, Germany; August Fomm, Maschinenfabrik, Leipzig, Germany. Weiss & Schirmer, Hamburg, Germany. Prakma Maschinenfabrik G.m.b.H., Berlin, Germany. VEB Optima-Fabrik Graphischer Maschinen, Leipzig, Germany.

Indo-European Trading Agencies, 4th Floor, Byramji Mansion, Sir Phirozshah Mehta Road, Fort, P.O. Box 1344, Bombay. Phone: 22664. Grams: "MUSKETEERS." Direct Importers of Electrical Accessories, Electrical Appliances, Nick-rome Wires, Switchgears, Radios & Refrigerators.

INDO-FOREIGN TRADE SERVICE, Debt collectors, 505, Kalbadevi Road, opp. Edward Cinema, Bombay 2. Phone No. 22848. Tel. Address: "Bustrade."

INDO-INTERNATIONAL COMMERCIAL CORPN., PRIVATE LTD., Manufacturers' Representatives, Crescent Chambers, Tamarind Lane, Bombay 1. Phone: 251555. Grams: "ISKEE".

Sole Agents for: Chemo Puro Manufacturing Corpn., U.S.A., Switzerland Germany, Holland, Italy. Mfrs. of fine Chemicals; Meera Corporation, New York, U.S.A. Mfrs. of Compounds, Spices, Fluid Extracts & Tinctures. Solid & powdered extracts, Botanical drugs, water soluble Gums, Shellac Gums etc.

Indo-Pharma Pharmaceutical Works Private Ltd., Manufacturing Pharmaceutical Chemists, Kohinoor Road, Dadar, Bombay 14.

Indo-Textile Stores, The, Mill & Gin Stores Suppliers, Sir Vithaldas Chambers, 16, Apollo Street, Fort. Phone No. 255261. Tel. Address: "Alltradeo."

INDOKEM PRIVATE LTD., 221, Dada-bhoi Naoraji Road, Bombay 1; P.O. Box 832. Telegraphic Address: "Indokem". Phones: 265151/5.

Directors:—

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Ramanivas Ramnarain.
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C. Rai.

Distributors of:—

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Industrial Agency, 159, Girgaum Road, Bombay 4.

I. A. E. C.

Industrial & Agricultural Engineering Co. (Bombay) PRIVATE LTD.

43, Forbes Street, Fort, Bombay 1.

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INDUSTRIAL EQUIPMENT MFG., CO., Manufacturers of Gears and Pinions of various types and Precision parts. Kasturchand Mills Estate, Bhavani Shankar Road, Dadar, Bombay 28. Phone: 60683.

INDUSTRIAL & ALLIED CHEMICALS, National House, 6, Tulloch Road, P.O. Box 488, Bombay 1; Phone: 36534; Grams: "ORGANCHEMI"; Importers & Exporters of all types of Chemicals. Exclusive Representatives in India for: Wyandotte Chemicals Corporation, U.S.A.; Unifloc Limited, U.K.; Societe Progil, France; Laboratoire Roger Bellow, France; Societe des Produits Chimique de Berons, France; Societe des Produits Chimique Colnet, France; N. V. Chemische Fabriek Gembo, Holland; Werner Th. Barnbeck, W. Germany; Industrieler Maatschappij, Activit N. V. Holland; Duper Waterreiniging N. V., Holland; Kieselguhr-Industrie G.m.b.H., W. Germany; Chas H. Windschuege Ltd., U.K.; Societe Novacel, France; Societe Prodelee, France;

Societe Xylochimite, France; William Pearson Ltd., U.K.; N. V. Sluys Boecbont, Belgium; Societe Francaises Glycerines, France; Amell Co. Inc. U.S.A.; Synthese Ltd., Holland.

INDUSTRIAL AND ENGINEERING COMBINE, "Commonwealth" Flat B-1, Foreshore Road, opp. Nariman Point, Bombay 1. Post Box No. 1323, Bombay 1. Telephone Nos. 37550 & 37832. Telegrams: "INDUSEAST". Complete power plants, Transformers, motors and Generators. Nut and bolt machinery, Civil and Structural Engineers.

Industrial and Prudential Assurance Co., Ltd., Industrial Assurance Building, opp. Churchgate Station, Bombay. Tel. Add.: "Prudential." Phone No. 37404.

Industrial Electrical Engineering Co., 10, Hamam Street, Fort, Bombay 1. Phone No. 252836. Specialists in Insulating Materials and Armature Wires, e.g., Bakelite, Fibre, Ebonite, Empire Cloth, Tapes, Cotton Tapes, etc. and Enamelled Copper, D.C.C., S.C. Enamelled and high Resistance Wires.

INDUSTRIAL MACHINERY AGENCIES PRIVATE LTD., Importers of Industrial Plant & Machinery, 17, New Queen's Road, Bombay 4. Phone: 20892. Grams: "SCHULERIND." Sole Distributors for: L. Schuler A-G., Goepplingen, West Germany, Schuler Presses, sheet metal and Can making machinery.

INDUSTRIAL MINERALS & CHEMICAL CO.

Dealers in Minerals, Ores, Chemicals and Insecticides.

125, Narayan Dhuru Street, Nagdevi, Bombay 3.

Phones: Office 23675, Factory 71456. Grams: "IMCHEL".

Industrial Perfumes Private Ltd., Army Navy Bldg., Mahatma Gandhi Road, Bombay 1.



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Hardware and General
Engineering Industries
Industrial Springs Mfg. Co.
21, Forbes Street,
Bombay 1.

Industrial Structural Engineering Works Private Ltd., Structural Engineers & Contractors, Mansukh Nivas, 2nd Fl., 188, Khetwadi Back Road, Bombay 4; Grams: "STEELFRAME".

Industries Service Corporation, Importers, Exporters, Manufacturers' Representatives and Commission Agents. Sole Distributors for the States of Bombay and Madhya Pradesh: Tip Top Vulcanising Products (West Germany), Service Engineers for Splicing and Maintenance of belt conveyors, power transmission belts; Agents for the State of Bombay for Delux Mica Co., for Mica, Micarite & Electrical Accessories. **Raja Bahadur Banisai Building, 11, Bruce Street, Fort. Tel. Address: "Munpe." Phone No. 251409.**

Ingersoll-Rand (India) Private Limited, Devkar Nanjee Building, 17-B, Horniman Circle, Bombay.

Inter-Mission Business Office, Financial Headquarters, American Missionary Societies, 364, Dr. Dadabhai Naoroji Road. Tel. Address: "Mecosa." Phone No. 251551.

International Agencies (Regd.), 195, Dr. Dadabhai Naoroji Road, Fort, Bombay. Phone: 26-4101.

International Book House Ltd., Booksellers & Publishers, 9, Ash Lane, Mahatma Gandhi Road.

International Cotton Corporation Private Ltd., Cotton Merchants, Importers and Exporters, Indian Globe Chambers, Fort Street, Bori Bunder, Bombay. Phones: 262966 & 262594.

International Dental Co., Direct Importers of Dental Goods, Dava Road, 199, Hornby Road, Fort, Bombay 1. Phone: 262829. Grams: "Acrylic."

International Electric Trading Co., Importers & Dealers in Everything Electrical, Devkar Nanjee, 68, Princess Street, Bombay 2. Phone: 20613. Grams: "Interlite."

INTERNATIONAL GENERAL ELECTRIC CO. (INDIA) PRIVATE LTD., Thackersey House, Graham Road, Ballard Estate, P.O. Box 992, Bombay 1. Phone: No. 26-3833. Cable: "INGENETRIC" (all Offices). **Branches:** Calcutta, Madras, New Delhi. Representing General Electric Co., U.S.A., Manufacturers of electrical machinery, apparatus, electric and diesel-electric locomotives, refrigerators, air conditioners, domestic appliances, lamp and lighting fixtures, X-Ray and electro-medical equipment. Distributors in India for American Sterilizer Company; Canadian General Electric Company; S.E.M. (Belgium); Fritz Hoffmann of Germany (X-ray equipment); Hans Liebherr of Germany (refrigerators).

International Mercantile Corporation, Importers-Exporters, 318, Himalaya House, Jn. of Hornby & Palton Roads, Bombay. 306/11 Section A, Street No. 8, Aden, Camp.

International Paper Company, Dealers in all kinds of Papers & Boards. 26, People's Building, 3rd Floor, Sir Phirozshah Mehta Road, Fort. Phone: 26-3161.

International Research Laboratories, Manufacturers of Textile Printing Colours, 349, Vadgadi, Bombay 3. Grams: "INTRALABS."

INTERNATIONAL RUBBER & GENERAL INDUSTRIES PRIVATE LTD.



TRADE MARK

Office: Albarim Mansil, Palton Road, Bombay No. 1 (India). Phone: 261843.

Factory: 18, Apple Road, Wadi Bunder, Bombay No. 9 (India). Phone: 38124.

Manufacturers of all kinds of Rubber and Canvas Footwear, Gum Boots, Rubber Heels & Soles, Hoses/pipes, Industrial Rubber Goods, Waterproofing of Textiles, etc., etc.

International Trading Company, Importers, Exporters & Manufacturers' Agents, Manhar Buildings, 187, Lohar Chawl, Bombay 2.

Interarea Corporation, Importers, Exporters, Agents and General Merchants, Great Social Building, Sir Phirozshah Mehta Road, Fort.

Interstate Transport Company, 9-10, Swastik Chambers, Carnac Bridge, Carnac Road, Bombay-1.

INVESTA INDUSTRIAL CORPORATION LIMITED, Ewart House, Bruce Street, Fort.

Business:—

Public Limited Industrial Finance Corporation.

Directors:—

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Sir Chunilal V. Mehta, K.C.S.I.
N. H. Tata.
J. D. Chokai.
S. Moolgaokar.
M. R. Chinoy.

Secretary:—R. H. Colah.

Tel. Address: "Intacorp". Phone Nos. 251612 & 251911.

INVESTA MACHINE TOOLS & ENGINEERING CO., LTD., Ewart House, Bruce Street, Fort.

Manufacturers of:—

Precision Machine Tools such as Lathes, Drilling Machines, etc. and heavy Complicated Ferrous Castings up to 3 tons each for Diesel Engines, Pumps and other Specialised Machinery.

Managing Agents:—

Investa Industrial Corporation Limited. Ewart House, Bruce Street, Fort.

Directors:—

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Sir Chunilal V. Mehta.
A. A. Jandevale.
Hirjee Cowasjee Jehangir.
T. V. Baddeloy.
T. M. Jagtiani.

H.O.:—Ewart House, Bruce Street, Fort.
Principal Officer of Managing Agents: B. H. Colah.

Works:—Pals Street, Clerk Road, Bynalla.

J. V. Pandit (Works Manager).
D. H. Kohiyar (Accountant).

Tel. Address: "Innactools," Bombay (Head Office); "Vestatools," Bombay (Works).

Phone Nos. 251612 & 251911 (Head Office), 42004-5 (Works).

INVESTMENT CORPORATION OF INDIA LTD., Ewart House, Bruce Street, Fort.

Directors:—

J. R. D. Tata (Chairman).
Sir Cowasjee Jehangir, Bart., G.B.E., K.C.I.E.
Sir Chunilal B. Mehta.
Dinshaw D. Romer.
J. D. Chokai.
N. H. Tata.

A. D. Shroff (Managing Director).

J. N. Patulek (Secretary).

R. H. Colah (Assistant Secretary and Accountant).

Tel. Address: "Vescor". Phone Nos. 251612; 251911.

Invex Private Ltd., Mustafa Bldg., Sir P. Mehta Road, Bombay.

IRANI & COMPANY, Transport owners and Military and Government Contractors; Authorised Oil Tank Contractors to Standard Vacuum Oil Co., Office: opp. Jakaria Masjid, Masjid Bunder Road, Bombay 3; Phone: 34587 (office); 40675 (Res.). Grams: "HEAVYLOAD". Branches at: Poona, Naik, Bangalore, Panchgani & Mahabaleshwar Inter & Inter State Transports.

Isamilla Co-operative Bank Ltd., Isamilla Bank Building, Sandhurst Road East, Bombay 9. Registered in 1930.

ITALIA PRIVATE LTD., Assayers, Samplers, Surveyors, Geologists, Consultants and Public Analysts. **Head Office:** 15, Cawasji Patel Street, Bombay 1. **Phones:** 25-3882/3. **Grams:** "ITALABO". **Chain of Laboratories at:** Calcutta, Madras, Nagpur, Visakhapatnam, Ahmedabad, Kandla and Goa.

ITALINDIA COTTON CO. PRIVATE LTD. (Estd. 1922). Exporters of Piece-goods, Yarns, Seeds and Importers of Egyptian, American, Sudan and African Cotton, Pima Cotton, Staple Fibre, Art Silk and Silk Yarn. **Indian Globe Chambers, Fort Street, Fort, Bombay 1. Phone: 26-2629. Tel. Address: "Artbonesch."**

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Calcutta Branch: 7, Old Court House Corner, Calcutta 1. **Phone: 225116. Cable: "CITOHCAL,"** Calcutta.

New Delhi Branch: 1st floor, No. 2, Sunder Nagar, Mathura Road, New Delhi. **Phone: 40813. Cable: "CITOH,"** New Delhi.

Imports: Yarns & Textiles in general, Iron & Steel Products, Ships, Non-ferrous Metals, Machineries, Foodstuffs, Fertilizers, Paper, Chemical, Timber Products, Agricultural & Marine Products, Cement, Sundries etc.

Exports: Textile Raw Materials, Minerals, Ores, Scrap, Coal, Petroleum, Grains, Sugar, Oils & Fats, Fertilizers, Salt, Pulp, Logs & Lumbers, Crude Rubber etc.

Head Office: 36, 2-chome, Hommachi, Higashi-ku, Osaka. **Cable: "CITOH,"** Osaka.

Tokyo Office: 4, Honcho, 2-chome, Nihonbashi, Chuo-ku, Tokyo. **Cable: "CITOH,"** Tokyo.

Iwacom Private Limited, Manufacturers of Plastic Umbrella handles, 204, Dr. Dadabhai Naoroji Road (Hornby Road), Fort, Bombay. Phone: 26-1144. Grams: "IWACOM." Factory at Village Road, Kandivli. Phone: 84186.

J. K. Chemicals Ltd. (Owners of: The Eastern Chemical Co. (India)), J. K. Building, Douglall Road, Ballard Estate, Bombay 1.

JACKS, WILLIAM, & COMPANY LTD., Manufacturers' Distributors, Engineers and General Merchants, "Hamilton House", Graham Road, Ballard Estate, P.O. Box No. 335, Bombay. Also at Calcutta, Madras, New Delhi, Bangalore, Hyderabad (Deccan), Karachi, Lahore, Chittagong, Dacca, Rangoon and Hongkong. Associated with: William Jacks & Co. (Malaya) Ltd., Singapore, Kuala Lumpur, Penang, Ipoh, Malacca, Jesselton, Kuching and Brunel and William Jacks & Co. (Ceylon) Ltd., Colombo.

Head Office :—Winchester House, Old Broad Street, London, E.C. 2.

Machine Tool Department, Pump Department and Carborundum Department, Bharat House, Apollo Street, Bombay.

Manager :—S. F. Meadows.

Assistant Manager :—R. Roberts.

Accountant :—J. N. Vachha, B.Com., A.C.A. **Tractor, Earthmoving & Construction Dept.** :—G. K. Sethi, V. K. Deshpande, S. Z. Kothari, and B. G. Achar.

Electrical/Engine Dept. :—B. S. Rao, M. S. Kulkarni.

Building Dept. :—D. Minotra and R. K. Pradhan.

General Dept. :—J. D. W. Brown and B. G. Bhatt.

Machine Tool Dept. :—J. B. Day, J. S. Rodrigues, D. J. Sassoon and C. S. R. Sarma.

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Mechanical Handling Dept. :—B. Roberts.

Spares Parts Dept. :—K. K. Advani.

Tel. Address :—"ASTORE".

Tel. No. 262044 (4 lines); Hamilton House No. 25-5576, Bharat House, Apollo Street; No. 41790, Spares Department and Godown at Nesbit Road, Mazagon, Bombay 10.

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Jadavji, B., & Sons, Perfumes, Jewellery, Provisions & Beauty Aids, "Harbour View," Colaba Causeway, Bombay.

Jafferjee Hussanally & Sons, Sanitary Goods Dealers, Plumbers and Contractors, 68, Nagdevi Street, Bombay 3.

Jagjivandas Nandlal & Co., Wholesale Stationers and Manufacturers, 237, Abdul Rehman Street, Bombay 3.

Jagtlani Bros., Importers and Stockists of Electrical Goods, 53, Pudar Chambers, Parsi Bazar Street, Fort.

JAGTIANI, J. T., Specialists in Hospital and Laboratory Equipment and Refrigeration and Air Conditioning machinery, National House, 6, Tulloch Road, Apollo Bunder, Post Box 332, Bombay 1. Phone: 35229. Grams : "FACMARE."

JAI DAYAL KAPUR (Distributors for Shree Gopal Paper Mills Ltd., Jagadhari), 24, Shamshet Street (First floor), Bombay 2. Phone : 39567. Grams : "JAIKAPSO."

Branches : Delhi, Lucknow and Madras. N.B.—Madras and Lucknow Offices are the distributors for "Bellapur Paper & Strawboard Mills Ltd.," for South India and Lucknow respectively.

JAI DAYAL KAPUR & SONS PRIVATE LTD., Paper Merchants & Stationers, 24, Shamshet Street (First floor), Bombay 2. Phone : 39567. Grams : "JAIKAPSO." **Head Office** : Chawli Bazar, Delhi 6. **Branches** : Madras, Kanpur, Lucknow and Amritsar.

Jaico Publishing House, Booksellers and Publishers, 125, Mahatma Gandhi Road, Bell Lane, Bombay 1. Grams : "Jaico Books". Phone No. 252164. Branches : Delhi, Calcutta and Madras.

JAIFABS RAYON INDUSTRIES PRIVATE LTD., Agra Road, Ghatkopar, Bombay 39. Phone : 67201. Grams : "JAIFABS", Ghatkopar. Manufacturers of Quality Rayons & Synthetic Fabrics.

Jaipur Metals and Electricals Ltd., Manufacturers of all kinds of Metals and Alloys, House Service Meters, Conductors, etc., Kamani Chambers, Nicol Road, Ballard Estate. Phone : 26-1744 (5 Lines). **Head Office** : Jaipur.

JAIRAMDAS & SONS, Importers and Stockists of Files, Tools, Saws, Precision Instruments Suppliers to Government & Railways. Manufacturers of Concrete Mixers - pan mixers and other Road building machinery. Branches : Delhi, Bangalore, Secunderabad & Madras. 163, Narain Dhuru Street, Bombay 3. Grams : "JAIRAMSONS." Phone No. 29020.

"**JAM-E-JAMSHED**" (Established 1832), Anglo-Vernacular daily. J. B. Marban & Co. Private Ltd., Ballard House, Mangalore Street, Fort. Tel. Address : "Jamshed", Bombay. Phone Nos. 26-2571 & 26-2572.

JAMES & CO. PRIVATE LTD., Merchants and Agents, Manufacturers of Jamesite Boiler Laggings, 34, Lamington Road (N.), Bombay 8. Phones : 41271 and 74265. **Regd. Office** : Calcutta.

Managing Director :—B. N. Poddar, Calcutta.

Managing Agents for :—Macfarlane & Co., Ltd., Calcutta, Bombay, Delhi, Madras.

James Tools & Hardware Co., Engineering Stores Importers & Manufacturers, 109, Nagdevi Street, Bombay 3.

James Wright Ltd., Wavell House, 15, Graham Road, Ballard Estate, Bombay.

Jamnadas Chaturbhuj & Bros., 145, Narayan Dhuru Street, Bombay 3. Plumbago and Black Lead for all industrial purposes.

Jamnadas & Co., D., Chemicals Importers & Stockists, 207, Samuel Street, Vadgadi, Bombay 3.

Jamnadas Jivram & Co., Gum, Grain & Seeds Merchants. 229, Samuel Street, Bombay 3.

Jamshedji Jivanji, Jewellers, Gold & Silversmiths, Opp. Mumbadevi, Zaveri Bazar, Bombay 2.

Jamshedji Nowroji, & Co., Largest Importers of Watches, 90, Abdul Rehman Street, Bombay 3.

Jariwala Ishverlal Jekisandas & Co., 174, Kika St., P.O. Box 3584, Bombay 4.

Jasewalla, R. M., & Co., Importers, Manufacturers' Agents for Textiles and Pharmaceutical Products and General Merchants. 105, Apollo House, Apollo Street, Fort.

JAWARMAL GULABCHAND, Bullion & Cotton Seeds Merchants & Commission Agents. 12, Rampart Row, Fort, Bombay 1. Phone : 253187. Grams : "MANASGANGA", P.O. Box No. 1883.

JAYABHARAT INSURANCE CO., LTD., **THE**, Head Office : French Bank Building, Hornji Street, Fort. Phone (5 Lines) 253941/42/43/44/45.

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Subscribed Capital 50,00,000
Paid-up Capital 25,00,000
Total assets exceed .. 1,50,00,000
Fire, Marine, Motor and all other General Insurance.

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Manufacturers of Gas & Electric
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Equipment.
2-D, Bibijan Street, Bombay 3.
Call : 39323. Branch : DRUG

JAYANT METAL MANUFACTURING CO., Manufacturers of Quality Builders, Hardware, Brass & Copper Rods, Wires, Sheets and all kinds of non-Ferrous Metal. 152, Lohar Street, P. O. Box No. 2227, Bombay 2.

Tel. Address : "Jayantibabu". Phone Nos. 23619, Head Office & Show-room and 60774 (Adm. Office & Factory). **Factory & Adm. Office** : 924A, Sayani Road, Bombay 28.

Phone : 73105.

Grams : "SHEPCHEM".

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Pioneer Manufacturers of Single Face Corrugated Paper Rolls, Double Face Corrugated Boards and Containers, Wrappers, Liners, Cartons, Round & Fancy Cosmetic Boxes & Packing Requisites.

Office : Peoples' Building, Sir Pherozeshah Mehta Road, Bombay 1; Phone : 262805. Grams : "FIBREBOX".

Factory : Jayant House, Ball Bazar, Andheri, Agra Road, Kurla, Bombay. Phone : 67424.

Jayantilal Bhagvandas & Co., Engineering Stores Merchants, 96, Nagdevi Cross Lane, Bombay 3.

Jayantilal Keshavlal & Bros., Sewing Machines Mfrs. & Dealers. 282, Sardar Vallabhbhai Patel Road, Bombay 4.

Jayantilal L. Gandhi, Direct Importers of Wire, Wire-netting products, 243, Argyle Road, Iron Market, Bombay 9.

J. B. A. Printing Inks Private Ltd., Manufacturers of Quality Printing Inks and Varnishes under the supervision of foreign-trained technicians.

Head Office : Advani Chambers, Sir Pherozeshah Mehta Road, Fort, Bombay. Phone : 261204.

Factory : Bombay-Agra Road, Bhandup, Bombay-40. Phone : 67966.

J. B. Mangaram & Co., Biscuit Manufacturers, 12, Gunbow Street, Bombay 1.

J. CURTIS & CO., PRIVATE LTD., 77, Shivaji Park, Bombay 28.

Jaysukhlal & Bros., Direct Importers and Dealers in Hardware, 82/86, Abdul Rehman Street, Bombay 3.

Jeco Industries, Petromax & Stoves Manufacturers, 297/305, Masjid Bunder Road, Bombay 3.

JEENA & CO., 10, Veer Nariman Road, Bombay. Passenger Booking Agents to all Steamship, Air and Railway Lines, Tour and Travel Specialists. Shipping, Clearing and Insurance Agents, Correspondents everywhere. Tel. Address: "Justitia." Phones: 251514, 251515, 251516. Post Box No. 849.

JEEWANLAL (1929) LTD. Aluminiumware Manufacturers and Dealers in everything Aluminium. Liberty Building, Marine Lines, P. O. Box No. 562, Bombay 1. Tel. Nos. 241156 & 241157. Tel. Address: "Martalumin."

Jehangir Munshi & Co., Stockists of Electrical & Talkie Machinery & Accessories. Mehta House, Apollo Street, Bombay.

Jehangir P. Lentin & Co., Shiphandlers, Steamship Furnishers & Suppliers of all labour, Lentin Chambers, Dalal Street, Fort.

Jenson & Nicholson (India) Ltd., Manufacturers of Paints, Varnishes, Enamels, etc., Mackinnon Mackenzie Building, Ballard Estate, Bombay. Phone: 263320.

Jethalal V. Dave & Co., 295, Masjid Bunder Road, Bombay 3.

JEWEL ENGINEERING CO., 167-F, Vincent Road, Bombay 14. Phones: 63190 and 251963. Grams: "APRONS." Manufacturers and Distributors: Manufacturers of JOOL Brand Pneumatic Hose Couplings, Hose Repairs etc., sold by Voltas Ltd., as distributors. Also make Jool Machine Parts. Managing Partner: R. P. Nair.

JHAVERI BROS. & CO. PRIVATE LTD. (Estd. 1914). Novelties and Gift Specialists, Manufacturers' Representatives, Importers, Exporters, Wholesalers and Retailers. Sole Agents in India for: "Montblanc" Fountain pens, pencils of Germany. "Juice King" Juice Extractors of U.S.A. "Theos" Vacuum Flasks & Jars of Switzerland. "Sole" Electric Shavers from Japan. Three Showrooms in the City. (1) 845, Abdul Rehman Street, near Crawford Market, (2) Metro Cinema Building, Dhobi Talao, (3) Meadows Street, near Flora Fountain, Grams: "GIFTS". Phone: 22096.

Jivraj & Vrajilal, Pipes Fittings, Sanitary, Mill Gin Stores Hardware Merchants, Hoses and Fire Fighting Appliances, etc., 122, Nagdevi Street, Bombay 3. Phone No. 30138. Tel. Address: "Sanipipes."

JOHN THOMPSON (INDIA) PRIVATE LTD., Boiler Makers, Steam Plant Engineers & Specialists in Water Softening, Conditioning & Filtration, Great Social Building, Sir Phirozshah Mehta Road, Fort. Phone No. 26-3144. Tel. Address: "Watertube", Bombay.

Head Office: Fairlie House, 4, Fairlie Place, Calcutta. Phone No. 22-3976. Tel. Address: "Watertube", Calcutta.

Managing Director: H. Jeavons.

JOHNSON & PHILLIPS LTD. (Incorporated in England with Limited Liability.) Head Office: Columbia House, Aldwych, London. Works: Charlton, London. Head Office for India: "Kaiser-i-Hind" Building, Currimbhoy Road, Ballard Estate. Manufacturers of Association (C.M.A.) Electric Wires and Cables, P.B.J. and Signal Cables, Distribution Pillars and Joint Boxes, Transformers, Switchgear (Power), Capacitors for power factor improvement, Electric Cookers and Storage Water Heaters, A.C. Arc Welding Equipment, Overhead Transmission and Distributing material including outdoor switch fuses, and "Scotlite" electric bulbs. Agents for—Hortman Gear Co., Ltd., Bath, England ("H.B.E." Electric Time Switches); Landis & Gyr, Ltd., England (Electric

House Service Meters); Electric Transmission Ltd., England (Outdoor switchgear and fuses); Nalder Bros. & Thompson Ltd., England (Electrical measuring instruments); E. & B. Kaye Ltd., England (Bare copper wire, copper strips, plain and enamelled D.C.C. and S.C.C. wires); G. P. Dennis, Ltd., England (L. V. Switch Fuse Gear) H. K. Porter Company (Delaware) Electric Service Works, Philadelphia, U.S.A. (Crystal Valve Lightning arresters); British India Electric Construction Co., Ltd., Calcutta. Representatives for Western, Northern & Southern India for Switchgear manufactured to J. & P. Designs. Manager for India, Burma & Ceylon: C. E. Stewart. Tel. Address: "Johnphil." Phone No. 26-2457. P.O. Box No. 863.

JOLLY BROTHERS PRIVATE LTD.

Engineers and Contractors. [On approved A Class (No Limit) List of Govt. Departments.]

Lakshmi Insurance Building, Sir Phirozshah Mehta Road, Bombay 1.

Telephone: 263883/9.

Telegrams: "JOLLYBROS".

Shri G. R. Jolly, Managing Director.

Directors { K. L. Jolly.
T. N. Jolly.
S. N. Jolly.
R. R. Kochhar.

Branches:

Jamnagar: Jolly Bhavan.

Poona: Bund Garden Road.

Bangalore: Hindustan Aircraft P.O.

Calcutta: 242/1, Upper Circular Road.

JONES, J. D., & Co. (Bombay) Private Ltd.

Thermal Insulation Engineers

Contractors for Heat & Cold Storage Insulation, Boiler Furnace Bricklining and Approved Flooring Composition. Boiler Coverers in India for over 40 years.

Rustom Building, Veer Nariman Road, Fort, Bombay.

Tel. No. 253520. Tel. Address: "Mica." Post Box 337.

Associated Firm at: Calcutta.

London Correspondents:—J. D. Jones & Co. (London), Ltd., Lotus Works, Heligam Road, London, E.C.

J. Halley & Co., Ltd., 32, Nicol Road, Ballard Estate, Bombay. Importers of Oilman-stores, Provisions, Hair and Tooth Brushes, Toilet Papers, etc.

J. Ranchhodass Shah & Co., General Machinery Merchants, Kirti Building, Forbes Street, Fort, Bombay.

JOSEPH LESLIE & CO., Safety Engineers & Manufacturers of Safety appliances: 105, Apollo Street, Bombay 1. Phone: 251608; Grams: "LEONINE".

JOST'S ENGINEERING CO., LTD., Electrical & Mechanical Engineers and Contractors; Great Social Bldg., Sir Phirozshah Mehta Road, Fort, Bombay; M. R. Rao: General Manager. Post Box No. 243, Bombay 1. No. 64, Calcutta. Telephone Nos. 26-2697 and 26-2698 Bombay. No. West 23-2257 Calcutta. Tel. Address: "Jost"—Bombay "JOST"—Calcutta. Codes: A.B.C. 5th & 6th Editions, Western Union 5-letter, Benteleys.

Jostle Trading Corporation Private Ltd., The Electric Goods, Maskati Mahal, Lohar Chawl, Bombay 2.

JUGGAT SINGH'S SON & BROS., Manufacturers and Exclusive Distributors of Pharmaceuticals. Regal Cinema Building, 41, Apollo Pier Road, Bombay 1. Phone: 35812. Grams: "PHYDRUGCO".

Junna Thread Mills Private Ltd., Sewing Thread Manufacturers. Head Office: 81, Palton Road, Bombay. Phone Nos. 26-1924 and 26-1925. Factory: Koratti, Kerala State. Phone Nos. Chalakudi 62 & 64.

Jupiter Tube Corp., Ltd., Lead Tube Manufacturers, Reay Road, Dharukhana, Bombay 10.

J. V. MEHTA & CO., Automobile and Radio Specialists, Opera House, Bombay 4. Phone Nos. 70223-26. Prop. Res.: 74178. Grams: "JEVIMEHTA."

JYOTI LIMITED, Electric Motors & Pump Manufacturers, Lotus House, Marine Lines, Bombay 1. Phone No. 242635. Grams: "JYOTIPUMPS".

Jyoti Color-Emag Ltd., Lotus House, Marine Lines, Bombay 1.

Kabbur, Ltd., S. K., Chemicals & Dyestuffs, 3, Bastion Road, Fort, Bombay. Grams: "DIAZO". Phone: 26-1627.

Kachwalla, M. A., & Sons, Importers & Distributors of Glass Sheets, etc., 97-99, Dhanji Street, Bombay 3.

KAIKOBAD BYRAMJEE & SON, Sole Selling and Distributing Agents for Greater Bombay up to Ambarnath and Virar of:—*The Times of India, The Evening News of India, The Illustrated Weekly of India, The Dharmayug, The Navbharat Times, The Filmfare and The Parag.* Proprietor: Pheroz Kalkobad Byramjee. P. O. Box 836, Bombay 1. Grams: "INDIANA." Phone: 26-2355.

Kalamazoo Parchment Paper Co., India, Elphinstone House, Churchgate Street, Bombay.

KALVERT, A., & CO., 90/92, Masagaon Road, Bombay 10. Phone No. 42414. Tel. Address: "Curroauce." Manufacturers of Mango Chutney, Pickles, Curry Powder, Condiments, Squashes, Vinegar, Sauce, Syrups, Prumto, Canned Alphonso Mango Slices and Pulp, Prawn Balchow, Jams, Canned Vegetables, Mogial Mutton Biryani and Curry.

Kalyan & Sons, Piecegoods & Silk Merchants and Ladies' Dress Makers, Bode House, Ormiston Road, Apollo Bunder, Bombay 1.

Kamal Rubber Works Ltd., Rubber Balloons & Toys Manufacturers 71, New Citizen Bank Bldg., Palton Road, Bombay 1.

Kamani Engineering Corporation Ltd., Engineers, Kamani Chambers, Nicol Road, Ballard Estate. Phones: 26-1744 (5 Lines).

Kamani Metals & Alloys Ltd., Manufacturers of Brass, Copper, Phosphor Bronze and Zinc Sheets and Strips, Agra Road, Kuria North, Bombay 37. Phone: 67984 (3 Lines).

Kamdar Private Ltd., Furnishers & Decorators, Show Rooms, Industrial Building, opp. Churchgate Station, Fort, Bombay. Phones: 242347-8.

Kamlashankar P. Joshi & Co., Distributors & Stockists of Ball Bearings and Mill Gin Stores, 72-80, Nagdevi Cross Lane, Bombay 3.

Kamrudin Adamjee & Co., Motor Car Hood & Upholstery Materials Specialists, 135, Ibrahim Rahimtoola Road, Bombay No. 3.

Kanara Engineering Co., Ltd., Mount Road, Masagaon, Bombay 10. Refrigeration and Mechanical Engineers.

Kanchanal Maganlal & Co., Chemists & Druggists, Bode Chawl, Princess Street, Bombay 2.

Kanchanal Vaddal & Co., Chemists & Druggists, Mangaldas Road, Bombay 2.

Kanji Govind Kerson, Builders & Contractors, Military Contractors & Electrical Engineers, Jiji House, Ravelin Street, Fort, Bombay & Murbad Road, Kalyan.

Kanji Jadhavi & Co., Masjid Bridge, Bombay 9. Clearing, Forwarding, Shipping & Landing Stevedores.

KANSHI RAM KIDAR NATH (ESTD. 1918), 4-C, Vulcan Insurance Bldg., Veer Nariman Road, Bombay 1. Phone: 242217. Grams: "KAYSONS." Importers of Wooltops, Raw & Rayon yarn, Woollen manufactures and cotton piece-goods. Branches: Delhi and Amritsar.

KANTILAL BHOGILAL & CO., (ESTD. 1933), Engineering & Metal Cutting Tools, Precision & measuring tools, Garage tools and worm and Triple gear chain pulley Blocks and Abrasive products. 68, Nagdevi Cross Lane, Bombay 3. Phone: 30837 (Office) and 28947 (Residence). Grams: "PIPETOOLS."

Kantilal Company, Dealers in Batteries, Torches, Bulbs, etc., Jambhal Building, Abdul Rehman Street, Bombay 3.

Kantilal & Company, Importers of Cycles & Accessories, 170, Princess Street, Bombay 2.

Kantilal Keshavji & Co., Electrical Licensed Contractors, Manufacturers of Spherohot Water Heaters. 80-82, Vithalwadi Bombay 2.

Kantilal Sanghvi & Co., Importers, Exporters and Manufacturers' Representatives, Mherwan Building, Sir Phirozshah Mehta Road, Fort, Bombay. Tele. No.—Office: 253041; Residence: 28185. Tel. Address: "Expim."

Kapadia Brothers, Paint Merchants & painting contractors. Chief Stockists of "NOBLE PAINTS" 81, Abdul Rehman Street, Bombay 3. Phone: 29108. Grams: "DECORATORS."

KAPADIA & CO., Importers and Exporters' Bell Building, 19, Sir Phirozshah Mehta Road, Fort, Bombay 1. Grams: "WEDLOCK." Phone: 252942.

Partners.—Kariman Burjor Kapadia and Burjor Kariman Kapadia.

Importers of: Woollen, Cotton & Rayon Piece-goods, P.V.C. Plastic Sheetings, Leather Cloth, Oil Cloth, Essential Oils, Aromatic Chemicals & Sundries.

Karachi Electric Co., Electrical Engineers & Direct Importers, Himalaya House, Palton Road, Bombay 1.

Karachi Engineering Co., Asbestos Cement Products Suppliers, People's Bldg., Sir P. M. Road, Bombay 1. Phone: 262801.

Karanjia & Co. Private Ltd., N. B. Union Bank Bldg., Apollo St., Bombay 1.

Karimjee Trading Co. Private Ltd., Importers, Exporters and Commission Agents, 7, Hornji Street, Bombay 1.

Karnad & Bellare Ltd., 2nd Floor, Western India House, Sir Phirozshah Mehta Road, Fort, Bombay.

KAYCEE INDUSTRIES LTD., Electrical & Mechanical Engineers. Sole Selling Agents for Battery Chargers, Electroplating Sets, Transducer Power Plant. Manufactured by Hind Rectifiers (Private) Ltd., Bombay.

Representatives for:

"WESTINGHOUSE" Metal Rectifiers, "CHARMILLES" Water Turbines, "BRENTFORD" Voltage Regulators, "SPRECHER & SCHUB" Switchgear, "CLEVELAND" Water Meters,

"MOSS & GAMBLE BROS" High Speed Steel, Wires & Cables. "SANTON" Rotary Switches, "MARELLI" Exhaust Fans.

Head Office: Kamani Chambers, Nicol Road, Ballard Estate, Bombay 1.

Telephone: 262757. Telegrams: "KAYCE".

Branches: Delhi, Calcutta, Madras, and Kanpur.

KEMP & CO., LTD., Manufacturing Chemists & Pharmaceutical Agents.

General Manager:—S. Bhattacharya, M.A.

Assistants:—M. D. Chothia, B.A., LL.B.; U. S. Shah, B.Com., F.C.A.; and R. D. Kotwal, M.Sc.

Head Office and Factory: "Elphira House," 88C, Old Prabhadevi Road, Bombay 28. Tel. Address: "Pharmacy", Bombay.

Branches:—Sohrab House, Dr. Dada-bhoji Naoroji Road, Fort; 44, Cumballa Hill; Clare Road, Byculla; Taj Mahal Hotel; Sopari Bang Road, Parel; Dr. Annie Besant Road, Worli; Kashmiri Gate, Delhi; Connaught Place, New Delhi; 82-C, Chittaranjan Avenue, Calcutta 12 and 27/28, Armenian Street, Madras 1.

Kemcolor Industries, 193-195, Hornby Road, Bombay 1.

KERR, F. S., & CO. PRIVATE LTD., 125, Mahatma Gandhi Road, Fort, Bombay. Dealers in Dyes, Chemicals, Pharmaceuticals, Solvents and Pigments. Also Exporters of Frozen sea foods.

Representing:—

American Aniline Products Inc., New York, U.S.A.; Newport Industries Inc., New York, U.S.A. Tel. Address: "Kerindia." Phone: 254172.

Kerson Ramji Kalyanwalla, K. B. K. Bricks Manufacturer and Contractor, Jiji House, 17, Ravelin Street, Fort, Bombay.

KERSONS MANUFACTURING CO. OF INDIA PRIVATE LTD., Manufacturers of quality Electrical Accessories. Gopal Nivas, Lohar Chawl, Bombay 2. Phone: 20479. Grams: "SNIPR." Factory at Bhandup. Phone: 67388.

KESAR SUGAR WORKS, LTD., 45-47, Apollo Street, Fort, Bombay. Phone: 25-1301. Tel. Address: "KESUWORKS." Sugar Factory at Baheri (U.P.). Chemical Factory: Goregaon, Bombay.

Kesbo (Private) Limited (Formerly known as The Karachi Electric Stores (Bombay) Ltd. Electrical Engineers, and Importers in Electrical Goods. Sole Agents: "Burgess" Vibro Tools, Vibro Sprayers, Micro Switches. Executive Office: Bombay Mutual Terrace, 534, Sandhurst Bridge, Bombay 7. Phone: 71643. Warehouse: Arthur Bunder Road, Colaba, Bombay 5. Grams: "Rectifiers".

Keshavji Naraldas Jaliwala, Importers and Stockists of Wire Ropes, Non-Ferrous Metals, etc. 157, Abdul Rehman Street, Bombay 3. Phone: 25614. Grams: "GIRDHARI."

Keshavji Talakhchand Private Ltd., Cloth, Yarn, Staple Fibre & Jute Merchants, Importers & Exporters, India House, opp. G.P.O., Bombay 1. Telegraphic Address: "CHANDRODAY." Phone: 262934.

Branches at: Ahmedabad, Sholapur, Coimbatore, Madras and Salem.

Agencies at: Addis Ababa, London, Manchester.

Kesho Ram & Sons India Private Ltd., 314, Commerce House, Medows St., Bombay 1.

Keshowdas Hassanand Karachiwalla, Glass & Plywood Merchants, 256, Masjid Bunder Road, opp. Imperial Bank of India, Bombay 3.

Khanna & Co., S., Engineers, Builders, Quarry Owners & Decorators, Mustafa Building, Sir Phirozshah Mehta Road, Fort. Phone No. 251162. Grams: "CRETE&CO".

Kharas Bros., Merchants, Importers and Exporters of Piecegoods, No. 14, Hamam Street, Fort. Phone: 251805. Grams: "KHAYA."

Sole Proprietor: Dhanjiahaw B. Kharas.

KHATAU MAKANJI SPG. & WVG. CO., LTD., Laxmi Bldg., Ballard Pier, Bombay 1. Phone: 261093. Grams: "CRAFTS-MAN."

K. Hassaram & Co., (Estd. 1881). Manufacturers, Direct Importers and Wholesalers in Textiles and Hosiery of all kinds; World-wide Exporters. New Silk Bazar, Kalbadevi Road, P. O. Box 2142, Bombay 2. Phone Nos. 34152 and 35729. Grams: "HINDWASHI."

KHATAU VALABHIDAS & CO., Indian Globe Chambers, Fort Street, Bombay. Phone No. 261655. Tel. Address: "SCARLET", Bombay. Manufacturers' Representatives. Importers and dealers in Dyes, Auxiliaries, Pharmaceuticals and Chemicals. Branches: Delhi, Madras, Patna, Madras, Secunderabad, Cawnpore, and Bangalore. Agencies.—Ahmedabad, Nagpur, Indore, Delhi, Ludhiana, Amritsar, Rajahmundry, Calcutta, Miraj, Bhavnagar, etc.

Khemchand Rajkumar, Bombay Office: 213, Argyle Road, Bombay 9. (See Index to Advertisers.)

KHEMKA & COMPANY (AGENCIES)

PRIVATE LIMITED, Managing Directors: Mr. S. L. Khemka, Mr. B. P. Khemka, Mr. C. P. Khemka, Mr. N. L. Khemka. Exporters of Manganeses & Iron Ore. Sinking Agents for Metalexport, Building Contractors Machinery, Warsaw. Agents for Messrs. Polish Ocean Lines, at Calcutta, Bombay & Cochin. Bombay Office: Vulcan Insurance Building, 2nd Floor, 202-A, Veer Nariman Road, Churchgate Extension, Bombay 1. Telegraphic Address: "EXPORTIRON". Phone: 242244-45. Other Offices at: Calcutta, Madras, New Delhi, Nagpur, Vizianagaram, Vizagapatnam, Kakinada, Masulipatanam, Bezwa, Khamameth, Shermohamed Peth, Hospet, Thimmarcherla (Guntakal), Gooty, Velludri, Cuddapah, Chitaldroog, Gandhidham, Londa, Dabla, Jaipur, Nimakathana, Chomu, Cochin.

Khimandas Jagumal & Sons, Estd. 1910 (Sind). Engineers, Machinery Merchants, 12, Gunbow Street, Fort. Phone No. 26-1691. Grams: "EXFOCORP."

KHIMJI POONJA & CO., Banks' Muccadams; Clearing, forwarding and shipping Agents; Share, Cotton & Seeds Brokers, Bullion Merchants and Commission Agents; Ready Cotton Merchants, Commission Agents, Importers, & Exporters. Wadia Building, 19-21, Dalal Street, Fort. Phone Nos. 253510 and 251644. Tel. Address: "GAINSURE". Branch at Kandla Port (Kutch).

KHIRA STEEL WORKS PRIVATE LTD.

Manufacturers of fine steel furniture & equipment for homes, offices, hospitals, libraries, canteens and Patented 'Ajax' Aluminium Collapsible Awnings & Folding Roofs. H.O. & Factory: Ghodbunder Road, Santa Cruz, Bombay 23. Grams: "Steelcase"; Phones: 88002 & 89560. Regd. Office: Khira Bhuvan, Sandhurst Bridge, Bombay 7. Grams: 'Swakala'. Phone: 27636. Showroom: Fulchand Nivas, Chowpatty Sea Face, Bombay 7. Grams: 'Swakala'. Phone: 27108.

Khokhani & Company, Importers & Stockists of Fountain Pens and Spare Parts, Narayan Building, 38-42, Chippi Chawl, Bombay 2.

KIKABHOY CHANDABHOY, Paper & Strawboard Merchants. P. B. No. 2131, 38-38, Mangaldas Road, Bombay 2. Phone No. 88046. Tel. Address: "Creamland."

KILACHAND DEVCHAND & CO. PRIVATE LTD. 45-47, Apollo Street, Fort. Phone No. 25-1301. Tel. Address: "Seeds."

Importers and Exporters in Raw Cotton, Oilseeds and Oils, Cotton, Silk and Art-Silk Yarn and Piecegoods, Rayon, Chemicals, Jute, Hessian and Gunny Bags.

KILBURN & CO. PRIVATE LIMITED, Gresham Assurance House, Phirozshah Mehta Road, Bombay 1. Telegraphic Address: "Tasconium", Bombay. Phone: 25-1908.

Proprietors of Western Wireless Co.

Head Office: 2, Fairlie Place, Calcutta.

Branches: New Delhi, Madras, Kanpur, Ahmedabad, Nagpur, Bangalore and Secunderabad.

Foreign Correspondents: Kilburn Brown & Co., Dunster House, 37, Mincing Lane, London, E.C. 3, England.

MANUFACTURERS OF: Waterproofed Canvas, Tarpaulins and Tents (made to any size), Erskine Heap Starters and Oil Circuit Breakers, Victory Brand Sensitised paper (Ammonia & Ferro prussiate) Pharmaceutical Drying Ovens Water Still.

Agents for :-

Engineering Section :

Bramlign & Co. Ltd., London, England. ('Mikro' Pulverisers, Atomizers, Collectors).

Chandra Foundries Ltd., Madras. (Centrifugal Pumps).

Compagnia Genovese D'Esportazione, Genoa, Italy. (Machine Tool Manufacturers' Representatives and Exporters).

Copes Regulators Ltd., London, England. (Boiler Feed Water Regulators).

Crossley Bros. Ltd., Manchester, England. (Diesel Engines for marine and stationary applications).

Dewrance & Co. Ltd., London, England. (High Pressure Valves, Fittings and Boiler Mountings).

Drysdale & Co. Ltd., Glasgow, Scotland. (Pumps).

Erskine Heap & Co. Ltd., Manchester, England. (Electrical Switchgear, Motor Control Gear).

Fredk. Pollard & Co. Ltd., Leicester, England. ('Corona' Drilling Machines).

Gilbert, Gilkes, & Gordon Ltd., Kendal, England. (Hydraulic Turbine equipment and accessories).

Hugh J. Scott & Co. (Belfast) Ltd., Ireland. (Electric Motors).

Innocenti S. G., Milan, Italy. (Heavy Machine Tools and Rolling mill equipment).

J. & E. Hall Ltd., Dartford, England. ('Hallmark' & 'Hallford' Refrigerating and Air Conditioning Equipment).

James Howden Ltd., Glasgow, Scotland. (Forced and Induced Draught Fans, Air Preheaters, Steam Turbines and Dust Collectors).

John Holroyd & Co. Ltd., Rochdale, England. ('Holfoa', Spun-cast Phosphor Bronze Cored and Solid Rods).

Kostner Evaporator & Engineering Co. Ltd., London, England. (Evaporators, Spray Driers, Continuous Driers, Pickling Plant, etc.).

Lansing Bagnall Ltd., Basinstoke, England. (Mechanical Handling Equipment).

Lennox Foundry Co. Ltd., London, England. (Acid Resisting Metals and Plants).

London Electric Wire Co. & Smiths Ltd., London, England.

Vactite Wire Co. Ltd., Salford, England. (Bare Copper Wires, Insulated Copper Wires, Resistance wires, Strips, Bushes, etc.).

Manesty Machines Ltd., Liverpool, England. (Tablet Making Machinery, Distilled Water Plants, etc.).

Nuclear Engineering Ltd., London, England. (Radiographic Equipment).

Ohio Brass Co., Mansfield, U.S.A. (H.T. Transmission Line, Switch Insulators and Fittings).

Reed Crane & Hoist Co. Ltd., Bristol, England. (Cranes and Hoists).

Relfax Ltd., London, England. (Universal Marking and Printing Machines).

Russell Constructions (Export) Ltd., London, England. (Sieving machines, Tea-grading machines and strainers).

General & Office Equipment Section :

American Photocopy Equipment Co., Chicago, U.S.A. ("Apeco" Automat Photo-Copying Equipment and Supplies).

Barrow Hepburn & Gale Ltd., Mitcham, England. (Leather Belting, Pickling Bands, etc.).

Boler Petroleum Co., Philadelphia, U.S.A. (Lubricating Oils, Greases, Waxes, etc.).

Bruntons (Musselburgh) Ltd., Scotland. (Galvanised Wire Ropes).

Cawnpore Tannery Ltd., Kanpur. (Industrial Leather—"Ceeta" Brand Belting, Pickling Bands, Martingale Strapping, Tuggers, Etc.).

Deutsche Telephonwerke und Kabelindustrie, Berlin, West Germany. ("Hamann" Electrical and Hand-Operated Calculating Machines).

Dictaphone Corporation, New York, U.S.A.

Dictaphone Co. Ltd., London, England. (Dictating and Transcribing Machines).

Dictograph Telephones Ltd., Croydon, England. (Inter-Office Telephones).

Ditto Incorporated, Chicago, U.S.A.

Ditto (Britain) Ltd., London, England. (Spirit and Gelatine Process Duplicators).

Golf Ball Developments Ltd., Birmingham, England. ("Penfold" and "Bromford" Golf Balls).

Hall Harding Ltd., London, England. (Drawing Materials and Copying Machines).

J. Sloper & Co. Ltd., London, England. (Perforating Machines).

Joseph Wright & Co. Ltd., Tipton, England. (Heavy Shipping Chains).

Mulcott Belting Co. Ltd., Bradford, England. (Hair and Cotton Belting, Vee Belts, Plasticon Conveyor Belting, etc.).

National Time Recorder Co. Ltd., London, England. (Time and Attendance Recording Equipment).

Richards Ltd., Aberdeen, Scotland. (Flax Canvas Fire and Delivery Hose).

Universal Postal Frankers Ltd., London, England. (Postal Franking and Stamp Cancelling Machines and Employees' State Insurance Franking Machines).

Victor Adding Machine Co., Chicago, U.S.A. (Adding and Listing Machines).

Manufacturers of "Victory" Brand Sensitised Paper. (Ammonia and Ferro-Prussiate Papers).

Distributors for—

'Kilburn' V Belts.

'Kilburn' Hair Belting.

'Kilburn' Steel Belt Lacing.

'Kiloots' Synthetic Rubber Cots & Aprons.

Tru-Cut Hacksaw Blades.

Mining Equipment Section :

A. G. Wild & Co. Ltd., Sheffield, England. ('Sylvester' Pit Prop Withdrawers).

Austin Hopkinson & Co. Ltd., Manchester, England. ('Pikroso' Haulages—Flame-proof Electric (A.C.) and Compressed-Air). (Also Locally Manufactured Electric (AC) Single Speed Single Drum Haulages under Licence from U.K. Principals).

Automatic Coal Cleaning Co. Ltd., Carlisle, England. (Coal Washing Plant).

Barker Davies & Co., Pontypridd, Wales. (Safety Detachable Hooks, Rope Capps, etc.). (Locally Manufactured Winding Rope Capps).

Belmos Co. Ltd., Lanarkshire, England. (Flameproof Switchgear and Lighting Fittings).

Bruntons (Musselburgh), Ltd., Scotland. (Steel Wire Ropes, for all purposes).

Diamond Drill Syndicate, Calcutta. (Diamond and Calyx Core Drilling Contractors).

Distington Eng. Co. Ltd., Cumberland, England. (Mine Cars and Conveyors).

Etelco Ltd. (Ericsson Telephones Ltd.), London, England. (Mining Telephone Equipment).

Goodman Manufacturing Co., Chicago, U.S.A. (Continuous Borers and Coal Cutting Machines).

Hayden-Niles Ltd., Sheffield, England. (Belt Fastening and Repairing Materials, Hose Clips and Connections, etc.).

Hugh Wood & Co. Ltd., Gateshead-on-Tyne, England. (Mining and Industrial Conveying Machinery, Coal/Stone, Drilling Equipment, Diesel Locomotives, Slicers, Loaders, etc.).

Industrial Plastics (India) Calcutta. Duravyn Miners' Safety Helmets.

James W. Smallman Ltd., Nuneaton, England. (Haulage Clips for Endless Rope Haulage).

John Mills & Co. (Llanidloes), Ltd., Montgomeryshire, England. (Heavy duty Haulage Engines—Electric, Steam, Compressed-Air).

Oldham & Son (India), Private Ltd., Madras. (Mine Lighting Equipment:—Self-servicing Cap Lamps, and Accessories and Storage Batteries).

Oldham & Son Ltd., Denton, England. (Sole Overseas Distributors of I.G.D. Testing Instruments for Mines, Gas Plants, Oil Installations, etc. Also F.L.P. Tube Torches).

Triefus Industries Ltd., Crawley, England. (Industrial Diamonds, Drilling Bits, etc.).

KILLICK INDUSTRIES LTD., Industrialists. Killick House, Home Street, Fort, Bombay 1.

Authorised Capital: Rs. 150 Lakhs.
Issued & Subscribed Capital: Rs. 125 Lakhs.
Called Up Capital: Rs. 106,23,900.

Directorate: E. D. Sheppard, Chairman & Managing Director; Sir Purshotamdas Thakurdas, K.B.E., C.I.E.; Sir Chunnilal V. Mehta, K.C.S.I.; Jaisingh Vithaldas; K. G. Milne, Vice-Chairman and Managing Director.

Assistants & Administrative Staff: A. N. Haksar; P. D. C. R. Clark, C.A.; A. B. Jackson; A. Bennett, A.C.S.M., Assoc. Inst. M.M.; J. A. Colaco, B.E., A.M.I.E.E.; H. J. MacQueen, C.A.; Col. L. Sawhny; S. H. Captain; R. D. Modak, B.Sc. (Elec. Engrg.), Columbia; D. P. H. Rowe, A.C.S.M.; A. C. B. Millar; B. M. Maniar; S. C. Malhotra; S. A. A. Pinto; M. M. Talwar; P. R. Saraiya; B. J. Hoyce; P. J. Kapadia; N. Datta; M. J. Hill; L. Poppelwell; L. S. Warner; R. P. Alyer; N. M. Robertson; I. M. Desai.

Agents & Registered Offices:—The Kohnoor Mills Co., Ltd.; The Ahmedabad Electricity Co., Ltd.; The Surat Electricity Co., Ltd.; Bombay Suburban Electric Supply Ltd.; The Shivrampur Syndicate Ltd.; The Hingir Rampur Coal Co., Ltd.; The Central Provinces Railways Co., Ltd.

Manufacturers of "Light House" Brand Engineers' Steel Pipes.

Joint Members:—Cement Agencies Ltd., (Managing Agents: The Associated Cement Cos. Ltd.).

London Agents:—Messrs. Nixon Forrest & Co., Ltd., 16-17, Devonshire Square, Bishopsgate, E. C. 2.

Codes used:—A.R.C. 5th & 6th Editions. Bentley's, Scott's, Private.

Grams: "KINDRED." Phone: 26-2311. P.O. Box No. 109.

KILLICK, NIXON & CO. PRIVATE LTD. (A wholly owned Subsidiary of Killick Industries Ltd.), Killick House, Home Street, Fort, Bombay. General Merchants, Engineers and Steamship Agents.

Directors: E. D. Sheppard, K. G. Milne, A. N. Haksar.

Chief Executives: W. A. Hemmant, Brig. F. H. B. Ingall, D.S.O., O.B.E.

Engineering Department: W. A. Hemmant, M. B. Ogle, S. M. Nabar, A. T. Kothavala, M. M. Talwar.

Agency Department: Brig. F. H. B. Ingall, D.S.O., O.B.E. N. F. C. Hilling, V. P. Anand.

Standard Manufacturing Co.: S. L. Talwar.

Shipping & Clearing Department: F. Rozario, D. S. Kumana.

Finance & Accounts: N. Nath.

Calcutta Office: (F-2), Gillander House, 8, Netaji Subhas Road, Calcutta, 1)—S. Lal.

Delhi Office: (74, Janpath, New Delhi)—N. G. Takle.

Madras Office: (C/o Binny & Co., Private Ltd., 7, Armenian Street, Madras)—R. Parthasarathi.

Kandla Office: (Godown No. 88, Sardargan), Gandhidham, Kutch)—R. B. Anantani.

Attached Staff: Ellerman's City & Hall Lines—Capt. W. H. Dalton, Captain J. Mason-Price.

Shipping: The Hall Line; The City Line; T. & J. Brocklebank Ltd.; Bibby Line; Belships Co. Ltd.; T. & J. Harrison; L. Smit & Co.'s Internationale Sleepdienst, Rotterdam.

Agency Department: 31, Murzban Road, Bombay 1; Acclor (1948) Ltd., London; Bird & Co. (Private) Ltd., Calcutta; Boase Spinning Co., Ltd., Dundee; British Insulated Callender's Cables Ltd.; Cement Marketing Co. Ltd., London; Dewey & Almy Chemical Co., Massachusetts, U.S.A.; Fothergill & Harvey Ltd., Manchester ("TYGIAN" & "TYGLAS"); Gulf Oil (India) Private Ltd., Bombay; F. W. Heggiers & Co. (Private) Ltd., Calcutta; WMB International, A. B. Göteborg; James Sandy Pty. Ltd., Sydney; Masonite Corporation, Chicago; B. S. Mohindar & Co., Bombay; Paper Sacks Ltd., London; Paulson Paint Cellulose Works, Bombay; Sack Fillers Ltd., London; Snowcem India Private Ltd., Bombay; Stewois & Co., Bombay; Standard Manufacturing Co., Bombay; Own Manufacture: U. C. (Universal Cleanser) Detergents.

Engineering Department: 31, Murzban Road, Bombay 1. Aeronautical Services Ltd., Calcutta; Bell's Asbestos & Engineering (India) Private Ltd., Calcutta; E. Boydell & Co., Ltd., Manchester (MUIR-HILL DUMPERS); British Straddle Carrier Co., Ltd., London; Cement & Steel Ltd., London; J. Christopher & Sons Ltd., London; J. Collis & Sons Ltd., London; Ductube Co., Ltd., London; Electric Furnace Co., Ltd. (Group), Weybridge, Surrey; English Drilling Equipment Co., Ltd., London; Ing. F. Fiorentini & Co., Italy; Flight Refuelling Ltd., Dorset; Gifford-Udall Pre-stressing Equipment, England; I. H. C. Holland, Holland; Halifax Tool Co., Ltd., Halifax; Humphreys & Glasgow Ltd., London; C. H. Johnson (Machinery) Ltd., Stockport, England; Kumardhubhi Engineering Works Ltd.; Kumardhubhi Fireclay & Silica Works Ltd.; Loro & Parisini, Milan, Italy; Mitchell Coleman & Co., Ltd., London; Newton Chambers & Co., Ltd., Thornecliffe; Niagara Hercules (Great Britain) Ltd., Middlesex; Richard C. Gibbins & Co. Ltd., Birmingham; Slough Estates (London) Ltd.; SteMo Ltd., London; Turner Manufacturing Co., Ltd., Wolverhampton.

Insurance: British & Foreign Marine Insurance Co., Ltd.

Managers: Vickers India Private Ltd., Associated with Vickers-Armstrongs (Aircraft) Ltd., Vickers-Armstrongs (Engineers) Ltd., Vickers-Armstrongs (Shipbuilders) Ltd., Vickers-Armstrongs (Tractors) Ltd., and Metropolitan-Cammell Carriage & Wagon Co., Ltd.

London Representatives: Nixon, Forrest & Co., Ltd., 16/17, Devonshire Square, Bishopsgate, E. C. 2.

Tel. Address: "Killick" Bombay. P.O. Box 109. Phones: General Offices: 262011; Clearing & Forwarding Dept.: 261395.

Kirpalani & Co., P. Paper & Strawboard Merchants, Bulakidas Building, 11, Vithaldas Road, Bombay 2.

Kirti Agencies, Importers of Hardware, Chemicals, Drugs & Medicines, Cycles, Stainless Steel Non-Ferrous Metals, Corks & General Merchandise, 125, Medows Street, Fort, Bombay 1.

Kirtikumar & Co., Machinery Importers & Dealers, 25, Ropewalk Street, Fort, Bombay.

Kirtikumar & Co., Chemicals and Sizing Materials Dealers, 80, Bhandari Street, Mandvi, Bombay 3.

Kirtikumar Electric Corporation, Electric & General Merchants, 12, Tawawala Building, Lohar Chawl, Bombay 2.

Kishinchand Chellaram (Estd. 1916), Gasdar House, 629A, Girgaum Road, P.O. Box 2145, Bombay 2.

K. K. Shah & Co., Empty Bottles, Corks and Capsules Merchants, Sheriff Devji Street, Bombay 3.

Klimt & Lion Private Ltd., Agents for Import & Export in Textiles of all kinds, Western India House, Sir Phirozshah Mehta Road, Fort. Tel. No. 252452. Tel. Address: "Elkayco."

KODAK LIMITED (Incorporated in England with limited liability), Manufacturers of Photographic Materials, Kodak House, Dr. Dabibhai Naoraji Road, Fort, Bombay. Phone No. 26-2604 and 17, Park Street, Calcutta; 33/34, Faiz Bazar, Daryaganj, Delhi; and 2/155, Mount Road, Madras. Tel. Add.: "Kodak."

KOHINOOR ELECTRO GILDERS, Electroplaters, Khetwadi 10th Lane, Bombay 4. Phone: 71786.

Komal Mfg. Chemists, Ltd., 23-36, Masrani Mansion, Halow Bridge, Old Kuria, Bombay 37. Manufacturers of Toilet Requisites.

Kooka, N. D., & Co., Distributors for "TCO" Condensers, 13/19, Medows Street, Fort, Bombay.

Kooverji Devshi & Co. Private Ltd., Fire Protection Engineers, 164, Lohar Chawl, Bombay 2. (Also see under Fire Fighting Equipment Section).

Kooverji Karamshi Talpatriwala, Gaumukh Bhuvan, opp. Masjid Station, Bombay 9.

KORES (INDIA) PRIVATE LTD., Manufacturers of Carbon Papers, Typewriter Ribbons, Drytype Stencils, Duplicating Ink, Ink Tablets, Stamp Pads etc. **Head Office & Main Factory:** Plot No. 10, Off Haines Road, Worli, Bombay 18. Phone No. 73454 (Three Lines). Tel. Address: "KORESCARBO".

Branches & Factories: Ilaco House, 1 & 3, Brabourne Road, Calcutta; 1 & 7, Canal Street, Entally, Calcutta 14; 22A, Asaf Ali Road, Near Kamala Market, New Delhi.

Branches: 334, Thambu Chetty Street, 1st Floor, G. T., Madras; Pioneer Building, Weston Road, Kanpur; Balakrishna Nivas, Dr. Gogate's Bungalow, Kachiguda Station Road, Hyderabad-Dn.; 12/3, Mooljee Rawjee Colony, Devanga High School Road, R. 8, Puram P.O. Coimbatore; No. 16, 'Sri Sallam', Second Cross (Gandhinagar, Bangalore 9; 524, Gatradni Pole, Mandvini Street, Ahmedabad; Ginni House, Govind Mitha Road, Patna 4.

KORULA RUBBER CO. PRIVATE LTD., Manufacturers of Latex Foam Cushions, Telecord Cables, automobile parts, Rubber lined Tanks, Industrial Rubber goods, Gloves & Gumboots & Pharmaceutical Rubber goods, 249, Worli, Bombay 18. Phone: 41950. Grams: "ZIRCON", Bombay.

KOSMEK PRIVATE LIMITED, Sole Distributors of BINACA Toothpaste and Toilettries, 'BIERI' Fashion Jewellery, 'POLYTAINER' Polythene Containers. **Head Office:** 'Ceel Court', Lansdowne Road, Apollo Bunder, Bombay 1. P. O. Box 1690. Phones: 37834/5. Grams: "KOSDIST". Branches: Calcutta, Delhi, Madras.

Kosmos Paper Stores, Paper & Strawboard Merchants, 87A, Khadilkar Road, Bombay 4. Phone: 71901. Grams: "KOSMOPAP."

Kotak Brothers, 55, Forbes Street, Bombay 1. Office equipment merchants.

Kotak & Co., Cotton Merchants, Navsari Building, Dr. Dadabhai Naoroji Road, Fort. Tel. Address: "Kotakandco," Phone Nos. 263331-263332-263333, 263334, 263335.

KOTCHA & CO., Importers & Exporters of Cotton & Cotton Piece-goods, Commissariat Building, 231, Hornby Road, Fort.

Kothari Brothers, Textile Machinery and Mill-Gin Store Suppliers, Podar Chambers, Parsi Bazar Street, Fort.

Kothari & Sons, Importers, Exporters & Manufacturers' Representatives, 20, Noble Chambers, Parsi Bazar Street, Fort, Bombay.

Krishin, N., & Co., Stationers and Paper Merchants, Bombay Mutual Building, Hornby Road, Fort.

K. S. KAPOOR & CO., Advertising Agents, 25B, 3rd Floor, Noble Chambers, Parsi Bazar Street, Bombay 1.

K. T. Steel Industries Ltd., Manufacturers of Wire Nettings of all types. K. J. Building, Broach Street, Bombay 9.

Kulkarni & Co., Insurance underwriters, Merchants & Manufacturers' Agents, Navsari Building, 2nd Floor, Hornby Road, Fort, Bombay 1. Phone No. 262887. Tel. Address: "Kulkarco."

Kumar Commercial Co., Machinery & Oil Engines Importers, Nadirshaw Sukia Street, Fort, Bombay.

Kumar Stationery Mart (Estd. 1942), Importers, Stationers, Paper Merchants and Government & Railway Contractors. Sole Distributors of "Daylight" gem clips and pins, and "Telephone" Brand Ferro and Ammonia paper rolls. Podar Chambers, Store Lane, 109, Parsee Bazar Street, Fort. Phone No. 255803. Grams: "TRADEMOTO."

Kumar Stationery Stores, Manufacturers of all kinds of Stationery and Dealers in Stationery, Paper & Drawing materials, 9/A, Nadirsha Sukhia Street, Fort, Bombay. Phone: 255232; Grams: "KUMARSTORE."

KUMUDCHANDRA & CO., Importers of replacement parts for Textile winding machines. 20, Dalal Street, Fort, Bombay. Phone: Office: 253214. Godown: 264437. Grams: "VERYGOOD."

Kurwa and Kajji, Government, Railway and Marine Contractors, Shiphandlers, Ironmongers, General Hardware Merchants, 142-44, Abdul Rehman Street, Bombay 3.

Kusumgar & Co., Private Ltd., V. B., Direct Importers of Cycles & their Accessories, P. O. Box No. 2071, 50B, Kalbadevi Road, Bombay 2.

L. Kant & Co. For "Neon" & "Glow" Signs, Jan Mohamed Building, 318, Charni Road, Bombay 4.

L. R. Trading Company, Manufacturers of greeting cards for all occasions and "Flash" slip fasteners. Navsari Chambers, Outram Road, Fort, Bombay. Phone: 263141 & 264073. Grams: "SHAHANICO."

Laffans (India) Private Ltd., Rustom Building, Churchgate Street, Fort, Bombay.

LEKHANI & CO. Exporters of all types of Indian Goods; P. O. Box 2442, Bombay 2. Grams: "AFRIEXPORT",—Bombay.

LAKHANPAL PRIVATE LTD.,

Radio Receivers and Radio Parts Suppliers, 29, New Queen's Road, Bombay. Tel. Address: "ETHERWAVE". Phone: 22473.

Lakshmana Pillai V. D. S. Importers, Exporters & General Merchants, Dharamsee Building, 2nd Floor, 587, Girgaum Road, Bombay 2. Grams: "Veeyesol."

Lalithkumar & Co., Gums & Sizing Material Dealers, 86, Kazi Sayed Street, Bombay 3.

LALLUBHAI AMICHAND PRIVATE LTD., Manufacturers of all Non-Ferrous Metal-ware, Props. of "Dun Aluminium Factory". 225-227, Tardeo Road, Bombay 7. Grams: "Cyclebrand". Phone Nos. 41618 & 73220.

Lalwani Radio Corporation, 11, Tinwalla Bldg., Tribhuwan Road, Bombay 4.

Lancelot Norman's Mercantile Agency, Local Office:—Jan Mansion, Sir Phirozshah Mehta Road, Fort.

LANS METAL & ENAMEL WORKS PRIVATE LTD., Kasturchand Mills Compound, Tulsi Pipe Road, Dadar, Bombay 28. Phone: 80637. Grams: "LANSENAMEL". Manufacturers of E. I. Shades, Hollow Wares, Hospitalwares, Railways Reflectors, Signboards and such other Enamelled articles. Also solicit job work for Enamelling and Metal Pressing of every description.

Managing Director: M. I. Patel.

Sole Selling Agents: Patel Industrial Agencies, 413-C, Kalbadevi Road, Vasantwadi, 2nd Floor, Bombay 2. Phone: 30903.

LARSEN & TOUBRO LTD., Head Office: I. C. House, Douglas Road, Ballard Estate, Bombay. Telephone: 24-4411 (8 lines). Workshop, Parts Depot, Service Station, General Stores: Powal Estate, North Kuria. Telephone: 87997 (5 lines). Branches: P.O. Box 619, Calcutta, P.O. Box 5247, Madras, P.O. Box 323, New Delhi, P.O. Box 55, Cochin, P.O. Box 98, Bangalore.

Consulting Engineers, Manufacturers' Representatives, Contractors, Importers & Exporters.

Manufacturers of Plant and Machinery for Dairy and Allied Industries and Earthmoving equipment.

Importers of Agricultural and Earthmoving Machinery and Implements, tube-well drilling equipment Electrical Equipment & Switchgear. Industrial chemical and refrigeration plants and machinery for Pharmaceutical & bottling industries.

Directors: H. Holrik-Larsen, M. V. Desai, N. M. Desai (Ex-officio), Ambhalal S. Parikh, S. K. Tourbro, Dwarkadas H. Vora.

Managing Agents: L. & T. (Management) Private Limited.

Tel Address: "LARSENBO."

LAWRENCE & MAYO (INDIA) PRIVATE LTD., Qualified Sight-testing opticians and Scientific Instrument makers, 274, Dr. Dadabhai Naoroji Road, Bombay 1, Telegraphic Address: "Lynx", Bombay. Telephone No. 261827.

Laxmi Commercial Co., Importers and paper merchants, 44, Mirza Street, 1st Floor, Bombay 3. Grams: "LAXMI PAPER."

Phone: 40692 Grams: "THYMOL"
LAXMIDAS & DWARKADAS
(ESTD. 1914)
446, Sardar V. Patel Road,
Bombay 4 (India)
Importers of Radio Parts &
Accessories.
Makers of "OMEGA" Electronic
Products.
(Export Inquiries Solicited)

LATHAM ABERCROMBIE & CO. PRIVATE LTD.

Forbes Building, Home Street, Fort, Bombay. Merchants and Manufacturers' Representatives. Branches at Delhi, Calcutta, Madras.

F. H. Kemple, Director

Hon. R. D. Campbell, "

G. N. Fisher, Manager

J. M. Bobb, District Manager, Delhi.

R. M. Kapoor, District Manager, Calcutta, K. V. Chopra, Sales Manager, Madras.

Distributors for:—

Messrs. Ing. C. Olivetti & C., S.P.A., Ivrea, Italy. (Olivetti Typewriters, Calculators and Adding & Listing Machines.)

Messrs. Olivetti Telescriventi, Via Viotti 9, Torino, Italy. (Teleprinters.)

Messrs. Officina Meccanica Olivetti, San Bernardo O'lvrea (Torino), Italy. (Olivetti Drilling, Grinding, Milling Machines, etc.)

Messrs. Serio S.P.A. Macchine per Scrivere e da Calcolo, Via Mellerio 1, Milano, Italy. (Everest Calculating Machines.)

Messrs. Organizzazione Pozzi, Milano (207)—Via Serbelloni, 14, Italy. (Antares Calculating Machines.)

Ellams Duplicating Co. Ltd., Walton Road, Bushey Hall Road, Watford, England. (Duplicating machines, equipment and supplies.)

Marsh Stencil Machine Co., Belleville, Illinois, U.S.A. (Package stencilling machines and supplies.)

Messrs. Zeuthen & Aagaard A/S, 6, Esplanaden, Copenhagen, Denmark. (Context Adding Machines & Rex-Recorder Dictating Machines.)

Messrs. International Coin Counting Machine Co., Ltd., Alexandra House, Enfield, Middlesex, England. (Coin Counting Machines.)

Messrs. Skandinavisk Fotocopi A/S, 5, Baggesengade, Copenhagen N, Denmark. (Photocopying Machines.)

Telephone: 26-8081 (Ten lines).

Telegrams: "Latham".

P.O. Box No. 113.

Laxmi Electric Trading Co., Electrical Equipment, Radios, Refrigerators, Spare Parts and Accessories. 37, Sitaram Building, Hornby Road, Fort.

Laxmi Syndicate, Machinery Importers, 4th Floor, Lentin Chambers, Dalal Street, Fort, Bombay.

Laxmidas & Dwarkadas, Radios & Radio Parts Manufacturers, Laxmi Bhuvan, Sardar Patel Road, Bombay 4.

L. Bhagat & Company, Importers of Watches, Clocks and Time-pieces, Abdul Rehman Street, Bombay 3.

L. Dewan & Son, Cargo Supdts. and Shipping Agents, Jan Mansion, Sir Phirozshah Mehta Road, Fort, Bombay.

Phones: Grams:
82018 & 71818 "GAYPANKAJ".

LEATHER CLOTH PROCESSORS & PRINTERS

Moghul Lane, Matunga, Bombay 16.

Manufacturers of: "LEATHERIDE" brand Leather Cloth for Book Covers, Travel Requisites, Shoes and Chapels, Railway Coaches, Cinema seats, Bus seats, Car Upholstery and Household Furniture.

LEDERLE LABORATORIES (INDIA) PRIVATE LTD., Central Office: "The International," 16, Queen's Road, Bombay 1. Phone: 241144 (5 lines). Grams: "LEDLAB."

Western Regional Office & City Sales Depot: "India House," opp. G.P.O., Bombay 1. Phone: 262904, 264746. Grams: "LEDERSALES."

Factory: at P.O. Atul, via Bulsar. Phone: 29.

Lee & Muirhead (India) Private Ltd., Clearing, Shipping, Travel, Warehousing & Insurance Agents. 12, Rampart Row, Fort. Phone: 251571 (5 lines). Grams: "LEMUIR."

LEGAL & GENERAL ASSURANCE SOCIETY LIMITED, (Fire, Marine & Misc.). Head Office: 188, Fleet Street, London, E.C. 4. Chief Office for India: Madurai; Manager for India, Pakistan & Ceylon: S. C. Rawlinson. Bombay Office: Gresham Assurance House, Sir Phirozshah Mehta Road, Fort. Manager: J. X. deSouza; Phone: 255088 (2 Lines). Grams: "LEGRESH." Branches at: Calcutta, Madras, Ahmedabad, Delhi, Nagpur, Sholapur, Coimbatore and Cochin. Agents and Representatives throughout India.

Levetus (Agents) Private Ltd., Manufacturers' Representatives. Bombay Office: 408/409, Himalaya House, Falton Road, Bombay 1.

Liberty Printing Works, 40, Police Court Lane, Bombay 1.

Light Building Materials Co., Manufacturers of Modern Electric Lights and Floor Tiles Moulds. 83-A/83-B, Tardeo Road, Bombay 7.

Light House, Stoves & Gas Lamps Manufacturers, 51, Kitchen Garden Lane, Bombay 2.

Liladhar, P. Shah, & Co., Importers, Exporters and Commission Agents, 535, Samuel Street, Vadgadi, Bombay 3.

Liladhar Pasoo & Co., Shipping and Clearing Agents, 282, Narahi Natha Street, Bombay 9.

Lilaram Kewalram & Sons, 12, Kishore Building, opp. Edward Cinema, Kalbadevi Road, Bombay 2. Bankers, Manufacturers' Representatives.

Linotype and Machinery, Ltd. Printing Machinery Manufacturers. Head Office: 21, John Street, Holborn, London, W.C. 1. Works: Altrincham, Cheshire. Head Office for India: 14, Madan Street, Calcutta 13. Bombay Branch: 11-13, Hornblum Circle. Tel. Address: "Linotype." Phone No. 251068. Madras Branch: 10/29, Mount Road.

LINTAS LIMITED, International Advertising Agents. "Dugal House," 169, Backbay Reclamation, Churchgate, Bombay 1.

LIONEL EDWARDS (PRIVATE) LTD., Nicol Road, Ballard Estate, Bombay. Head Office at Calcutta. Freight and Steamship Agents. Managing Agents: India Steamship Co., Ltd. Agents: American Export Lines, Inc., New York. Pacific Far East Line Inc., San Francisco. Parry Lines Inc., New York. M. Nemasee, Hongkong. Codes used: Bentley's 1st & 2nd Editions and New Boe Code. (Tel. Address: "LIONWARDS"—All Offices.) Phone Nos. 26-1241/43. Post Box 1000.

LION PENCILS PRIVATE LIMITED

Pencil Manufacturers,
95, Marine Drive,
Bombay 2.

Phone: 242715.

Grams: "JOCKLYN".

Lipton (India) Ltd., Ilaco House, Sir Phirozshah Mehta Road, Bombay. Tel. Address: "Lipecta." Phone No. 262769.

Little & Co., Solicitors and Notaries, Central Bank Building, Fort, Bombay, N. J. Apthorpe-Webb, J. S. Bapasola, N. B. Vakil, O. J. E. Grundy, J. J. Vakil, K. J. Chokshi, N. A. Modi. Cable Address: "Legal," Bombay. Phone: 251281/82.

LIVERPOOL & LONDON & GLOBE INSURANCE CO., LTD., THE (Incorporated in England; Shareholders' Liability Ltd.) 12, Jamshedji Tata Road, Bombay. (Fire—Loss of Profits—Motor—Accident (all classes)—Engineering—Aviation—Marine). Secretary: D. H. Twemlow. Tel. Address: "Globeaux." Phone: 37125 (5 Lines). Post Box No. 1848. Head Office:—1, Dale Street, Liverpool, England.

Lloyd's Register of Shipping, Laxmi Building No. 2, Ballard Road, Ballard Estate, Bombay.

L. KANT & CO., for 'NEON' & 'GLOW' Signs and 'MERCURY SWITCHES.' Jan Mohammed Building, 318, Charni Road, Bombay 4. Grams: 'KANTCO'. Tel. 22539.

LLOYD TRIESTINO, Navigation Company, Post Box No. 1080, Bazargate Street, Fort, Bombay 1. Phone No. 252888. Grams: "Lloydiano."

LONDON, EASTERN & AMERICAN TRADING CO. PRIVATE LTD., Sole Proprietors:—'AA', 'XLN', 'A-1', 'AONE' Electric Lamps and Accessories. 'Drill', 'Sunspecial', 'XLN', 'A-1', 'Mantles', 'Premier', 'Commander', Cable Wires, 'Royal Fire-Extinguisher'. Sole Agents for Silver and Oosmania Clips, Splendor Lamps, 'LEA' Fans, 'Britmas' English Electrical Accessories. Dealers in Electric Fans, Fixtures, Accessories, Eveready Flashlights and Novelties. Phone No. 252909. Tel. Address: "Sanguine," 22, Hamam Street, Fort.

LONDON & PROVINCIAL MARINE & GENERAL INSURANCE CO., LTD., 10, Bruce Street, Fort, Bombay. Grams: "LOPPROMAR." Phone: 252321. Post Box No. 842.

Lookmanji Moosaji, Furniture Fittings Merchant, Diamond Building, Lohar Chawl, Bombay 2.

Louis Dreyfus & Co., Ltd., Nicol Road, Ballard Estate. Tel. Address: "Dreyfus."

LUCAS INDIAN SERVICE PRIVATE LTD., Dealers & Repairers of Motor Car Electrical Equipment, Diesel Fuel Injection Equipment and Aircraft Electrical Equipment. Head Office: 15, New Queen's Road, Bombay 4. Phone No. 23301. Tel. Address: "Lucasind." Branch Offices at: 46, Rafi Ahmed Kidwai Road, Calcutta 16 and Patullo Road, Madras, 2.

Loucatos & Co., G., Importers of Pharmaceuticals & Chemicals, Mercantile Chambers, Graham Road, Ballard Estate, Bombay 1. Phone: 263489. Grams: "Gerassimos."

Luis, Manufacturers of Naval, Air Force, Civil, Military Caps, Shoulder and Cap Badges, Stockists of all kinds of Wedding Requisites. Opp. G. T. Hospital, 280, Carnac Road, Bombay 2.

Lusob Trading Co., Consulting Engineers, Machinery Importers and Dealers, Specialists in Ventilation and Dust extraction. Bell Building, Sir Phirozshah Mehta Road, Bombay. Tel. Address: "Lusobtraco." Phone No. 252612.

Luxmi Engineering Works, Engineers & Metal Founders, 197, Corner of Grant Road, Bombay 8.

M. A. Mullick & Co., Export & Import, Rangoonwalla Bldg., 91, Mohamedali Road, Bombay 3. Phone: 29935. Grams: "ZANJABIL," Bombay.

M. C. Mody & Bros., Electrical Engineers & Importers. 125A, Lohar Chawl, Bombay 2.

M. J. Patil & Co., Pipe Fittings & Sanitaryware Merchants, 46, Nagdevi Street, Bombay 3.

M. Pranjivandas & Co., Empty bottles & corks, 79-B, Princess Street, Bombay 2.

M. R. VERMA & SONS, 60, Lakshmi Bldg., Sir P. Mehta Road, Bombay. Phone: 261643. Grams: "KAMYAB." Exporters of Indian merchandise.

M. V. Joshi & Co., Tarpaulins Dealers, 31, Isaji Street, Bombay 3.

MACFARLANE & CO., LTD. (Managing Agents:—James & Co., Private Ltd.), 34, Lamington Rd. (N.), Bombay 8. Telegrams: "Taurus." Phones: 41271 & 74265. Regd. Office: 25, Netaji Subhas Road, Calcutta 1. Manufacturers of "Vais" Paints, Enamels, Varnishes & Distempers and "Valamoid" Plastic Roofing Compound. Agents for Valentine's "Valspar" Products. C. L. Paricha, Manager for Bombay.

Machine Tools Corp., Mill gin Store Merchants, 158-160, Narayan Dhuru Street, Bombay 3.

MACHINE TOOLS (INDIA) PRIVATE LTD., "Imperial Chambers," Wilson Road, Ballard Estate, Bombay. Tel. Address: "Immaculate." Post Box No. 522. Phone No. 263269. Head Office: Wimet House, 12-A, Russell Street, Calcutta 16. Tel. Address: "Machtools." Phone: 23-1161. Bangalore Office: 41, Silver Jubilee Park Road, Bangalore 2. Tel. Address: "IMMACULATE." Phone: 4807.

MACHINE TOOLS & IMPLEMENTS, Engineers, Hardware Merchants and Industrial Suppliers. Approved Suppliers to D.G.S. & D. and Other Government Departments, Railways and Prominent Workshops. Stockists of Ball and Roller Bearings, Tool Steels, Hardwares and Small Tools, etc. Main Office: 93-95, Narayan Dhuru St., Bombay 3. Phones Office: 22868. Residence: 242425. Tel. Address: "Machtools."

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Staff Manager: D. W. McKay.

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rister-at-Law., P. A. Wagie, R. W.
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gation Co., British India Steam Navi-
gation Co. Ltd., Isthmian Lines, Inc.,
James Nourse Ltd., Canadian Pacific
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asian United Steam Navigation Co.
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*Macmillan & Co., Ltd., Publishers, 276,
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tional Adviser.*

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oroji Road, Fort. Cigarettes, Cigars and
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*Madan Mohan Jain & Sons, Approved Govt.,
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Suppliers, Mill Stores Importers and
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dress: "Madanmohan." Phone No. 20262.*

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Stockists: Chil Pine, Fire Pine, Teak
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Office: Foras Road, Bombay. Corre-
spondence at: 15/A, Elphinstone Circle,
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27, Ghoga Street, Fort, Bombay 1.
Phone: 253502 (Office) & 40634 (Res.).
Grams: "VIEVANDAN". *Factory:*
Udyognagar, Bhaktinagar Station
Road, Rajkot (Saurashtra). Phone: 201.
Proprietor: M. K. Sanghavi.

Madhusudan Gordhandas & Co., Importers
and Exporters of Textiles & Yarns, P.O.
Box 2110, Ganeshwadi, M. J. Market,
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MAEVI & COMPANY, Nawab Building,
4th Floor, 327, Hornby Road, Fort,
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Pearls and Precious Stones, 184-186,
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PRIVATE LTD.,** Glass Manufacturers,
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butors for Dia Chemic (German D.R.)
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No. 807A. Phone: 37041. Grams: "COAL-
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Dhanji Street, Bombay 3. Phone: 27691.
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Paris 8, France. (Iron & Steel
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Brook Works, Latchford, Warring-
ton, U.K. (Iron & Steel Materials).

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ials).

Mitsubishi Shoji Kaisha Ltd., 10,
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Mahomedally Valibhai, Hardware Merchants, Shipchangers and Paints and Varnishes, 88, Abdul Rehman Street, Bombay 3.

Mahomedally Vallji Ariswala, Direct Importer and Dealer in all kinds of Glasses, Plywoods, Picture Mouldings, etc., 76, Abdul Rehman Street, Bombay 3. Phone: 38400.

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Manoel & Co., Stationers and Booksellers, Jer Mahal, 550, Kalbadevi Road, Bombay. Tel. Address: "Manoelco."

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MANUFACTURING ANALYTICAL & RESEARCH CHEMISTS PRIVATE LTD., Manufacturers of pharmaceutical specialties, cosmetics, etc.

Factory:—Bhandup (Phone Nos. 67775-6, 67226).

Office:—Esplanade House, Waudby Road, Fort, Bombay 1. Phone: 26-1541, Tel. Address: "Marchema."

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 Stores: 261270.

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Branch Manager: K. B. Sethna.

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Branches at: Delhi, Kanpur.

London Office: Martin Burn Ltd. (London Agency), Martin Burn House, 12, Austin Friars, London E.C. 2.

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Tokyo Office: Ohtemachi Building, No. 2, 1-Chome, Ohtemachi, Chiyoda-Ku, Tokyo, Japan. P.O. Box Central 595, Tokyo, Japan. Cable Address: MARUBENI, TOKYO.

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Calcutta Office: 5, Clive Row, Calcutta. Cable Address: MARUBENI, CALCUTTA, Tel. 222162.

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Import Items: Textile Raw Material, Wool Goods, Industrial Raw Material, Chemicals, Log and Lumber, Marine and Agricultural Products, Grains, Food Products & Feeds, Fats, Oils and Oilseeds, Fertilizer, Steel Products, Scrap, Ore & Concentrates, Non-Ferrous Metal, Fuel, Machinery, Atomic Instrument, etc.

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Masrani Mill Gin Stores, Ball-bearings Importers & Stockists, 46, Nagdevi Cross Lane, Bombay 3.

Master, A. M., & Co., Manufacturers of all kinds of Scales and Weights, 179-81, Janjkar Street, Bombay 3.

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Mehta Textile & Hardware Stores, Hardware, Tools, Engineering Stores, Pipe fittings & General Merchants. 158/160, Narayan Dhuru Street, Bombay 3.

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Motilal Dayabhai & Sons, Jewellers, 208, Walkeshwar Road, Bombay.

Motilal Vijbhukhandas, Bullion Merchants, 155, Shaikh Memon Street, Bombay 2.

Motiwala & Sons Private Ltd., Importers, Exporters, Yarn and Piece-goods Merchants, 91, Mahomedally Road, Bombay 3. Phone: 23318. Grams: "Premium."

Motor Hood Depot, The, Motor Body and Upholstery materials. 480, Sandhurst Road, Bombay 4. Phone: 71097. Grams: "MOTORHOOD."

MOTOR HOUSE LIMITED, Estd. 1927. Admn. Office and Showrooms: "House of Mehta", Hughes Road, Bombay 7, P.B. No. 6548, Bombay 26; Cables: "MOTORHOUSE", Bombay. Telephone Nos.: 77435 and 77436. Divisional Offices: Bombay (Fort) and New Delhi.

Automobile Division: Kaiser-Frazer, Reo and Bradford: Pioneers of Automobile Assembly in India; Assemblers of Kaiser-Frazer Motor Cars, Reo and Bradford Commercial Vehicles; Manufacturers of Custom Automobile Bodies; Manufacturing Plant and Warehouses: 18, Rife Range, Ghatkopar, Bombay-39. Tel. No. 67441.

Parts Division: Kaiser-Frazer, Reo and Bradford: Sole Importers and Exclusive Distributors in India of genuine Kaiser-Frazer, Reo and Bradford Parts and Accessories; Bombay Sales Depot: "Krishna Bhuvan", 442-43, Sandhurst Road, Bombay-4.

Halda Facit Office Equipment Division: Exclusive Sales and Service Concessionaries of HALDA Typewriters, FACIT Calculators, FACTA Adding and Listing machines and other specialized office equipment; Town Sales Office: Dhan-Nur, Sir P. Mehta Road, Fort, Bombay. Tel: No. 261311.

Engineering Division:

(a) ROTOTILLER: Sole Importers and Exclusive Distributors for ROTOTILLER 6 h.p. Tractor and Implements.

(b) KELLOGG-AMERICAN: HANCOCK GARAGE EQUIPMENT: Importers of Kellogg American Air Compressors, Hancock Metal Cutting Machines, Garage Equipment and Tools. Bombay Sales Depot: "Krishna Bhuvan", 442-43, Sandhurst Road, Bombay 4.

Domestic Appliances Division: Crosley-Easy: Sole Importers & Exclusive Distributors of Easy Washers and Dryers, Crosley Shelvador Refrigerators and other Electrical Appliances.

Office Equipment Division: Exclusive Sales and Service Concessionaires of Halda Typewriters and Facit Calculators, Facta adding and listing Machines and other specialized office Equipment; Service Station and workshop: Dhan-Nur, Sir P. Mehta Road, Fort, Bombay. Phone: 261311.

MOTOR INDUSTRIES CO., LTD., Manufacturers of Mico-Lioence-Bosch Fuel Injection Equipment & Spark Plugs. Stockists of Bosch Automobile Parts & Accessories. 41, Queen's Road, Bombay 2. Phone: 39085. Grams: "ELEMENT". Head Office: Post Box No. 93, Bangalore. Branches: 1/155, Mount Road, Madras 2 & 77-B, Park Street, Calcutta 16.

MOTOR UNION INSURANCE CO., LTD., THE (Incorporated in England with Limited Liability), 16, Veer Nariman Road, Fort, Bombay. Fire—Motor—Marine—Accident—Workmen's Compensation, etc.
Tel. Address:—"Motunion."
Phone No. 255136 (3 Lines).
Post Box 595.
Resident Manager:—H. M. Chawalla.

MOTWANE (PRIVATE) LTD., Incorporating Eastern Electric & Engineering Co. Private Ltd. and CHICAGO TELEPHONE & RADIO CO. PRIVATE LTD. (Estd. 1909), Electrical, Mechanical and Electronic Engineers and Contractors for everything in electrical, electronic, mechanical and tele-communication equipments, sound systems and industrial plants, 127, Mahatma Gandhi Road, Post Box No. 1312, Fort, Bombay 1. Phone No. 252337 (3 lines). Branches at 25, Chowringhee, Calcutta; 48, Hazratganj, Lucknow; 68, Queensway, New Delhi; 196, Mount Road, Madras; 93-94, Sri Narayana Road, Bangalore, 2; 5/E, Rashtrapati Road, Secunderabad, (Dn.). 422, Lamington Road, Bombay 4. Tel. Address: "CHIPHONE", all offices.

Muchhala, & Co., H. E., 176, Bazar Gate Street, Fort.

MUKAND IRON & STEEL WORKS LTD. (Managing Agents: Jeevan Private Ltd.). Owners of Electric Steel Melting Furnaces, Rolling Mills, Steel & Iron Foundries. Manufacturers of Mild Steel Bars and Rods in Tested and Commercial Qualities, Steel Castings, Manganeese Steel Castings and Cast Iron Castings for Railways, Wagon Builders, Locomotive Works, Cement Works and other Industries. Works and Admn. Offices: Bombay-Agra Road, Kuria, Bombay 37. Phone: 67471 (4 lines). Grams: "STEEL", Bombay; "JEEWAN", Kuria.

MULCHAND SOORCHAND, Dealers in Copper and Brass Rods, Pipes, Sheets, Sheathings, Rivets, Washers, Metals, etc., Tambakanta, Pydhownie, Bombay 3. Phone No. 73465. Tel. Address: "Mulsur."

MULCHANDANI ELECTRICAL & RADIO INDUSTRIES PRIVATE LTD., Manufacturers of Bush Radio, Components and Hunts Capacitors. Sukh Sagar, Sandhurst Bridge, Hughes Road, Bombay 7. Phone: 74546. Grams: "MULRAIN".

Mulla & Mulla and Craigie, Blunt & Caroe, Jehangir Wadia Bldg., 51, Mahatma Gandhi Road, Bombay 1. Tel. Address: "LEGES". Phone: 255141.

Mulraj Khatau & Sons Private Ltd., Laxmi Building, Ballard Road, Fort. Phone Nos. 28-1093/94. Directors: Dr. Dharamsey Mulraj Khatau, J.P., Chandrakant Mulraj Khatau, Lalitkumar Mulraj Khatau, Abhay Laxmidas Khatau and Ashokkumar Morarji Khatau. Tel. Address: "Emandeu."

Mulvaney & Co., Ltd., John L. Bombay Mutual Building, Hornby Road.

MUNSHI & CO., PRIVATE LTD., Engineers, Engravers and machinery merchants. Manufacturers of Soap plants, Cake mixers, Chocolate mixers, Rubber mixing rollers, Ink making machines, Cardboard box making machines, Wax candles making machines, Bakelite presses,

all kinds of Embossing, Dies, Punches, Stamps, Dies for Electrical accessories and stainless steel bolts, nuts and screws, etc.

Office: 181-83, Bapu Khote Street, Pydhownie, Bombay 3. Phone: 73559, Tel. Address: "SPECIALDIK".
Factory: Munshi Cottage, 681, Haines Road, Worli, Bombay. Phone: 76086.

MUNSHI & CO., Transport Contractors of 3 decades. 82-G, Mohamedali Road, Bombay 3. Phone: 34242. Grams: "LORRAYMAN".

Murphy Radio of India Ltd., Dr. Shivakar Road, off Hospital Avenue, Parel, Bombay.

Muary, G. N. Private Ltd., Importers & Exporters. Canada Building, Home Street, Fort. Phone: 261435.

Mysore Chemical & Soap Works, Slon, Bombay 22.

N. JIVANLAL & CO., PRIVATE LTD., 50, Princess Street, Bombay 2. Phones: 20551 & 38011-12. Grams: "NIRA-JAN". Importers, Stockists of Heavy & Light Chemicals, Dyes, Pharmaceuticals, Solvents, Fertilisers, Carbon Blacks.

N. P. Master & Co., Exporters & Importers, 17, Gunbow Street, Fort.

NADIRSHAW & BRO., Engineers, Brass & Iron Founders, Manufacturers of all sorts of Machinery Spare Parts, Boiler-maker Work and Contractors. "Silver Talkies" Building, Khetwadi Back Road, Bombay 4. Phone No. 71504.

Nadirshaw Printer & Co., Suppliers of Dental Goods and Equipment, 121, Mahatma Gandhi Road, Fort.

NAGDEVI TOOL-STEEL MART.

R. Balasubhai & Co.
Steel Merchants,
Government & Railway Contractors,
186, Nagdevi Street,
Bombay 3.
Phone Nos. {39919 Grams:
23068 "Tenderers".

NAGINDAS KILASHI & CO., Direct Importers and Distributors of Textile Mill Stores, Crescent Chambers, Tamarind Lane, Fort, Bombay. Phone: 253559. Grams: "HONOUR."

NANDALAL GANDEI & CO., Exporters of Vegetable oils, Oil Seeds, Oil Cakes, Spices & Textiles. Rehman Buildings, Churchgate Street, Fort, Bombay 1. Phone: 252118 Gram: "ASPIRING".

NARANDAS PRAMENANDAS, 231, Dr. Dadabhai Naoroji Road, Fort. P.O. Box No. 1739, Bombay 1 and 272, Vadtgad, Bombay 3. Tel. Address: "SHERGOLA." Phone: 38881.

Head Office:—37, Armenian Street, Calcutta. Tel. Address: "Kundlaker." Phone: 333499. General Importers, Exporters and Manufacturers of Dyestuffs and Chemicals Auxiliaries.

Narandas Rajaram & Co., Private Ltd., Cotton Merchants & Textile Exporters. Navsari Chambers, Outram Road, Fort, Phone: 261861.

Narendra Electric Stores, Electrical Goods & Appliances Merchants, 158, Lohar Chawl, Bombay 2.

Narendraroy & Company (Proprietor: Jaswant Singh Sahani) Dealers in Cycles and Accessories, 453, Kalkadevi Road, Bombay 2. Phone: 38486.

Nariman B. Bharucha & Sons, Builders, Civil & Sanitary Engineers, Specialists in prestressed & Thin Shell Concrete Structures, Khadakdia Terrace "B", Gowalla Tank Road, Bombay 26. Phone: No. 40914. Grams: "BAEUKSONS."

NAROTAM & PEREIRA PRIVATE LTD., Shipping and Insurance Agents, Dubashes, Colombo and Galle. Registered Office: Seindia House, Dougall Road, Ballard Estate. Tel. Address: "Jalatharg." Bombay. Phone No. 26-2461. Directors: Smt. Sumati Morarjee (Chairman), S. C. Sheth, F. X. A. Pereira, R. P. Vevaina, J. C. Nanavati, V. C. Mashruwala and S. C. Banker.

NAROTAMDAS BHAU

(ESTD. 1864)

LEADING JEWELLERS
OF THE EAST

LAMINGTON ROAD, BOMBAY 4.

PHONE NO. 71433.

Branch at: Sheikh Memon Street.

PHONE NO. 20563.

Narotamdass Karandas & Co., International Oil-Products Importers, Merchants and Distributors and General Indenting Agents, 278, Dr. Dadabhai Naoroji Road, Fort, Bombay. Tele. 26-2215.

Narsi Mulji & Co., 179, Khoja Moholla, Bombay 9. Merchants, Commission Agents, Importers & Exporters of Grain, Seeds and Gums.

Nasserwanji & Co., Government & Municipal Contractors, 10-B, Homji Street, Fort. Phone No. 263692.

Partners:—Jeejeebhoy N. Dubash and Rusi N. Dubash.

Naterwalla, & Co., S. R., Dealers in Canvas, Tapestries & Furniture Cloth & Railway Stores, Bombay Mutual Annexe, Gunbow Street, Fort.

National Advertising Service, Private Ltd., People's Building, Sir Phiroozshah Mehta Road, Fort. Grams: "Jeyenjoy". Bombay P.O. Box No. 511. Tel. Nos.: 263023, 24, 261060. Offices at I.E.N.S. Building, Old Mill Road, New Delhi and 66, Bentinck Street, Calcutta; Associates all over the world.

National Engineering Industries Ltd., 26, Calcutt Street, Fort, Bombay 1. Manufacturers of Ball Bearings.

NATIONAL CARBON CO. (INDIA) LTD., Manufacturers of "EVEREADY" Products. Lakshmi Building, Sir Phiroozshah Mehta Road, Fort, Bombay 1. Phone: 264521 & 264522. Grams: "Eveready".

NATIONAL CASH REGISTER CO., Steelcrete House, Dinsha Wacha Road, Back Bay Reclamation, Bombay 1. Phone No. 35955. National Cash Registers, Adding, Accounting and Analysis machines; Agents for India: "Addressograph" Adding and Embossing machines, Friden Calculators, Multigraph and Multilith Printing machines and Banda Dupli-cators. Head Office: CALCUTTA.

NATIONAL DYES, Manufacturers of Dyes & Auxiliaries, such as, National Congo Red, Developing Salts, Solubilised Anilic etc. Bombay Mutual Chambers, 19, Hamam Street, Fort, Bombay. Phones: 254193 (Office); 641234 (Factory); 76999 (Res.) Grams: "RAPIDFAST".

NATIONAL EDUCATION & INFORMATION FILMS LTD., National House, Tulloch Road, Apollo Bunder, Bombay. Grams: "Edufilms." Phone: 35156. Educational Films, Films-Strips, Projectors and other Audio Visual aids to Education. Producers of Documentary, Children's, Industrial & Publicity Films.

Sole Distributors in India for:—National Film Board of Canada, UNO Films; Coronet Films; Bray Studios; Czechoslovak Films; Common Ground Ltd., etc.

NATIONAL EKO RADIO & ENGINEERING CO. LTD., The, Ewart House, Bruce Street, Fort, Bombay 1. Phone No. 253015. Associated with Messrs. K. K. Cole Ltd., Southend-on-Sea, Essex, England.

Manufacturers of Radio Sets, Village Community Receivers, Components and other Electronic Equipment.

Directors:

A. D. Shroff (Chairman).
J. D. Chokai.
N. H. Tata.
E. K. Cole.
Hirjee C. Jehangir.
S. Moolgaokar.

Managing Agents: The Investment Corporation of India Ltd.

Works: Shri Shakti Mills Compound, Haines Road, Mahalaxmi, Bombay. Phone Nos. 75342-3. General Manager, H. V. Major.

NATIONAL ELECTRICAL INDUSTRIES LTD. Works & Offices: Industrial Estate, Lalbaug, Bombay 12. Phones: 77391-2-3. Grams: "Natelec." Makers of Power & Distribution Transformers, Electric Motors, Motorised Grinders, Monobloc Pumps, etc.

National Employers' Mutual General Insurance Association, Limited. Head Office: National Employers' House, 1-4, Bury Street, London, E.C. 3. Fire, Motor, Workmen's Compensation, etc.

Head Office for India: "Kamani Chambers," 32, Nicol Road, Ballard Estate, P.O. Box 730.

Manager for India:—K. L. Pasricha.

Branch Manager:—H. K. F. Nariman.

Telegraphic Address: "EMPLO-MUTUA."

Telephone: (2 Lines) 26-2823 & 4.

National Engineering Works, Structural Engineers & Builders, Das Chambers, 25, Dalal Street, Fort, Bombay.

National Glass Bottle Co., Direct Importers of Soda Water Requisites, Lentin Chambers, Dalal Street, Fort.

NATIONAL HELICOPTERS PRIVATE LIMITED, Rotary Wing and Fixed Wing Aircraft sales and maintenance. Stockists of Aircraft parts and spares. Radio and Authorized instrument shop.

Head Office: Cambata Building, 42, Queen's Road, Bombay. Phone: 37191 (5 lines). Grams: "COALPITS".

Depot: Hangar No. 1, Santa Cruz International Airport, Bombay. Phone: 61061. (Mxtn. 11).

NATIONAL INSURANCE COMPANY OF NEW ZEALAND LIMITED, THE (Incorporated in New Zealand with Limited Liability). Head Office: Dunedin, New Zealand. Principal Office for India: Rahimtoola House, Homji Street, Fort, Bombay 1. Transacts Fire, Marine and Miscellaneous Business. Principal Officers for India: S. R. Idgunji, A.C.I.I. (Lond.), F.F.I.I. and A. Y. Jadanwalla, B.A. Phones: 255557 & 255558. Grams: "OTAGO," Bombay.

NATIONAL MACHINERY MANUFACTURERS LTD., Kalwe, Thana. Tel. No. 64/1075. Manufacturers of Textile Spinning Machinery, Spares and Castings.

National Plastic & Allied Industries Ltd., Globe Mills Passage, Bombay 13. Manufacturers of Plastic Goods.

NATIONAL RAYON CORPORATION LTD., The, Ewart House, Bruce Street, Fort, Bombay. Telephone: 255491 (five lines). Telegram: NARACORP, BOMBAY. Manufacturers of Rayon Yarn, Sulphuric Acid, Carbon-disulphide, Caustic Soda. Factory at Mohone, Kalyan, C. Bly. and Chhorine.

Directors: Shri Kasturbhai Lalbhai (Chairman)

Shri A. D. Shroff
Shri Jiwanlal C. Chinal
Shri Rasiklal J. Chinal
Shri T. V. Baddeley
Shri Mathuradas Mangaldas Parekh
Shri Krishnaraj M. D. Thackersey
Shri Arvind N. Mafatlal.

General Manager (Technical): Dr. M. D. Parekh.

Secretary & Manager: Shri C. G. Mahant.
Works Manager: Shri J. J. Mehta.

MANAGING AGENTS:

CHINAI AND COMPANY PRIVATE LTD., 79, Masjid Bunder Road, Bombay 3.

NATIONAL STEAMSHIP CO. LTD., THE.

Managing Agents: Dillipulsh Private Limited, 293, Dr. Dadabhai Naoroji Road, Bombay 1. Branches and Agencies at All Important Ports. Telegraphic Address: (Inland) 'RAMHITRA', (Foreign) 'VIJAYDHVAJ'. Telephone No. 26-4432.

National Steel Equipment Co., Manufacturers of steel furniture, Naigaum Road, Dadar, Bombay 14.

NATIONAL STORES, Wine and General Merchants. Sitaram Buildings, Crawford Market, Bombay. Phone No. 263121. Grams: "Avija."

National Trading Co., 263, Dr. Dadabhai Naoroji Road, Fort, Bombay 1.

National Wire Heald Works (Private) Ltd., Manufacturers of Wire Healds, Lakshmi Bldg., Sir Phirozshah Mehta Road, Fort, Bombay. Phone: 26-2166/67.

NATURAL GAS CO., PRIVATE LTD., H.O.: 63/57, Laxmi Building, Sir Phirozshah Mehta Road, Bombay 1. Phone: 263435/6. Grams: "Naturalgas". Branch: 2, Molodina Road, Poona.

Sole Selling Agents for: MOBIL-FLAME LIQUID PETROLEUM GAS.—STANDARD VACUUM OIL CO.

Board of Directors: D. M. Khatau, Chairman; M. D. Goculdas, Managing Director; R. M. Goculdas, K. D. M. Khatau, Mrs. C. D. Khatau and Mrs. R. M. Gokuldas.

Navbharat Radio Agencies, 350, Lamington Road, Bombay 7.

Navlakhi, J. V. & Co., Stationers, Kanta Terrace, 533, Kalbadevi Road, Bombay 2.

NEAR EAST TRADING CO. (INDIA), 32, Apollo Street, Fort. Phone Nos. 254407 & 251757. Tel. Address: "WIDE-SPREAD."

NENNEY NARANDAS TOPAN (ESTD. 1928), Importers-Exporters & Commission Agents. Hanuman Bldg., Tambakata, Pydbowne, Bombay 8. Gram: "YARN-LILLY". Phone: 26048 (Yarn & Local). 264101 (Import & Export).

NENSHI MONJI, Contractor, Stone and Sand Supplier, 123, Mahatma Gandhi Road, Fort, Bombay 1.

Head Office .. Tel. 251054.

Bholwada Quarry .. " 61156.

Sand Dept. .. " 40186.

Kuria Quarry .. " 86158.

Telegrams: "Stonesand."

Neptune Assurance Co., Ltd., The, Transacting Fire and Miscellaneous Insurance, 104, Apollo Street, Fort, Bombay. Phone Nos. 252258 & 252259.

Nestle's Products (India) Ltd., Kaiser-i-Hind Building, Currimbhoy Road, Ballard Estate. Tel. Address: "Nestbrand." Telephone No. 263165/66. P.O. Box No. 315.

NETTLEFOLDS OF INDIA PRIVATE LIMITED

Wakefield House, Sprott Road
Ballard Estate
BOMBAY 1

Post Box No. 1502

Telephone No. 261302 (3 lines)

Tel. Address: "NETTLEFOLD"
Bombay

Distributors of:

Wood Screws, Cotter Pins, Screw Eyes, Machine Screws, Rivets, Safety Pins and Hypodermic Needles

Manufactured by:

GUEST, KEEN, WILLIAMS, LTD.
BHANDUP WORKS

Representing:

GUEST KEEN & NETTLEFOLDS
(Midlands) LTD.
BIRMINGHAM

BOOKS

And ART PRINTS

THE NEW BOOK
COMPANY PRIVATE
LTD.

188/190, Dr. Dadabhai Naoroji
Road, BOMBAY 1

Phone: 263544/45.

Grams: "NEWBOOK"

New Cheap Jack No. 5. Proprietors: G. Mahomedali & Co., Shop No. 5, Crawford Market, Bombay. Dealers in Oilman Stores, Provision and Household Requisites. Phone: 261949.

NEW CONSOLIDATED CONSTRUCTION CO., LTD., Engineers and Contractors. Rahimtoola House, Homji Street, Fort, Bombay. Phone: 253064. Grams: "Projects." Chairman: A. A. Jadanwalla. General Manager: K. Z. Gandhi.

NEW DEOLERA SHIPPING & TRADING CO., LTD. *THE, Managing Agents:* Vikramsinh Private Limited, 293, Dr. Dadabhai Naoroji Road, Bombay 1. Branches and Agencies all over India. Telegram: 'RAVASIA', Bombay. Telephone No. 263443.

NEW DEOLERA STEAMSHIPS LTD., *Managing Agents:* Pratapsinh Private Limited, 293, Dr. Dadabhai Naoroji Road, Fort, P.O. Box No. 1138, Bombay 1. Telegraphic Address: 'JAY-SHIPS'. Telephone No. 263443.

New Era Agencies Private Ltd., Chemicals Importers & Stockists, Kamani Chambers, 32, Nicol Road, Ballard Estate. Phone: 262552. Grams: 'MUJKO'.

New Era Paint Works, Building, Painting Contractors and makers of Industrial & Decorative Air-Dry Crinkle Finishes, Synthetic Hard Enamels, Glossy Oil Paint, Ready mixed Oil Paints, Flat Washable Oil Bound Distempers, Varnishes, Oils, Plastic Emulsion Paints, Rubber Enamels, etc. Opp. Byculla Station, Byculla, Bombay 27. Tel. Address: "NEWERA." Phone No. 40007.

New Field Paper Industries, 48, 2nd Carpenter Street, Bombay 4.

NEW GREAT INSURANCE CO. OF INDIA LTD., THE, Principal Office in the Union of India at 46-47, Apollo Street, Fort, Bombay.

Paid-up Capital Rs. 20,00,000
Chairman.—Shri Tulsidas Kilachand.
General Manager.—Shri M. G. Mody.
Business Transacted.—Fire, Marine, Accident and Miscellaneous Insurance.

Branches at: Agra, Ahmedabad, Amreli, Amritsar, Bangalore, Bikaner, Calcutta, Chittagong, Cochin, Colimatore, Davangere, Gauhati, Guntur, Hyderabad (Dn.), Hubli, Indore, Jalgaon, Jaina, Jullundur, Karachi, Lucknow, Madras, Madurai, Mangalore, Masulipatam, Nagpur, New Delhi, Nairobi, Poona, Surat and Sangli.

Representations at: Alexandria, Amsterdam, Brussels, Colombo, Dar-es-Salaam, Kampala, Mombasa, Mwanza, Rangoon, Rotterdam, Seychelles.

NEW HAMPSHIRE FIRE INSURANCE CO. OF MANCHESTER, NEW HAMPSHIRE, Warden House, Sir Phiroozshah Mehta Road, Fort, Bombay. Grams: "AMINTIND." Manager for India, A. J. Shah.

NEW HAVEN STEEL BALL CORPORATION Private Ltd.

Manufacturers of Steel Balls, Bicycle parts, Sockets, Head Cap Screws, Bolts, Nuts, Auto parts etc.

Office: Nanjee Building, 17-B, Horniman Circle, Bombay 1.

Phone: 255346.

Grams: "GULDASTA".

Factory: Parsi Panchayat Road, Andheri (East).

NEW INDIA ASSURANCE CO. LTD., Head Office: Bombay, New India Assurance Building, Mahatma Gandhi Road, Fort, P.B. No. 969. Phone: 259151. Grams: "NIASSURANCE".

Board of Directors:

A. D. Shroff (Chairman).
J. R. D. Tata (Vice-Chairman).
Ambalal Sarabhai.
Ramnivas Ramnarain.
Kasturbhai Lalbhai.
Jayantilal R. Mehta.

Sir Vithal N. Chandavarkar, Kt.

N. K. Petigara.

Bhagwandas C. Mehta.

J. D. Chokel.

H. K. Shah (Managing Director).

Authorised Capital .. Rs. 10,50,00,000

Subscribed Capital 5,69,68,485

Paid-up Capital 1,42,42,125

Transacts Fire Marine, Motor, Machinery and all classes of Accident Insurance Business.

Regional Offices in India:

Calcutta: 4, Lyons Range, P.O. Box 113.

Madras: 4-5, First Line Beach, P. O.

Box 270. New Delhi: Connaught House,

Connaught Place, P.O. Box No. 46.

Kanpur: Kasturba Gandhi Road, P.O.

Box No. 371.

Indian Branches:

Agra, Ajmer, Ahmedabad, Allahabad, Amritsar, Anantapur Asansol, Banaras, Bangalore, Barilly, Baroda, Bellary, Bhopal, Chandigarh, Colimatore, Cuttack, Dehradun, Davangere, Dhanbad, Ernakulam, Gauhati, Guntur, Gwalior, Hyderabad, Indore, Jaipur, Jamshedpur, Jabalpur, Kolhapur, Kozhikode, Lucknow, Ludhiana, Madurai, Mangalore, Meerut, Masulipatnam, Moradabad, Mysore, Nagpur, Nasik, Patiala, Patna, Poona, Rajkot, Sileher, Shimoga, Sholapur, Srinagar, Surat, Trichur, Tiruchirappalli, Trivandrum, Visakhapatnam.

Overseas Branches:

Accra, Baghdad, Bangkok, Basrah, Chittagong, Dacca, Djakarta, Hongkong, Ipoh, Kampala, Karachi, Khar-toum, Kuala-Lumpur, Lagos, Port Louis (Mauritius), Manila, Mombasa, Nairobi, Narayanganj, Osaka, Penang, Rangoon, Singapore, Suva, Sydney, Tangier, Tokyo.

London Agents: Messrs. Sedgwick, Collins (Agencies) Ltd., Regis House, 43-46, King William Street, London E.C. 4.

New India Corporation, Importers, Exporters, Engineers, Contractors & Estate Suppliers. Warden House, Sir Phiroozshah Mehta Road, Bombay 1. Phone: 254440. Grams: "NUINDCORP". Other Offices: Ensign Engineering Corporation. (Props. New India Corp.), 117, Armenian Street, Madras 1 and 70-Feet Road, Ernakulam, Kerala.

New India Hardware Mart, Shipchanders, Mill Stores Suppliers, 163, Narayan Dhuru Street, Bombay 3. Phone: 36665. Grams: "FREERTRADE".

New Hind Engineering Co., Mill Gin Store & Textile Beltings stockists, 63, Nagdevi Street, Bombay 3.

NEW INDIA MOSAIC AND MARBLE CO., PRIVATE LTD., Manufacturers of "NIMMCO" plain cement and marble mosaic flooring Tiles in wide range of Patterns and attractive Colours. Suppliers of finished marble of the finest quality and in varieties of colours. Also undertaking marble works of every description. Office & Factory: Industrial Estates, Lalbaug, Bombay 12. Grams: "Nimmcootile." Phone: 41773.

New Kaiser-i-Hind Spg. & Wvg. Co., Ltd., J. K. Building, Dougal Road, Ballard Estate. Mill: Gorpudeo Road, Telephone: 263931.

NEW MANOHAR PRESS

Printers and Box-makers, First Prize Winners in State Awards, 1958 for "Packing".

Angrewadi, Vithalbal Patel Road, Bombay 4.

Tel. No. 27754. Gram: "Numanohar".

Phone: 241711. Grams: "NUPACK".

NEWPACK INDUSTRIES

Lotus House, 33-A, Marine Lines, Bombay 1.

Manufacturers of:

"NEWPAC" Polythene Bags and Sheetings & other Plastic Goods.

New Photoplay Co., 231, Hornby Road, Fort, Bombay.

New Popular Cycle Mart, Direct Importers of Cycles and Accessories, 387, Kalbadevi Road, Bombay 2.

NEW STANDARD CHEMICALS CO., PRIVATE LTD. (Est'd. 1916). Importers, Wholesale Dealers and Stockists of Textile Dyes, Industrial Chemicals and Sizing Materials. Suppliers to Railways, Government Departments and Mills. 281, Samuel Street, Vadgadi, Bombay 3. Tel. Address: "Particular." Phone Nos. 29169, 28844, 36510. Managing Directors: Harilal Naranji and Keshavlal Naranji Bhatt. Secretary: Jayantilal S. Rajyagor, B.Com. Branch: Gopal Bhuvan, Bilhrana Road, Kanpur. Phone: 22858.

New Standard Engineering Co., Ltd., Carroll Road, Bombay 13. Structural & Mechanical Engineers and Founders.

NEW SURGICAL TRADING CO., THE, Direct Importers and Manufacturers' Representatives. Bulakhidas Building, Mangaldas Road, Princess Street, P. O. Box 2321, Bombay 2. Telegraphic Address: "Coworker." Phone No. 36138. Dealers in Surgical Scientific and Laboratory Equipments, Hospital Steel Furniture and Sundries. Proprietor: C. J. Patel.

New United Construction & Engineering Co., Ltd., Industrial Assurance Building, Churchgate, Bombay 1. Phone: 37181.

Nicolls & Company, Typewriter Experts (a complete line of Typewriter business), Kermani Building, above D. Macropolo's, Sir Phiroozshah Mehta Road, Fort. Telephone No. 253523.

N. Jamnadas & Co., Freight Brokers and Travel Agents, 16, Bank Street, Fort.

Noble Paint & Varnish Co., Private Ltd. Fergusson Road, Lower Parel, Bombay 13.

Phone: 261172.

Grams: "ROLLEDGOLD".

NOBLE PLASTIC WORKS

22, Mangesh Shenoy Street, Bombay 1.

Manufacturers of "NOBLE" brand quality plastic Umbrella handles in various and fancy colours.

Non-Ferrous Metal Refinery, The, Tulshi Bhuvan, 32, Thakurwar Road, Bombay 2. Phone: 73572. Grams: "Nometry." Manufacturers of White Bearing Metals, Tin Solders, Type Metals, Pressure Die-Castings etc. Lead Seals and Zinc Boiler Plates made to any desired size.

Noronha Private Limited, Distributors of Motion Picture Films, Lotus House, 33-A, Marine Lines, Bombay 1.

NORINCO (PRIVATE) LTD., Founded in 1948.

Head Office:—14, Netaji Subhas Road, Calcutta. Telephones: 22-4094 & 4095. Telegram Address: "NORINPACO", Calcutta.

Bombay Office:—India House, 4th Floor, Fort Street, Fort, Post Box No. 871, Bombay 1. Telephone: 26-3300. Telegram Address: "NORINPACO", Bombay.

Managing Agents:—Mornal Tea Estate, Cultivators of Tea and Coffee.

Bankers:—The Netherlands Trading Society, 18A, Brabourne Road, Calcutta 1. The Mercantile Bank of India, Bombay.

Principal Business:—Manufacturers' Representatives, Stockists, Aviation, Importers and Exporters—Indentors and dealers in Paper, Paper Bags for Cement, Pulp, Wood Products, Fertilisers, Chemicals, Totanin Tanning Extract, Raw Materials for Paints and Plastics, Faststocks, Belting, Aluminium Life Boats, Elastic Lifeboats, other Equipment for ships machinery.

Exporters of:—Minerals, Ores and Textiles.

North British & Mercantile Insurance Co., Ltd., Macmillan Building, 276, Dadabhai Naoroji Road, Fort. **Local Manager:**—E. N. Toovey. Tel. Address: "Norbrit." Phone No. 261404.

Norton & Gregory Ltd. (London), Manufacturers of Drawing Office Requisites. Office of the Representative: India and Pakistan, Commerce House, Currimbhoy Road, Ballard Estate.

NORWICH UNION FIRE INSURANCE SOCIETY, LTD., 16, Bank Street, Post Box No. 49, Fort, Bombay. **Branch Manager:**—J. J. Sharma, Telegraphic Address: "Nufam". Telephone: 261985.

NUSERVANJI, RUTTONJI NAZIR & SONS, Coal Merchants, Landing, Clearing, Bunkering Contractors, 5, Hamam Street, Fort. Phone Nos. Office—253312 and 251759. Coal Bunder: 40953—Res: 41992.

Nutex (India) Private Ltd., Specialists in Transfer Labels and Silk Screen Printing and Stencils. Devkaran Manston, Block No. 1, 3rd Floor, Princess Street, Bombay 2. Grams: "SINOGEAF".

Ocean Electric Co., 480, Kalbadevi Road, Bombay 2.

Ocean Marine Insurance Co. Ltd., Macmillan Building, 276, Hornby Road, Fort.

Odhavji, B., & Co., Iron, Steel and Hardware Merchants, Government & Railway Contractors, Carnae Bunder, Bombay 9.

Odhavji Devidas & Co., Chemicals & Colour Merchants, 357, Vakil Building, Samuel Street, Bombay 3.

Odhavji Lawji & Co., Direct Importers & Dealers in all aerated water Requisites, such as Essences, Colours, Empty Bottles, Pure Saccharine Crown Corks, Soda Water machinery, CO. Gas and Cylinders and Aromatic Chemicals, Chemicals, Essential Oils etc., Chikhal House, 144/B, Princess Street, Bombay 2. Phone: 29164. Grams: "PLUMOL".

Oilseeds Trading Co., Private Ltd., The Currimjee Building, 111, Mahatma Gandhi Road, Fort, Bombay 1. Phone No. 259241. Tel. Address: "Raytrade." Exporters of all kinds of Oilseeds, Oils, Oil Cakes, Spices, Grains and Textile Piecegoods.

Names of Directors:—Ratilal Mulji Gandhi; Nagardas Banchhodas Sangvi; Babubhai Manji Sangvi; Dhirajlal Babubhai Sangvi; Arun Nagardas Sangvi.

Oliver, F. P., & Co., Ltd., Agents, Import and Export Merchants, 32, Apollo Street, Fort, Bombay 1. Post Box No. 50. Phone No. 22715. Tel. Address: "Australa."

Onlecher, The (A. MacRae & Co., Ltd.), United India Building, Sir Phipposhah Mahta Road, Fort.

Oomrigr, D. C., & Co. Private Ltd., Wine & Spirit Merchants, 354, Abdul Behman Street, opp. Crawford Market, Bombay 3.

Opil, The Oriental Pharmaceutical Industries, Ltd., Manufacturers of Chemicals and Pharmaceuticals. 64/66, Tulsi Pipe Road, Mahim, Bombay 16.

ORIENT EXPRESS CO. PRIVATE LTD., THE, Petit Building, 359, Dadabhai Naoroji Road, Bombay 1. Phone: 251047. Grams: "Orexpresso." World Wide Travel Service. Authorized Agents for Airlines, Steamship Companies, Railways and Hotels. Offices in New Delhi, Calcutta, and Bombay. Correspondents in 350 cities throughout the world. **Managing Director:**—Mr. S. S. Poddar.

Orient Longmans Private Ltd., Publishers, Indian Mercantile Chambers, Nicol Road, Ballard Estate, Bombay. Offices at Calcutta, Madras, New Delhi, Hyderabad (Dn.) and Dacca.

N. B. Cooper, Manager; G. D. Sthalekar, Asstt. Manager. Tel. Address: "Longmans." Phone No. 261811.

Oriental Fire and General Insurance Co., Ltd. (Incorporated in India, 1947). Oriental Buildings, Bombay 1.

Oriental Import & Export Agency, Importers, Exporters and Manufacturers' Representatives, 52, Shrikrishna Nivas, New Silk Bazar, Kalbadevi Road, Bombay No. 2. Phone: 25662.

Oriental Languages Bureau, Lakshmi Building, Sir Phipposhah Mahta Road, Bombay.

ORIENTAL METAL PRESSING WORKS PRIVATE LTD., 131, Worli, Bombay 18. The biggest pressworks in Western India; Undertake all kinds of presswork in Mild Steel, Stainless Steel, Tin Sheets, Aluminium, Brass, Copper, Electrical Materials, Casting and Machining (Stainless Steel Tanks, Household Utensils, Hospital Wares and Laboratory requisites a speciality). Tel. Address: "Hollowware." Phone No. 73401 (Two Lines).

Oriental Steel & Metals Co., Iron Market, Bombay 9. Dealers in Iron, Steel & Metals.

ORMERODS (INDIA) PRIVATE LTD., Bank of Baroda Building, Apollo Street, Fort. Post Box No. 410, Bombay. Codes used:—A.B.C. 5th and 6th Editions. Bentley's "Second" and Complete Phrase and Private. Tel. Address: "Ramahead." Bombay. Phone Nos. 255434/35 (2 lines).

INSIST ON
ELECTRICAL ACCESSORIES
Manufactured by:—

OSHAM INDUSTRIES
302, Kalbadevi Road,
Bombay 2.
Grams: "DELIWICH".

OSLER, F. & C. (INDIA), LTD., Electrical Engineers and Automotive Service Agents, Head Office at Calcutta, Local Office and showroom at New Queen's Road, Bombay. Branches at Delhi, Madras, Kanpur, Ahmedabad and Gauhati.

Electrical Department: Agents for Osler & Faraday's Electrical Light Fittings; W. T. Glover & Co.'s Cables and Wires;

Midland Elec. Mfg. Co.'s M.E.M. Switch Gear; Kg. Elec. Vent Co.'s Exhaust and Ventilating Fans; Lee How's Pumping Machinery, Hall and Pickles Resistance Wires; George Ellison's Switchgear; Tufhol Ltd.'s Insulating Material; Service Electric Co.'s Syrens and Blowers; Wardie Eng. Co.'s Elec. Light Fittings; Rotunda Ltd.'s Black Adhesive Insul. Tape; Key's Mastico Insulating Varnish; Heatrase Ltd.'s Heating Appliances; Edward MacBean & Co.'s Varnished Insulated Materials.

Automotive Department: Agents for Chloride & Kilde Batteries (Eastern) Private Ltd.'s Batteries; Carter Carburetor Co.'s Carburetors and tools; Small & Parks Ltd.'s Automotive Brake Liners; Airtex Products Inc. Automotive Parts; Farnborough Engineering Co.'s Automotive Engine Valves; J. Snell Esq. Automotive Piston Rings; Crosswell's Asbestos Co.'s Brake Liners; Dayton Price Co.'s Gabriel Shock Absorbers; Federal Mogul International's Engine & Connecting Rod Bearings; McCumpha Overseas Inc. Electric Horns; Energit GMBH Brake Liners; Woodhead Monroe Ltd.'s Shock Absorbers. Phone: 27034-5-6. Grams: "OSLERCO".

OTA INDIA, 12, Rampart Row, Bombay 1. Phone: 253069—Customs: 265229. Gram: "Otalnd." Licenced Clearing, Shipping and Stevedoring Agents. Branches: Kandla, New Delhi and Calcutta.

OVERSEAS MANUFACTURERS SALES CO., Manufacturers' Representatives; Lines handled: Automobile replacement parts and Accessories, Garage Equipment, Hardware, Diesel Engines Spares etc., India House, Fort Street, Fort, Bombay. Phone: 262129. Grams: "ALIASP". Branches: Calcutta, Madras & Delhi.

Overseas Trade & Agencies (India), Beaumont Chambers, 27/33, Meadows Street, Fort, Bombay. Phone: 254942.

Overseas Trading Co., Licenced Shipping, Clearing, Warehousing, Road Transport, Rail Forwarding and Insurance Agents, General Assurance Bldg., 1st Floor, 232, Dr. D. N. Road, Bombay 1. Phones: Office: 261725 and 262270; Res.: 89955. Grams: "VASERVICE".

OXFORD UNIVERSITY PRESS, Publishers, Oxford House, Apollo Bunder, Bombay 1; Bharat Insurance Building, Mount Road, Madras; Mercantile Buildings, Lal Bazar, Calcutta and London, Amen House, Warwick Square, E.C.4. Agents in India for:—George G. Harrap & Co., Ltd., The University Tutorial Press Ltd., American University Presses, Ginn & Co.'s *Beacon Readers*. General Manager in India:—E. E. Hawkins, M.A. (Oxon.). Tel. Address: "Oxonian," Bombay, Madras and Calcutta. Bombay Telephone: 37104, 37105. Post Box 31.

OXY-CHLORIDE FLOORING PRODUCTS LTD., Manufacturers of "Elephant" & "Stonette" brands jointless flooring composition. Suppliers to Railways, Textile Mills and Ships. On the approved list of D.G.S. & D. and Railways since 25 years. Office:—Arthur Bunder, Colaba, Bombay 5. Phone No. 35571. Grams: "STONETTE".

P. N. Joshi & Co., 141, Mahatma Gandhi Road, Fort, Bombay 1. Grams: "JOSHICO." Advertising Agents and Consultants.

P. Mohanlal & Co., 44, Nagdevi Cross Lane, Bombay 3. Phone: 30567. Grams: "EMERYCLOTH".

P. PRABHULAL & CO., PRIVATE LTD., Metropolitan Insurance House, Dr. D. N. Road, Bombay 1. Phone: 262264 & 261157. *Importers of:* Rayon Yarn, Staple Fibre, Raw Silk, Cotton Yarn Piece-goods, Cotton, Woollen, Rayon and Silk Paper, Bailing Hoopes, Leather Cloth, Cutlery etc. *Exporters of:* Cotton Yarns, Cotton, Silk & Rayon Piece-goods, Staple Fibre, Yarn, Silk, Voiles, Paper, Cement.

P. RAI & COMPANY, Machinery and machinery spare parts. Importers, 105, Apollo Street, Fort, Bombay 1. Phone: 252436. Grams: "Pirako."

P. Vrajlal & Co., Direct Importers of all kinds of stationery and fountain pens. 240, Abdul Rehman Street, Bombay 8.

Packers (India) Co., Packing Consultants and Packing Material Suppliers. Manufacturers' Representatives, 34-38, Hamam Street, Fort, Phone No. 252019. Tel. Address: "Packwell."

Packing Materials Corporation, Mfrs. & Dealers in Waterproof Packings Materials, Khed Gully, Gokhale Road (South), Bombay 28.

PALANPUR VEGETABLE PRODUCTS LIMITED, Ewart House, Bruce Street, Fort.

Manufacturers of:—Vanaspathi and Allied Products.

Managing Agents:—Inventa Industrial Corporation Limited, Ewart House, Bruce Street, Fort, Bombay. *Factory:*—Taleynagar, Dhuranhar Road, Palanpur (North Gujarat).

Directors:—M. N. Dalal (Chairman), N. H. Tata (Special Director), A. H. Bhiwandiwala, Capt. Ata Muhammed Khan, M. A. Fazalbhoy, Chhotubhai H. Mehta, Damodar M. Ghia and His Highness Iqbal Mohamed Khan.

Managing Agents' Principal Officer.—R. H. Colah.

Tel. Address: "Paveta" (Palanpur). "Palanpro" (Bombay).
Phones: 251612, 251911 (Bombay); 34 (Palanpur).

PANJAL MOHANLAL & CO., 89, Nagdevi Street, Bombay 3. Phone No. 30211. Direct Importers of pipes, fittings and valves of all sorts.

Pandit & Co., 15, Forbes Street, Fort. Phone No. 251501. Grams: "SPECTATION."

Controlled Stockists of Pig Iron.

Managing Agents:

The Maunad Elec. Supply Co., Ltd.
The Igatpuri Elec. Supply Co.
Modern Shuttle Mfg. Co. Ltd.

PANDYAN INSURANCE COMPANY, LIMITED. (Fire, Marine, Misc.). *Head Office*—Madurai, South India. *Bombay Branch Tel. Address:* "Legresh." Phone No. 255088 (2 lines). Gresham Assurance House, Sir Phirozshah Mehta Road, Fort. *Branch Manager:*—J. X. de Souza.

Paradise Tea Co. (Tea Merchants), Sambhava Chambers, Sir Phirozshah Mehta Road, Fort.

PARAMOUNT DYES & CHEMICALS PRIVATE LTD. *Regd. Office:*—Elphinstone Building, Veer Nariman Road, Fort. Sole Distributors of Coal-Tar Dyestuffs, Intermediates, Synthetic Detergents, etc. of International Division, Allied Chemical Corporation. Phone: 252535. Grams: "Paramount."

Paramount Engineering Co., Electrical Engineers and Contractors, Fort Chambers, Hamam Street, Fort, Bombay. Phone No. 251964. Tel. Address: "Sharu."

Paramount Films of India Ltd., Hague Building, Ballard Estate, Bombay.

PARAMOUNT HARDWARE MART, Iron & Steel Merchants, Authorised Stockists of Tata Agric Tools. Carnac Bunder, Bombay 9. Phone No. 22932. Grams: "PARAMART", Bombay.

Paramount Industrial Stores, Importers, Exporters & Machinery Merchants, 15, Ropewalk Street, Fort, Bombay 1. (Also see in Machinery Section.)

Paramount Textile Agency, 45/47, Apollo Street, Fort, Bombay.

Parakh Brothers Private Ltd., 65, Mahatma Gandhi Road, Bombay 1. Consulting Chemical Engineers, and Exporters of Sheep Casings, Guts, Skins and Fancy footwear.

PARKE, DAVIS (INDIA) PRIVATE LIMITED, Pharmaceutical Manufacturers, Canada Building, Dr. Dadabhoy Naoraji Road, Bombay 1. Head Office for India and Ceylon.

Managing Director: J. J. Keane.

Secretary & Asst. General Manager (Admin.):—R. Narayana Iyer.

Asst. General Manager (Sales):—A. T. Ford.

Telegraphic Address:—"CASCARA,"
Bombay 1. Post Box No. 88. Phone Nos. 26-2831, 26-2832, 26-2833 and 26-4871.

Factory: 28, Forjett Street, Bombay 26. *Production Superintendent:* W. Davies. Phone No. 76453.

PARLE PRODUCTS MFG. CO. PRIVATE LTD., Manufacturers of Biscuits & Confectionery, Thackersey House, Graham Road, Ballard Estate, Bombay. Phone: 263906. Grams: "VIHARI". *Factory:* Vile Parle, Bombay 24. Phone: 86403.

PARRY & CO. LTD., *Head Office:* Dare House, Madras 1.

Branches:—Bombay, Calcutta, Delhi, Bangalore, Cochin, Cuddalore, Ootacamund, Secunderabad, Vizagapatam, Kanpur and 18 sub-Branches.

Bombay Office:—"United India Building", Sir Phirozshah Mehta Road, P.O. Box 506, Fort, Bombay 1. Phone Nos. 253951-2-3-4. Telegraphic Address: "DISEL."

London Associates:—Messrs. Parry, Murray & Co. Ltd., 13, St. James's Square, London, S.W. 1.

Managing Agents:—The Deccan Sugar & Abkhari Co. Ltd., Madras.

Factories at: Pugalur and Samalkot.

Parrys Confectionery Ltd., Madras.

Factory at: Nellikuppam, South India.

Associated Companies:—East India Distilleries & Sugar Factories Ltd., Madras. *Factories at:* Nellikuppam and Ranipet, South India.

Hawkar Siddeley Brush International Ltd., London.

Brush Export Ltd., London.

Pamba River Starch Co. Private Ltd., Madras.

Factory to be established in: Tiruvalla, Travancore.

W. J. Bush Products Private Ltd., Madras, *Factory at:* Nellikuppam, South India.

The Mofussil Warehouse & Trading Co., Private Ltd., Madras.

Secretaries and/or Treasurers:—The Travancore Sugars and Chemicals Ltd., Tiruvalla, Travancore.

Factory at: Pamba River, Tiruvalla, Travancore.

Cauvery Sugars & Chemicals Ltd., Madras. *Factory to be established at:* Pettaiyvalai, South India.

ENGINEERING:

All-India Agents:—Andrew Barclay Sons & Co. Ltd., Kilmarnock, Scotland. *Manufacturers of:* Locomotives of all types.

Hawkar Siddeley Brush International Ltd., London. *Mirless, Petter, Petter Fielding & McLaren Oil Engines.*

The Buda Company, Illinois, Manufacturers of M.S. Wheels & Axles.

Cerette E. Tanfani, S.P.A., Milano, Italy. *Aerial Ropeways, Cableways, Heavy Duty Cranes, Mechanical Handling Plant.*

Chain Belt Company, Milwaukee, Manufacturers of every description of Chains, chain belts and Conveyors.

Eternit S.p.A. Genoa, Italy. Manufacturers of Asbestos Cement Pressure Pipes.

Gowrihouse Metal Works, Rajapalayam. Wood Screws.

Hoares (Ceylon) Ltd., Colombo. *Tea Drying Equipment.*

James Hendry Ltd., Glasgow. *Manufacturers of Laminated Beltings.*

Henry Simon, Ltd., Flour Milling Machinery.

Kirloskar Electric Co. Ltd., Bangalore, *Manufacturers of Electric Motors, Transformers.*

Kirloskar Oil Engines Ltd., Kirkee (Limited North Indian Franchise). *Manufacturers of Diesel Engines.*

Railway Mine & Plantation Equipment Ltd., London. *Diesel & Steam Locomotives, Tipping Wagons, Rails, Points & Crossings and General Light and Main Railway Equipment.*

Ransomes & Rapier Ltd., Ipswich, London. (Except South India). *Mobile Cranes, Shop Truck Cranes, Excavators, Walking Draglines, Concrete Mixers, Fork Lift Trucks, Water Control Gates, Wharf Winches.*

L. Sterne & Co., Glasgow. *Manufacturers of Refrigerating Plants, Ammonia Condensers, Water Cooling & Brine Cooling Plants and Ice making Plants of all sizes and for all purposes.*

Templeton Kenly & Co., New York. *Manufacturers of Hydraulic, Ratchet & Screw Jacks.*

CHEMICALS & FERTILISERS:

The Anglo-French Phosphate Co. Ltd., London. *Rock Phosphate.*

The Egyptian Phosphate Co. Ltd., London. *Rock Phosphate.*

Freeport Sulphur Co., New York. *Sulphur.*

International Minerals and Chemicals Corporation, Chicago. *Phosphate.*

Jordan Phosphate Mines Co. S.A., Amman. *Phosphate.*

Buhr-Stickstoff A.G., Bochum. *Nitrogenous Fertilisers.*

PHARMACEUTICALS:

Chas. Page & Co. Ltd., London. *Chlorinated Tar Acids.*

Ethicon Ltd., Edinburgh. *Sutures.*

Government Oil Factory, Calcutt. *Shark Liver Oil and Allied Products.*

Hindustan Antibiotics Private Ltd., Bombay. *Penicillin and other Antibiotics.*

The Ramaraju Surgical Cotton Mills Ltd., Rajapalayam. *Gauze, Surgical Dressings, Plaster of Paris Powder etc.*

Whitley & Co. (Manchester) Ltd., Manchester. *Surgical Gloves.*

Govt. Quinine Factory, Naduvattam, Madras State. Quinine Products (S. and W. India only).

GENERAL SALES: All-India Agents:
The Parker Pen Co. Ltd., London.

The Parker Pen Co., Toronto, Canada.

The Parker Pen Co., Jacksonville.

The Parker Pen Co. (France), S.A., Paris.

Chelpark Co. (Private) Ltd., Madras.

Britannia Biscuit Co., Ltd., Bombay.

Nicholas of India Ltd., Bombay.
"ASPRO".

GENERAL SALES: Limited Franchise:
Johnson & Johnson of India (Private) Ltd. (Except Bombay, Rajasthan and M.P.).

Atlantis (East) Ltd., Calcutta (except S. India). Cobra Products.

Horlicks Ltd., Slough, England and Australia (except E. India). Milk Foods.

W. J. Bush & Co. Ltd., London, and W. J. Bush Products Private Ltd., Madras (except North & Eastern India). Manufacturers of Essences, Essential Oils and Chemicals.

Corn Products Co. (India) Private Ltd., Bombay. Manufacturers of Glucose, Squashes, etc.

Agents in Madhya Pradesh only: British Drug Houses (India) Private Ltd., Bombay. Manufacturers of Pharmaceutical Preparations.

MANUFACTURERS of Sugar, Confectionery, Acids, Ceramics, Fertilisers, Tipping Wagons, Light Railway Equipment and Accessories.

Parth & Co., S. (Estd 1923). Art Printers & Specialists in folding Boxes & Embossed Labels for perfumery, medicines. Aniline Dyes & Textile Trades. 7, Chandra Mahal, Girgaum, Bombay 2.

PATEL BROS., Cotton Brokers and Machinery Importers, 6, Veer Nariman Road, Fort.

Partners.—Sohrab P. Patel; Jehangir P. Patel and Shavaksha P. Patel. Telegraphic Address: "Patelbros." Phone Nos. 25-1236 (4 lines). Post Box No. 399, Bombay.

Patel Bros. & Co., 41, Nagdevi Cross Lane, Bombay 3.

PATEL & CO., S.C., Direct Importers of Essential Oils and Aromatic Chemicals, Perfumery Compounds, Food Colours, Soap Colours, Hair Oil Colours, etc. No. 1, Devkaran Mansion, 79, Princess Street, Bombay 2. Grams: "Suchalata." Phone: 20366. Branch: Gandhi Bldg., 44/45, Ezra Street, Calcutta.

Agents for: H. Roab & Co., Holland (Aromatic Chemicals).

Dragoco (W. Germany) (Essential oils and Aromatic Chemicals).

P. Robert & Cie, Grasse, France (Essential oils).

Patel & Sons, Dr. K., 249, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Dealers in Dental Goods, Portable Pumping and Generating Sets and their Spare Parts. Phone No. 263762.

PATEL COTTON COMPANY PRIVATE LTD., 6, Veer Nariman Road, Fort. Cotton Exporters, Importers, Merchants and Commission Agents.

Managing Director: Jehangir P. Patel. Directors: Sohrabji P. Patel, Shavaksha P. Patel. Secretary: R. D. Ghadiali.

Tel. Address:—"Patelcooteo."

Phone: 25-1236 (4 Lines).

Post Box No. 399, Bombay 1.

Patel Engineering Co., Ltd., United India Bldg., Sir Pherozshah Mehta Road, Bombay 1. Phone: 23304.

PATEL INDIA PRIVATE LTD., Largest Distributors for well known Photographs & Cinematographic Goods for India. Head Office: 190, Dr. Dadabhai Naoroji Road, Fort. Telegrams: "PATELIND". Phone Nos. 263683-263684. Branches at: Calcutta, New Delhi and Madras.

Patell, P. R., & Co. Private Ltd., Mherwan Building, Sir Pherozshah Mehta Road, Fort, Bombay 1. Import and Export Merchants. **Managing Director:** Sohrab Patell. Representatives in England, U.S.A., China, Japan and Continent. Phone No. 253393. Residence Phone: 36216. Tel. Address: "Pilot," Bombay.

Patruni Sons & Co., Silk, Artificial Silk & Cotton Yarns. 69, Nakhoda Street, Bombay 3.

Patson (India) Corporation, Optical, Dental, Cine and Novelties, 2, Regal Cinema Building, Apollo Pier Road, Fort, Bombay.

Pavri Sons & Co., Export-Import Merchants, P.O. Box No. 463. 93/97, Bazargate Street, Fort, Bombay.

PAVRI & SONS, FRAMROZ HORMUSJI, Pavri House, 20, Gunbow Street, Fort, Bombay. Phones: 264158 & 262539. Government and Municipal Contractors, Shamianas, Mandap, Stands, Exhibitions, Electric Light & Fans, Suppliers on hire of Glassware, Furniture, Crockery and Decorations of all sorts.

Payne & Co., Solicitors and Notaries Public. Resplande House, Wandby Road, Fort. Telephone Nos. 26-2284 and 26-2285. Telegraphic Address:—"Paynes," Bombay.

K. K. Lal, B.A., LL.B.
S. N. Vakil, B.A., LL.B.
O. R. Jussawalla, M.A., LL.B.
D. P. Mehta, B.A., LL.B.
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J. E. Jhirao, B.A., LL.B.
K. D. Mehta, B.A., LL.B.

Pearl Assurance Co., Ltd., Chief Offices: High Holborn, London, W.C. 1. Bombay Office: Construction House, Nicol Road, Ballard Estate. Phone No. 261642.

Pearl Glass Manufacturing Co., Patel Estate, Goregaon East, Bombay. Phone: 84363. Manufacturers of all kinds of bottles and glassware. Office: 44, Cawasji Patel Street, Post Box No. 1627, Fort, Bombay. Phone Nos. 253772 & 253082. Grams: "Ashwinco." Process Works: 51, Bhandari Street, Near Round Temple, Bombay 4. Depot: 108, Ardeshir Dady Street, Near C. P. Tank, Bombay 4. Phone: 73741. Workshop: 8A, Dhobi Wadi, Seti M. N. Charities Compound, Thakurdwar Road, Bombay 2. Phone: 29827.

Pearl Metal Works, 20, Wadi Bunder Road, Mazgaon, Bombay 10.

Pearline Paria Private Ltd., Manufacturers of Hair & Beauty Specialities, Rahman Building, 24, Veer Nariman Road, Bombay 1. Tel. Address: "Pearlab."

Peerbhoy, E., & Sons, 61, Mohamedali Road, Bombay 8.

Phone: 252080.

Grams: "PESTCIL".

PEST CONTROL (India) PRIVATE LTD.

CONSULTING ENTOMOLOGISTS
TERMITE CONTROL, DISINFESTATION & FUMIGATION SERVICE.

Address:

86, Yusuf Building, Mahatma Gandhi Road, Fort, Bombay 1.

Managing Director:

N. B. SHANKER RAO, F.R.E.S.

Member:

NATIONAL PEST CONTROL ASSOCIATION, U.S.A.
ENTOMOLOGICAL SOCIETY OF INDIA.

Peter Kuruvilla, 97, Apollo St., Fort, Bombay. Phone: 253210; Grams: "PETVILLA".

PETROLEUM AND MINERALS PRIVATE LTD., Head Office: Rahimnoola House, Humeji Street, Fort. Burmah-Shell Kerosene Agents. **Chairman:** A. A. Jandevalla; **Managing Directors:** Panachand M. Vora and Panachand H. Shah. Telephone Connections:—
Head Office: 253054.
Sales Office: 72509.

Phalton Sugar Works Ltd., Manufacturers of Sugar, Sangli Bank Bldg., 4th Floor, 296, Bazargate Street, Bombay 1. Phone: 253339. Grams: "RISINGSUN." **Board of Directors:** L. V. Apte, **Chairman,** Kantilal Nahalchand, Arvind N. Mafatlal, M. L. Apte, Rasesh N. Mafatlal, Himatlal Kantilal, R. B. Apte, Natverlal Bhikhabhai.

Pharmed Private Ltd., Manufacturers and Distributors of Biologicals & Pharmaceuticals. 'Pharmed House', 141, Fort Street, Fort, Bombay. Phone: 261141. Grams: "Pharmed."

Phillips & Co., Chemists, Waterloo Mansions, Mayo Road, Fort.

PHIPSON & CO. PRIVATE LTD., 6, Apollo Street. Telegrams: "Phipson," Bombay. Tele. Nos. 252284 and 252285. **Head Office:** Calcutta. Branches in India—Delhi, Madras, Cochin, Visakhapatnam and Bangalore.

Pakistan Subsidiary Company—Phipson & Co. (Pakistan) Ltd., Wallace Road, Karachi 2. Branches in Pakistan—Lahore, Rawalpindi and Chittagong.

Associated Company in U.K.—Caldbeck Phipson & Co. Ltd., Mark Lane, London, E.C. 3.

PHIROZ N. MOTABHOY & CO. PRIVATE LTD. Textile Stores Specialities. Sole Selling Agents for Swastik Bobbin's Mfg. Co. Private Ltd., Hyderabad. Motabhoi Building, Corner of Medows and Forbes Street, Fort, Bombay. Phone No. 255717. Tel. Address: "Eolog," Bombay.

PHOTO CINE SOUND PRIVATE LTD., Importers of Scientific, Survey & Educational Equipment. 12, Rampart Row, Fort, Bombay 1. Phone: 254855. Grams: "PHOTOCINE".

Photogravures (India) Private Ltd., Pioneers in Textile Photo-engraving, Chromo-plating & Re-coppering. Office: 21, Forbes Street, Fort, Bombay. Phone: 254657. Grams: "GRAVURS". Works: 11, Dr. Annie Besant Road, Worli, Bombay 18. Phone: 73269.

PIONEER EQUIPMENT CO. PRIVATE LTD.

Regd. Office: 21, Forbes Street,
BOMBAY 1

H.O.: 139, Meadows Street,
P.O. Box 1909, Bombay 1
(Phone : 25-1882)

Also at :

1, Mangoe Lane, Calcutta 1
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Plastic Extruders Private Ltd., Manu-
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Popular Electric & General Stores, Wholesale and Retail Dealers in Everything Electrical, 414, Hararwalla Building, Golpitha Corner, Bombay 4.

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Powercrafters, Engineers, 31, Queen's Road, Bombay 4.

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Pradhat Products Co. Private Ltd., Manufacturers of Gas Mantles, Lanterns and Accessories, Noble Chambers, Parsee Bazar Street, Fort, Bombay.

PRABHULAL L. PANDYA & CO., Salt Freight and Chartering Brokers, Steamships Agents and Stevedores, 11, Bank Street, Fort, Bombay. Phone: 251794. Grams: "Prapandya." Branches: Okha, Jamnagar, Bhavnagar, Veraval, Porbunder, Navalakhi and Kandla.

Pratfullchandra & Co., Engineering Tools Merchants, Hararwalla Bldg., Lohar Street, Bombay 2.

Pramashaw Motor Co., 420, Lamington Road, Bombay 4.

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Premier Aerated Waters Private Ltd., Mfgs. Aerated Waters. Lamington Road North, Bombay 8. Phone: 74282. Grams: "BUGUL".

Premier Art Printing Works, Fine Art Printers and Label Manufacturers, 17-B, Cawasji Patel Street, Fort, Bombay.

Premier Automobiles Ltd., The, Head Office: Construction House, Ballard Estate, Bombay 1. Phone: 26-1056.

Premier Chromate & Chemical Works Ltd., 402, Cadell Road, Prabhadevi, Bombay 28. Phone No. 61019. Tel. Address: "Chromchem."

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Premier Electric Co., Ltd., Electrical Goods (Stockists and Dealers), Mehta House, Apollo Street, Fort.

Premier Furnishing & Decorating Private Ltd., Furniture & Interior Decorators, 7, Brabourne Stadium, Churchgate Street Extension, Fort. Phone: 37532.

Premier Glass Traders, Importers of all kinds of Glass, Frames, Plywood, Mounts, Glaziers' Diamonds, etc., 74/78, Dhanji Street, Bombay 3. Grams: "Reason." Phones: 23845 (Office) and 71837 (Res.).

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Premier Typewriter Co., 235, Dr. Dadabhai Naoroji Road, above Kemp & Co., Fort. Dealers in Typewriters. Phone No. 261787.

Premji Haridas & Co. (Estd. 1911), Bhanushali Chambers, 166-170, Arkyle Road, Bombay 9.

Press Process Studio, for Designs, Blocks, Slides, Stereos, etc. Victoria Mills, 2nd Floor, Gamdevi, Bombay 7.

Press Trust of India Limited (News Agency), Petit Building, 357, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Grams: "Press-trust," Bombay. Phone: 252371.

Primera Corporation, Importers, Exporters and Manufacturers' Representatives, 10, Bruce Street, Bombay 1.

PRINCE, H. I., & SONS, 9, Lily Court, Churchgate Reclamation, Bombay. Sole Proprietor: H. I. Prince; Sole Agents: "Brunsviga" Adding and Calculating Machines and "Luxacopy" Photocopying machines.

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PRITCHETT & GOLD BATTERIES (EASTERN) LTD. (Incorporated in England). Manufacturers of Accumulators of all Types. Post Box No. 1774, Bombay 1; Phone Nos. 255756 & 255757. Head Office: Dagenham Dock, Essex, England; Treasurers & Accountants: Healy & Gresham Ltd. Director & General Manager: Niren N. Ghose, D.F.H. (Lond.), A.M.I.E.E. Sales Engineer: R. R. Karandikar. Asst. Sales Engineer: J. J. Dadachanji. Personal Assistant to General Manager: Miss M. V. de Lima.

Produce Dealers Private Limited, Currimji Building, 111, Mahatma Gandhi Road, Fort, Bombay. Phone: 259241. Grams: "Peanut." Exporters of Oil Seeds, Essential Oil Seeds, Oils, Spices, Crude Drugs, etc.

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Punga Trading Syndicate, Manufacturers, Exporters, Wooden Carpets, Hardware, 3, Prospect Chambers, Hornby Road, Fort.

Purbhoo Das, D. S., & Co., Share, Stock, Exchange & Finance Brokers, Stock Exchange New Building, Apollo Street, Fort.

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Purshotam Mathradas & Co., Ltd., Manufacturers of Myrabolans Extract, 3, Mherwan Building, Sir Phirozshah Mehta Road, Fort, Bombay.

Purshotamdas Madhavani & Co. Private Ltd., Stevedores, Clearing and Forwarding Agents, Botawalla Building, 8, Horniman Circle, Fort. Phones: 251687, 253159, 264558. Tel. Address: "Stevedore."

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Queensland Insurance Co., Ltd., Contractor Bldg., Nicol Road, Ballard Estate.

R. C. EDWARDS & CO., PRIVATE LTD., 16, Arthur Bunder Road, Colaba, Bombay 5. Phone: 36032. Grams: "Eddicom." Sole Importers of Argo Taximeters, Tachographs, Vibracorders and other Recording Instruments.

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Managing Director: Major Jagtar Singh.

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Conduit Pipes, "ISMET" Electrical Household Appliances, etc. Managing Director: W. L. Racek. Director: A. Racek. Head Office and Showrooms: Shreeji Bhuvan, Lohar Street, Bombay 2. Post Box No. 2006. Phones: 20255, 35252 & 36464. Tel. Address: "EFRACEK." Code: ABC 6th Edn. and Bentley's 2nd Phrase. Branch Offices: 57, Radha Bazar Str., Calcutta. P.O. Box 2121. Phone: 22-3576 & No. 2, Singanna Nalek Street, Madras. P.O. Box 1248. Phone: 2700. Sub-Agents in all important Cities in India, Burma, Ceylon and East and West Pakistan.

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RADIANT ELECTRIC & MACHINERY CO., Vithaldas Chambers, Bruce Street, Fort, Bombay 1. Phone: 255297. Electric Motors & Starters, A.C. Generating Sets, D.C. Motors & Dynamos, Power Transformers & H.T. Switchgears, Distribution & Switchboard Panels, Ironclad Switches & Distribution Boards, Circuit Breakers, change over Switches, Knife Switches, Measuring & Testing Instruments, Industrial Exhaust Fans, Centrifugal Blowers, Air Circulator Fans, Underground Cables, Cable Boxes & Jointing materials, V.I.R. Binding and Insulating Wires, Copper Strips, Laying of Cables, erection of Transformers, Alternating Sets, Distribution Boards etc., Repairing, Rewinding and Re-conditioning of Electric Machinery, Cast Iron Pipes & Pipe Fittings, Valves, Water meters, Centrifugal Pumps, and Pumping Sets of all types, Steam Pumps, Hydrant Pumps, Drills, grinders & Portable tools, Power Hammers, Hand Trucks C.I. & Rubber tyred Wheels, Electric Platform Trucks, Battery Driven Stacers, Chain blocks, Welding generator Sets, Welding Transformer Sets and Welding Accessories.

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Radio Electric Private Ltd., Manufacturers of Radiotone Products. Lamington Chambers, Lamington Road, Bombay 4. Phone: 70824. Grams: "RADTRIC."

RADIO LAMPS WORKS LTD., 45-47, Veer Nariman Road, Bombay 1. Electrical Engineers, Manufacturers & Contractors. Phone: 25-3841. Gram: "SOFTLITE". Branches at Calcutta, Delhi, Madras, Kanpur, Bangalore, Patna, Indore, Wardha and Gauhati.

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Railship Stores, Manufacturers and dealers in Leather goods and travelling requisites for authorised Distributors & Stockists of Peacock brand leather cloth products. 39, Meadows Street, Fort, Bombay.

Raj & Co., Printing press material dealers, 40, Cowasji Patel Street, Bombay 1.

Raja, F., & Co., Iron & Rolled Steel Beams Merchants. Carnae Bunder, Bombay 9.

Raja Furniture Mart, Furniture and Fancy Cloth Dealers, Fulchand Nivas, Chowpatty Sea Face, Bombay 7.

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Rajkamal Supplying Stores, 295, Abdul Rehman Street, Bombay 3. Direct Importers and Stockists of Paints and Dry Colours, Brushes & Artistic Materials.

RALLIS INDIA LTD., 21, Ravelin Street, Fort, Bombay 1. P.O. Box 100. Tel. Address: "RALLI," Bombay. Telephone: 26-8151 (8 lines).

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Ralli Brothers Limited, London, Manchester and Branches.

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Ramdas Khimji Brothers, Cotton Merchants, Exporters & Importers of Raw Cotton and Piece-goods, Warden House, Sir Phirozshah Mehta Road, Fort, Bombay.

Ramesh Dalal & Co., Cotton Merchants, Nawab Bldg., 327, Dr. Dadabhai Naoroji Road, Bombay 1. Phone: 251793. Grams: "GRAPE JUICE."

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Registered Office: Palla Street, Nanpura, Surat; Phone: 577.

Ramjanally Ebrahim, Investor in Industrial Joint Stock Cos. & Estate. Office: 22, Apollo Street, opp. State Bank, Fort, Bombay. Tel. Address: "Biblock." Phone Nos. 251151 & 37364. Also at Poona, 14-A, Wellesley Road. Phone: 3702.

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Ramnisklal C. Kothari & Co., Plastics Machinery, Moulds and Raw Materials Dealers, 16, Apollo Street, 513, Sir Vithaldas Chambers, Bombay 1. Grams: "Astrogems."

RAMNISKAL MEGANLAL & CO., Iron and Steel Merchants, Carnae Bunder, Bombay 9. Phone No. 38492. Grams: "TESTED", Bombay.

Ranade & Partners, Room No. 40, Bombay Mutual Annex, 4th Floor, 17, Gunbow Street, Fort, Bombay 1. Phone: Office: 261038.

Ranade, G. S., & Co., Temple of Industry, Girgaum Main Road, Bombay 4. Tel. Address: "Newstyle". Phone No. 22548.

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RANJIT SALES & PUBLICITY PRIVATE LTD., 111-A, Mahatma Gandhi Road, Fort, Bombay. (Advertising Service Agents.) Telegrams: "RANJITSALE". Phone: 251121.

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Attorneys:

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Sheth, S. C., & Co., Private Ltd., Dealers in Mill Stores, Bobbins & Shuttles, Textile Auxiliaries, Sising Materials, Colours, Chemicals, Beltings, Leather goods for Textile Industry, Raja Bahadur Mansion, 8, Hamam Street, Fort. Tel. Address: "Agmol." Phone No. 255358.

SHETTL, S. D., & CO., PRIVATE

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STEELYARD PRIVATE LIMITED, Regd.
Office: Carnac Bunder, Argyle Road,
Bombay 9. Steel, Hardware. Chairman:
Jathashankar Gopalji. Managing Direc-
tors: C. J. Ambani, K. V. Mehta. Phone:
Sales Office 22643. Tele. Address:
"Scotchiron."

STERLING DYES PRIVATE LIMITED,
Manufacturers of Textile Dyes & Chemi-
cals. Office: 231, Samuel Street, Vadgadi,
Bombay 3. Phone: 20462. Grams:
"LAXNAGAR." Works: Agra Road,
Bhandup, Bombay 40.

"Stewart's Laboratories," 327, Dr. Dadabhai
Naoraji Road, Nawab Building, 2nd Floor,
Fort, Bombay 1. Manufacturers of Inks,
Ink Powders, Gum and Paste, Sealing
Waxes, Loose Leaf Binders, Wooden and
Metal Stationery Articles, Stockists of
"Gum Arabic." Telephone: 252951.

STOESSEL, W. R., & CO., 68, New Marine
Lines, Fort. Tel. Address: "Entireness."
Phone No. 242241.

Manufacturers of: STOEESSEL Advertising
Media, Wall Calendars and Greeting
Cards.

Sole Agents for:

The Cotton Trade Journal (Memphis,
U.S.A.). Critchley Bros. Ltd.
(Knitting Needles & Pins).

STONE, J., & CO. (INDIA) PRIVATE
LTD., 3rd Floor, Imperial Chemical
House, Wiltet Road, Bombay 1. Train
Lighting Equipment, Air Conditioning
and Refrigeration for Railway and Road
Vehicles, Marine Propellers and Specia-
lities, White Metals and Bronzes, etc.
J. R. Butler, K. V. S. Mani. Agents for
The Superheater Co. Ltd.; Stratite &
Porcelain Products Ltd.; The Permutit
Co. Ltd.; Pilkington Bros. Ltd.; Taylor
Bros. & Co. Ltd.; Thos. Turton & Sons
Ltd.; S. A. Usines & Acleries Leonard-
Glot; Ball Traction Supplies Ltd.;
Svenska Aktiebolaget Bromsregulator;
Combustion Engineering Inc. Phone:
28-2357. Tel. Address: "STONECOY."
P.O. Box 494. Registered Office: 5, Hide
Road, Kidderpore, Calcutta-23.

Stone Supplying Co. Ltd., Marble, Tiles &
Stone Merchants, 494, Duncan Road,
Bombay 4. Phone No. 72586.

STONOLITE MONOLITHIC PRO-
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able, Fireproof, Heat-resisting, Germ-proof
Compositions for Floors, Skirlings, Dadoes,
Partitions, Walls and Roofs etc. Suppliers
to Railways, Factories, Residences, Textile
Mills, etc. Jiji House, 6rd. Floor, Bavelin
Street, Fort, Bombay 1. Phone: 264296.

STRONACHE ADVERTISING, L. A.
STRONACHE & CO. (INDIA) PRIVATE
LTD., Bombay. Established 1923. Tel.
Address: "Adservice". Phone: 26-3236.
Associate Company in United Kingdom
Ceylon and Pakistan.

STRUCTURAL ENGINEERING WORKS,
LTD. Managing Agents:—Bhagat & Sons
Private Ltd., Engineers. Registered
Office:—Maneckji Wadia Bldg., 127,
Mahatma Gandhi Road, Fort, Bombay
No. 1.

Works No. 1: Wadala Fort Road,
Bombay 31.

Works No. 2: Bombay-Agra Road, Near
Mile Stone 20, Mulund (Bombay
Suburb).

Works No. 3: 27, Barrackpore Trunk
Road, P.O. Kamarhati, Dist. 24,
Parganas, West Bengal.

Works No. 1: 62741-2.

Works No. 2: 67981 and 67982.

Phones: Works No. 3: Panhati-346.

Bhagat's Residence: 40398.

Grams: Office: "Bhagatson."

Works No. 1: "Structural."

Works No. 2: "Weldstruc."

Works No. 3: Grams: "STRUCTURAL."

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 Inst. M. Ama. Wel. Soc., O.M.
 Inst. Wel. (London), M. Aust. W.I.,
 Managing Director of Bhagat & Sons
 Private Ltd. and The Indian
 Expanded Metals Private Ltd.
 A. M. Kapadia, A.M.I. Struct. E., M.I.W.
 (Lond.), Technical Adviser.
 I. N. Bhagat.
 B. M. Ghia.
 Mathew S. D'Souza.
 M. N. Bhagat (Tech. Asst.).
 J. B. Taleyarkhan (Commercial
 Manager), A. T. Tarkas (Secretary).
 D. S. Mulla.

Subodhchandra Papatlal, Importer &
 Exporter, 223/225, Sheikh Memon Street,
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Sugar Textile Service, Auxiliaries for Dye-
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 Third Floor, Bombay Mutual Building, Sir
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**SUNRID GEIGY TRADING PRIVATE
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 & Pharmaceuticals, Express Building,
 'E' Road, Churchgate, Bombay 1.
 Phones: 242184, 242185, 242186. Grams:
 "ACEDEEECEE."

Sukhanand Shankerlal Jain & Co., Dyestuffs
 & Chemical Merchants, 47, Daryasthan
 Street, Bombay 3.

Sultania Cotton Manufacturing Co. Ltd.,
 Ismail Building, Dr. Dadabhai Naoroji
 Road (Hornby Road), Fort, Bombay.
 Tel. Address: "Bandenawas." Phone
 No. 255046.



Tel: Office 39435 Grams: SUNPROCESS

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Specialists in advanced techniques
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 "Unitex Hardboards and Novopan Chip
 Boards, Manufacturers of perfoliate Acous-
 tical Tiles, perfolpan and perfolalab and
 "Coolite" Venetian Blinds. Phone No.
 42051. Grams: "Suncomp."

Sunderlal & Sons, Mill Gin & Hardware
 Merchants, 11, Narayan Dhuru Cross
 Lane, Bombay 3.

Sunshine Traders, 3, Hamam Street, Fort,
 Bombay. Phone: 251631; Manufacturers
 of Spindle Tapes, Listings, Webbing,
 Egyptian Cotton tapes, Venetian blind
 tapes, Cotton Bandings, Tubular and
 bundle bandings.

Super Leather Works, Leather & Canvas
 Goods Dealers, 300, Abdul Rehman Street,
 Bombay 3.

Superior Stationery Mart Private Ltd.,
 Stationers, Printers, Direct Importers of
 Stationery and Paper, Examiner Building,
 117, Meadows Street, Fort, Bombay 1.
 Phone: 25-2398. Grams: "Lovellness."

Superphone India, Communication Consul-
 tant, 7, New Queen's Road, Bombay 4.

**SURAT ELECTRICITY COMPANY,
 LIMITED, THE, CENTRAL ADMINIS-
 TRATION DEPARTMENT**, 5, Graham
 Road (4th Floor), Ballard Estate,
 Bombay 1; **Officers:** P. D. C. R. Clark,
 C.A., J. A. Calaco, B.E., A.M.I.E.E., R. D.
 Modak, B.A., B.Sc., B.S. (Engr.), S. A. A.
 Pinto, M.A., LL.B., S. Datta, B.Sc., B.E.E.
Telegraphic Address: "ADISEBS,"
 Bombay. **Telephone Nos.** 261741/261742.
Managing Agents: Killick Industries Ltd.,
 Home Street, Fort, Bombay. **Local Office:**
 Tilak Maldan, P.O. Box No. 20, Surat
 (Ref. Surat Section).

SUREN, W. T. & CO. PRIVATE LTD.,
 Merchants, United India Building, Sir
 Phirozshah Mehta Road, Fort, Post Box
 No. 229, Bombay 1. Tel. Nos. 252281/
 252282. Tel. Address: "Suren". Importers
 of Ferrous and Non-Ferrous metals, Paper,
 Electrical Materials, Chemicals, Pharma-
 ceuticals, etc. Sole Importers for India
 of Endocrinal and Pharmaceutical prepa-
 rations manufactured by Schering
 Corporation, Bloomfield, New Jersey
 (U.S.A.). **Sole Distributors for:** Teddington
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SUTRAMDAS (INDIA) PRIVATE LTD.,
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Swastik Engineering & Construction Co.,
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 Confectioner Building, 303 Frere Road,
 Fort, Bombay 1. Phone: 261869.

Swastik Paper Mart, For Newsprint, Corru-
 gated Boards and other boards, 64, Sutar
 Chawl, Bombay 2.

SWASTIK OIL MILLS LTD. Manu-
 facturers and Exporters of Vegetable
 Oils, Oil Cakes, Refined Oils, Washing &
 Toilet Soaps, Synthetic Detergents, Hair
 Oils, Textile Auxiliaries and Chemically
 Pure & Industrial Glycerine. **Address:**
 P.O. Box No. 362, Bombay 1. **Phone:**
 (Factory) 60048; (Office) 265361-2.
 Grams: "SOMUC."

Swastik Rolling Shutters & Engineering
 Works, Parcel Station Road, Bombay 12.
 Rolling Shutters Manufacturers.

Swedish Match Co., The, Match Manufactur-
 ers. **Office:**—Indian Mercantile Chambers,
 Nicol Road, Ballard Estate.

Sykes, Patker & Divecha, Architects,
 Engineers & Surveyors, 24-26, Dalal
 Street, Fort.

T. Lakhamshi Ladha & Co. (Talpatiwala)
 (Estd. 1920). Manufacturers of Water-
 proof tarpaulins and Dealing in Flex,
 Jute and Cotton Canvas, Cart and Wagon
 Covers, hessian, twine, eyelets, etc. Tar-
 paulins given on hire. 298, Narsi Natha
 Street, Near Masjid Rly. Station, Kharak
 Bazar, Bombay 9.

T. I. OF INDIA PRIVATE LTD., "Her-
 cules" Bicycles, Welded and Seamless
 Steel boiler, pressure and mechanical
 tubes, stainless steel and plastic tubes and
 fittings, bright drawn steel bar and shaft-
 ing, aluminium tubes sections bars and
 sheets, "Pop" blind rivets and tools,
 "Crane" packings and mechanical seals,
 "Brookes Oldbury" bending and cutting
 off machines, etc. 2nd floor, United Bank
 of India Bldg., Sir Phirozshah Mehta
 Road, Fort, P.O. Box No. 1308. Phones:
 253957/58/59. Tel. Address: "TUBE-
 IND". Godown, Sewri.

Director: B. C. Atterton.

Sales Assistants: R. Rajagopalan, K. A.
 Mandgi, V. M. Arekar, J. R. Chander.

Head Office: 5 & 7, Netaji Subhas Road,
 Calcutta.

**TAHIRA INDUSTRIES (INDIA) PRI-
 VATE LTD.**, 53, Queen's Road, Bombay
 2. Phone: 34080. Grams: "TAHIRA";
 Tokheim Petrol Pumps and Hand Pumps,
 Service Station Equipment, Special Pumps
 for Acids and Chemicals, Oil Line Pipe,
 Valves and Fittings, Rubber Hoses, Wire
 Ropes, Chains, Packings and Joints.

Taj Printing Works, 46-A, Cawasji Patel
 Street, Fort, Bombay.

Tajbhoy Allibhoy & Sons, 117, Ebrahim
 Rahimtalla Road, Bombay 3.

Talib & Company, Pipes, Fittings & General
 Hardware. Talib House, 104, Nagdevi
 Street, Bombay 2. Phone No. 27977.
 Tel. Address: "Talibco."

**TALWALKER BROTHERS PRIVATE
 LIMITED, W. R.**, Lentin Chambers,
 Dalal Street, Fort. Phone: 253367. Tel.
 Address: "PUMPENAMEL."

Distributors for:

KIRLOSKAR & OGALE PRODUCTS:
 Shallow and Deep Well Hand Pumps,
 Direct Coupled Engine & Motor
 Pumping Sets, Diesel Oil Engines,
 Electric Motors, Star Delta Starters,
 Groundnut Decorticators, Sugarcane
 Crushers, Agricultural Implements.

SPECIAL PUMPS FOR SUGAR FACTORIES, CHEMICALS, AIR CONDITIONING UNITS:

Glass Bottles & Containers, Glass
 Hollow Bricks, Glass Tiles for Roofing
 (Mangalore Pattern), Partition &
 Flooring, Enamel Advertising Sign
 Boards, Enamelled Light Shades,
 'Prabhakar' Kerosene Safety Stoves.

Tambawalla Metal Manufacturing Works
 Private Ltd., 66/68, Narayan Dhuru
 Street, Bombay 3.

**TAMBAWALLA PRODUCTS AGENCIES
 PRIVATE LTD.**, Importers and Dealers in
 all sorts of Non-Ferrous Metals and Scrap
 Electrical Wires, Surgical Instruments,
 etc., 66-68, Narayan Dhuru Street,
 Bombay 3. Tel. Address: "AXLE."
 Phone Nos.: 38031-32 **Branches:**
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Tambe, B., Ltd. Vegetarian Caterers.
 (Props. of Tambe Health Home). Head
 Office: Sansgiri Sadan, Girgaum Road,
 Bombay 4. Phone No. 20687.

Branches: (1) Thakurdwar Corner;
 (2) Hammam Street, Fort; (3) Cona,
 Girgaum.

Taraporevala, D. B., Sons & Co. Private Ltd.
 Booksellers and Publishers, Treasure House
 of Books, Taj Building, 210, Dr. Dada-
 bhoy Naoroji Road, Fort, Bombay.

TARAPOREVALA, P. D. S., SONS & CO.,
 Managing Agents, New Book Co. Private
 Ltd., Kitab Mahal, 188-190, Dr. Dada-
 bhoy Naoroji Road (Hornby Road),
 Fort, Bombay. Phone No. 263544/45
 (2 Lines). Tel. Address: "Newbook."

Taraporevala & Co., Architects, Engineers
 and Surveyors, 7-10, Horniman Circle,
 Fort. Phone No. 262703. **Vice-Jee A.**
 Taraporevala, F.R.I.B.A., Chartered
 Architect; Kerasap B. Taraporevala,
 F.R.I.B.A., etc., Chartered Architect, and
 Dorab V. Tarapore, A.R.I.B.A., Chartered
 Architect.

TATA-FISON PRIVATE LIMITED.,
 Bombay House, 24, Bruce Street, Fort,
 Bombay 1. **Telegraphic Address:**
 "TATFISON". Bombay. **Telephones:**
 259141/251609.

Directors:

P. A. Narielwala (Chairman).

A. Wormald.

J. R. Jenk (Managing Director).

P. T. John.

General Manager: J. C. Dastur.

Manufacturing, marketing and selling
 insecticides, fungicides, rodenticides, acar-
 icides, etc.

TATA HYDRO-ELECTRIC AGENCIES PRIVATE LIMITED, Bombay House, 24, Bruce Street, Fort, Bombay.
Directors :—

J. R. D. Tata (*Chairman*).
 Sir Homi Mody.
 Sir Purnhotamdas Thakurdas.
 Sir Chunilal V. Mehta.
 J. D. Chokai.
 N. H. Tata.
 M. G. R. Aitken.
 O. H. Campbell.
 K. C. Bakhle (*Managing Director*).

Secretary :—M. P. Mistri.

Agents for :—

Tata Hydro-Electric Power Supply Co., Ltd.
 Andhra Valley Power Supply Co., Ltd.
 Tata Power Co., Ltd.

Tel. Address : "THEBAMCO." Phone No. 259141. Code used : Bentley's.

TATA INDUSTRIES PRIVATE LIMITED, Bombay House, 24, Bruce Street, Fort, Bombay No. 1.
Directors :—

J. R. D. Tata (*Chairman*).
 N. H. Tata.
 A. D. Shroff.
 J. D. Chokai.
 T. V. Baddoley.
 Sir Jehangir Ghandy.
 D. R. D. Tata.
 P. A. Narielwala.
 S. Moolgaokar.
 K. A. D. Naoroji.
 K. C. Bakhle.
 M. K. Powwala.

Secretary :—M. P. Mistri.

Agents for :—

Tata Iron & Steel Co., Ltd.
 Tata Locomotive & Engineering Co., Ltd.
 Ahmedabad Advance Mills Ltd.
 Central India Spg., Wvg. & Mfg. Co., Ltd.
 Svadeshi Mills Co., Ltd.
 Tata Mills Ltd.
 Indian Hotels Co., Ltd.
 Tata Oil Mills Co., Ltd.
 Tata Chemicals Ltd.

Corresponding Firms :—

Tata Limited, 18, Grosvenor Place, London, S.W. 1. Tel. Address : "TATALD."

Tata Incorporated 425, Park Avenue, New York, 22, N.Y. Tel. Address : "TATAINC."

Codes used—Bentley's.

Telegraphic Address : "TATIND." Phone No. 259141.

TATA IRON & STEEL COMPANY LTD., THE.

Managing Agents : Messrs. Tata Industries Private Limited.

Registered Office : Bombay House, 24, Bruce Street, Bombay 1.

(Telegraphic Address : "Ironco." Phone : 259141).

Calcutta Office : 23-B, Netaji Subhas Road, Calcutta 1.

(Telegraphic Address : "Tatairon." Phone : 22-2341).

Jamshedpur Office : (Telegraphic Address : Tatairon).

Steel Works : Situated at Jamshedpur, Bihar.

(Rly. Stn. : Tatanagar, South Eastern Rly.).

(Telegraphic Address : "Ironco").

Head Sales Office : 23-B, Netaji Subhas Road, Calcutta 1.

(Telegraphic Address : "Ironco." Phone : 22-2341).

Directors :

J. R. D. Tata (*Chairman*) (*Special Director*).
 J. D. Chokai (*Vice-Chairman*).
 Sir Chunilal V. Mehta.
 Sir Cowasji Jehangir.
 Dharamsey Mulraj Khatau.
 Neville N. Wadia.
 Sir Fasal Ibrahim Rahimtoola.
 Sir Jehangir Ghandy (*Special Director*).
 S. Bhoothalingam (*Govt. Director*).
 Arvind N. Mafatlal.
 S. S. Khambata.

Head Office—

Agent : J. J. Bhabha.

Secretary : V. G. Mokaahl.

Calcutta & Jamshedpur Offices :—

Director-in-Charge : Sir Jehangir Ghandy.

Resident Director : M. K. Powwala.

Technical Director : P. H. Kutar.

Agent : S. M. Dhar (Jamshedpur).

Deputy Agent : K. Khosla (Jamshedpur).

General Manager : N. J. Haley.

Deputy Agent : R. H. Mody (Calcutta).

Sales Manager (Calcutta) : K. J. Cleetus.

Manufacturers of Coke, Pig Iron, Ferro Manganese, Ingots, Blooms, Billets, Slabs, Sheet Bars, Tin Bars, Sleeper Bars, Rails, Steel Sleepers, Wheels, Tyres and Axles, Structural Shapes, Bars, Plates, Sheets (Black and Galvanised), Skelp, Strip, Electrical Steel Sheets, Pick-axes, Powwals, Beaters, Bill Hooks, Chisels, Crow Bars, Hammers, Shovels, etc. Sulphuric Acid, Coal Tar, Sulphate of Ammonia, Detoluated Motor Benzol, Toluene, Crude Naphthalene, Spent Oil, Bottom Sludge, Solvent Naphtha.

TATA OIL MILLS CO., LTD., Head

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Tel. Address : "Tatolla." Phone : H. O. 259141.

Manufacturers of vegetable oils, oil-cakes, refined and hydrogenated oils, washing and toilet soaps, perfumes, colognes and other toilet preparations, essential oils, detergents, and chemically pure and Industrial Glycerine.

TATA LOCOMOTIVE & ENGINEERING CO. LTD.

Head Office : Bombay House, 24 Bruce Street, Fort, Bombay 1.

Sales Office : 148, Mahatma Gandhi Road, Fort, Bombay 1.

Works : Jamshedpur 4.

Directors :—

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 Sir Purnhotamdas Thakurdas.
 J. Dayal (*Government Director*).
 Sir Chunilal V. Mehta.
 Sir Cowasjee Jehangir, Bart.
 Sir Jehangir Ghandy.
 S. Moolgaokar (*Director-in-Charge*).
 Khan Bahadur C. B. Taraporwala.
 C. Damodar Reddy.
 Dr. F. Konecke.
 A. Wyehodil.
 C. H. Bhabha.
 Karnali Singh.
 N. K. Suntook.

Manufacturers of "Tata-Mercedes-Benz"
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Telegraphic address :

Head Office : "TATALOCO"

Sales Office : "TELCOSALES"

Telephone No :

Head Office 259141

Sales Office 255262-63.

TATA SONS PRIVATE LTD., Bombay House, 24, Bruce Street, Fort, Bombay 1.
Directors :—

J. R. D. Tata (*Chairman*).
 Lady Ratan Tata.
 Sir Homi Mody.
 N. H. Tata.
 A. D. Shroff.
 J. D. Chokai.

Secretary—M. P. Mistri.

Corresponding Firms :—

Tata Limited, 18, Grosvenor Place, London, S.W.1. Tel. Address : "TATALD."

Tata Incorporated 425, Park Avenue, New York, 22, N.Y. Tel. Address : "TATAINC."

Codes used—Bentley's.

Telegraphic Address : "TATASONS."

Phone No. 259141. P.O. Box No. 186.

TECELEMIT (INDIA), LTD., Managing Agents : Heatly & Gresham Ltd., Specialists in Garage Service, Motor Trade, Railway, Agricultural, Industrial and Marine Lubricating Equipment.—London, Calcutta, Bombay, Madras and New Delhi.
Bombay Office :—9, Forbes Street, Fort. Phones : 255756 & 255757. Grams : "Tecemilit."

Manager : M. M. Bharucha.

Techno-Chemical Works, Sion, Bombay 22. Manufacturers of Spirit-Denaturants, Bleached Shellac. Phone : 63015. Telegrams : "Teknokemi," Bombay, Sion.

TECHNO-INDUSTRIAL SYNDICATE, Sole Distributors for W. Marshall (Heale) Ltd., England and N. V. "Lithos," Holland. Commission Agents, Exporters and Importers of Heavy & Industrial Chemicals, Oils, Pigments & Paint materials 19B, Noble Chambers, Parsoo Bazar Street, Fort, Bombay. Phone : 251220. Tel. Address : "Telnay."

TEDDINGTON CHEMICAL FACTORY PRIVATE LTD., Manufacturers of Biological and Pharmaceutical Products, Sure Road, Andheri. Office : P.O. Box 220, Fort, Bombay. Sole Distributors : W. T. Surén & Co. Private Ltd., Sir Pherozshah Mehta Road, Bombay. Tel. No. 252281/82.

Tempo Industrial Corporation Private Ltd., Laboratory & Scientific Apparatus Manufacturers, Devkaran Mansion, 1st Floor, 79, Princess Street, Bombay 2.

TERRA TRADING CORPORATION, Stockists of Electrical Accessories, Gasman & American Lighting Fittings, Conduits Fittings, Wires & Cables, Starters & Switchgears. Lohar Chawl, Bombay 2. Phone : 20479. Grams : "TERRA."

TESTEELS LIMITED, Manufacturers, Structural & Mechanical Engineers and Founders.

Regd. Office :—Prospect Chambers, 317-21, Dr. Dadabhai Naoroji Road, Bombay 1. Phone : 258267. Grams : "RAIL-EQUIP."

Works at:—Ullahannagar, opp. Vithalwadi Station (O. Rly.), near Bombay. Phone: Kalyan Camp 36.

Board of Directors:—

Ratilal Nathalal (Chairman).
Pranlal Bhikhabhai.
Kantilal Nathalal.
Bhagubhai Chandulal.
Champaklal Nathalal.
Jayantilal Bhikhabhai.
Dharamsey D. Desai.
Indravadan Pranlal.
Babubhai Chimanlal Munshaw.
Commercial Manager & Secretary:—D. V. Vasa.

TEXTILES CORPORATION, Manekji Wadia Building, 127, Mahatma Gandhi Road, Bombay 1. Phone No. 251873. Grams: "DREAMS." Sole Distributors for ARLABS LIMITED. Proprietors of Associated Research Laboratories, Manufacturers of Dyestuffs since 1940.

TEXSPIN PRIVATE LIMITED, 110, Meadows Street, Fort, Bombay 1. Dealers in Textile machineries and spares. Specialising in Textile machinery, from Fibre to Fabric. Phones: 255701, 255702 & 89097 (Res.). Grams: "MAXSPIN".

Textile & Timber Traders, Dealers in Timber, Mill Gin Stores. Specialising in Shuttles, Bobbins, Pickers, etc. Meadows House, Meadows Street, Fort. Phones: 252066 and 252051.

TEXTILE MACHINERY CORPORATION LTD., Belghurria, W. Bengal. Manufacturers of all type of Spinning Machineries such as Ring Frames, Doubling Frames, Carding Engines, Drawing Frames, Simplex Fly Frames and spares such as spindles, Ring, Fluted Rollers etc. and Boilers. Sole Selling Agents of Spinning Machinery for Messrs. Howa Machinery Ltd., Japan. Sales Offices at: Bombay, Ahmedabad, Coimbatore and Kanpur.

Textile Stores & Hardware Mart, Engineers, Contractors & Shipchandlers, 127, Narayan Dhuru Street, Bombay 3.

TEXTILE SUPPLIES SYNDICATE (INDIA) LTD., Textile Engineers, Consultants and Suppliers, India House (1st Floor), Opp. G.P.O., Bombay. Tel. Address: "Goodbelt". Phone No. 26-3564.

Branches:—Ahmedabad, Coimbatore (S.I.), Kanpur and Calcutta.

Thacker & Co. Ltd., Rampart Row, Bombay. Phone No. 30722. Tel. Address: "Booknotes."

Thakurdwar Brass Works, Builders' Hardware Mfrs., Office: Surya Mahal, Thakurdwar, Bombay 4.

Thana Electric Supply Co. Ltd., Court House, opp. St. Xavier's High School, Dhobi Talao, Bombay.

THANA TEXTILE ROPE WORKS, "Sun Brand" Pink Ply Cotton Rope Manufacturers and Merchants. Crescent Chambers, Tamarind Lane, Fort, Bombay. Phone: 251853. Grams: "ROPE DRIVE." Works: Bombay-Agra Road, Thana (O. Rly.).

THANAWALA, B., & SONS PRIVATE LTD., Manufacturers of "National" Cotton Driving Ropes & Spindle Tapes, etc., 47, Tamarind Lane, Fort. Tel. No. 253735 and Factory Tel. No. 64/1040. Tel. Address: "Engineerops."

Thanawala, M. J., & Co., M. Best Cotton Rope Manufacturers, 47-49, Forbes Street, Fort.

The Hindustan Tyres Private Ltd., Manufacturers of all kinds of Rubber and Ebonite goods and Retreaders of Tyres, Lamington Road (North), opp. Agripada Police Station, Bombay 11. Phone No. 42821. Tel. Address: "Tyres."

THE INDIA GENERAL ENGINEERING CO., PRIVATE LTD., Dealing in Electrical & Mechanical Machines, Accessories and Equipment, Lathes, Drilling Machines, Welding Generators & Transformers, Electric Motors, Starters, Pumps, Diesel Engines, Diesel Generating Sets, etc. Available from stocks, Manu Mansion, 3rd Floor, 16, Old Custom House Road, Fort, Bombay. Phone: 251992. Grams: "INDIGENE."

THE METAL BOX COMPANY OF INDIA LTD., 249, World Road, Bombay 18, Post Box No. 544, Bombay 1. (for details of Products manufactured See Page 1000).

Therapeutics Chemical Research Corporation Analyzers and Samplers. Chain of Laboratories. Research, Biochemical, Bacteriological, Pharmacological, Analytical and Standardisation. Foods, Drugs & Chemicals etc. oils, ores & Minerals etc. 95, Morland Road, Byculla, Bombay 8. Phone: 74531. Grams: "THERASERCH" Branch Laboratories: Morey Bhuvan, Mount Road Extension, Nagpur 1; Phone: 4552 & 3405; Grams: "THERASERCH", and Rustom Mahal, 2nd Line Beach, Madras 1; Phone: 55678; Grams: "THERASERCH-CO" Branch Offices: Calcutta, Kakinada, Masulipatnam, Visakhapatnam, Bhavnagar, Kandla & Redfort.

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Tribhobandas Bhimji Zaveri, Jewellery, Gold & Silver Merchant, 241-43, Sheikh Memon Street, Bombay 2.

Tribhobandas Bhikhabhai, General Importer and Exporter, 228-25, Shroff Bazar, Bombay 2.

TRINITY ELECTRIC SYNDICATE, Electrical Engineers and Contractors, Princess Street, Bombay 2. Partners: N. B. Khambati, B.A., A.M.I.E.E., Chartered Electrical Engineer; M. R. Khambati, B.A.; N. N. Khambati, L.B.M. Phones, Office: 23401, Res. 72997. Tel. Address: "S O L E N O I D." Agents: Felten & Guillaume Carlswerk, Aktiengesellschaft, Köln-Mulheim, Germany for Power, Telegraph, Telephone & Signalling Cables. Stensholms Fabriks Aktiebolag, Huskvarna, Sweden for Thermostats and Rotary Switches.

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Universal Electric Co., Stockists of G.E.O. Products, 73-75, Lohar Chawl, Bombay 2. Phone: 23744. Grams: 'Cabyre'.

Universal Export & Import Co., Behind Roxy Cinema, Swadeshi Mills Estate, New Queen's Road, Bombay 4. Agent for: Starline Chinese Lacquer Paints; Dakin Bros. Ltd., London, for Drugs & Chemicals. Phone No. 27246.

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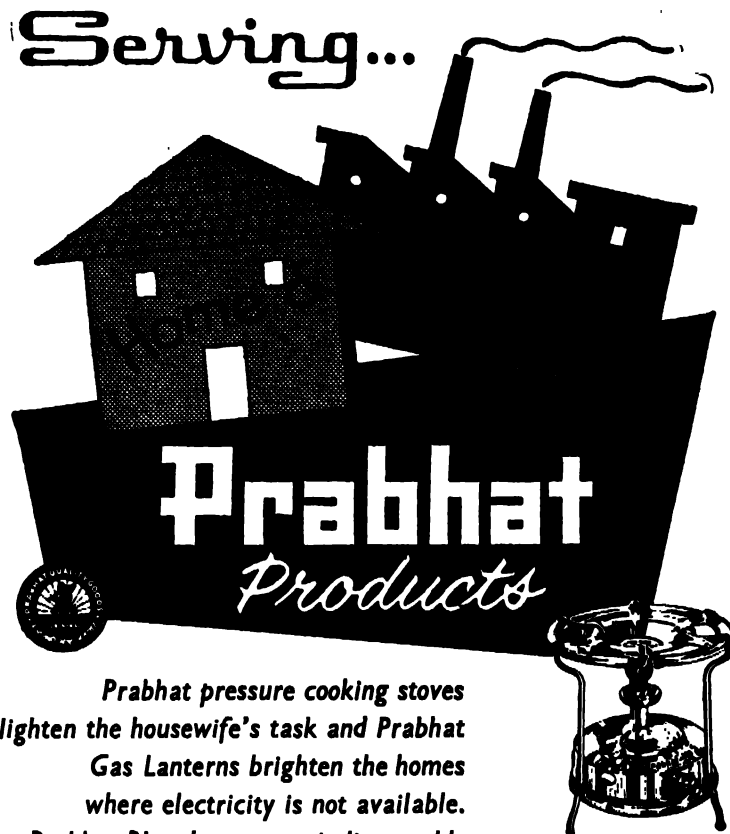
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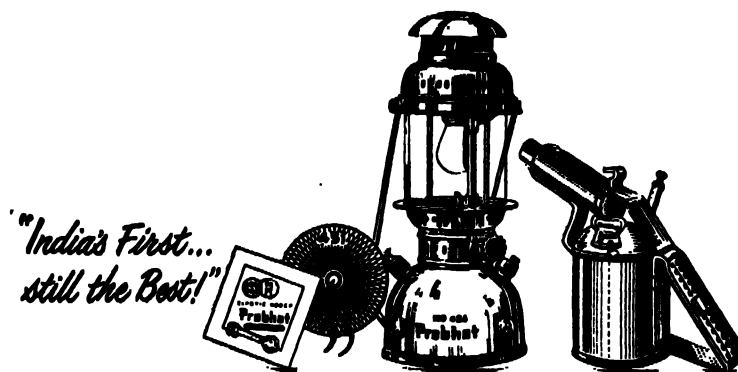
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HEROS' PUBLICITY SERVICE.—4-B, Vulcan Insurance Bldg., Veer Nariman Road, Bombay 1. Phone: 242069. Grams: 'HEROSPUB.'

Ind Advertising Agency.—Commercial Chambers, Masjid Bunder Road, Bombay 3.

INDIA ADVERTISING SERVICE.—Western India House, Sir Phiroozshah Mehta Road, Fort. Tel.: 254769. Branch Office: 7D, Rajouri Gardens, New Delhi 15. Phone: 51531.

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Malaney & Co..—People's Bldg., Sir P. M. Road, Bombay 1.

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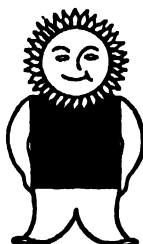
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Nanji V. Dossa & Co.—Jan Mansion, Sir Phirozshah Mehta Road,
Fort.

Narielwala, B. P., & Sons.—101, Apollo Street, Fort.

NETTLEFOLDS OF INDIA PRIVATE LIMITED.—Wakefield
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Bombay 1.

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Bombay. Manufacturers' Representatives, Agents & Mer-
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Gandhi Road, Fort.

Osler, F. & C., Ltd.—Swadeshi Mills Compound, New Queen's Road.

Overseas Chemical & Trading Co.—Jan Mansion, Sir Phirozshah
Mehta Road, Fort.

Pan Asiatic Overseas Co., Ltd.—Bell Building, Sir Phirozshah Mehta
Road, Fort.

Patel Bros.—10, Veer Nariman Street, Fort.

Patel, P. R., & Co., Ltd.—Mherwan Building, Sir Phirozshah
Mehta Road.

Pavri, J. K.—10, Karim Chambers, Hamam Street, Fort.

Pavri Sons & Co.—95-97, Besargate Street, Fort.

Phillips & Co.—Waterloo Mansions, Mayo Road, Fort.

Phipps & Co. Private Ltd.—6, Apollo Street, Fort.

Pioneer Magnesia Works Ltd., The.—113, Mahatma Gandhi Road,
Bombay 1.

Poonjajee, J. M. Jehangir.—Byramji Mansion, Sir Phirozshah
Mehta Road, Fort, Bombay.

Precious Electric Co.—Yusuf Building, Churchgate Street, Fort.

Premchand Roychand & Sons, Ltd.—63, Apollo Street, Fort.

Printer Bros.—Beaumont Chambers, Medows Street, Fort.

Progressive Corporation, Ltd.—Jehangir Wadia Building, 51,
Mahatma Gandhi Road, Fort.

Ballis India Ltd.—21, Bavelia Street, Fort.
 Ramdas Khimji Bros.—Warden House, Sir Phirozshah Mehta Road, Fort.
 Ratilal, R., & Co.—111, Mahatma Gandhi Road, Bombay 1.
 Richardson Cruddas & Co., Ltd.—Byculla Iron Works, Byculla.
 Roberts, McLean & Co., Private Ltd.—Ilaco House, Sir Phirozshah Mehta Road, Fort.
 Boneo, Ltd.—Navsari Chambers, 39, Bastion Road, Fort.
 Sankalchand G. Shah & Co.—Hanuman Building, Tambakanta, Pydhonie.
 Santhanam & Co.—Exporters, Importers & Commission Agents.
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 Sarabhai & Co.—Western India House, Sir Phirozshah Mehta Road, Fort.
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 Shapurji & Co., R. K.—319, Hornby Road, P. B. 1055, Fort.
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 Shaw, Wallace & Co. Ltd.—3, Wittet Road, Ballard Estate.
 Shroff Bros. & Co.—4, Botawalla Building, 7-9, Elphinstone Circle, Fort.
 Soho House.—Vithal Sayana Building, Lohar Street.
 Sorabji Hormusji & Co.—23, Mangaldas Road, opp. P. O., Jama Masjid.
 Sorabji Kharas & Co.—Fort Chambers, 65, Tamarind Lane, Fort.
 Sorabji Pestonji & Co.—105, Apollo Street, Fort.
 Spencer & Co., Ltd.—Spencer's Building, Forjett Street, Bombay 20.
 Spinner, E., & Co.—8, Tamarind Lane, Fort.
 Stone, J., & Co. (India), Private Ltd.—Yaffi Building, Goa Street, Ballard Estate.
 Suren, W. T., & Co.—United India Building, Sir Phirozshah Mehta Road, Fort.
 Symonds & Co.—Eruchshah Building, 249, Hornby Road, Fort.
 Tata Sons, Ltd.—Bombay House, 24, Bruce Street, Fort.
 Textile Works, Ltd.—49-55, Apollo Street, Fort.
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 Turner Hoare & Co., Ltd.—Gateway Building, Apollo Bunder.
 Turner Morrison & Co., Ltd.—16, Bank Street, Fort.
 United Industrial Equipment Co.—21, Western India House, Sir Phirozshah Mehta Road, Fort.
 United Steel Companies (India), Ltd., The.—Himalaya House, Junction of Hornby Road and Palton Road, Bombay 1.
 Vallram Sons.—Patel Building, Bomanji Master Road, Kalbadevi.
 Vasantlal Vadilal & Co.—215-17, Samuel Street, Vadgadi.
 Vasantral Goverdhandas & Bros.—75, Mahomedali Road, Bombay 3.
 Vikram Padamey & Co.—Rustom Building, 29, Vir Nariman Street, Fort.
 Vissani, Sons & Co.—9, Wallace Street, Fort.
 Vulcan Trading Co. Private Ltd.—Indian Mercantile Chambers, Nicol Road, Ballard Estate.
 Wallace & Co.—2, Wallace Street, Fort.
 Wheeler, A. H., & Co.—Eruchshah Building, 249, Hornby Road, Fort.

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 Arvinda Trading Co., Private Ltd.—105, Apollo Street, Fort.
 Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.
 Bhiwandiwalla, H. M. D. H., & Co.—583, Chitra Bazar.
 Brady, W. H., & Co., Ltd.—Veer Nariman Street, Fort.
 Chandulal T. Shah, Hon. Presidency Magistrate and J.P.—Jehangir Bldg., 133, Mahatma Gandhi Rd., Bombay 1.
 Chinubhai Kalidass & Bros.—20, Hamam Street, Fort.
 Fakirchand Keshrichand Shroff.—Advani Chambers, Sir Phirozshah Mehta Road.
 Gillanders Arbuthnot & Co., Ltd.—16, Queen's Road Estate, Bombay 1.
 Govindjee Madhowjee & Co., Ltd.—Sir Vithaldas Chambers, 16, Apollo Street, Fort.
 Hardeastle, Waud & Co., Ltd.—Allice Buildings, Hornby Road, Fort.
 Keshikar Brothers Ltd. (Estd. 1910).—Gautam Nivas, Charni Road.
 Koooverjee V. Curumsey & Co.—Lentin Chambers, Dalal Street, Fort.
 Kulkarni & Company.—Navsari Building, 2nd floor, Hornby Road, Fort, Bombay.

Lee & Muirhead (India) Ltd.—12, Rampart Row, Fort.
 Mohan Sons & Co.—125, Mahatma Gandhi Road, Fort, Bombay 1.
 Motishaw, E. K.—Bhanisail Motilal Mansion, Hamam Street, Fort.
 Nanji V. Dossa & Co.—Jan Mansion, Sir Phirozshah Mehta Road, Fort.
 Parashotamdas Ishwardas & Co.—Co-operative Insurance Building, Sir Phirozshah Mehta Road, Fort.
 Raghavji Kanji & Co.—Alii Chambers, Tamarind Lane, Fort.
 Sarabhai & Sons.—Prospect Chambers, 321, Hornby Road, Fort.
 Sorabji Kharas & Co.—Fort Chambers, 65, Tamarind Lane, Fort.
 Vasanji Khatau & Co.—Dena Bank Building, 17, Elphinstone Circle, Fort.
 Volkart Bros.—19, Graham Road, Ballard Estate.

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 Bharat Electric Supply Traders.—542, Sandhurst Bridge, Chowpatty, Bombay 7.
 Cambata Industries Private Ltd.—Cambata Building, 42, Queen's Road, Bombay 1.
 Cooper Engineering Ltd.—Construction House, Ballard Estate, Bombay.
 Dharvi Trading Co.—64, Old Custom House Road, Fort.
 Dretwet Chowna & Co.—Lentin Chambers, Medows Street, Fort, Bombay.
 Hindustan Engineering Co., (Machinery Dept.)—25, Ropewalk Street, Fort, Bombay.
 Lachmandas Ramchand.—98, Nagdevi Cross Lane, Bombay 3.
NEW INDIA CORPORATION.—Warden House, Sir Phirozshah Mehta Road, Bombay 1. Grams: "NUINDCORP", Phone: 254440. "PLATZ" Sprayers, Dusting machines, Spray hose, Sprinklers etc., etc.
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WILLIAM JACKS & CO., LTD.—Hamilton House, Graham Road, Ballard Estate, Bombay. Distributors for Sprayers & Dusters.

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 Das & Company.—Das Chambers, Dalal Street, Fort.
 Duncan Stratton & Co., Ltd.—5, Bank Street, Bombay 1.
 Eastern Machinery and Trading Co.—Imperial Chambers, Wilson Road, Ballard Estate, Bombay.
ESSENTIAL ENGINEERING CO.—11, Botawalla Building, Elphinstone Circle, Fort. Grams: "ESSENCE". Phone: 252940. Importers, Exporters, Commission Agents and Manufacturers' Representatives.
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 Jacks, William & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Fort.
 Kamani Engineering Corporation Ltd.—Kamani Chambers, Nicol Road, Fort.
 Larsen & Toubro Ltd.—I.C.I. House, Dougall Road, Bombay 1.
 Marshall Sons & Co. (India) Ltd.—Marshall Building, Ballard Estate, Fort.
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 P. Ratilal & Co.—43, Dhanji Street, Bombay 3.
 Somani & Co. Ltd.—Mehta Building, Medows Street, Fort, Bombay.
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- Brady, W. H., & Co. Ltd.—12, Vir Nariman Street, Fort.
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- Dodsal Limited.—Industry House, J. Tata Road, Churchgate Reclamation, Bombay 1.
- GRAYEE & CO.—Jannabhoemi Chambers, Fort Street, Fort, Bombay. Grams: "IMPENG." Phone: 26-3449.
- Great Western Engineering Works.—"Sea View", 1st Pasta Lane, Colaba, Bombay 5.
- Larsen & Toubro Ltd.—I.C.I. House, Dougall Road, Bombay 1.
- Marshall Sons & Co. (India) Ltd.—Marshall Building, Ballard Estate, Fort.
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- AIR-CONDITIONING CORPORATION PRIVATE LTD.—Construction House, Ballard Estate, Bombay 1. Phones: 262844 and 262845. Grams: "AIRCONDIT."
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- Asca Electric India (Private) Limited.—Yaffi Building, Goa Street, P.B. No. 941, Bombay 1.
- ATLAS ENGINEERING CORPORATION.—Kitab Mahal, 192, Dr. Dadabhai Naoroji Road, Bombay 1. Phone: 268234. Grams: "ICYCOOL." Authorised dealers for CHRYSLER-AIR TEMP. Equipment & parts.
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- Blue Star Engineering Co. (Bombay) Ltd.—Kasturji Bldgs., Jamshedji Tata Road, Bombay 1.
- BOMBAY AMMONIA & REFRIGERATION CO., (PRIVATE) LTD.—298, Bazargate Street, Bombay 1. Phone: 252115. Grams: "AMMONIA." Branches: Delhi & Calcutta. Sole Distributors for: FRICK CO., U.S.A.
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- Bombay Co. (Private) Limited.—9, Wallace Street, Bombay 1.
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- Brady, W. H., & Co. Ltd.—12, Vir Nariman Street, Fort.
- BRIGHT BROS. PRIVATE LTD.—156-A, Tardeo Road, Bombay 7. Grams: "BRIBOS". Phones: 77454 & 77455. Manufacturers of Air-Conditioner Fronts Grilles, Refrigeration Components, etc. in plastics.
- Calcutta Bombay Trading Corporation.—Royal Opera House Building, Bombay 4.
- CHRONILAL MOHANLAL & CO.—Shop No. 54, Kika Street, (Gulabwadi), Bombay 4. Stockists of Seamless Copper Tubing for Air-Conditioning. Phone: 72064. Grams: "RODS."
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- C. SETHIA & CO.—89, Forbes Street, Bombay 1. Phone: 251695. Grams: "SUKHAGAR."

- Duncan Stratton & Co. Ltd.—5, Bank Street, Fort.
- Economy Refn. & Engineering Co.—P. B. No. 449, Kirti Building, Forbes Street, Bombay 1. Phone: 253342. Grams: "IOM-MACHINE". Agents in India for VILTER Refrigeration & Air-Conditioning Machinery.
- Electronics Limited.—71, Queen's Road, Bombay 2.
- English Electric Co. Ltd.—Vulcan Insurance Building, Churchgate Reclamation, Bombay 1.
- Fleming John & Co., Private Ltd.—P. B. No. 76, Bombay 1. Phone: 261153.
- Freemall.—Tribhuvan Road, Bombay 4.
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- Garlick & Company (Private) Limited.—Haines Road, Jacob Circle, Bombay 11.
- General Electric Co. of India (Private) Ltd.—Magnet House, Dougall Road, Ballard Estate, Bombay 1.
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- Phillips (India) Private Ltd.—221, D. Naoroji Road, Bombay 1.
- Photophone Equipments (Private) Ltd.—9, Marine Lines, Bombay 1.
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- Protos Engineering Co. Ltd.—173, Jamshedji Tata Road, Churchgate, Bombay.
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DECCAN ALUMINIUM STORES.—86, 1st Bhoiwada, Bombay 2. Phone: 30942. Grams: "DECCALUMIN." Exporters and manufacturers of Non-Ferrous Export items and Industrial Equipments.

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Indian Aluminium Ltd.—Lotus House, Marine Lines, Bombay 2.
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Bhedwar & Bhedwar.—Cook's Building, Hornby Road, Fort.

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CHINYOY, BUCHLA & DIVECHA.—Chartered Architects, etc., 11, Bruce Street, Fort, Bombay.

Dalal & Mehta.—41, Medows Street, Fort.

Darukhanawalla, J. M., B.Sc. (Edin.)—Prospect Chambers, 317-21, Hornby Road, Fort.

Desai and Kirtikar.—Laxmi Bldg., Sir Phirozshah Mehta Road, Fort, Bombay. Tel. No. 30188.

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Dhunjilshaw Bhedwar & Co.—Behramji Mansion, Sir Phirozshah Mehta Road, Fort.

Ditchburn & Mistri & Bhedwar.—49-51, Jehangir Wadia Building, Mahatma Gandhi Road, Fort.

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Gregon, Batley & King.—Chartered Bank Building, Mahatma Gandhi Road, Fort.

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Merchant, V. H. & Co.—54, 3rd Bholwada, Bhuleshwar, Bombay 2.

Murwanjee Bana & Co.—Cama House, No. 24, Dalal Street, Fort.

Metcalf & Hodgkinson.—Mackinnon Mackenzie's Building, Ballard Road.

MEHRE, PATIL & CO., B.—Bombay Mutual Building,
Corner of Dr. Dadabhai Naoroji Road and Sir Phirozshah
Mehta Road, Fort. Phone: 263570.

Modi & Co., V. M.—Jan Mansion, Sir Phirozshah Mehta Road, Fort,
Bombay.

Motilal & Co.—2-4, Apollo Street, Fort.

Mulvaney & Co., John L.—Bombay Mutual Building, Hornby Road,
Fort.

Nemchand C. Kuvadia, B.E., A.M.I.E.—People's Building, Top
Floor, Sir Phirozshah Mehta Road, Fort, Bombay.

Nadkarni & Co.—Ash Lane, Fort, Bombay 1. Architects, Engineers
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Pandit Bros.—Shivaji Motilal Mansion, Hamam Street, Fort.

Paralkar & Dallas.—Chartered Architects, Medows House, Medows
Street, Fort.

Pastakia & Billimoria.—42, Lakshmi Building, Sir Phirozshah Mehta
Road, Fort.

Patki & Dadarkar.—Chartered Architects, 19, Sir Phirozshah Mehta
Road, Fort.

POONAGER, BILLIMORIA & CO.—Architects, Civil Engineers,
Surveyors, Appraisers and Adjusters for Insurance Com-
panies, Rating Surveyors & Valuers. Cama Building, 24-26,
Dalal Street, Fort, Bombay. Phone: 253625 (Office) and
(Res.), 76562 (Shri Poonager) and 70896 (Shri Billimoria).

Rustom H. Pastakia, F.R.I.B.A.—42, Lakshmi Building, Sir Phirozshah
Mehta Road, Fort.

Sane & Paymaster.—Prospect Chambers Annexe, Hornby Road,
Fort. Phone: 31967.

Shapoorjee N. Chandabhai & Co.—Advani Chambers, Sir Phiroz-
shah Mehta Road, Fort.

Simon & Co.—Commissariat Building, 231, Hornby Road, Fort.

Sykes, Patkar & Divecha.—24-26, Dalal Street, Fort.

Taraporvala & Co.—7-10, Elphinstone Circle, Fort.

Thacker & Co., C. R.—Advani Chambers, Sir Phirozshah Mehta
Road, Fort.

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Bombay Armoury.—329-31, Abdul Rehman Street, Bombay 3.

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Naoroji Road, Bombay 1. Phone: 261679. Grams:
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Imperial Chemical Industries (India), Private Ltd.—Ballard
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INDIA ARMS (PRIVATE) LIMITED.—361, Abdul Rehman
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Rehman Street, Bombay 3. Phone: 22696. Grams:
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Building, Dr. Dadabhai Naoroji Road, Post Box No. 37,
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Tahir Arms Stores.—333, Abdul Rehman Street, Bombay 3.

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Naoroji Road, Bombay 1. Grams: "BIGARMS."

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Anil Trading Co.—32, Princess Street, Bombay 2.

Aromatic Products & Chemicals Ltd.—Prospect Chambers Annexe,
D. Naoroji Rd., Fort.

B. C. Patel & Co.—Devkaran Building, Princess Street, Bombay 2.

DAVAR, M. C., & CO.—143, Princess Street, Bombay 2. Aro-
matic Chemicals, Essential Oils and Perfumery materials.
Agents for: Kerolke Ltd., (Flora) Switzerland.

D. D. Shah & Co.—Anec Chamber Annexe, Carnac Road, Bombay 1.

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and Stockists of Essential Oils and Aromatic Chemicals.

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RADHAKISHAN RAJARAM & CO.—143, Princess Street,
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Shenoy.

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Beardsell, W. A., & Co. Private Ltd.—15-16, Sir Phirozshah Mehta
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Girdharlal, Bhavani Prasad.—Jai Hind Building No. 1, Bhuleshwar,
Bombay 2.

Hazrat & Co.—Warden House, Sir Phirozshah Mehta Road, Fort.

Hoosain, M. A., & Bros.—Lakshmi Building, Sir Phirozshah Mehta
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Ratilal Dayabhai Shah.—Tambakanta, Fydhownie.

Sewaram Girdharlal.—354, Kalbadevi Road.

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- ABDELLY, B. M., & Co.**—127, Serang Street, Bombay 3. Phone: 29990. Grams: 'ALERTDEAL'.
- AMIRUDIN SHALEBHOY TYEBJEE & SONS.**—Shale Building, 2nd Floor, Bank Street, Fort, Bombay 1. Phone: 282932. Grams: 'PILOTAGE'.
- Asbestos Magnesia & Friction Materials Ltd.**—Bombay-Agra Road, Bombay 39.
- Babulal & Bros.**—26, Nagdevi Cross Lane, Bombay 3. Phone: 30930. Grams: 'FIREFLY'.
- Balmer Lawrie & Co., Ltd.**—5, Graham Road, Ballard Estate, Fort. Bharat Engineering Stores.—113, Nagdevi Street, Bombay 3.
- Brady, W. H. & Co., Ltd.**—Veer Nariman Street, Bombay 1.
- CHAUTMAL VISHWANATH.**—305, Commerce House, Meadows Street, Fort, Bombay. Grams: 'CHARMINAR.' Chief Selling Agents for Hyderabad Asbestos Cement Products Ltd., for Bombay and Old Madhya Pradesh.
- CHUNILAL KHANNA & CO.**—Saraswati Niwas, Thakardwar Road, Bombay 2. Phone: 23813. Grams: 'BABALALU'.
- DATSON RAVIRAJ & CO. (PRIVATE) LTD.**—43, Tamarind Lane, Fort. Phone: 254433. Grams: 'DATNARE'.
- Fakhruddin & Co.**—43, Abdul Rehman Street. Phone: 33034. Grams: 'Exmotol'. Asbestos Products for Electrical insulations; Arc and heat resisting sheets.
- Hardcastle, Waud & Co., Ltd.**—Alice Buildings, Hornby Road, Fort. Harikishanlal Somnath & Co.—5, Dhobi Street, Masjid Bunder Road, Bombay 3.
- HIRALAL GOKALDAS DALAL & CO.**—45, Nagdevi Cross Lane, Bombay 3. Phone: 20594. Grams: 'HIRAGOCUL.' Importers of Asbestos Products, Engineering Hardware.
- Jacks, William & Co., Ltd.**—Hamilton House, Graham Road, Ballard Estate, Fort.
- Jaswantlal Maneeklal & Co.**—40, Churchgate Street, Fort.
- KARACHI ENGINEERING CO.**—People's Building, Sir P. M. Road, Fort, Bombay 1. Phone: 26-2801. Grams: 'ACCIDENT'. Stockists for 'Everest' Bigsix & Trafford Sheets, Building Boards & Accessories, Pipes, Gutter & Fittings. Contractors for Supply & Fixing A. C. Materials, Supply & Fabricating Steel for Industrial Sheds and General Contractors.
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- MODY BROTHERS & CO.**—25, Nagdevi Cross Lane, Bombay 3. Phone: 30958. Grams: 'MODIBROSCO'.
- NAGDEVI TOOL-STEEL MART.**—186-88, Nagdevi Street, Bombay 3. Phone: 23058. Grams: 'TENDERERS'.
- NEW HIND ENGINEERING CO.**—63, Nagdevi Cross Lane, Bombay 3. Phone: 39123. Grams: 'HINDENCO'. Largest Stockists of Asbestos Packings and Jointings, Sheets, Cloth, Metallic and Non-Metallic.
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- P. Ratilal & Co.**—43, Moti Mahal, Dhanji Street, Bombay 3. Phone: 32700.
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- SHALIMAR TAR PRODUCTS (1935) LTD.**—16, Bank Street, Fort, Bombay 1. Phone: 252185. Grams: 'TARSTIL'. Acid-Alkali resisting Asphalt Flooring, White Ant Proof Asphaltic Fibres in Floor Joists, Asphalt Caulking in Timber Floors. Contracts executed under guarantee.

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- Ambubhai & Diwanji.**—Lentini Chambers, Corner of Dalal Street and Meadows Street, Fort.
- Amin, B. & Co.**—42-48, All Chambers, Dean Lane, Fort.
- Amin, Desai & Nanavati.**—Humnum House, Humnum Street, Fort.
- Ardesbir, Hormasji, Dinshaw & Co.**—113, Mahatma Gandhi Road, Fort.

- Benjamin, Chhatrapati & Co.**—Seksaria Chambers, 139, Meadows Street, Fort.
- Bhalshankar, Kanga & Girdaral.**—Albert Building, Hornby Road, Fort.
- Cama & Jayakar.**—Yusuf Building, Mahatma Gandhi Road, Fort.
- Chitre & Co.**—Examiner Press Building, 35, Dalal Street, Fort.
- Choksey & Co.**—All Chambers, Meadows Street, Fort.
- Crawford, Bayley & Co.**—Imperial Bank Building, Bank Street, Fort.
- Dabholkar & Jestaram.**—Junction of Meadows Street & Tamarind Lane.
- Dady Burjor & Co.**—Rustom Building, 29, Churchgate Street, Fort.
- Dalal, N. C., & Co.**—111, Mahatma Gandhi Road, Fort.
- Dallas & Co.**—Junction of Meadows Street and Military Square Lane, Fort.
- Daphtary, Ferreira & Divan.**—12-19, Meadows Street, Fort.
- Dastur & Co.**—Jamal Building, Hornby Road, Fort.
- Dayalji & Dipchand.**—Fort Chambers, Dean Lane, Fort.
- Desai & Co.**—70, Meadows Street, Fort.
- Dewan Raj Kumar.**—78, Podar Chambers, Parnes Bazar Street, Fort.
- Dikshit, Maneeklal & Co.**—23, Meadows Street, Fort.
- Eastley Lam & Co.**—Jehangir Building, Mahatma Gandhi Road, Fort.
- Gagrat & Co.**—All Chambers, Meadows Street, Fort.
- Ghandy & Co.**—Prince Building, 76, Meadows Street, Fort.
- Ghulamali Noorani & Co.**—Tamarind House, Tamarind Lane, Fort.
- Golwala & Co.**—Oriental Bank Building, 65, Mahatma Gandhi Road, Fort.
- Haridas & Co.**—35, Dalal Street, Fort.
- Harilal Thakar & Co.**—Cama Chambers, Meadows Street, Fort.
- Hasan Baxi & Co.**—Lalgar Chambers, Tamarind Lane, Fort.
- Hiralal M. Mehta & Co.**—Cama Chambers, Meadows Street, Fort.
- Jamshetjee Rustomji & Devidas.**—Lalgar Chambers, Junction of Dean Lane and Tamarind Lane, Fort.
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- Jehangir & Seervai.**—Opp. Bombay University Building, 107, Mahatma Gandhi Road, Fort.
- Jhaveri & Co.**—40-44, Hamam Street, Fort.
- Joishi & Co.**—34-38, All Chambers, Meadows Street, Fort.
- Kamdar & Co.**—Meadows House, Meadows Street, Fort.
- Kanga & Co.**—Readymoney Manalon, next to Mongini Ltd., Churchgate Street, Fort.
- Kharas & Co.**—Banallal Building, Bruce Street, Fort.
- Khunderao, Laud & Co.**—101, Mahatma Gandhi Road, Fort. Partners: K. S. Itale, D. J. B. Kamdin. Tel.: 20947.
- Lakhia & Co.**—6, Bell Lane, Meadows Street, Fort.
- Lala & Co.**—Jamal Building, Hornby Road, Fort.
- Little & Co.**—Central Bank Building, Mahatma Gandhi Road, Fort.
- Madhavji & Co.**—Examiner Press Building, 35, Dalal Street, Fort.
- Mahimtura & Co.**—66, Tamarind Lane, Fort.
- Mahomed Ali & Co.**—16, Military Square Lane, Fort.
- Majmudar & Dalal.**—Jamal Building, 881, Hornby Road.
- Malvi, Ranchoddas & Co.**—27-29, Mahatma Gandhi Road, Fort.
- Manilal, Kher, Ambalal & Co.**—Jehangir Wadia Building, 51, Mahatma Gandhi Road, Fort.
- Mankodi & Co.**—Fort Chambers, Tamarind Lane, Fort.
- Mansukhlal, Hiralal & Co.**—5, Military Square Lane, Fort.
- Manubhai & Co.**—Cama Building, 24-26, Dalal Street, Fort.
- Matubhai, Jamletram & Madan.**—Lentini Chambers, Dalal Street, Fort.
- Mazagonwalla & Co.**—Lentini Chambers, Dalal Street, Fort.
- Mehta, Lalji & Co.**—2-4, Oak Lane, Fort.
- Merwanji, Kola & Co.**—14, Hamam Street, Fort.
- Minocheher Hiralal & Co.**—41-45, Meadows Street, Fort.
- Mody & Co.**—381, Jamal Building, Hornby Road, Fort, Bombay 1.
- Mohile & Parekh.**—65, Mahatma Gandhi Road, Fort.
- Motichand & Devidas.**—31, Nanabhai Lane, Fort.
- Mulla & Mulla and Craigie Blunt & Caroe.**—Jehangir Wadia Building, 51, Mahatma Gandhi Road, Bombay.
- Nagindas, Hooseinally & Co.**—Yusuf Building, Churchgate Street, Fort.
- Nanu Hormasjee & Co.**—Fort Chambers, Hamam Street, Fort.
- Narielvala & Framrose.**—Central Bank Building, Mahatma Gandhi Road, Fort.
- Pandia & Co.**—Hamam House, Hamam Street, Fort.
- Papa, B. E., & Co.**—41, Hamam Street, Fort.
- Pathare & Liladhar.**—38, Tamarind Lane, Fort.
- Pereira, Fazalbhoy & Co.**—Fazalbhoy Building, 45-47, Mahatma Gandhi Road, Fort.
- Raghavayya, Nagindas & Co.**—94, Meadows Street, Fort.
- Ranchoddas & Co.**—Examiner Press Building, Meadows Street, Fort.
- B. H. Dadyburjor.**—Rustom Building, 29, Churchgate Street, Fort.
- Rege, D. N., & Co.**—Yusuf Building, Mahatma Gandhi Road, Fort.
- Romer Dadachanji Sethna & Co.**—1st Floor, Raja Bahadur Motilal Banallal Mansion, 14K, Hamam Street, Fort. Solicitors and Notaries Public.
- Rustomji & Glinwalla.**—Old French Bank, Mahatma Gandhi Road, Fort.
- Sabnis, Goregaoker & Relo.**—11, Bruce Street, Fort.
- Samant & Co.**—381, Hornby Road, Fort.

Shah & Chinnubhai.—Ebrahim Building, 98, Meadows Street, Bell Lane, Fort.
 Shah & Mehta.—7, 2nd Carpenter Street, Bombay 4.
 Shah & Co.—Yusuf Building, Mahatma Gandhi Road, Fort.
 Shastri & Co.—77, Meadows Street, Fort.
 Shroff & Co.—875, Hornby Road, Fort.
 Smetham, Byrne & Lambert.—Jehangir Wadia Building, 51, Mahatma Gandhi Road, Fort.
 Solomon & Co.—Spinner Building, Tamarind Lane, Fort.
 Sukthanker & Gupta.—Yusuf Building, 85-88, Mahatma Gandhi Road, Fort.
 Surajmal & Co.—Mahendra Mansions, Mahatma Gandhi Road, Fort.
 Surveyor & Co.—Central Bank Building, Mahatma Gandhi Road, Fort.
 Taher & Co.—Solicitors, Examiner Press Building, 2nd Floor, 35, Dalal Street, Fort.
 Thakordias, Daru, Hemany & Co.—Alli Chambers, Tamarind Lane, Fort.
 Thatte & Co.—Examiner Press Building, 35, Meadows Street, Fort.
 Tyabji, Dayabhai & Co.—Lentin Chambers, Dalal Street, Fort.
 Vachha & Co.—Yusuf Building, Mahatma Gandhi Road, Fort.
 Vakil, B. H., & Co.—Karim Chambers, Hamam Street, Fort.
 Vakil, Dadabhai & Bharucha.—Cama Building, 24-26, Dalal Street, Fort.
 Vajralal & Co.—41, Meadows Street, Fort.
 Wadia, Ghandy & Co.—123, Mahatma Gandhi Road, Fort.
 Wallace, J. P., & Co.—Shale Building, 28-32, Bank Street, Fort.
 Win & Co.—Banisall Mansions, 41A, Bruce Street, Fort.
 Zaiwalla & Co.—Readymoney Mansion, 43, Churchgate Street, Fort.

AUCTIONEERS

Bennett & Co.—120, Apollo Street, Fort.
 Crawford & Co.—123, Apollo Street, Fort.
 Eastern Auction & Co.—Babulal Mansion, Chowpatty Sea Face, Bombay 7.
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 Mistry & Co.—75, Apollo Street, Fort.
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Batlilol & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No. 255451-55. Grams: "BATLILLOICO". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore, and Vijayvada. Associates: Bangalore and Secunderabad.

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Autocars Ltd.—43, New Queen's Road, Bombay 4.
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AUTOMOTIVE HARDWARE CORPORATION.—83, Narayan Dhura Street, Bombay 3. Phone: 27307. Grams: "NUTS-AUTO." High tensile bolts, nuts, SAE & BSF self-tapping screws, hardware & tools.
 Automotive Mfgs. Ltd.—108, Bazar Ward, Kurla, Bombay 37.
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MOTOR REPOWERING SERVICE.—Opera House T.T., Bombay 4. Phone: 27241. Workshops at: Mathew Road and Benham Hall Lane. Specialists in Crankshaft Grinding, Cylinder Sleeve Fitting, Boring, Remounting, Mainline Boring, Cylinder Head Grinding, Valve Seat Inserting, etc., for Automobiles, Diesel Engines, Tractors, Marine and Stationary Engines. Manufacturers of Cylinder Sleeves, Valves, Valve Guides, Pistons and Piston-rings, etc.

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Sam Ruston & Company.—31-33, Mangalore Street, Ballard Estate.
 Sir Kasturchand Private Ltd.—Kodak House, Hornby Road, Fort, Bombay.

Shanghi Motors (Bombay) Ltd.—9 Mathews Road, Bombay 4.

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ZENITH AUTOMOBILE & ELECTRICAL WORKS.—16/18, Shephard Road, Byculla, Bombay 8. Phone: 252245. Automobile & Electrical Engineers, Repairing and Overhauling, Trimming, Body work, etc. All kinds of Electrical work undertaken. Specialists in Multi-colour spray painting for all industries.

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ELLENA (INDIA) AGENCIES.—363-D, Vithalbhai Patel Road, Bombay 4. Importers and Exporters of Car parts, Austin A-40, Fiat 1100/103, Hillman Minx, Morris Minor, Baby Hindustan, Land Master & Hindustan 14; Heavy Diesel Trucks parts, Foden A.E.C., Leyland Retriever, Leyland Hippo Mk. 11, Albion Diesel, Mack Diesel.

AMERICAN AUTOMOBILE CO.—Purshottam Bldg., Opera House, Bombay 4. Phone: 30106. Grams: "AUTORIGHT."

AMERICAN AUTO PARTS CO.—Next to Dena Bank, Opera House, Bombay 4. Phone: 41323. Grams: "AUTOGOODS". For imported Accessories English one piece Sun Visors, Auxiliary Lamps, Mirrors, Exhaust Extensions, Luggage Carriers and other useful "Extras."

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Auto Agency.—Congress House, Vithalbhai Patel Road, Bombay 4.
 Auto Equipment Ltd.—68-C, Banisall Motilal Building, Opera House Tram Terminus, Bombay 4.

AUTOMOBILE & AGRICULTURAL INDUSTRIES CORPORATION.—497/3, Banji Nivas, Sardar V. Patel Road, Bombay 4. Phone: 70767. Manufacturers of "Double Life". Automobile and Agricultural Parts. Factory at Ghodbunder Road, Serivil, Bombay 48.

AUTOMOBILE CORPORATION (INDIA).—431, Lamington Road, Bombay 4. Grams: "RITESET."

AUTOMOBILE INDUSTRIAL CORPORATION.—Modi Chambers, French Bridge, Bombay 4. Grams: "EXOLIL."

AUTO SALES COMPANY.—Purshottam Bldg., Opera House, Bombay 4. Phone: 27735. Grams: "AUTOSALES."

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Bombay 4.

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Accessories.

Central India Trading Company.—Ramchandra Mansion, Bhatwadi
Street, Sandhurst Road, Bombay 4.

CHAMPION AUTO PARTS CO.—Avantikaibai Gokale Road,
Bombay 4. Phone: 27324. Grams: "CHAMPAUTO."

Chandulal Mehta & Co. Private Ltd.—New Queen's Road, Bombay
4. Phone: 22191. Grams: "KOMOLIS".

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Terminus, Bombay 4. Phone: 30675. Grams: "CHEAP-
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Chimanlal Desai & Co.—Gool Mansion, Homji Street, Fort.

CITY MOTOR COMPANY, THE.—Medi Chambers, French
Bridge, Bombay 4. Grams: "KADAMCHALO." Importers
& Wholesale Dealers in Motor Spare parts & accessories.

Commercial Auto Store.—Mani Bhuvan, French Bridge, Bombay 7.
Continental Automobiles Ltd.—Luxmi Bhuvan, 466, Sandhurst
Road, Bombay 4. Phone: 72666. Grams: "CONAUTO."

CONTINENTAL MOTORS.—20-A, Kennedy Bridge, Bombay 4.
Grams: "ENGPARTS." Specialists in English Car parts.

Conwest Ltd.—Opera House, Bombay 4.

Dadajee Dhackjee & Co. Private Ltd. (Motor Dept.)—Shree Pant
Bhuvan, Sandhurst Bridge, Bombay.

D. Walker & Sons.—Prospect House, New Bhatwadi, Sandhurst
Road, Bombay 4.

Eastern Motor Corporation.—Indra Nivas, Bhatwadi Road,
Bombay 4.

EVERGREEN TRADERS, THE.—2-B, Bibijan Street, Bombay 3.
Grams: "GREENTRADE." Phone: 27856. Importers of
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Hind Equipment Corporation Private Ltd.—24/B, Hamam Street,
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H. S. Chaddha & Sons.—483, Sandhurst Road, Bombay 4.

Himco (India) Private Ltd.—Kurla Road, Andheri, Bombay 41.

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INDO FOREIGN COMMERCIAL AGENCY.—360, Vithalbhai
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Katara Motor Co.—13-14, Modi Chambers, French Bridge, Bombay 4.
Kandawalla & Co.—18, Hughes Road, Bombay 7.

KISMET AUTO STORES.—Luxmi Bldg., 35-37, Girgaum Road,
Kennedy Bridge, Bombay 4.

Kothari Brothers & Co.—Prospect House, Sandhurst Road, New
Bhatwadi, Bombay 4.

MENTA AUTOMOBILES.—Sakhsagar, Sandhurst Bridge,
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MENTA MOTOR STORES.—497, Sardar Vallabhbhai Patel
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Specialists in Trailer Springs.

MOTOR INDUSTRIES CO., LTD.—Manufacturers of Mico-
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Stockists of Bosch Automobile Parts and Accessories, 41,
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16.

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Boring, Cylinder Head Grinding, Valve Seat Inserting, etc.,
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Stationary Engines. Manufacturers of Cylinder Sleeves,
Valves, Valve Guides, Pistons and Piston-rings, etc.

National Automobile Co., Ltd.—Opera House Tram Terminus,
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Nanjee Building, 17-B, Horniman Circle, Bombay 1. Phone:
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New Pioneer Trading Co.—450, Sandhurst Road, Bombay 4. Phone:
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Nisbat Trading Co.—461, Sandhurst Road, Bombay 4.

Oiler, F. & Co., Ltd.—New Queen's Road, Bombay 4.

Paramount Automobiles Ltd.—14, New Bhatwadi Lane, Sandhurst
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PARAMOUNT COMMERCIAL CORPN. PRIVATE LTD.—
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Manufacturers of "Paramount" Automobile Luggage
Carriers.

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Road, Fort.

Paulson Trading Co.—Purshottam Bldg., Tribhuvan Road, Bombay
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SABHARWAL BROTHERS.—484, Sandhurst Road, Bombay 4. Grams: "JEEPING." Head Office: 992, Hamilton Road, Delhi 6. Branch: 21, Princes Street, Calcutta 13. Specialists in Jeep Parts. Stockist for car parts & accessories.

Sethi Trading Co.—New Bhatwadi, Sandhurst Road, Bombay 4. Shah & Sunder.—7/10, Horniman Circle, Botawala Building, Bombay 1.

SHARMA MOTOR CO.—Royal Building, 418, Larnington Road, Bombay 4. C/o Phone: 10869.

SHETTY AUTOMOBILES.—Opera House Tram Terminus, Bombay 4. Direct Importers and Stockists of Motor Parts, Accessories, etc. Phone: 27412. Grams: "BIPSHETTY."

SINGH & SINGH.—Victoria Mills Estate, Gamdevi, Bombay 7. Phone: 78852. Grams: "BAKINGCO." Manufacturers of Cylinders, Liners for Cars and Diesel Engines. Branch at Shivaji Nagar, Poona. Phone: 7597.

Skf Ball Bearing Co. Private Ltd.—Mustafa Building, 19, Sir Phirozshah Mehta Road, Fort, P.O. Box No. 71, Bombay.

S. S. Prabhu.—Ghamat Terrace, opp. Dadar W. Rly. Station, Bombay 14.

SUPREME AUTOMOBILES.—Modi Chambers, French Bridge, Bombay 4. Grams: "LOCKHEED."

Tata Locomotive & Engineering Co. Ltd.—Bombay House, 24, Bruce Street, Fort, Bombay.

TECALEMIT (INDIA) LTD.—Managing Agents: Hearty & Gresham Ltd., 9, Forbes Street, Fort, Bombay. Phones: 255758/255757. Grams: "TECALEMIT." Grease Nipples and Guns, Filters, Elements, Metal Flexibles, etc.

UNION TRADING CO.—385, Vithalbhai Patel Road, Bombay 4. Phone: 71671. Grams: "SUCCESSFUL." Manufacturers and Exporters of Auto-spring leaves, U-Bolt and Attachment Parts.

United Industries of India.—82, Opera House Tram Terminus, Bombay 4.

UNITED OVERSEAS SERVICE PRIVATE LIMITED.—Modi Chambers, Sandhurst Bridge, Bombay 4. Grams: "ASSOCIATES." Phone: 70913. Distributors of "Mico-Licence-Bosch" Spark Plugs, Perkins Parts, Borg & Beck Clutch Parts, Kralinater Oil Filters, etc. Also Parts for popular cars and trucks.

Universal Automobiles.—461, Sandhurst Road, Bombay 4.

Universal Service Corporation Ltd.—457-9, Sandhurst Road, Bombay 4.

UNIQUE AUTO STORES.—Mani Bhawan, French Bridge, Bombay 7. Grams: "AUTOUNIQ."

AUTOMOBILE SPRING LEAVES, 'U' BOLTS & CENTRE BOLTS MFRS.

DELTA PRODUCTS CORPORATION (INDIA).—3, Modi Chambers, French Bridge, Bombay 4. Phone: 71083. Grams: "MOTORCYCLE." Manufacturers of Laminated Road Springs for all Vehicles, Trucks, Tractors and Trailers. Suppliers to Government and States.

NEW PIONEER TRADING CO.—459, Sandhurst Road, Bombay 4. Phone: 76289. Grams: "AUTOMOBILE." Manufacturers of Quality Springs, Leaves and their attachment Parts for all trucks and Cars. Also leading manufacturers of "OILSEALS," Dynamo Pulleys, Lights and other parts and Accessories.

UNITED SPRING MANUFACTURING CO.—82, Opera House Tram Terminus, Bombay 4. Phone (Office): 20308. Grams: "MECSARES." Factory at: 234, Ripon Road, Bombay 6. Phone: 74358.

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A. G. BATLIWALA & CO.—97, Merland Road, P.O. Box 4567, Bombay 8. Dealers in and Exporters of Empty Bottles & Bakelite Caps.

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C. I. Doshi & Co.—Bombay Mutual Building, Hornby Road, Fort.

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Hardcastle, Waud & Co., Ltd.—Alice Buildings, Hornby Road, Fort.
Rubako Industries.—Behramji Mansion, Sir Phirozshah Mehta Road, Fort.

VIJAY BAKELITE TRADING CO.—70/72, Chakia Street, Bombay 3. Grams: "BESTCAP." Manufacturers and distributors of all kinds of Bakelite Caps, and Stoppers of Alkathane, Plastic and Rubber.

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Britannia Biscuit Co., Ltd.—Reay Road Bridge, East.
Clare Road Bakery.—"Win-Villa," 9, Clare Road, Byculla.
Hiscocks, E. & Co.—"Win-Villa," 9, Clare Road, Byculla.

HUNS DEWAN & CO.—P.B. No. 4518, 158, Upper Duncan Road, Byculla, Bombay 8. Phone No. 74139. Grams: "BISCUITS." High Class Biscuits Manufacturers.

J. B. MANGHARAM & CO.—Manufacturers of High Class Biscuits and Confectionery, 12, Gunbow Street, Fort, Bombay. Phone: 282338 & 264699. Grams: "ENERGYFOOD." Head Office: Gwalior (M.B.) Phone: 574. Branches: Fatehpur, Delhi 6. 35/37, Thambu Chetty Street, Madras 1 and Tank Bund, Hyderabad (A.P.)

Kyani & Co.—Jer Mahal Estate, Dhoobi Talao.

Mahajan Bros.—Anand Nivas, Girgaum Road.

Marosa & Co.—13, Meadows Street, Fort.

Fahelavi Bakery.—101, Umerkhandy.

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Pearse & Co.—Opp. Imperial Bank, Apollo Street, Fort.

Raj, H. & Company.—98, Princess Street, Bombay 2.

Renown Biscuit Co.—Contractor Building, Connaught Road, Byculla.

Shaikh & Co.—94, Ali Umar Street.

Standard Bakery.—62, Nizam Street, Bhendi Bazar, Bombay 3.

Star Bakery.—180, Naigum Cross Road, Dadar.

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ROYAL TRADERS.—283, Nagdevi Street, Bombay 3. Phone: C/o 23671. Dealers in Bakery goods & Cardboard Trays & Fancy Paper Decorations & Provisions.

BALL AND ROLLER BEARINGS

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ANIL BEARING STORES.—143, Narayan Dhura Street, Bombay 3. Tel. Address: "CHEAPSTORE." Authorised Stockist: SKF and NBC Bearings, Ball Bearings, Taper Roller Bearings, Steel Balls.

ASSOCIATED BEARING CORPORATION.—143, Narayan Dhura Street, Bombay 3. Grams: "VIA MEDIA." Direct Importers & Stockists of N.B.C., SKF & F.A.G. Ball & Roller and Taper Roller Bearings.

Associated Export-Import Corporation.—861, Dr. N. D. Road, Bombay 1.

BALL BEARINGS & MACHINERY CORPORATION.—172-74, Nagdevi Street, Bombay 3. Phone: 23377. Grams: "BUTYAR." Sole Agents: "SEAL MASTER & FEDERAL" Bearings and authorised distributors: R. & M and SKF Ball-bearings.

Batilbhai & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No. 255451-55. Grams: "BATLIBOICO." Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore and Vijayvada. Associates: Bangalore and Secunderabad.

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SHARAT TRADING CO.—71, Nagdevi Cross Lane, Bombay 3. Grams: "FANBEARING." Phone: 29250.

BOMBAY BALL BEARING SUPPLYING CO., 361, Samuel Street, Bombay 3. Phone: 20051. Grams: "GOLABADAM."

BOMBAY BEARING CO.—95, Abdul Rehman Street, Bombay 3. Stockists of STEYR, RIV & Russian Ball & Roller Bearings of Industrial & Automobile Lines.

DEIRAJLAL & CO.—15, New Queen's Road, Bombay 4. Phone No. 27012, Res.: 63703. Grams: "RICEMILL." Importers and Distributors of Ball and Roller bearings, Stockholders of F.A.G. and SKF bearings and Distributors of TIMKEN & AETNA, U.S.A. Bearings.

C. PAREKH & COMPANY.—103, Shajipala Lane, Bombay 3. Phone: 22666 (Office), 89097 (Residence). Grams "CI-PAKO." Importers and Stockists of Automobile Bearings, Hardware Tools and Accessories.

DEIRAJLAL MORARJI.—37-A, Sarang Street (Khoka Bazar), Bombay 3. Phone: 29231. Grams: "SELFMADE." Direct Importers & Stockists of 'SKF', 'FAG', 'R & M' STEYR, RIV, and Russian Ball Taper and Roller Bearings.

Diwan Bros.—51, Nagdevi Street, Bombay 3.

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INDO-AUTO TRADERS.—524, Sandhurst Road, Bombay 4. Phone: 76145. Grams: "TAKEIT EASY." Ball, Roller & Tapered roller bearings for all types of Vehicles & Machines. Authorised Stockists of SKF, REM, TIMKEN. Stockists of USSR, Japan, Germany Bearings.

JAWARMAL GULABCHAND.—12, Rampart Row, Fort, Bombay 1. Phone: 253167. P.O. Box No. 1683. Grams: "MANAS-GANGA." Ball bearing and Machinery Merchants and Mfrs. of J. G. Baby Oil Expellers.

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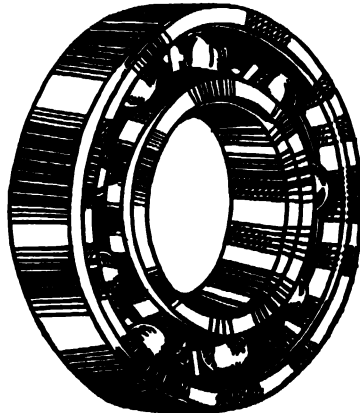
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★ TAPER ROLLER

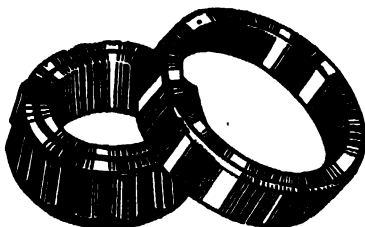
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KAMLASHANKAR P. JOSHI & CO.—98, Nagdevi Cross Lane, Bombay 3. Phone: 22437. Grams: "KEPIJOSHI." Branch: Opp. Shivaji Statue, Shivajinagar, Poona 5. Manufacturers of ball, roller, tapered roller bearings, steel balls and needle rollers.

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MACHINE TOOLS & IMPLEMENTS.—93-95, Narayan Dhuru Street, Bombay 3. Phone: Office: 22668, Residence: 24-2425. Grams: "MACHETOOLS."

MASRAMI MILL GIN STORES.—46, Nagdevi Cross Lane, Bombay 3. Phone: 20646. Grams: "BEARINGS." Direct Importers and stockists of Ball, Roller, Thrust and Pedestal Bearings.

Mehta, J. V., & Co.—Opera House Tram Terminus, Bombay 4.

Motor Trade Supply Co.—Parikh Mansion, Sandhurst Road, Bombay 4.

N.K.S. BEARING WORKS.—17, Nagdevi Street, Bombay 3. Phone: C/o 39417. Grams: "ASSEMBLED." Dealers in all Kinds of Ball, Rollers & Taper Bearings & Accessories.

NATIONAL ENGINEERING INDUSTRIES, LTD.—28, Calcutt Street, Fort, Bombay 1. Head Office and Works: Jaipur (Rajasthan). Calcutta Office: Indian Exchange Building, Royal Exchange Place Extension. Manufacturers of Ball and Roller Bearings, Railway Axle Boxes and Steel Balls in India under Licence from Messrs. Hoffmann Manufacturing Co., Ltd., U.K. and Sole Distributors in India for Hoffmann Ball and Roller Bearings.

NEW HAVEN STEEL BALL CORPORATION PRIVATE LTD.—Nanjee Building, 17-B, Horniman Circle, Bombay 1. Phone: 255346. Grams: "GULDASTA." Manufacturers of automobile parts, bicycle parts, sockets, head cap screws, bolts, nuts, steel balls, etc.

New Hind Engineering Co.—63, Nagdevi Cross Lane, Bombay 2.

P. RATILAL & CO.—43, Dhanji Street, Meti Mahal, Bombay 3. Phone: 32700. Grams: "ETERNAL."

PIONEER TRADERS & BALL BEARING CO.—154, Kadakhia Mansion, 3rd Floor, Narayan Dhuru Street, Bombay 3. Grams: "MACHINESAW." Stockists of SKF, RIV, FAG, R & M, STEYR Ball and Roller Bearings.

PURUSHOTTAM SOMABHAI & CO.—36, Sarang Street (Khoka Bazar), Bombay 3. Phone: 22252. Grams: "FORESIGHT." Importers & Specialised Stockists of World renowned makes of Ball & Roller Bearings.

RAMESH TRADING CORPORATION.—Industrial House, 51/53, Nagdevi Cross Lane, Bombay 3. Phone: 39489. Grams: "RAMESHCO." Importers & Stockists of Ball bearings & Roller bearings. Suppliers of mill gin stores, hardware and tools and rubber beltings.

Rasiklal Shah & Co.—93, Narayan Dhuru Street, Bombay 3.

Roberts McLean & Co., Private Ltd.—Ilaco House, Sir Phirozshah Mehta Road, P. O. Box 452, Fort.

SAMKAY INDUSTRIAL CORPORATION.—2nd Floor, Cama Bldg., Dalal Street, Bombay 1. Phone: 283448. Grams: "SAMKAY." P.O. Box No. 885. Stockists and Dealers of Steyr, SKF, RIV, FAG, USSR & FAFNER.

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Shah Engineering Stores.—88-92, Nagdevi Cross Lane, Bombay 3.

SKETH STORES TRADING CO.—236, Masjid Bunder Road, Bombay 3. Ball Bearing Merchants. Largest Stockholders of NBC Bearings.

R. Mohanlal & Co.—38, Bibijan Street, Bombay 3.

Skf Ball Bearing Co. Private Ltd.—Mustafa Building, 10, Sir Phirozshah Mehta Road, Fort, P.O. Box No. 71, Bombay.

Spence Ltd.—Gowalla Tank Road, Bombay 26.

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BALL & ROLLER BEARINGS

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Thakorlal & Co.—47, Nagdevi Cross Lane, Bombay 3.
Trade (India) Corporation.—58, Mohamedalli Road, P.O. Box No. 3231, Bombay.
Universal Services Corporation Ltd.—457/9, Sandhurst Road, Bombay 4.
Upper India Trading Co., Ltd.—Ravel Building, Lamington Road, Bombay 4.

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COOPER & SONS, DEANJIBHAI NAOROJI.—78/80, Kika Street (Gulabwadi), Bombay 4. Phone : 41455. Manufacturers of Wooden Casks, Barrels, Vats, Tubs, Flower Tubs, Oblong Tubs, Ice Cream Tubs of any size & shape. Regular suppliers to Chemical & Textile mills.

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AMZEL PRIVATE LTD.—Love Lane, Byculla, Bombay 27. Manufacturers : Zelite Storage Batteries and Plates. (Sales and Service : Nasser House, New Queen's Road, Bombay 4).
Balmer Lawrie & Co. Ltd.—5, Graham Road, Ballard Estate, Fort.
BATTERY SERVICE (PRIVATE) LTD.—Solar House, 1-1A, New Queen's Road, Bombay (India). Phone : 36466. Cable Address : "FASTSPEED." Selling Agents for Solar heavy duty Batteries for Cars, Trucks, Diesel Engines, etc.
Bombay Garage Ltd.—Meher Building, Chowpatty, Bombay 7.
Boiler Battery Mfg. Co. Private Ltd.—Shri Niwas Building, 335, Sandhurst Road, Bombay.
Chloride & Exide Batteries (Eastern) Private Ltd.—Savoy Chambers, Wallace Street, Fort. G.P.O. Box No. 382. Phone No. 262188 (2 lines). Calcutta Office : 59-C, Chowringhee Road, Calcutta 20. General Manager : H. B. Gregson. Bombay Manager : H. Bebbington. Calcutta Manager : H. V. Russell. Madras Representative : R. Knight. Delhi Representative : S. C. Basu.
Kastrela Batteries Limited.—Yusuf Building, Veer Nariman Road, Fort, Bombay 1.
Eveready Batteries.—Lakshmi Building, Sir Phirozshah Mehta Road, Bombay 1.
General Radio & Appliances Private Ltd.—Opera House, Bombay 4.
Himco (India) Private Ltd.—Head Office : Gandhi Building, 542, Sandhurst Bridge, Bombay 7. Main Works : Kuria Road, Andheri Bombay 41. Phone : 86439. Gram : "Himcoild".
Industrial Machinery & Tools Corp.—Indira Nivas, 1st Floor, Anantikabal Gokhale Street, Bombay 4.
Mehta Motor Stores.—Banji Nivas, Sandhurst Road.
National Carbon Co. (India) Ltd.—EVEREADY Batteries Mfrs.—Lakshmi Bldg., Sir P. M. Road, Bombay 1.
Osler (India), Ltd., F. & Co.—New Queen's Road, Bombay 4.
Provincial Motor Car Co., Ltd.—New Queen's Road, opp. Opera House, Bombay 4.
REGAL BATTERY CORPORATION.—Agakhan Bldg., 4th Floor, Dalal Street, Bombay 1. Phone : 254250. Manufacturers of Batteries, Battery Plates and Accessories.
RUBY BATTERY CORPORATION (PRIVATE) LTD.—Manufacturers of Storage Batteries for Motor Vehicles, Tractors, Steam Launches, Radios etc. Speciality in Heavy Duty Batteries, Exclusive Servicing, Car Rewinding, Dynamo & Starter Repairs. 31, French Road, Lila House, Chowpatty, Bombay 7. Phone : 73286. Grams : "RUBYLIGHT".
Sarabhai & Co.—Western India House, Sir Phirozshah Mehta Road, Fort.
Standard Batteries Ltd.—Vakola, Bombay 25.
Universal Services Corporation Ltd.—457/9, Sandhurst Road, Bombay 4.

BEARINGS AND SHAFTINGS

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone : 29990. Grams : "ALERTDEAL".
DEHRAJAL & CO.—31, Sindhi Lane, Nanubhai Desai Road, Bombay 4. Phone : 72592. Grams : "WILDERNESS". Importers and Stockists of M. S. Bright Drawn Shaftings Round and Hexagonals.
Essential Engineering Co.—11, Botawalla Building, Elphinstone Circle, Fort.
EXCELSIOR COMMERCIAL CORPORATION.—116, Sarang Street (Khoka Bazar), Bombay 3. Phone : 20463. Grams : "BIGSALES." Shaftings, Bearings, Beltings, High-Speed and Tool Steels.
Great Western Engineering Works.—"Sea View," 1st Pasta Lane, Colaba, Bombay 5.
Mehta Nanavati & Co.—Barbhai Moholla, 96, Narayan Dhuru Street, Bombay 3.
P. L. Bhatt & Co.—5, Bharat House, 104, Apollo Street, Fort, Bombay. Phone : 34454. Cable : "DIGNIFIED".
P. Ratilal & Co.—43, Dhanji Street, Moti Mahal, Bombay 3. Phone : 32700.

BELTING (TEXTILE) MANUFACTURERS AND SUPPLIERS

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone : 29990. Grams : "ALERTDEAL".
Allied Exporters.—Kumud House, 267, Dr. Dadabhai Naoroji Road, Fort, Bombay.
Altex Limited.—147, Esplanade Road, Fort.
Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.
Ashok Engineering Co.—24, Noble Chambers, Parsi Bazar Street, Fort.
Associated Machine & Tool Co.—130, Medows Street, Fort.
Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate.
Bharat Electric & Engineering Corporation.—28, Apollo Street, Fort.
Birkmyre Brothers.—12, Rampart Row, Fort.
BOMBAY MERCANTILE CORPORATION.—211-217, Nagdevi Street, Bombay 3. Phone : 22782. Grams : "CORPBOMBER." Distributors for Transmission Beltings and Hoses.
Bombay Mill Store Supply Co., Ltd.—Western India House, Sir Phirozshah Mehta Road, Fort.
Brady, W. H., & Co., Ltd.—Royal Insurance Building, Vir Nariman Street, Fort.
Card Clothing & Belting Ltd.—J. K. Building, Graham Road, Ballard Estate, Fort.
DIWAN BROS.—51, Nagdevi Street, Bombay 3. Phone : 20361. Grams : "ALLBELT." Beltings of all varieties, Hair—Cotton—Elevator—Conveyor—Rubber Transmission Belts, Flat & Round & Leather beltings. Anything & Everything in Beltings & Ball-bearings.
EDGAR HANDLEY & CO. PRIVATE LTD.—135, Medows Street, Fort, Bombay. Phones : 253548 & 252934. Grams : "TROIJAN".
Gannon Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.
General Trading Corporation.—36-B, Tamarind House, Tamarind Lane, Fort.
Greentoe Corporation (India).—24-26, Dalal Street, Fort, Bombay.
Hardcastle, Waud & Co., Ltd.—Alice Building, Hornby Road, Fort.
HARJIMAL KIDARNATH & CO.—(Est'd. 1811), 87, Nagdevi Cross Lane, Bombay 3. Phone : 30041 (Ext. 24). Grams : "CHAIN".
Herman & Mohatta, B. R., Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort.
Hiralal Gokaldas Dalal & Co.—45, Nagdevi Cross Lane, Bombay 3. Honest Trading Corporation.—27, Bombay Mutual Annexe, Gunbow Street, Fort.
Industrial Stores Agency.—59, Forbes Street, Fort.
J. KHUSHALDAS & CO.—77-79, Nagdevi Street, P.O. Box 3236, Bombay 3. Phone : 38812. Grams : "JEKHUSHAL".
Jashwantlal Maneklal & Co.—40, Veer Nariman Street, Fort.
Jayant Engineering & Mill Stores.—39, Nagdevi Cross Lane, Bombay 3.
Jhala, B. T., & Co.—9, Forbes Street, Fort, Bombay 1.
Kooveryl Devshi & Co.—164, Lohar Street.
Laxminarayan Mill Supply Co.—Noble Chambers, 116, Parsi Bazar Street, Fort.
Lewis & Tylor (India) Ltd.—Sorab House, 237, Dr. Dadabhai Naoroji Road, P.O. Box 949, Bombay 1.
Maneklal & Sons.—176, Narayan Dhuru Street, Barbhai Moholla, Bombay 3.
Mangaldas & Sons.—Lentini Chambers, Dalal Street, Fort, Bombay.
Mehta & Co., S.—Anec Chambers Annexe, Carnac Road, Bombay 1.

Merchants Bros.—151, Nagdevi Street.
M. Kantilal & Co.—70, Nagdevi Cross Lane, Bombay 3.
Modern Machine Tools Co.—88, Nagdevi Cross Lane.
Modern Mill Stores.—97, Nagdevi Street, Bombay 3.
MOTILAL KALIANDAS & CO.—80, Nagdevi Street, Bombay 3.
 Phone: 23502. Grams: "CYLINDER." Authorised Distributors of "DUNLOP" Beltings and their other Products. Also largest stockists of Conveyor, hair, Cotton and Rubber Transmission, Beltings and Ginning Factories Spare Parts.
NEW HIND ENGINEERING CO.—83, Nagdevi Cross Lane, Bombay 3. Phone: 39123. Grams: "HINDENCO." Largest Stockists of Textile Beltings (Hair-Leather-Rubber Canvas, etc.).
New India Hardware Mart.—152, Narayan Dhuru Street, Bombay 3.
N. MOHANLAL & CO.—124, Nagdevi Street, Bombay 3.
 Phone: 27545. Grams: "JEPBELT." Authorised Distributors of "DUNLOP" beltings, VEE-belts, Hoses & Trolley Wheels.
P. RATILAL & CO.—43, Dhanji Street, Moti Mahal, Bombay 3.
 Phone: 32700. Grams: "ETERNAL."
Parekh Trading Co.—48, Nagdevi Cross Lane, Bombay 3.
Premier Machinery Stores Co.—66, Nagdevi Street.
Ramesh Trading Corporation.—Industrial House, 51/53, Nagdevi Cross Lane, Bombay 3.
R. Mohanlal & Co.—38, Bilijan Street, Bombay 3.
Roberts McLean & Co., Private Ltd.—Ilaco House, Sir Phirozshah Mehta Road, Fort.
ROYAL HARDWARE MART.—108, Nagdevi Street, Bombay 3.
 Phone: 39821. Grams: "MANILAROPPE." Distributors for Dunlop Beltings and Hoses and "COMET" Brand Hair Beltings.
SAURASHTRA MILL STORES.—157/59, Narayan Dhuru Street, Lotus Chambers, Bombay 3. Specialists in "RUPAK," "ATLAS" Hair Beltings, Cotton Beltings, Cotton Hose, Rubber Coated Cotton Hose, Pipe, Ball-Bearings, Sleeve, Nuts, etc.
Shah Trading Corporation.—Oomrigar Building, opp. Crawford Market, P.O. Box No. 2299, Bombay 2.
Sheth, S. C. & Co., Private Ltd.—Raja Bahadur Mansion, 14, Hamam Street, Fort, Bombay.
Sising Materials Co., Ltd.—Jerco Building, 137, Mahatma Gandhi Road, Fort.
Techno Industrial Co.—107, Sir Vithaldas Chambers, 16, Apollo Street, Fort.
Textile Supplies Syndicate (India) Private Ltd.—India House, Fort Street, Bombay 1.
Textile Works Ltd.—49/55, Apollo Street, Fort.
Thakorial & Co.—47, Nagdevi Cross Lane, Bombay 3.
Voltas Limited.—19, Graham Road, Ballard Estate, Fort.
WESTERN INDIA TANNERIES LTD.—Manufacturers of Leather Beltings, Picking Bands, Buffers, Roller Skins, Pickers, Washers, Laces, etc. Dharavi, Bombay 17.
 Phone Nos. 62621 & 62622. Grams: "EASTKIP."

BILLIARD TABLE MANUFACTURERS

D. S. COUTINHO & CO.—Billiard Table Manufacturers, etc., 81-83, D'Lima Street, Mazgaon, Bombay 10.
DAWSON & CO.—24, Parsee Bazar Street, Fort, Bombay 1.
 Phone: 251017. Grams: "CUSHIONS." Billiard Table Makers, Wood Working Machines, Machine Tools, Furniture, Fretwork, etc.
SHERATON & CO.—Works & Office: 131, Meadows Street, Fort.
 Phone: 235430. Furniture & Billiard Table Manufacturers.

BISCUIT MANUFACTURERS

Britannia Biscuit Co., Ltd., The.—Bombay Office and Factory: Reay Road Bridge, East. Tel. Address: "BOMBISKEET." Phone No. 73581 (2 lines).
Carr & Co., Ltd.—Imperial Chambers, Ballard Estate.
HUNS DEWAN & CO.—P. B. No. 4518, 188, Upper Duncan Road, Byculla, Bombay 8. Telephone No. 74139.
 Telegraph Address: "BISCUITS." High Class Biscuits Manufacturers.
J. B. MANGHARAM & CO.—Manufacturers of High Class Biscuits and Confectionery, 12, Gunbow Street, Fort, Bombay. Phone: 282339 and 264699. Grams: "ENERGYFOOD." Head Office: Gwalior (M.B.). Phone: 574. Branches: Fatehpur, Delhi 6, 35/37, Thambu Chetty Street, Madras 1 and Tank Bunder, Hyderabad (A.P.).
PARLE PRODUCTS MANUFACTURING CO. (PRIVATE) LTD.—Thackersey House, Graham Road, Ballard Estate, Bombay. Phone: 263906. Grams: "VIRARI." Factory: Vile Parle, Bombay 24. Phone: 66463.
Renown Biscuit Co., The.—Connaught Road, near Victoria Gardens, Bombay 27.
Shangrila Food Products Ltd.—Great Social Building, Sir Phirozshah Mehta Road, Fort.
Spencer & Co. Ltd.—Spencer's Building, Forjett Street, Bombay 26.

BLOWERS

UNITED INDIA ENGINEERING CO.—78, Old Custom House Road, Fort, Bombay. Phone: 251492. Grams: "UNICONARAM." Engineers and Machinery Dealers, Sales & Show Room: Commerce House, Meadows Street, Fort, Bombay 1.
WILLIAM JACKS & CO., LTD.—Bharat House, Apollo Street, Bombay. Distributors for Western Manufacturing Co., Bombay. Blowers, Fans and Exhausters.

BOBBINS AND SHUTTLES

Acme Bobbins & Shuttles Private Ltd.—Raja Bahadur Mansion, 14, Hamam Street, Fort.
Allied Exporters.—Kumud House, 267, Dr. Dadabhai Naoroji Road, Fort, Bombay.
Altex Private Limited.—147, Esplanade Road, Fort.
Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.
BRIGHT BROS. PRIVATE LTD.—156-A, Tardeo Road, Bombay 7.
 Grams: "BRIBOS." Phones: 77454 & 77455. Manufacturers of Plastic Bobbins, Pirns, for the Textile Industry.
Empire Trading Co.—76-A, Ali Chambers, Tamarind Lane, Fort.
Greentone Corporation (India).—Cama Buildings, 24-26, Dalal Street, Fort.
Indo-Textile Stores, The.—10, Apollo Street, Fort, Bombay 1.
Industrial Trading Agency.—Tamarind House, Tamarind Lane, Fort, Bombay. Phone: 31782. (Healds, Reeds, Wire healds and Shuttles.)
Laxminarayan Mill Supply Co.—Noble Chambers, 116, Parsi Bazar Street, Fort.
Mangaldas & Sons.—Lentin Chambers, Dalal Street, Fort.
Mehta Parikh & Co.—45-47, Apollo Street, Fort.
Modern Mill Stores.—97, Nagdevi Street, Bombay 3.
Modern Shuttles Manufacturing Co., Ltd.—15, Forbes Street, Fort.
National Trading Company.—263, Hornby Road, Fort, Bombay 1.
N. Kishore & Co.—39, Pudar Chambers, Parsee Bazar Street, Bombay.
ORIENTAL MILL SUPPLY CO. PRIVATE LTD.—29-A, All Chambers, Dean Lane, Fort. Phone: 252428. Grams: "OMILCO."
Paramount Textile Agency.—45/47, Apollo Street, Fort, Bombay.
Pirox N. Motabhy & Co., Ltd.—Motabhy Building, Corner of Meadows and Forbes Street, Fort, Bombay.
Roberts McLean & Co., Private Ltd.—Ilaco House, Sir Phirozshah Mehta Road, Fort.
Sardesai & Company.—14, Murzban Road, Fort, Bombay.
SHAH BROS. & CO.—Raja Bahadur Compound, 24B, Hamam Street, Fort, Bombay 1. Phone: 25-1105. Grams: "MILL-VEPARI." Specialists in Bobbins, Shuttles & Textile Mill accessories and Yarn Exporters.
Shamsun & Co.—11, Bruce Street, Fort.
Sheth, S. C., & Co., Ltd.—Raja Bahadur Mansion, 14, Hamam Street, Fort.
Texmaco (Gwalior) Ltd.—Gwalior. Sales Office: 254-A, Annie Besant Road, Bombay 18.
Universal Textile Bobbin Co.—164, Lohar Street, Bombay 2.
Wilson Brothers Bobbin Co., Ltd.—Sekarla Chambers, 139, Meadows Street, Fort.

BOILER MANUFACTURERS

AMEL PRIVATE LTD.—Love Lane, Byculla, Bombay 27.
 Manufacturers: Ammel, Nestler and Zelite Steam Boilers.

BOILER TUBES & ACCESSORIES

Evergreen Corporation.—Gopal Niwas, P.O. Box No. 2733, Bombay 2. Phone: 20891. Grams: "IMPTUBE." High Pressure Seamless Boiler Tubes, Stay Tubes, Corks and Valves Jointings and Packings and other boiler Appliances.
M. J. PATEL & CO.—46, Nagdevi Street, Bombay 3. Phone: 39183. Grams: "REDTEE." Direct Importers & Stockists: G.I. & Steam Pipes, Boiler Tubes & Valves, C. I. Pipes & Specials, Asbestos Goods, Engineering Stores and Factory Requisites.
MODY BROTHERS & CO.—25, Nagdevi Cross Lane, Bombay 3. Phone: 30858. Grams: "MODIEROSCO."
Ochhavial, K., & Co.—86, Nagdevi Street, Bombay 3.
P. Ratilal & Co.—43, Dhanji Street, Moti Mahal, Bombay 3. Phone: 32700.
Shalebhoj Tyebjee & Sons.—22, Bruce Street, Bombay.
TRADE (INDIA) CORPORATION.—58, Mohamedalli Road, P.O. Box No. 3231. Grams: "TINDICO." Dealers in Water & Steam Pipes & Fittings, Corks & Valves, Flexible tubes, Seamless Steel boiler tubes, Steam Packing & Jointings.

BOILERS—AGENTS, PRESERVATIVES AND COMPOSITIONS

Ardeahir D. Wadia & Sons.—93, Apollo Street, Fort.
Autogenous Welding & Repair Co., Private Ltd.—63, Ferguson Road, Bombay 13.
Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.
Brady, W. H., & Co., Ltd.—Royal Insurance Building, Churchgate Street, Fort.
Daver, B. F., & Co.—Appa Baug Estate, 41, Queen's Road.
Greentose Corporation (India).—Cama Buildings, 24-26, Dalal Street, Fort.
Hardcastle, Waud & Co., Ltd.—Alice Buildings, Hornby Road, Fort.
Healy and Gresham Ltd.—9, Forbes Street, Fort, Bombay.
Herman & Mohatta, B. R., Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort.
Kooveryl Devshi & Co. Private Ltd.—164, Lohar Street.
Molochbhai, Ahmed S., & Sons.—281, Nagdevi Street.
Pioneer Magnesia Works Ltd.—113, Mahatma Gandhi Road, Fort, Bombay.
PUNEGAR, N. E., & CO.—Boiler, Economiser, Steam Plant Solutions and Paints Specialists. Union Bank New Building, Dalal Street, Fort, Bombay 1. Phone: 253178. Telegrams: "ACMECOMPO", Bombay.
Richardson & Cruddas.—Hyculia Ironworks, Parcel Road.
Roberts McLean & Co. Private Ltd.—Ilaco House, Sir Phirozshah Mehta Road, Fort.
Shalebhay Tyebjee & Sons.—12, Bruce Street, Bombay.
Thos. W. Ward (India) Ltd.—Marshall Building, Ballard Road, Ballard Estate, Fort.

BOILER MOUNTINGS & FITTINGS

Autogenous Weldings Repair Co. Private Ltd.—63, Ferguson Road, Bombay 13.
Crescent Trading Co.—48, Bhajipala Lane, Bombay 3.
JIVRAJ & VRAJLAL—122, Nagdevi Street, Bombay 3. Phone: 30138. Grams: "SANIPIES."
KILBURN & CO. PRIVATE LTD.—Gresham Assurance House, Phirozshah Mehta Road, Fort, Bombay 1. Phone: 251908. Grams: "TASCONIUM."
MEHTA NANAVATI & CO.—96, Narayan Dhuru Street, Bombay 3. Phone: 39545. Grams: "REDJOINT".
NAYAK TRADING CO.—151, Sarang Street, Bombay 3. Phone: 23548. Our Specialties: Gun Metal Wheel Valves with renewable Nickel seat & Disc for High Pressure Steam & Cast Iron Valves, of every description.
PATEL BROTHERS & CO.—41, Nagdevi Cross Lane, Bombay 3. Phone: 20606. Grams: "HASTY." All imported and indigenous high pressure cocks, valves and other boiler accessories.

"BOLINJKAR" BELT LACINGS

NAGDEVI TOOL-STEEL MART.—186-88, Nagdevi Street, Bombay 3. Phone: 23058. Grams: "TENDERERS."

BOLTS, NUTS, SCREWS AND NAILS

ABDULKADER SHAMSUDDIN & CO. (Estd. : 1848).—48, Khokha Bazar, Sarang Street, Bombay 3. Phone: 22789. Grams: "COCHINWALA."
ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 29990. Grams: "ALERTDEAL".
Abdulkadar Shamsuddin & Co.—48, Khoka Bazar, Bombay 3.
Abdullah Faizullah Ltd.—Khoka Bazar, Bombay 3.
Adamally Sons Ltd.—277, Nagdevi Street, Bombay 3.
Automotive Hardware Corp.—93, Narayan Dhuru Street, Bombay 3.
Bharat Trading Co.—316-A, Vithalbhai Patel Road.
BEARATI INDUSTRIES.—90/92, Kazi Sayed Street, Bombay. Phone: 30461. Grams: "BRIGHTNUT."
Bhatt Brothers.—168, Nagdevi Cross Lane, Bombay 3.
Bombay Engineering & Metal Works.—Dehgamwala Chambers, Nesbit Road, Bombay 10.
Bombay Metal Products Co.—86, Khandewadi, Bombay 4.
Brady, W. H., & Co., Ltd.—Churchgate Street, Fort.
C. Parekh & Co.—103, Bhajipala Lane, Bombay 3.
Champion Bolts & Nuts Co.—4, Modi Chambers, Kennedy Bldge, Bombay 4.
Desai Brothers.—80/90, Omrigar Bldgs., Lohar Chawl, Bombay 2.
Dhani Ram & Sons.—236, Masjid Bunder Road, Bombay 3.
EAST ASIATIC COMPANY (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 lines). Offices at: Madras, Calcutta, New Delhi.

Fazalbhai & Bros.—26, Sarang Street, Bombay 3.

FREE INDIA METAL PRODUCTS CO.—65-67, Bhajipala Lane, Bombay 3. Phone: 38824. Grams: "ROUNDSOLT." Manufacturers & Suppliers of Bolts, Nuts, Rivets, Washers, Screws & Hardware Materials.

Gaytee & Co.—Janmabhoomi Chambers, Fort Street, Fort, Bombay 1.

Great Eastern Hardware Stores Private Ltd.—132, Sarang Street, Bombay 3. Phone: 29663. Grams: "WINGROVE."

GUEST, KEEN, WILLIAMS, LTD.—Wakefield House, Sprott Road, Ballard Estate, Post Box No. 875, Bombay 1. Phone: 261302 (3 Lines). Grams: "POINTMAN."

Harjimal Kidarnath & Co.—87, Nagdevi Cross Lane, Bombay 3.
Herman & Mohatta, B. R., Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort.

Jaswantlal Maneklal & Co.—40, Churchgate Street, Fort.

Jaysukhlal & Bros.—82-86, Abdul Rehman Street, Bombay 3.

KADAKIA TRADING CORPORATION.—25, Bibijan Street, (Nagdevi), Bombay 3. Phone: 29493. Grams: "STEAM-TRAP."

KANTILAL & BROS.—150, Narayan Dhuru Street, Bombay 3. Phone: 30759. Stockists and Importers of Bolts and Nuts, Socket and Cap Screws. Branch: 697, Reid Road, Ahmedabad. Phone: 4963.

Manilal Sheth & Bros.—Congress House, Vithalbhai Patel Road, Bombay 4. Phone: 71481. "Importers of SAE Bolts and Nuts and Spring Centre Bolts. Grams: RIVET."

MODY BROTHERS & CO.—25, Nagdevi Cross Lane, Bombay 3. Phone: 30958. Grams: "MODIBROSCO."

MOHANLAL & CO.—144, Diamond Bldg., Lohar Street, Bombay 2. Phone: 30916. Grams: "HARDSTOCK." Bolts, Nuts and Screws and Everything Hardware.

MOIZ & FRIEND.—67 A/B, Sarang Street, Bombay 3. Stockists of Hinges, Screws, G. I. Bolts, etc.

MULLA TAYEBALI MULLA NOORHOY.—175, Janjkar Street, Bombay 3. Phone: 38834. Grams: "TANOR." Specialists for Hinges and Screws.

NAGDEVI TOOL-STEEL MART.—186-88, Nagdevi Street, Bombay 3. Phone: 23058. Grams: "TENDERERS."

NEW HAVEN STEEL BALL CORPORATION PRIVATE LTD.—Nanjee Building, 17-B, Horniman Circle, Bombay 1. Phone: 255346. Grams: "GULDASTA." Manufacturers of automobile parts, bicycle parts, sockets, headcap screws, bolts, nuts, steel balls, etc.

NETTLEFOLDS OF INDIA PRIVATE LIMITED.—Wakefield House, Sprott Road, Ballard Estate, Post Box No. 1502, Bombay 1.

Patel, U. D., & Co.—11, Bank Street, Fort.

P. Ralllal & Co.—43, Dhanji Street, Moti Mahal, Bombay 3. Phone: 32700.

Shah Chhaganlal Ladhubhai.—58, Mudi Bazar (Mandvi), Bombay 3. Phone: 34522.

Sitram & Co.—97, Narayan Dhuru Street, Bombay 3.

S. MOHANLAL & CO.—Pathakwadi, Lohar Chawl, Bombay 2. Phone: 27540. Grams: "SOCKETREWS." Direct Importers and Manufacturers of Bolts, Nuts & Screws.

Soho House.—Vithal Sayana Building, Lohar Street.

Sulemanjee Valjee Kutliyanawalla & Co.—Kika Street, Null Bazar.
Trinity Industrial Corporation.—Khandelwal Bhawan, 100, Dr. Dadabhai Naoroji Road, Bombay 1.

TYEBALLY DAWOODJI. (Estd. 1865). 87, Sarang Street, Bombay 3. Phone: 34862. Grams: "FOOTRULES." Stockists of Nicholson and Wiltshire Files and Dealers in Files, Bolts, Nuts, Screws and Hinges, etc.

VORA BROTHERS.—34, Bibijan Street, Bombay 3. Phone: 39585. Grams: "VORABOLTS." Specialists in Bolts, Nuts, Rivets, Washers and other Hardware Materials.

WESTERN INDIA HARDWARE MART.—16, Narayan Dhuru Cross Lane, Bombay 3. Grams: "VISCOSITY." Phone: 28730.

BOLTS, NUTS, SCREWS (NON-FERROUS)

BOMBAY HARDWARE TRADERS.—78, Narayan Dhuru Street, Masjid Bunder Road, Bombay 3. Importers and Stockists of Hardware, Mill gin Stores, Pipes and Fittings and Tools and Bolts, Nuts and Screws.

EVERGREEN CORPORATION.—Gopal Nivas, Lohar Chawl, P.O. Box No. 2733, Bombay 2. Phone: 20691. Grams: "IMP-TURE." Manufacturers of all shapes, sizes, and Threaded bolts, nuts, rivets, screws and washers in metals (Brass, copper, lead, Stainless Steel, nickel, phosphor-bronze and aluminium).

MUNSHI & CO., PRIVATE LTD.—181-83, Babu Khote Street, Pydhonie, Bombay 3. Phone: 73559. Grams: "SPECIALDIE." Manufacturers of Stainless Steel non-magnetic, 18/8 quality.

BOOKBINDING CLOTH MANUFACTURERS & DEALERS

- Balsara & Co. Private Ltd.—43, Meadows Street, Fort, Bombay 1.
GANDHI, R., & CO.—83/2, Mohamedali Road, Bombay 3. Grams: "VALIATEX."
 Leather Cloth Processors & Printers.—Moghul Lane, Matunga, Bombay 16.
ROYAL PAPER STORES.—187-89, Abdul Rehman Street, Maple Bldg., Bombay 3. Grams: "ROSTOPAPER."

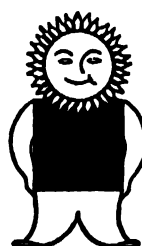
BOOKS (ACCOUNTS & EXERCISES) MANUFACTURERS

- A. G. BOOKWALA & CO.**—9, Mirza Street, Bombay 3. Phone: 34925. Manufacturers of well-known "Good Luck" Exercise Books, Note, Letter & Duplicate Books and all sorts of Account Books. Grams: "EXERCISES."
CRYSTAL STATIONERY MART.—Manufacturing Stationers, 146, Abdul Rehman Street, Bombay 3.
DEELIP STATIONERY MART.—299, Abdul Rehman Street, Bombay 3. Phone: (Office) C/o 20343 (Factory) 28078. Grams: "AZADPAPER." Manufacturers of all kinds of Exercise Books, Letter Books, Rajmal Diaries, Account Books, Duplicate Books, Examination Books, etc., etc.
FIDVI PRINTING PRESS.—179, Abdul Rehman St., Bombay 3. Manufacturers of Accounts and Exercise Books, Office Files, New Year Diaries, Calendars and Refills and other advertising Novelties. Phone: 22415. Grams: "FIDVI PRESS."
SURESH STATIONERY MART.—285, Abdul Rehman Street, Post Box No. 3056, Bombay 3. Phone: 23397. Manufacturers of "JOCKEY BRAND" Exercise Books, Letter Books, Duplicate Books, Examination Papers, Etc.

BOOKSELLERS, PRINTERS AND PUBLISHERS

- Allibhoy Sharafally & Co., Ltd.—378, Kbrahim Rahimtullah Road, Allied Publishers and Stationery Manufacturers, Ltd.—Stronach House, 15, Graham Road, Ballard Estate.
ANAND BOOK DEPOT.—155, Lady Jamshedji Road, Mahim, Bombay 16.
ASIA PUBLISHING HOUSE.—Contractor Building, Nicol Road, Ballard Estate, Bombay. Phones: 263051; 261431. Cables: "BOOKLORE." Branch Offices: 67, Ganesh Chandra Avenue, Calcutta 13; "East View," 199, Mount Road, Madras 2; India Palace, Connaught Circus, New Delhi 1.
ASIAN TRADING CORPORATION.—1-A, Nazir Building, Calicut Street, P.O. Box No. 1505, Bombay 1. Phone: 262575. Grams: "AJIPAS." Importers of all types of books including children's and Religious books.
BENNETT, COLEMAN & CO., LTD.—Times Building, Hornby Road, Fort.
 Blackie & Sons (India), Ltd.—108/5, Fort Street, Fort. Bombay Book Depot, The.—217, Charni Road, P.O. Girgaum, Bombay 4.
CLARIDGE, G., & CO., LTD.—Frere Road, Fort, Bombay 1. Phones: 263201 & 263202. Grams: "BRAD." Security Printers, Photo-Offset, Book-Binders, Box Makers & Packing Experts.
 Co-operators' Book Depot (Estd. 1935).—9, Bakehouse Lane, Fort, Bombay 1.
CURRENT BOOK HOUSE.—Maruti Lane, Ragunath Dadaji Street, Bombay 1. Phone: 264064. Grams: "SHEENAZ." Booksellers, Publishers and Subscription Agents.
ECONOMIST PUBLICATION (INDIA).—Printers; Publishers of the ECONOMIC ANALYST an informative, independent international monthly, covering economic affairs of India, East, Far East and the world, most effective media for trade, world wide circulation. London Office: Publishing & Distributing Co. Ltd., 177, Regent St., London, W.1. India Office: 7, New Queen's Road, Bombay (India). Phone: 27165. Grams: "SUPERPHONE." Post Box 3673.
 Educational Publishing Co.—17, Benham Hall Lane, Girgaum, Bombay 4.
FURTADO, L. M., & CO.—540-544, Kalbadevi Road. Phone: 23656. Dealers in Catholic Religious Books & Devotional Articles.
 Hind Kitabs Ltd.—261-263, Hornby Road, Fort.
 International Agencies (Regd.).—195, Dr. Dadabhoi Naoroji Road, Bombay 1.
 International Book House Ltd.—Ash Lane, Mahatma Gandhi Road, Fort.

- JAICO PUBLISHING HOUSE.**—125, Mahatma Gandhi Road, Bell Lane, Bombay 1. Phone: 252164. Grams: "JAICO-BOOKS." Booksellers and Publishers. Branches: 35, Chit-taranjan Avenue, Calcutta 12. 21, New Central (Shanku) Market, Connaught Circus, New Delhi; 7, Imperial Bank Lane, Mount Road, Madras 2.
 Karim Litho Press.—2nd Anjeer Wadi, Mazagaon. Sales Dept.—Karim Book Agency, Kolsa Mohalla, Bombay 3. For all kinds of Arabic, Persian and Urdu Literature.
 Khemraj Shrikishnadas.—7th Khetwadi, Bombay 4.
 Kitab Mahal.—Publishers & Booksellers, Sohrab House, 235, Hornby Road, Fort.
 Lakhani Book Depot.—Girgaum, Bombay.
 MacMillan & Co., Ltd.—"MacMillan Buildings," 276, Hornby Road.
 Magazine Agency.—4, Nanabhai Lane, Fort, Bombay 1.
 Model Art Printery Ltd.—4, Nanabhai Lane, off Churchgate Street, Fort.
NADKARNI, D. A., & CO., PRIVATE LTD.—(Incorporating Ideal Books Co.), 22, Gowalla Tank Road, Bombay 26. Book-sellers, Publishers & Stationers. Direct Importers of Medical Books from U.K. & U.S.A.
NEW BOOK CO. PRIVATE LTD.—"Kitab Mahal," 188-190, Dr. Dadabhoi Naoroji Road, Fort, Bombay 1. Phone: 263544, 45.
 New India Trade Library.—(Buying, Selling & Advertising Agents). No. 6641. P.O. Matunga, Bombay 19.
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Hassambhoy Jettha.—Opp. Byculia Goods Depot, Parel Road, Bombay 27.

Standard Drum & Bucket Factory.—232, Bellasis Road, Bombay 8.

TAYBI BUCKET FACTORY.—Prop.: Tayabali Sultanji & Co., Manufacturers of Buckets, Drums, Containers and other household articles; Showroom: 174/175, Janjirkar Street, Bombay 3. Phone: 23645. Grams: "HORSEBRAND." Factory: Ripon Road Cross Lane, Bombay 8. Phone: 42206. Vasilralli Limited.—Prospect Chambers, Hornby Road, Fort.

BUILDERS AND CONTRACTORS

Abdulhusein Easoofally Contractor.—91-93, Bapu Khote Street, Bombay 3.

Ahmed Noormohmed Chunawala & Co.—338, Ghodbunder Road, Andheri.

Allied Construction Co., Ltd.—Pannalal Bansilal Mansion, 24-B, Hamam Street, Fort.

Concrete Construction & Engineering Co., Ltd.—Churchgate House, Churchgate Street, Fort.

Cooverji Hormusji & Sons, N. (Est. 1895).—508, Wadia Bldg., Chitra Bazar, Girgaum Road, Bombay 2. Phone: 39919.

Doctor Shah & Co.—Swadeshi Mills Estate, Bombay 4.

Gammon, India Private Ltd.—Hamilton House, Graham Road, Ballard Estate, Fort.

Gannon Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.

GHANSHAM & CO.—Engineers, Builders & Contractors, 18, Court House, 2nd Floor, Carnac Road, Dhobitalao, Bombay 2. Phone: 22438.

Hindustan Construction Co., Ltd.—Construction House, Ballard Estate, Bombay.

JOLLY BROTHERS PRIVATE LTD.—Engineers & Contractors, Lakshmi Insurance Building, Sir Phiroozshah Mehta Road, Fort, Bombay 1. Phones: 263888/9. Grams: "JOLLYBROS."

Kanji Govind Kerson.—Murbad Road, Kalyan.

KHANNA & CO., S.—Mustafa Building, Sir Phiroozshah Mehta Road, Fort. Grams: "CRETECO." Bombay. Phone: 251162. Engineers, Builders and Quarry Owners.

Lallubhai & Co.—Prospect Chambers Annexe, Hornby Road, Fort.

LEVKA PRIVATE LIMITED.—Civil Engineers, Builders & Contractors. Office: 16, Slester Road, Bombay 7. Tel. 42717.

McKenzies Ltd.—Sewri.

Mistry Ebrahim Suleman & Co.—116, Esmail Curtay Road, Bombay 3.

Mohanlal & Co.—491, Duncan Road, Bombay 4.

NEW BHARAT BUILDERS.—Central Bank Bldg., Bruce Street, Fort, Bombay. Phone: 254122. Grams: "NISC." Engineers and Building Contractors.

Premier Construction Co., Ltd.—Construction House, Ballard Estate, Fort, Bombay.

Shah Construction Co. Private Ltd.—198, Jamshedji Tata Road, Bombay 1.

Shapoorji Pallonji & Co.—70, Meadows Street, Fort.

Simplex Concrete Works & Construction Co.—"La Citadelle", 32, Queen's Road.

Simpson, D. B., & Co.—Gamdevi Road, Grant Road, Bombay 7.

Tejoo Kaya & Co.—Tejoo Kaya Park, Vincent Road, Matunga, Bombay 19.

Timber Wood Syndicate.—Ghodbunder Road, Andheri, Bombay. Phone: 86673.

United Construction Corporation.—Shrinivas House, 3rd Floor, Waudby Road, Fort.

Victoria Sanitary Stores, 3rd Bhoiwada, 54, Bhuleshwar, Bombay 2.

BUILDERS HARDWARE

A. K. Porbandarwalla Sons Private Ltd.—Ruhj Mansion, 19, Parsee Bazar Street, Bombay 1.

C. I. E. F. (INDIA) PRIVATE LTD.—Oak Chambers, Oak Lane, Bombay 1. Phone: C/o 251020. Largest stockists of Door Locks and quality Builders' Hardware (Towa Bolts, Door Handles, Casement Stays, etc.). Sole Distributors for "MP" & "CIEP" Italian Locks and Latches and also of "VIJAYA" Locks.

ELECTRIC BRASS WORKS FACTORY.—(Prop. G. Chimanlal & Co.), 91, Sarang Street, Bombay 3. Phone: 22637. Grams: "SCISSOR". Manufacturers of High quality Builders' Hardware. Factory: 1st Panjrapole Lane, C.P. Tank Road, Bombay.

Elliott Waud & Hill Private Ltd.—Lakshmi Bldg., Sir P. M. Road, Bombay 1.

LOOKMANJI MOOSAJI.—138-40, Lehar Chawl, Bombay 2. Phone: 20261. Grams: "CURTAINS." Manufacturers of Brass Building and Furniture Fittings. Also Fittings for Sliding and Folding Doors, Locks and Latches, Hinges, Bolts, Door Closers and Casters.

MENTA MANUFACTURERS.—Shop No. 25-A, Sarang Street, Khokha Bazar, Bombay 3. Dealers in Brass, Furnitures, Fittings and building Materials.

PANCHAL WORKS.—37, Sindhi Lane, Bombay 4. Manufacturers of all types of Locks and Brass Hardware, Building Fittings.

Stanley Works.—The 44, Lakshmi Bldg., Sir Pherozshah Mehta Road, Bombay 1.

Swastik Rolling Shutters & Engineering Works.—Parel Station Road, Bombay 12.

Vertex Manufacturing Co. Private Ltd.—9, Wallace Street, Fort, Bombay. Phone: 262139. Grams: "ALSALES".

BUILDING MATERIALS

Alsaes Ltd.—9, Wallace Street, Bombay 1.

Anir & Sons.—70, Pydhonie Road, Khadak, Bombay 9; Dealers in Timbers, Bamboos and Bamboo Mats of all sizes; Scaffolding Materials like bamboos, Planks, ladders, Mundas and Bullies, etc. can be had on hire.

Arco Steels.—Prospect Chambers Annexe, Hornby Road, Fort. Chandulal Narandas.—96, Kika Street, Bombay 4.

COLE, R. A., PRIVATE LTD.—22, Apollo Street, Bombay 1. (Post Bag 10076). Phones: 251517 S. Grams: "DERAC". Manufacturers of Thermocole Boards for false Ceilings and Acoustical Tiles.

Heatly and Gresham Ltd.—9, Forbes Street, Fort, Bombay. I.C.I. (India) Private Ltd.—P. B. No. 310, Bombay 1.

J. CHANDRAVADAN & CO.—53, C.P. Tank Road, Bombay 4. Phone: 72633. Grams: "COLORSTONE."

Kanakia Corporation.—163, Nagdevi Cross Lane, Bombay 3.

Mahomed Jaunmahomed.—68, Pydhonie Road, Khadak, Bombay 9. Phone: 70663. Scaffolding Materials as Bamboos, Ballies, Folding Ladders, Wooden Planks, etc. can be had on hire and sale.

NEW INDIA MOSAIC AND MARBLE CO. PRIVATE LTD.—Manufacturers of 'NIMMCO' Plain Cement, Marble Mosaic Flooring Tiles in wide range of quality and Colours, Pietra (Terrazzo) Tiles, Chequered Tiles and Steps for heavy duty, Pre-cast Marble Mosaic Slabs, Site Work, Artistic Articles in Marble Mosaic, etc. Office & Factory: Industrial Estates, Lalbaug, Bombay 12. Grams: "NIMMCO TILE." Phone: 41773.

Parikh Brothers.—12, Elphinstone Circle, Bombay 1.

Phoenix Plywood Depot.—Prospect Chambers Annexe, Hornby Road, Fort.

P. Ratilal & Co.—43, Dhanji Street, Bombay 3.

Simplex Timber Mart.—66, Pydhonie Road, Khadak, Bombay 9 (India). Phone (Call On): 70663. Grams: "LADDERMAN". Municipal Contractors, Dealers in Bamboos and Bamboo Mats, manufacturers of all kinds of Single, folding, Sliding, Extension and wheeled tower ladders, boat oars and flag poles etc.

Teamman Traders.—Post Box No. 3162, Nagdevi Street, Bombay 3.

BULLION

Bagraj Gupta.—207, Kalbadevi Road, Bombay 2.

Hemchand Mohanlal & Co.—Deoki Bhuwan, Dhanji Street, Bombay 3.

Khimji Poonja & Co.—Wadia Building, 17/19, Dalal Street, Fort.

Merwanjee Bomanjee Dalal.—45-47, Apollo Street, Fort, Bombay.

MOTILAL VIJHUKHANDAS.—155, Shaikh Memon Street Bombay 2. Manufacturers of "KAMAL" Bars & Dealers of Gold, Silver and Sovereigns Ready & Forward. Importers & Exporters of Chemicals, Drugs, Medicines, Cloth Jari. Phone: 22637. Grams: "AMIAILITY."

Pyarelal Gupta & Co.—207, Kalbadevi Road, Bombay 2.

Ramsarup Gupta & Co.—705, Cotton Exchange, Kalbadevi Road, Bombay 2.

BULLION SMELTERS & SHEETS MAKERS

Dosabhai Rustomji Choksi & Co.—1st Agiary Lane, Kharakuva, Zaveri Bazar, Bombay.

CABLES & WIRE MFRS.

ALFA RUBBER CO.—59, Forbes Street, Bombay 1. Phone: 254825. Grams: "INSTOCY." Manufacturers of Rubber Insulated Electric Wires & Cables.

BIPINKUMAR ELECTRIC CORPORATION.—14, Tavawala Building, Lehar Chawl, Bombay 2. Dealers: M.E.M. Copper-wires, Fans, Motors, Accessories & Everything Electrical. Grams: "BIPINDEV." Phone: 30684. Sole Agents for "TROPEX CABLES," VIR-CTS and Weather Proof and Finolex Plastic Cables.

Bombay Insulated Cables & Wires Co.—10, Himalaya House, 79 Paltan Road, Bombay 1.

BOMBAY WIRE & METAL PRODUCTS.—272/2, Masjid Bunder Road, P.O. Box No. 3201, Bombay 3. Phone: 23684. Grams: "WIREBOLT." Manufacturers of D.C.C. copper wire and dealers in winding wires & insulating materials.

British Insulated Callender's Cables Ltd.—Esplanade House, Waudby Road, Bombay 1.

BROOKS CABLE WORKS.—Manufacturers of quality Wires, & Cables, Devkaran Mansion, Block No. 8, 32, Vithaldas Road, Lehar Chawl, Bombay 2. Factory: Caves Road, Jogeshwari East, Bombay 42.

COSMIC TRADERS.—Yusuf Bldg., Veer Nariman Road, Bombay 1. Phone: 253224. Grams: "YANTRYUG." Underground Cables, Wires and Accessories.

DASWANI BROS.—53, Queen's Road, Opp. Marine Lines Station, Bombay 2. Phone: 34617. Grams: "CIRCLINE." Agents: "TPI" Plastic Wires, ONE Electric Brass Holders, Bakelite Switches, "RECORD" Tube Light Holders & D.B. Electric Accessories.

Devidayal Cable Industries Private Ltd.—Darukhana, Roay Road, Bombay 10. Phones: 70558-59/73586. Grams: "DEVISTEEL".

ELDE CORPORATION.—Ismael Building, 361, Dadabhai Nauroji Road, Fort, Bombay 1. Phone: 282389. Grams: "CAXTONE." Sole Selling Agents "ELDE" Cables, V.I.R.—C.T.S. and Weather Proof manufactured by Swastik Rubber Products, Ltd., Poona 3. "CF" Black insulating Adhesive tape and "CF" yellow Varnished (Empire) Cloth and tape manufactured by Coated Fabrics, Dadar, Bombay 14.

Fleming, John, & Co., Private Ltd.—P. B. No. 76, Bombay 1. Phone: 261153.

Henley's Telegraph Works, Co., Ltd.—Henley House, Ballard Estate, Bombay.

Indian Cable Co., Ltd.—Esplanade House, Waudby Road, Bombay 1.

JARIWALA ISHVERLAL JEKISANDAS & CO.—174, Kika Street, P.O. Box 3884, Bombay 4. Grams: "HIJLITAR." Factory: Bandugara Naka, Surat. Phone: 529. Grams: "COPPERWIRE." Manufacturers of Electrolytic Hard-drawn Brass, Copper, Conductors of all sorts of Wires and Non-ferrous Metal Semis.

Johnson & Phillips Ltd.—Kaiser-I-Hind Building, Currimbhoy Road, Ballard Estate, Bombay. Phone: 262457. Grams: "JOHNPHIL".

JYOTI WIRE INDUSTRIES.—164, Kika Street, Bombay 4. Phone: 70802. Grams: "OVERHEAD." Manufacturers of Hard Drawn Bare copper conductors, D.C.C. Wires, soft blading wires and copper wire for electrical cables. Manufacture copper strips, copper rods in all sizes. Factory at: 42/50, Ali Umar Street, Bombay 3.

Kantilal Chhotalal & Co.—22, Babu Genu Road, Princess Street, Bombay 2. Phone: 30650. Grams: "COMETBAG". Manufacturers of "COMET" brand Electric Insulated Wires & Cables.

NATIONAL ELECTRIC COMPANY.—101, Himalaya House, Paltan Road, Bombay 1. Phone: 285873. Grams: "BILLION." Manufacturers of P.V.C. Wires, Insulated Wires and Cables, Sheets, Films, Pipes, Sleeveings and Tubings, etc.

PLASTICABLES PRIVATE LTD., THE.—Lentia Chambers, Dalal Street, Fort, Bombay. Phone: 254893. Grams: "POLYMER." Manufacturers of P.V.C. insulated wires & cables.

PREMIER RUBBER & CABLE INDUSTRIES.—Jamal Building, 211, Nagdevi Street, Bombay 3. Phone: 38551. Grams: "RUBBERGOODS." Manufacturers of Rubber Insulated Cables (V.I.R.—C.T.S. and Weather Proof etc.).

RADIANT ELECTRIC & MACHINERY CO.—Vithaldas Chambers, Bruce Street, Bombay 1. Phone: 255297. Underground Cables, Cable Boxes & Joining Materials, V.I.R. Binding & Insulating Wires, Copper Strips, Laying of Cables, Erection of transformers, alternating sets, Distributors, Boards, etc., Preparing, Rewinding and Re-conditioning of Electric Machinery also undertaken.

RAJNI ELECTRIC CORPORATION.—272, Masjid Bunder Road, P.O. Box No. 3053, Bombay 3. Phone: 23694. Grams: "RAJNILIGHT." Manufacturers of H.D.S. copper conductors (solid & standard) and strips.

RAVAL & CO.—Shreeji Bhavan, Lehar Chawl, Post Box No. 2279, Bombay 2. Phone: 23720. Grams: "GODSPEED." Branch Office: 1996, Gandhi Road, Ahmedabad. Phone: 4682. Dealers in Everything electrical, Specialised in Wire & Cables and Industrial electric control gear.

CALENDAR MANUFACTURERS

Anant Printers.—1076, Haines Road, Worli, Bombay 18.
BOMBAY CALENDAR CO.—44, Cawasji Patel Street, Fort, Bombay. Phone: 252769. Manufacturers of Office Calendars, Perpetual Calendars, Advertising Fans, Labels, Boxes, Reills, Daily blocks, Show cards, Monthly Dates, etc.

EVEREST CALENDAR COMPANY



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CROWN ELECTRIC PRINTING WORKS.—111-A, Mahatma Gandhi Road, Fort, Bombay 1. Phone: 251437. Fine Art Printers, Bookbinders, Calendar Manufacturers.

Everest Calendar Co.—45/47, Princess Street, Bombay 2.

FIDVI PRINTING PRESS.—179, Abdul Rehman Street, Bombay 3. Phone: 22415. Grams: "FIDVIPRESS." Manufacturers of New Year Diaries, Desk Calendar Reills & Stands of various qualities. Daily Tear off Blocks and other advertising Novelties.

LEADERS' PRESS PRIVATE LTD.—(Prop. of British India Press), 168, Love Lane, Mazgaon, Bombay 10. Phone: 75334-35. Grams: "PRINTBIND." Letterpress, Litho & Offset Printers. Specialists in Books, Diaries, Calendars, Cartons, Labels, etc.

METRO CALENDAR CO.—Bellasis Road, Byculla Club Compound, Bombay 8. Phone: 75353. Grams: "METROF-FSET." Manufacturers of Artistic Modern Offset Calendars, Pictures with pleasing layouts, advertising Aids and Multi-Coloured Printers.

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 Phone: 72293. BOMBAY 4.

CAMPBOR IMPORTERS AND DEALERS

Allied Exporters.—Kumud House, 267, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

Bhavanidas Gangadas & Co.—233/35, Samuel Street, Vadgadi Bombay 3.

EAST ASIATIC CO. (INDIA) PRIVATE LTD. THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi.

Gopaljee & Co.—218, Samuel Street, Vadgadi, Bombay 3.

MADHAVJI MAVJI & CO.—207, Vadgadi, Bombay 3. Phone: 20618. Grams: "PUJARIN." Manufacturers of "Kohinoor" and "Moon" brand Camphor.

CANNERS (FRUITS & VEGETABLES)

DR. WRITER'S CHOCOLATES & CANNING CO.—(Proprietors: F. D. Mehta & Co.), Manufacturers of High Grade Confectionery, Chocolates, Fruits in Tins, Vegetables, Jams, Food Products, etc. Bhavanishankar Road, Dadar, Bombay 28. Phone: 66303.

Fruit Farm Products Co.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort.

JAMES SMITH & CO.—Canners and Manufacturers of "SIL" Brand Preserved Fruits, Vegetables, Juices, Syrups and all other items of Provisions, etc. of guaranteed quality under hygienic conditions. Office: Sreenivas House, Waudby Road, Fort. Telegrams: "HEROINE." Phones: 261334 & 262564.

KELVERT, A. & CO.—90/92, Mazgaon Road, Bombay 10. Phone: 42414. Grams: "CURROSAUCE." Manufacturers of Mango Chutney, Pickles, Curry Powder, Condiments, Squashes, Vinegar, Sauce, Syrups, Prunets, Canned Alphonso Mango Slices and Pulp, Prawn Balchow, Jams, Canned Vegetables, Mergal Mutton, Biryani & Curry.

Panama Distributing Co.—380, Cawasji Patel Street, Fort, Bombay.

PURE PRODUCTS & MADHU CANNING PRIVATE LTD.—Fruit, Vegetable and Fish Canners. Manufacturers of Jams, Jellies, Marmalades, Squashes, Crushes. Suppliers to Defence Services. Factory: Dr. Annie Besant Road, Worli, Bombay 18. P. B. 6551. Phone: 74351. Grams: "PUPRO."

S. G. Phadke & Sons.—Kamal Park, 167, Shivaji Park, Bombay 28.
 Vitory Food Canners Ltd.—Albert Building, Hornby Road, Fort.
 Writer & Co., Dr. D.—Opp. Rangari Chawl, Bhawani Shanker Road, Bombay 28.

CANTEEN STORES SUPPLIERS

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 29990. Grams: "ALERTDEAL."

Akbarally Ebrahimji.—38/c, Cawasji Patel Street, Fort, Bombay.
 Fruit Farm Products.—Byramji Mansions, Sir Phirozshah Mehta Road, Fort.

Mahomed Hussain & Bros.—106, Kansara Chawl, Kalbadevi, Bombay 2.

PEARL METAL WORKS.—20, Wadi Bunder Road, Mazgaon, Bombay 10. Phone: 73860. Grams: "PEARLWORKS." Manufacturers of "PEARL" Brand Stainless Steel Utensils for Canteens.

Poonjiljee, J. M. Jehangir.—Byramji Mansion, Sir Phirozshah Mehta Road, Bombay
 Salemahomed Padjames & Co.—141, Chakla Street, Bombay 3.
 Vastralli, Ltd.—Prospect Chambers, Hornby Road, Fort.

CARBON PAPER MANUFACTURERS

Bharat Carbon & Ribbon Mfg. Co., Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort.

KORES (INDIA) PRIVATE LTD.—Plot No. 10, off Haines Road, Worli, Bombay 18. Manufacturers of Carbon Paper, Typewriter Ribbons, Duplicating Stencils and Accessories. Phone: 73454 (Three Lines). Grams: "KORESCARBO."

LATHAM ABERCROMBIE & CO. PRIVATE LTD.—Forbes Building, Home Street, Fort, Bombay.

CARBONIC ACID GAS DEALERS

Akbarally Mahomedally & Co.—Dawoodi Building, 816, Abdul Rehman Street.

Eastern Bunkers, Ltd.—Scindia House, Dougall Road, Ballard Estate, Fort.

Esoofally Mahomedally & Co.—102-104, Bhusari Moholla, Bombay 3. Sirdar Carbonic Gas Co., Ltd.—Connaught Road, Mazagaon.

CARD CLOTHING

EASTERN CARD CLOTHING CO. PRIVATE LTD., THE.—Importers of Card Clothing for Textile Mills. Works & Office: Lamington Road North, Lal Chimney, Bombay 11. Phone: 42853. Grams: "WIREFILLET." Sole Agents for Frayon de Pauw, Ltd., Ghent-Belgium.

CARD BOARDS

CARDBOARD SUPPLIERS.—6, Tank Street, Surti Mohalla, Bombay 8. Phone: 41718. Grams: "RACOF." Dealers in Gray Boards manufactured by Western Paper and Board Mills Private Ltd., Vikhroli.

HAFIZ BROTHERS.—3/B, Musa Killedar Street, Off Clark Road, Bombay 11. Dealers in all kinds of Boards for Box making industry and Paper Merchants.

SWASTIK PAPER INDUSTRIES.—54, Sutar Chawl, Bombay 2. Phone: 39461. Grams: "PAPERHINDI." Pioneer manufacturers of Corrugated paper & Boards.

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JAYANT PAPER BOX FACTORY.—People's Building, Sir Phirozshah Mehta Road, Fort, Bombay 1. Phone: 262805. Grams: "FIBREBOX." Manufacturers of Single Face Corrugated paper rolls, Double face Corrugated Boards & Containers, Wrappers, Liners, Cartons, Round and Fancy Cosmetic Boxes and packing requisites. Factory: Jayant House, Balli Bazar, Andheri, Agra Road, Kuria. Phone: 67424.

KADRI PAPER BOX FACTORY.—Neer Manzil, Mohamedali Road, Bombay 3. Phone: 27656. Plain and Fancy boxes of every size and description with printing if required and Cardboard Tubes for Calendars.

STANDARD PAPER BOX MANUFACTURING CO.—51, Mangaldas Road, Lehar Street, Bombay 2. Phone: 20774. Grams: "ROSYTONE." Factory at Elphinstone Road, Parel. Manufacturers of Card board & Corrugated boxes.

CARGO SUPERINTENDENTS & SURVEYORS

L. DEWAN & SON.—Nanabhai Mansion, Sir Phirozshah Mehta Road, Fort. Phones: 261341, 263469. Cable: "RAILCUMSEA."

CARPETS MANUFACTURERS & DEALERS

Bombay Swadeshi Co-operative Stores Co., Ltd.—Western India House, Sir Phirozshah Mehta Road, Fort.

CARPETS PALACE.—Opp. The Taj, Apollo Bunder, Fort, Bombay.

DOSSA HARJEE.—257-59, Masjid Bunder Road, P.O. Box No. 3209, Bombay 3. Phone: 20680. Grams: "DOSSARCO." Manufacturers & Suppliers of Jute Carpets, Linoleums & Floor coverings.

E. PEERBHAY & SONS.—Prop. Indian Durries Emporium. 64, Mohamedali Road, Shakra Castle, Bombay 3. Phone: 23406. Grams: "INDIAWEAVE."

Hassaram, K., & Co.—New Silk Bazar, Kalbadevi, Bombay 2. Hotchand Motumal.—381, Hornby Road, Fort.

INDIAN ART MUSEUM PRIVATE LTD.—Carnac Bridge, Bombay 3. Phone: 20726. Grams: "INDARTMUSE." Indian Durries Emporium.—64, Mahomedali Road, Bombay 3. Kabul and Kashmir Store.—15, Lansdowne Road, Apollo Bunder, Fort.

Kashmir Govt. Arts Emporium.—Sir P. M. Road, Bombay 1.

M. Daldas & Sons.—190, Princess Street.

Mirzapur Carpet Industries.—"Nishat," 24, Mangalore Street, Fort, Bombay. Phone: 27349.

Modern Indian Art Crafts.—Sambava Chambers, Sir Phirozshah Mehta Road, Fort.

Noorbhai Jivaji.—Tyebi Manzil, Rhendy Bazar, near Tram Junction. Royal Carpet & Tapestry Emporium.—Dina Buildings, 58, Queen's Road, opp. Marine Lines Station.

Royal Carpets & Cane-Furniture Manufacturing Co.—Mani Bhuwan, Hughes Road, Bombay 7.

CASEIN MANUFACTURERS AND DEALERS

Akbarally Ebrahimji.—38/c, Cowasji Patel Street, Fort, Bombay. Grams: "Tussibar."

CHAMPION DAIRY COMPANY.—New Petit Mansion, Sleater Road, Grant Road, Bombay 7. Phone: 40983. Dealers in Casein.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavel House, Graham Road, Ballard Estate, Bombay. Phone: 26-2811 (6 Lines). Offices at Madras, Calcutta, New Delhi.

Latham Abercrombie & Co. Private Ltd.—Forbes Building, Home Street, Fort.

Poison, Ltd.—Jn. of Belvedere & Dockyard Roads, Bombay 10.

Poonjiajee, J. M. Jehangir.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort, Bombay.

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EVERGREEN CORPORATION.—Gopal Nivas, Lehar Chawl, P.O. Box No. 2733, Bombay 2. Phone: 20691. Grams: "IMPTUBE". C. I. Pipes, Screwed & Flanged Fittings and Specials, Cocks and valves, Strainers, Foot valves and other Under-ground Fittings.

CATERERS, PURVEYORS & BAZAR SUPPLIERS

BRANDON & CO. PRIVATE LTD.—Elphinstone Building, Churchgate Street, Fort. Phone: 252433.

Carim, E. A.—138-40, Samuel Street, Khoja Moholla, Bombay.

Fruit Farm Products Co.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort.

Pioneer Coffee House.—46, Churchgate Street, Fort.

Pyrke's Provision Stores.—373, Hornby Road.

Rabadi, K. N., & Sons.—19, Bopa Lane, Chandaonwadi.

Tambe, B. Private Ltd.—Sangrhi Sadan, Girgaum Road.

Wayside Inn.—38, Rampart Row, Fort.

CEMENTS IMPORTERS & DEALERS

Batilbol & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone Nos. 255451-55. Grams: "BATLIBOCO". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore and Vijayvada. Associates, Bangalore and Secunderabad.

Hardcastle Wand & Co. Private Ltd.—Alice Building, Hornby Road, Bombay 1.

Killeck Nixon & Co. Private Ltd.—Killeck Building, Home Street, Bombay 1.

M. Daldas & Sons.—190, Princess Street, Bombay 2.

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 Associated Cement Companies, Ltd.—Opp. Churchgate Station, Fort
 Balmer Lawrie & Co., Ltd.—8, Graham Road, Ballard Estate, Fort
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 Dealers in "POLAR BEAR" White Cement, "LION"
 Colcemorement & "CEMPEKO" Waterproof Cement Paint,
 etc., etc.
 Gammon India Private Ltd.—Hamilton House, Graham Road,
 Ballard Estate, Fort.
 Gannon Dunkerley & Co., Ltd.—Chartered Bank Building,
 Mahatma Gandhi Road, Fort.
 H. Moonchand & Co.—Parsee Bazar Street, Bombay 1.
 Jacks, William & Co., Ltd.—Hamilton House, Graham Road,
 Ballard Estate, Fort.
 McKensies, Ltd.—Sewri.
 Modern Concrete Art Industries.—Opp. Cave, Bombay 42.
 Raval & Co.—21, Bank Street, Fort.
 Simplex Concrete Works & Construction Co.—"La-Citadelle," 82,
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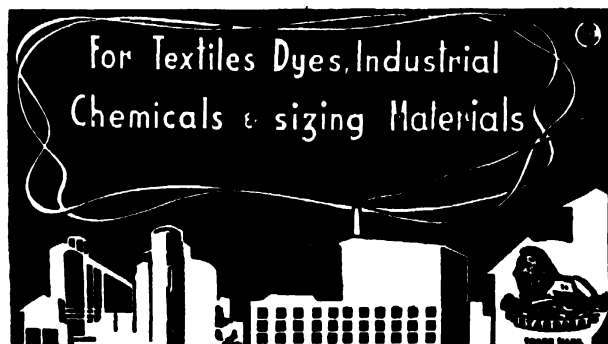
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VASANTRAI GOVERDHANDAS & BROS.—75, Mohamedalli Road, Bombay 3. Phones: 29900 & 28209. Grams: "VIGIBROS."

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Vinod Colour & Chemical Co.—11, Chakla Cross Lane.

Voltas Ltd.—19, Graham Road, Ballard Estate, Fort.

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COMMERCIAL SOLVENTS CORPORATION.—Indian Globe Chambers, 4th Floor, Fort Street, Bombay 1. Phone: 265446. Grams: "SOLVO."

I.C.I. (India) Private Ltd.—P.B. No. 310, Bombay 1.

Premji Vishram & Co.—310, Sheikh Memon Street, Bombay 2. Phone: 23644. Grams: "PREMAL".

S. MATHURADAS & CO.—P.O. Box No. 2113, Princess Street, Bombay 2. Grams: "SMATEURCO." Phone: 30273. Direct Importers of Laboratory Chemicals and Re-Agents.

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Adani Brothers: Associated Importers.—Mulchand Mansion, Princess Street, Bombay 2.

Adarsh Medical Corporation.—Mulchand Mansion, 2nd Floor, Princess Street, P.B. No. 2452; Bombay 2.

Addy Pharmacy.—Har Ganga Mahal, Khodadad Circle, Dadar, Bombay 14.

AKBARALLY EBRAHIMJI.—Kamar Building, 36-C, Cawasji Patel Street, Fort. Wholesale & Retail Provision & General Merchant, Perfumer, Dispensing Chemist & Druggist and Manufacturers' Representatives. Phone No. 251150. Grams: "TUSSIBAR." Branches: 12, Sir Phirozshah Mehta Road, Fort. Phone: 26-3716.

AKBARALLY EBRAHIMJI PHARMACY & DEPARTMENT STORES.—45/47, Veer Nariman Road, Fort, Bombay. Phone: 253921. Grams: "TUSSIBAR."

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All India Medical Corporation.—185, Princess Street, Bombay 2.

Allied & Co.—Devkaran Mansion, Princess Street, Bombay 2.

Amersey Khimji & Co.—56, Varjivan Mansion, Princess Street, Bombay 2.

AMRUTLAL BHURABHAI & CO.—P.O. Box No. 2379. Anand Bhuvan, Princess Street, Bombay 2. Phone: 27773. Grams: "CHEMDRUGS." Direct Importers and Dealers of all kinds of Chemicals, Drugs & Sizing Materials.

Amulakh Kalyanji.—14, Mangaldas Road, Princess Street, Bombay 2. Anglo-French Drug Co. (Eastern) Ltd.—Yusuf Building, Vir Nariman Street.

Anglo-Indian Drug & Chemical Co.—285, Jumma Masjid, Bombay 2.

Arun & Co.—Shop No. 5, Bulakhidas Building, Mangaldas Road, Bombay 2.

Asian Trading Co.—Bode Chawl, Princess Street, P.B. No. 2398, Bombay 2.

Asiatic Stores.—72, Churchgate Street, opp. Churchgate Station, Fort, Bombay.

Atlantic Stores.—Western Breeze Building, Colaba Causeway, Fort.

Atul Drug House.—Mulji Jetha Building, 3rd Floor, 12, Champa Street, Bombay 2.

Badroodin Mohomedally & Sons.—238, Nagdevi Street, Bombay 3.

B. A. & Brothers.—98, Princess Street, P.B. No. 2077, Bombay 2.

B. Babulal & Co.—Devkaran Mansion, Princess Street, P.B. No. 2409, Bombay 2.

B. C. Shah & Co.—8, Devkaran Mansion, Vithaldas Road, Bombay 2.

B. Jayantilal & Co.—15, Mangaldas Road, Princess Street, Bombay 2.

B. M. Shah & Co.—40, Princess Street, Bombay 2.

B. Vrajilal & Co.—28, Princess Street, Bombay 2.

Beliram & Sons.—306, Princess Street, Bombay 2.

Beliram Chimanlal & Co.—308, Princess Street, Bombay 2.

Benjamin & Sadka.—Anand Bhuvan, 2nd Floor, Princess Street, P.B. No. 2419, Bombay 2.

Bhagwandas Maganlal & Co.—295, Jumma Masjid, Bombay 2.

Bharat Agencies.—31, Forbes Street, Kirti Building, Fort, Bombay 1.

Bharat Drug House.—Devkaran Mansion, Mangaldas Road, Bombay 2.

Bhogilal Premchand & Co.—Mulchand Mansion, 24, Princess Street, Bombay 2.

Bill & Co.—Imperial Mahal, Tram Terminus, Dadar.

Bimex & Co.—43, Forbes Street, Fort, Bombay 1.

Bole Brothers.—P.B. No. 2072, Princess Street, Bombay 2.

Bombay Drug Distributors.—Chhotani Bldg., 54-B, Proctor Road, Bombay 7.

Bombay Medicine Supply Co.—46, Old Hanuman Lane, P.B. No. 2340, Bombay 2.

Bombay Pharmacy, The.—Sonawala Building No. 1, Tardeo Road, Bombay 7.

Bombay Surgical Medical Agency, Ltd.—P.O. Box 2093, Bharucha Building, Princess Street.

British Drug Houses (India) Ltd.—Imperial Chemical House, Ballard Estate.

Burroughs Wellcome & Co.—Cook's Building, Hornby Road.

C. Himatlal & Co.—89, Princess Street, Bombay 2.

C. J. Sheth & Co.—48, Mangaldas Road, Princess Street, Bombay 2.

- C. K. Reshamwala & Co.—Shuruf Mansion, Princess Street, Bombay 2.
 C. K. Shah & Co.—101, Princess Street, Bombay 2.
 C. P. Thakkar & Co.—89, Princess Street Peerbhai Mansion, Bombay.
 Champaklal D. Shah & Co.—Devkaran Mansion, Block No. 1, Princess Street, P.B. No. 2404, Bombay 2.
 Champal Naras & Co.—4, Princess Street, Bombay 2.
 Chandulal Nagindas & Co.—Shuruf Mansion, Princess Street, Bombay.
 Chhaganlal T. Kanani & Co.—Ruxmani Nivas, Opp. Jumma Masjid, 298, Sheikh Memon Street, Bombay 2.
 Chimanlal Chunilal & Co.—Mangaldas Road, Princess Street, P.B. No. 2209, Bombay 2.
 Chimanlal Maganlal & Co.—4, Mangaldas Road, Princess Street, Bombay 2.
 Chimanlal, N., & Co.—Shroff Mansion, Princess Street.
 Chimanlal Saralal & Co.—Mangaldas Road, Princess Street, Bombay.
 Choksey & Co., Props.: Manilal Narbheram & Co.—Champsy Building, 78, Princess Street, Bombay 2.
 Chounilal Dahyabhai & Co. Private Ltd.—70, Princess Street, Bombay.
 Chunilal Ootamchand & Co.—79, Princess Street, Bombay 2.
 Colaba Drug Stores.—Nandam Manali, Colaba Road, Bombay 5.
 Continental Drug Stores.—Damodar Building, 115, Princess Street.
 Crookes Laboratories Ltd.—Court House, Carnac Road, Bombay 2.
 Dadha & Co.—63, Princess Street, P.B. No. 2274, Bombay 2.
 Dawawala Brothers.—102, Girgaum Road, Bombay 4.
 Dawawala & Co.—Shuruf Mansion, 9, Old Hanuman Lane, Bombay 2.
 Diamond Medical Stores.—314, Sheikh Memon Street, Opp. Jumma Masjid, Bombay 2.
 Dilip & Co.—Devkaran Mansion, Block No. 1, Princess Street, Bombay 2.
 Dinshaw Khodad & Co. (Empire Stores).—Crawford Market, Fort, Bombay 1.
 Dongre, K. T., & Co.—384, Lamington Road, Bombay 4.
 D. Macedo & Co.—251, Budhwarpeth, Poona 2.
 D. Manilal.—52-58, Babu Genu Road, Bombay 2.
 D. Ratilal & Co.—Mangaldas Building, Mangaldas Road, Bombay 2.
 Eastern Chemical Co. (India).—J. K. Building, Dougal Road, Ballard Estate.
 Empire Chemists.—Fida Building, Princess Street, Bombay 2.
 General Drug & Chemical Co.—Fida Building, Sheikh Memon Street, Bombay 2.
 Girdhar Javer & Co.—Devkaran Mansion, Princess Street.
 Girdharlal & Co.—195, Mangaldas Building, Mangaldas Road, Bombay 2.
 Globe Medicine Co.—Bode Chawl, New Hanuman Lane, Bombay 2.
 Gopaladas Visram & Co.—8, Fida Building, opp. Mangaldas Market, Bombay 2.
 Gujarat Essence Mart.—Keshavbaug, 126, Princess Street, Bombay 2.
 Hardinge & Co.—Charni Road Junction, Grant Road.
 Haribhai Jeelbal & Co.—23, Princess Street.
 Hira, P. H., & Co.—18-20, Princess Street.
 Hughes & Davies.—101, Mahatma Gandhi Road, Fort.
 H. Banker & Co.—16, Old Hanuman Lane, Bombay 2.
 H. Chandulal & Co.—Mangaldas Building No. 1, Mangaldas Road, Princess Street, Bombay 2.
 I. G. Gajjar & Co.—17-19, Princess Street, Bombay 2.
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 Jadavji Keshavji & Co.—Mulchand Mansion, Princess Street.
 Jadavji, R., & Sons.—Harbour View, Colaba Causeway.
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 Jayakumar Chandulal & Co.—Mangaldas Road, Kitchen Garden Lane, P.B. No. 2337, Bombay 2.
 Jayantilal & Co., B.—15, Mangaldas Road, Princess Street, Bombay 2.
 Jayantilal Natwarlal Vaidya & Co.—Station Road, Petlad.
 Jeewan Pharmacy.—Mulchand Mansion, Princess Street, Bombay 2.
 J. & J. De Chane.—Star Mansion, 30, Clare Road, Byculla, Bombay.
 Jitendra & Co.—18, Fida Building, Princess Street, Bombay 2.
 Jiva Kuka & Co.—Princess Street.
 J. Kundan & Co.—Mulchand Mansion, Princess Street, Bombay 2.
 J. M. Sheth.—65, Kitchen Garden Lane, Vithal Sayana Building, No. 2, P.B. No. 2560, Bombay 2.
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 Kantilal & Bros.—Vithal Sayana Building, Lohar Chawl, Bombay 2.
 Kantilal Chimanlal & Co.—Mangaldas Road, Princess Street P.B. No. 2296, Bombay 2.
 Kantilal Manilal & Co.—16, Princess Street.
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 K. F. Mody & Co.—Oomrigar House, Mangaldas Road, Bombay 2.
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 Madon Sons & Co.—Madon Mansion, 67, Hughes Road, Bombay 7.
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 Manilal Motichand Kanani & Co.—Dawawalla Building, 99, Princess Street, Bombay 2.
 Mansukhlal Tribhuvandas & Co.—Princess Street, Vithaldas Road, Devkaran Mansion, Block 8, P.B. No. 2189, Bombay 2.
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 M. H. Javerian & Co.—67, Princess Street, Bombay 2.
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 M. M. Bharwada.—Mulchand Mansion, Princess Street, Bombay 2.
 M. M. Shah & Co.—Damodar Building, 109, Princess Street, Bombay.
 Model Chemists.—Mapla Mahal, Thakurdwar, Bombay 4.
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 Natvarlal & Co.—Fida Building, Princess Street, Bombay 2.
 N. Himatlal & Co.—P. O. Box No. 2004, Princess Street, Bombay 2.
 N. Sunderlal & Co.—89, Princess Street, P.B. No. 2276, Bombay 2.
 N. Uttamlal & Co.—Bode Chawl, Princess Street, P.B. No. 2049, Bombay 2.
 N. Vasantrai & Co.—55, Princess Street, Devkaran Mansion, Bombay.
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 Oriental Medical & Surgical Stores, Ltd.—Anand Bhuvan, Princess Street, Bombay 2.
 Oriental Pharmacy.—Kapoli Nivas, near Imperial Bank, Sandhurst Road.
 Pannalal Ramdayal Chindak.—153, Princess Street.
 Paradkar, K. A., & Co.—Dindale Building, Galwadi, Girgaum, Bombay 4.
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P. C. Sheth & Co.—Bode Chawl, New Hanuman Lane, Princess Street, Bombay 2.

P. D. Doshi & Co.—38, Old Hanuman Lane, P.B. No. 2422, Bombay 2.

P. M. Zaveri & Co.—10, Fida Building, Princess Street, Bombay 2.

P. N. Vora & Co.—P.B. No. 2039, Varjivan Mansion, 1st Floor, Princess Street, Bombay 2.

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P. Ramanlal & Co.—72, Princess Street, Bombay 2.

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Purshottam Laxmichand.—Balakhidas Building, Mangaldas Road, Bombay 2.

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Queen's Chemists, The.—Queen's Chambers, Queen's Road (opp. Marine Bridge), Bombay.

Rajnikant Brothers.—P.B. No. 2053, Princess Street, Bombay 2.

Ramkhal & Co. Ltd.—Varjivan Mansion, 60-62, Princess Street, P.B. No. 2228, Bombay 2.

Ratilal Hemraj.—Mulchand Mansion, Princess Street, Bombay 2.

R. K. Mehta & Co.—Champey Building, Princess Street, Bombay 2.

R. Nandlal & Co. (Pharmaceuticals).—72-A, Champey Building, Princess Street, Bombay 2.

Rela, K. B., & Sons.—Anand Bhuvan, Vithalbhai Patel Road.

Reshanwala, C. K., & Co.—Shuruf Mansion, Princess Street, Bombay.

Rose Pharmacy.—Anand Bhuvan, Princess Street, Bombay 2.

Roy & Company.—176, Princess Street, Bombay 2.

Royal Chemists.—Queen's Chambers, Queen's Road.

Royal Drug & Pharmaceutical Co.—52-58, Jivraj Shamji Building, New Hanuman Lane, P.B. No. 2395, Bombay 2.

Rustom, K., & Co.—49, Wodehouse Road, Colaba.

S. MATHURADAS & CO.—P.O. Box No. 2113, Princess Street, Bombay 2. Grams: "SMATHURCO." Phone: 30573. Direct Importers of Laboratory Chemicals and Re-Agents.

Saboowalla Kamruddin Hakimji.—Crawford Market, P.O. Box No. 1146, Bombay.

Scientific Chemists, The.—105, Princess Street, Bombay 2.

Seventilal Kantilal & Co.—84, Mangaldas Building, Mangaldas Road.

Shah Brothers.—32, Princess Street, "Jintan" Agency, Bombay 2.

Shah & Co.—Anand Bhuvan, Princess Street.

Shantilal Ltd.—Princess Street, P.B. No. 2140, Bombay 2.

Sheth, C. J., & Co.—192, Mangaldas Building, Mangaldas Road, Bombay 2.

Simplex Chemical Co.—108-C, Chhaktewadi, Tardeo.

Sinora Chemical Works.—531, Chitra Bazar, Girgaum.

Sorabji Hormasji & Co.—22, Mangaldas Road, Opp. P.O., Juma Masjid.

Standard Pharmacy.—Anand Bhuvan, Princess Street, Bombay 2.

Stewart's Laboratories.—327, Hornby Road, Fort.

S. Mathuradas & Co.—7, Bode Chawl, Princess Street, P.B. No. 2113, Bombay 2.

S. Shantilal & Co.—35, Kika Street, Gulabwadi, Bombay 4.

Standard Medical Agencies.—18, Anand Bhuvan, Princess Street, P.B. No. 2426, Bombay 2.

Tarachand & Co.—5, Sleater Road, Grant Road.

Thakkar Bros.—32, Princess Street, Bombay 2.

Thomson & Taylor Ltd.—117-119, Mahatma Gandhi Road, Fort.

T. J. Shah & Brothers.—Mulchand Mansion, Princess Street, P.B. No. 2180, Bombay 2.

Tribhovandas Khimji & Bros.—13, Princess Street.

Umeshchandra Jayantilal & Co.—Mahendra Mansion, New Hanuman Lane, Bombay 2.

Union Drugs & Pharmaceutical Co.—Old Hanuman Lane, Jayabal House, Near Angania's Chawl, P.B. No. 2559, Bombay 2.

Vally, J. H.—Mangaldas Road, Princess Street, Bombay 2.

Vannali Bhika & Co.—Devkaran Mansion, Princess Street, Bombay 2.

Vijay Trading Corporation.—297-B, Old Post Office Lane, Mangaldas Market, Bombay 2.

Vinchhi Bros. & Co.—Old Small Causes Court Building, Princess Street.

Vora, B. P., & Co.—126, Princess Street.

Vora Bros.—216, Princess Street.

Vora, M. J., & Co.—423, Kalbadevi Road, Bombay 2.

V. Rajkotia & Co.—Varjivan Mansion, 52, Princess Street, Bombay 2.

Vyas Brothers Ltd.—Devkaran Mansion, Princess Street, Bombay 2.

Wagh, T. A., & Co.—Kahatriya Dnyati Nivas, New Charni Road, Girgaum.

Wagh & Sons.—Folbawdi, Parel.

Western Trading Corporation.—439, Kalbadevi Road, 1st Floor, Bombay 2.

Wright & Co.—Junction of Frere Road and Mint Road, Fort.

Zill & Co.—Princess Street.

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Alemble Chemical Works Co., Ltd., Baroda.—Lakshmi Buildings, Sir Pherozshah Mehta Road, Fort.

B. A. & Brothers.—98, Princess Street, Bombay 2.

BOOTS PURE DRUG CO. (INDIA) PRIVATE LTD.—Registered Head Office: Asian Building, Niccol Road, Ballard Estate, P. O. Box 680, Bombay 1. Phone: 281436. Tel.: "DRUGBOOTS," Bombay. Factory: Sion, Bombay 22. Phone: 62445.

British Drug Houses (India) Ltd.—Imperial Chemical House, Ballard Estate.

CHEMICAL, INDUSTRIAL & PHARMACEUTICAL LABORATORIES, LTD. (CIPLA).—289, Bellasis Road, Byculla. Phones: 75211, 75212 and 75213.

Continental Drug Co. Ltd.—135, Worli Road, Worli. Phone: 45451. Grams: "Condrugco."

Crookes Laboratories Ltd.—Court House, Carnac Road, Bombay 2. Dongre, K. T., & Co.—384, Lamington Road, Bombay 4.

DR. BEALCHANDRA LABORATORY.—215, Charni Road, Girgaum, Bombay 4. Phone: 27221. Grams: "BEALABS". Manufacturers of High quality Pharmaceuticals and Ethical Specialities.

Fairdeal Corporation Ltd., The.—Lakshmi Building, Sir Pherozshah Mehta Road, Fort, Bombay.

Gajjar's Standard Chemical Works, Ltd., Prof.—New Islam Mills Compound, Currey Road, Bombay 13.

Holmes Laboratory.—Upper Forrester Hill, Bombay 26.

J. & J. De Chane.—Star Mansion, 30, Clare Road, Byculla, Bombay.

Kemp & Co., Ltd.—Elphin House, Cadell Road, Bombay 23.

Kopran Chemical Co.—105, Apollo Street, Fort.

MAY & BAKER (INDIA) PRIVATE LTD.—Karimjee House, Sir Pherozshah Mehta Road, Fort, Bombay. Branches: Calcutta, Gauhati, Madras and New Delhi.

Parke, Davis & Co., Ltd.—Canada Building, Hornby Road, Fort.

PHARMED PRIVATE LTD.—Pharmed House, Fort Street, Fort. Phone: 261141/2. Grams: "PHARMED." Factory: 252/54, Dr. Annie Besant Road, Worli, Bombay 18. Phone: 41445.

RAMBHAM PATENT DEPOT.—32, Princess Street, Bombay 2. Phone: 36572. Grams: "ADVIRE." Manufacturers of Household Remedies, Biological Products and Toilet Requisites.

Roy & Company.—176, Princess Street, Bombay 2.

STANDARD CHEMICAL & PHARMACEUTICAL CO.—Adas Mills, Reay Road, Bombay 10. Phone: 40642. Grams: "GERMOL." Manufacturers of Saccharin 550 B.F. United Pharmaceutical Co.—157-59, Girgaum Road, Bombay 4. Zandu Pharmaceutical Works, Ltd., The.—Gokhale Road (South). Zenith Chemical Works Private Ltd.—4, French Bridge, Bombay 7. Phone: 40905 (Estd. 1916).

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Apex Traders.—Advani Chambers, Sir Pherozshah Mehta Road, Fort.

Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.

Bharat Pulverising Mills.—125, Narayan Dhuru Street, Bombay 3.

Chimanlal Patel & Co.—174, Hornby Road, Fort.

D. Kaniyalal & Co.—45, 3rd Cavel Cross Lane, Kalbadevi Road, Bombay 2. Phone: 34052.

Gujarat Clay Mills.—246, Reay Road, Bombay 10.

Industrial Minerals and Chemical Co.—125, Narayan Dhuru Street, Bombay 3.

Jashwanthi Maneklal & Co.—40, Vir Nariman Street, Fort.

JIVRAJ & VRAJLAL.—122, Nagdevi Street, Bombay 3. Phone: 30135. Grams: "SANIPIPES."

Kirtikumar & Co.—80, Bhandari Street, Mandvi, Bombay 3. Phone: 20583. Grams: "LALITKIRTI."

Pannalal Ramdayal Chindak.—153, Princess Street, Bombay 2.

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HAVELL'S ELECTRICAL (SALES) CORPN.—32, Rampart Row, Fort, Bombay 1. Phone: 262192. Grams: "HAVELL-CROP." Havell's quality Cinema Carbons made in Germany for sure satisfaction. Offices: Calcutta, Delhi, Madras & New Delhi.

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- Alankar Chitra.—19, Prem Court, Sir Jamshedji Tata Road, Churchgate Reclamation, Bombay 1.
- All India Pictures.—Ratan Villa, Vincent Square, Dadar, Bombay 14.
- Anand Films.—4-B, Naaz Bldg., Lamington Road, Bombay 4.
- Anupam Chitra.—Ranjit Studios, Main Road, Dadar, Bombay 14.
- Art Films of Asia Ltd.—Olympia House, Warden Road, Bombay 26.
- A. R. Films.—3rd Floor, Hasan Mansion, Dhobi Street, Corner of Masjid Bunder Road, Bombay 3.
- Ashok Pictures.—Rattan Villa, Vincent Square, Bombay 14.
- Azad Chitra.—136, Girgaum Road, Bombay 4.
- Bal Vithal Films.—4th Floor, Prabhawadi, Behind Post Office, Mahim, Bombay 16.
- Basant Pictures.—(Studio) Kolwada Borla Road, Behind Golf Club, Chembur. Office: 136, Chamarbagh Road, Parel, Bombay 12.
- Basu Chitra Mandir Private Ltd.—Shree Sound Studios, Dadar, Bombay 14.
- B. B. Cine Corporation, Ltd.—Whiteaway Building, Hornby Road, Fort.
- Bhagwan Art Productions.—Care Films, Walkar House, Lamington Road, Bombay 4.
- Bimal Roy Productions.—Mohan Studios, Andheri, Bombay.
- B. K. Patel & Co.—106, Medows Street, Fort.
- Bombay Film Labs. (Private) Ltd.—149, Portuguese Church Street, Bombay 28.
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- B. R. Films.—4, Chinoy Colony, Juhu Road, Santa Cruz, Bombay 23.
- Central Cine Corporation.—68, Tardeo Road.
- Central Studios.—74-94, Tardeo Road, Bombay 7.
- Chandra Films.—4-G, Naaz Bldg., Lamington Road, Bombay 4.
- Chitra Bharati, C/o Shrikant Studios.—Chembur, Bombay.
- Chowdhry Art Productions.—252, Niyon Road, Byculla, Bombay 8.
- Columbia Films of India Ltd.—Imperial Chambers, Ballard Estate.
- Dawlat Corporation Ltd.—Patel Chambers, French Bridge, Bombay 7.
- De Lux Films.—103, Famous Cine Bldg., Mahalaxmi, Bombay 11.
- Deepshikha Chitra Niketan.—59, Bhatia Bhavan, Asha Lane, Gokhale Road, Dadar, Bombay.
- Deep & Pradeep Productions.—250, Famous Cine Building, Mahalaxmi, Bombay 11.
- Desai Films.—3-F, Naaz Bldg., Lamington Road, Bombay 4.
- Diamond Pictures Ltd.—Distributions Office: Seksaria Building, Sandhurst Road, Bombay 4.
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- Filmco.—5, Habib Park, Clare Road, Byculla, Bombay 8.
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- Kala Kendra.—Shrikant Studios, Chembur, Bombay.
- Kalpna Pictures.—203, Famous Cine Building, Haines Road, Mahalaxmi, Bombay 11.
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- Kashyap Productions.—Aldina Mansions, 21, Carmichael Road, Bombay.
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- Kwatra Art Productions.—206, Famous Cine Bldg., Mahalaxmi, Bombay 11.
- Light & Shade.—245, Famous Cine Bldg., Mahalaxmi, Bombay 11.
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- Manish Chitra, C/o Prakash Studio.—Andheri, Bombay.
- Mars & Movies.—349, Carnac Road, Dhobi Talao, Bombay 2.
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- Movie Stars, C/o Shree Sound Studios.—Dadar, Bombay 14.
- Mukti Films.—3-D, Naaz Bldg., Lamington Road, Bombay 4.
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- Nathan Productions, C/o Raman Studios.—Dadar, Bombay 14.
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- Navketan.—Khira Kutir, Ghodbunder Road, Santa Cruz, Bombay 23.
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- Novel Productions.—9, Krishna Ashram, Jogeshwari East, Bombay 42.
- Orient Film Corporation.—220, Gulawadi, Agakhan Building, Bombay 2.
- Paul Studio.—Prospects Chambers, Hornby Road, Bombay.
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- Paramount Films of India Ltd.—Hague Building, Ballard Estate, Fort.
- Patel, B. K., & Co.—106, Medows Street, Fort.
- Peerless Pictures.—116, Charni Road.
- P. S. Pictures.—Famous Cine Bldg., Mahalaxmi, Bombay 11.
- P. N. Films Private Ltd.—Sagar Mandir, Shivaji Park Beach, Bombay.
- Pushpa Pictures.—1-E, Naaz Bldg., Lamington Road, Bombay 4.
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- Raman Productions.—Dadasaheb Phalke Road, Dadar, Bombay.
- Ravi Kala Chitra.—Anil, Hanuman Road, Vile Parle, Bombay.
- Republic Films Corporation.—257, Famous Cine Bldg., Haines Road, Mahalaxmi, Bombay 11.
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- Sheikh Mukhtar Productions.—310, Famous Cine Bldg., Haines Road, Mahalaxmi, Bombay 11.
- Shree Shakti Films.—204, Famous Cine Building, Mahalaxmi, Bombay 11.
- Shree Sound Studios.—10, Gokuldas Pasta Road, Dadar.

Sippy Films Ltd.—3-G, Naaz Bldg., Lamington Road, Bombay 4.
 Solar Films.—Shree Sound Studios, Dadar, Bombay.
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 Hindustan Import & Export Corp., Ltd.—Albert Building, Hornby Road, Fort.
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 MANILAL PATEL PRIVATE LTD.—36, Cawasji Patel Street, Fort, Bombay. Phone: 251664. Grams: "PATESAN".
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 Patel Cotton Company Ltd.—6, Vir Nariman Road, Fort.
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COTTON DEALERS

Aboobaker Abdulrehman & Co.—Imperial Building, 360, Junction of Lamington and Vithalbhai Patel Road, Bombay.
 Ahmedabad Advance Mills, Ltd., The.—Bombay House, 24, Bruce Street, Fort, Bombay.
 Amersy & Sons.—Feltham House, 10, Graham Road, Ballard Estate, Bombay.
 Amulakh Amichand & Co.—810, Cotton Exchange Building, Bombay 2.
 Anandilal Hemraj & Co.—Marwari Bazar, Bombay No. 2.
 Anandilal Podar & Co.—Podar Chambers, Parsi Bazar Street, Bombay No. 1.
 Anant Cotton Trading Co.—8-10, Tamarind Lane, Bombay 1.
 Anopchand & Co.—C/o Messrs. Jagmohan Manilal Co., 505, Cotton Exchange, Marwari Bazar, Bombay 2.
 Apollo Mills Ltd.—Standard Building, 346, Dadabhoy Naoroji Road, Fort, Bombay 1.
 Arjan Khimji & Co.—Western India House, Sir Phirozshah Mehta Road, Fort, Bombay 1.
 Asian Cotton & Seeds Co.—Warden House, 2nd floor, Sir P. M. Road, Bombay.
 Ashar, R. D.—10, Bruce Street, Fort.
 Bachhraji & Co., Private Ltd.—Jehangir Wadia Building, 51, Mahatma Gandhi Road, Fort, Bombay.
 Bachhraji Factories Private Ltd.—Jehangir Wadia Building, 51, Mahatma Gandhi Road, Fort, Bombay.
 Bajaj Brothers, Ltd.—Round Building, Kalbadevi Road.
 Bankeylal & Co., R.—2nd Floor, Ranchhoddas Tribhovandas Building, Mumbadevi, Bombay.
 Barkat Ram & Co.—5th Floor, Broacha Building, Princess Street, Bombay.
 Begra Gupta & Co.—1st Floor, 207, Kalbadevi Road, Bombay.
 Begra Khandev.—207, Kalbadevi Road, Bombay 2.
 Beharilal Ramcharan Cotton Mills, Ltd.—Empire of India Life Building, Hornby Road, Fort, Bombay.
 Bhagwandas Harkchand & Co.—602, Cotton Exchange Building, Marwari Bazar, Bombay No. 2.
 Bhagwati Cotton Trading Co.—Raja Bahadur Mansion, 2nd Floor, 20, Hamam Street, Fort, Bombay.
 Bhaldas Cusondas & Co.—Sir Vithaldas Chambers, 16, Apollo Street, Fort, Bombay.
 BHIDAS MAWJI & CO. PRIVATE LTD.—Khandelwal Bhavan, Hornby Road, Fort. Cotton Merchants, Exporters & Importers. Phone: 26-2731. Grams: "BAMAW."
 Bharat Cotton Brokers.—Sonawala Building, 2nd Floor, 59, Apollo Street, Fort, Bombay.
 Bhawanji Lakmidas & Co.—72/80, Masjid Bunder Road, Bombay No. 3.

Bhogilal Menghraj & Co. Ltd.—Shree Ram Mills Premises, Fergusson Road, Parel, Bombay 13.

Billimoria & Co., H. J.—2nd Floor, Room No. 9, Kansara Chawl, 118, Kalbadevi Road, Bombay.

Birla Brothers Private Ltd.—Industry House, 159, Churchgate Reclamation, Bombay 1.

Bombay Co., Private Ltd., The.—9, Wallace Street, Fort, Bombay.

Bombay Cotton Co., The.—Central Bank Building, Esplanade Road, Bombay.

Bombay Cotton Private Limited.—Neptune Building, 104, Apollo Street, Fort, Bombay 1.

Bombay Dyeing & Mfg. Co., Ltd., The.—Neville House, Graham Road, Ballard Estate, Bombay.

Bombay Uganda Co., Ltd., The.—28, Apollo Street, Fort, Bombay.

Bradbury Mills Ltd.—State Bank Building Annexe, Bank Street, Fort, Bombay 1.

Brady, W. H., & Co., Ltd.—Royal Insurance Building, Churchgate Street, Fort.

BREUL & CO.—Taj Bldg., Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone : 263961/3 (3 Lines).

Brijmohan Maroo & Co.—158/164, Kalbadevi Road, 2nd Floor, Bombay.

Central India Spg. Wvg. & Mfg. Co. Ltd., The.—24, Bruce Street, Fort, Bombay.

Century Spg. & Mfg. Co., Ltd., The.—Ground Floor, Queen's Mansions, Prescott Road, Fort, Bombay.

Chaltanyalal & Co.—808, Cotton Exchange Building, Marwari Bazar, Bombay.

Chandulal Kasturchand & Co.—Rooms Nos. 506-507, 2nd Floor, Cotton Exchange Building, Kalbadevi Road, Bombay 2.

Chandulal & Sons.—Botawala Building, Elphinstone Circle, Bombay.

Chatrabhoj Jethabhai & Co.—27, Chinch Bunder Road, Bombay No. 9.

Chenlram Jesraj Cotton Co.—288, Kalbadevi Road, Bombay.

Chhaganlal & Co.—168, Argyle Road, Bhanushali Chambers, Bombay No. 9.

Chimanlal & Co.—C/o Messrs. Gordhandas & Co., Marwari Bazar, Bombay No. 2.

Chimanlal Premchand Shah.—Chapsey Building, Princess Street, Bombay 2.

China Cotton Exporters.—10, Bruce Street, 2nd Floor, Fort, Bombay.

Chiranjilal & Co.—201, Kalbadevi Road, Bombay 2.

Chirawawala Co.—80B, Mahajan Assn. 2nd Floor, Sheikh Memon Street, Bombay 2.

Chunilal Krishnalal & Co.—608, Cotton Exchange Building, Kalbadevi Road, Bombay 2.

Chunilal Mehta & Co., Private Ltd.—Yusuf Building, 2nd Floor, 48, Mahatma Gandhi Road, Bombay 1.

Chunilal Pranjivandas & Co.—Indian Globe Chambers, Bori Bunder, Bombay 1.

Chunilal Tribhovandas Patel.—Uma House, 2nd Fofal Wadi, Bhuleswar, Bombay.

Colaba Land & Mill Co., Ltd., The.—Victoria Bunder, Colaba, Bombay.

Coorla Spg. & Wvg. Co. Ltd.—Readymoney Mansion, Churchgate Street, Fort, Bombay 1.

Cotton Agents, Private Ltd., The.—Industry House, 159, Churchgate Reclamation, Bombay 1.

Cotton & Cloth Ltd.—27, Bastion Road, Fort.

Crown Spg. & Mfg. Co., Ltd., The.—Sir Vithaldas Chambers, 16, Apollo Street, Fort, Bombay.

Dalal Brothers.—C/o Messrs. Motilal K. Dalal & Co., Share Bazar, Fort, Bombay 2.

Damji Khimji & Co.—C/o Messrs. Tulsiaram Gurdasram, 312, Kalbadevi Road, Bombay 2.

Damji Rattanalal & Co.—Poddar Chambers, Parai Bazar Street, Fort.

Darashaw P. Nanavati & Son.—C/o The East India Cotton Association, Ltd., Cotton Green Building, Sewri, Bombay 15.

Dawn Mills Co. Ltd.—State Bank Building Annexe, Bank Street, Fort, Bombay 1.

Debiprasad & Company.—45/47, Apollo Street, Fort, Bombay.

Devidayal Tulsiaram (Cotton Department).—Darukhana, Reay Road, Bombay 10. Phones : 70558-59/73586. Grams : Devisteel.

Devji Bhavanji & Co.—Manu Mansion, 16, Cushion House Road, Fort.

Devsee Khetsee & Co.—Ravji Ghalabhai Wadi, Opp. Derasar, Ghatkopar.

Dhanrajmal Gobindram.—8-10, Tamarind Lane, Fort, Bombay 1.

Drennan & Co.—Neville House, Ballard Estate, Bombay.

Durlabhji Umedchand & Co.—177-79, Kalbadevi Road, 3rd Floor, Laxmi House, Bombay No. 2.

Dwarkanadas & Co. Private Ltd.—2nd Floor, Rajmahal, Opp. Bhuleswar Fire Brigade, Bombay.

Eastern Cotton Co.—Yusuf Building, Mahatma Gandhi Road, Fort, Bombay.

Edward Textiles Ltd.—15, Dougall Road, Ballard Estate, P.O. Box No. 781, Bombay.

Egyptian Cotton Agency.—10, Khatau Mansion, Cooperage, Bombay 1.

Elphinstone Spg. & Wvg. Mills Co. Ltd.—Kamani Chambers, 32, Nicol Road, Ballard Estate, Bombay 1.

Eximport Trading Co.—Queen's Mansion, Bastion Road, Fort, Bombay 1.

Finlay Mills, Ltd., The.—Chartered Bank Building, Fort, Bombay.

Futehally N. & Co.—Heneshaw Building, Bank Street, Fort, Bombay 1.

Gadodia & Son Private Ltd.—239, Kalbadevi Road.

Gill & Co. (Private) Ltd.—Indu House, Dougall Road, Ballard Estate, Bombay 1.

Girdharilal & Co.—C/o Messrs. Liladhar Karasondas & Co., 403, Cotton Exchange, Marwari Bazar, Bombay 2.

Girish & Co.—C/o Messrs. Gordhandas & Co., Manekchand Kapurchand Building, Marwari Bazar, Bombay.

Goculbhai Dolatram & Co.—522, Cotton Exchange Building, 5th Floor, Kalbadevi Road, Bombay 2.

Goraldas Dossa & Co.—2nd Floor, East and West Building, 55, Apollo Street, Bombay.

Goel Bros., & Co., Ltd.—Navsari Chambers, Fort.

Gokak Mills, Ltd., The.—C/o Messrs. F. F. Campbell & Co., Ltd., Forbes Building, Home Street, Fort, Bombay.

Gopaldas & Co.—C/o Messrs. Narandas Dwarakadas & Co., 411, Cotton Exchange Building, 4th Floor, Kalbadevi Road, Bombay 2.

Gordhandas & Co.—Manekchand Kapurchand Building Marwari Bazar, Bombay.

Habib & Sons.—111, Esplanade Road, Bombay 1.

Hansraj Harji & Sons.—118, Kansara Chawl, Kalbadevi Road, Bombay.

Hasmukhlal & Co.—191, Kalbadevi Road, Bombay 2.

Hind Mills Ltd.—Indu House, Dougall Road, Ballard Estate, Bombay 1.

Hindustan Spg. & Wvg. Mills Co., Ltd., The.—Sir Vithaldas Chambers, 16, Apollo Street, Fort, Bombay.

Hirji Bharmal.—27, Chinch Bunder Road, Bombay 9.

Hirji Nensey & Co.—7-11, Elphinstone Circle, Fort, Bombay.

Husein Mussa Virjee & Co.—Sheriff Hassan Building, Khoja Moholla, Bombay 9.

Indermani Pyarelal Gupta & Co.—207, Kalbadevi Road, Bombay.

India Corporation Ltd.—Indian Globe Chambers, Fort Street, Fort, Bombay.

India Cotton Supplies Private Ltd.—Empire House, Hornby Road, Bombay 1.

India United Mills Ltd.—Indu House, Dougall Road, Ballard Estate, Bombay 1.

INTERNATIONAL COTTON CORPORATION, PRIVATE LTD.—Indian Globe Chambers, Fort Street, Bori Bunder. Post Box 1874. Grams : "INTERCOTCO." Phones : 282966 and 282964. Cotton Merchants, Importers and Exporters.

Indian Manufacturing Co. Ltd., The.—Sir Vithaldas Chambers, 16, Apollo Street, Fort, Bombay.

Issardas R. V.—31, Queen's Road, Bombay 4.

Italindia Cotton Co. Ltd.—Indian Globe Chambers, Bori Bunder, Bombay 1.

Jagjivandas Kasturchand & Co.—515, Cotton Exchange, Kalbadevi Road, Bombay No. 2.

Jagjiwan & Co., C. V.—C/o Mr. Champaklal Vadilal, Jagmohan Mansion, Bhatt Wadi, Sandhurst Road, Bombay No. 4.

Jagjivandas Dossabhai & Co., C. V.—C/o Messrs. Narrondass Manordass, 135, Sheikh Memon Street, Bombay 2.

Jagmohan Manilal Co.—Room No. 505, Cotton Exchange, Marwari Bazar, Bombay 2.

Jalram & Company, C.—Gaya Building, 2nd Floor, Masjid Bunder Road, Bombay 3.

Jam Mfg. Co. Ltd., The.—Lalbag, Parel, Bombay.

Jam Shri Ranjitsinghji Spg. & Wvg. Mills Co., Ltd., The.—11, Bank Street, 3rd Floor, Fort, Bombay.

James Finlay & Co., Ltd.—Chartered Bank Buildings, Esplanade Road, Fort, Bombay.

Jamnadas Lakhmidas & Co.—C/o Messrs. Liladhar Karasondas & Co., Agakhan Building, Dalal Street, Fort, Bombay.

Jamnadas Parbhudas & Co.—"Prabhu Bhuvan," Girgaon Back Road, Bombay.

Jamnadas Ruttonsey & Co.—Bell & Co.'s Building, Sir Phirozshah Mehta Road, Fort, Bombay.

Jamshed N. Ratnagar & Son.—C/o Messrs. Breul & Co., Taj Building, Hornby Road, Fort, Bombay.

Jayantlal Thakordas & Co.—Arvind House, New Charni Road, Bombay 4.
 Jivandas Ladha & Co.—Nanjee Building, 3rd Floor, 17B, Elphinstone Circle, Fort, Bombay 1.
 Jivandas Ladha & Co.—17B, Elphinstone Circle, Nanjee Bldg., 3rd Floor, Fort, Bombay.
 Jivraj Motiram & Co.—62, Marwari Bazar, Bombay 2.
 Kalidas & Co.—195, Samuel Street, Bombay 9.
 Kalyanji & Co.—523, Cotton Exchange Building, Kalbadevi Road, Bombay 2.
 Kamala Mills, Ltd.—Kilachand Devchand Bldg., 45-47, Apollo Street, Bombay.
 Karsandas Jivandas.—31, Forbes Street, Fort, Bombay 1.
 Kekushroo & Co.—York Building, Hornby Road, Fort, Bombay.
 Khandesh Spg. & Wvg. Mills Co., Ltd., The.—Cambata Building, 42, Queen's Road, Fort, Bombay.
 Khatau Makanji Spg. & Wvg. Co., Ltd., The.—Laxmi Building, 42, Ballard Pier, Fort, Bombay.
 Khetsay & Co. Private—C/o. Shroff Cooper & Co., Bombay Stock Exchange Building, 3rd Floor.
 Khimji Chheda & Co.—C/o The Berar Mfg. Co. Ltd., Rajabahadur Mansion, 24B, Hamam Street, Fort, Bombay 1.
 Khimji Danji & Co.—4th Floor, Mulji Laxmidas Building, 3, Mint Road, Fort, Bombay.
 Khimji Poonja & Co.—1st Floor, Wadia Building, 19/21, Dalal Street, Fort, Bombay 1.
 Khimji Varam & Co.—192, Kitab Mahal, 2nd Floor, Hornby Road, 2nd Floor, Fort, Bombay 1.
 Khushiram Beharilal & Co.—390, Sheikh Memon Street, Bombay 2.
 Kilachand Devchand & Co., Private Ltd.—45-47, Apollo Street, Fort, Bombay.
 Kishan Prasad & Co., Ltd.—3rd Floor, Jiji House, 15, Ravelin Street, Fort, Bombay No. 1.
 Kishinchand Chellaram.—Gazdar House, Dhobi Talao, Bombay 2.
 Kishor Natverlal & Co.—70, Forbes Street, Fort, Bombay 1.
 Kisonlal Marfatia & Co.—38, Cawasji Patel Street, Fort, Bombay.
 Kohinoor Mills Co., Ltd. The.—Home Street, Fort, Bombay.
 Kotak & Co.—Menkwa Building, Outram Road, Fort, Bombay 1.
 Koverjee V. Currumsey & Co.—Lentini Chambers, Dalal Street, Fort, Bombay.
 Kotak & Company (Calcutta).—Navsari Building, Hornby Road, Bombay.
 Kotecha & Co.—Commissariat Bldg., 231, Hornby Road, Fort, Bombay.
 Kothari Trading Co.—428, Kalbadevi Road, 2nd Floor, Bombay.
 Lakhmehand & Co.—Neptune Building, 166, Hornby Road, Bori Bunder, Bombay.
 Lakhmsey Manek & Co.—R.N. 28, Patwa Chawl, Zaveri Bazar.
 Latchand Nagardas & Co.—606, Cotton Exchange Building, Kalbadevi Road, Bombay.
 Lalji Deokaran & Co.—Deokaran Niwas, Tulsidas Surji's House, 283, Samuel Street, Vadgadi, Bombay No. 3.
 Lalji Naranji & Co.—Ewart House, Tamarind Lane, Fort, Bombay.
 Lalji Ramji & Co.—17, Chinch Bunder Road, Bombay No. 9.
 Lalji Thakersey & Co.—Mulraj Khatau House, 12, Chinch Bunder Road, Mandvi, Bombay No. 9.
 Lalubhai Nagardas & Sons.—Old Stock Exchange Building, Dalal Street, Fort, Bombay, 1.
 Laxmi Cotton Traders.—10, Bruce Street, 2nd Floor, Fort, Bombay 1.
 Laxmidas Madhavji & Co.—Ratnagiri House, Dadyseth 2nd Cross Lane, Chowpatty, Bombay.
 Laxmimal Sakhlecha & Co.—Bharucha Building, 400, Kalbadevi Road, Bombay 2.
 Liladhar Karsondas & Co.—Aga Khan Building, Dalal Street, Bombay.
 Lohia Sultania Company.—Anand House, 158/64, Kalbadevi Road, Bombay 2.
 Loknath Tibrewala & Co.—11, Krishna Bhuvan, Bhuleshwar, Bombay 2.
 Lukhmidass & Co.—24, Elphinstone Circle, Fort, Bombay.
 Madhavdas Amersey & Co.—Feltham House, 10, Graham Road, Ballard Estate, Bombay.
 Madhavalal, S., & Co.—Noble Chambers, Parsi Bazar Street, Fort.
 Mafatlal Gagalbhai & Co. Private Ltd.—Mafatlal House, Back Bay Reclamation.
 Maganlal & Co.—C/o Messrs. Narandas Dwarkadas & Co., 411, Cotton Exchange Bldg., Kalbadevi Road, Bombay.
 Mahendra Mulraj & Co.—31, Forbes Street, Bombay 1.
 Mahipatral Jadavji & Co.—China Building, Masjid Bunder Road, Bombay No. 3.
 Manalal Bhagirathdas & Sons.—C/o Messrs. Laxminarayan Mansukhrai & Co., Govind Chawk, Moolji Jetha Market, Bombay No. 2.

Manilal Patel & Co.—Kamer Building, Cawasji Patel Street, Fort, Bombay 1.
 Manharlal, K., & Co.—19, Chinch Bunder.
 Mehta & Co.—Yusuf Building, 2nd Floor, 43, Mahatma Gandhi Road, Bombay No. 1.
 Mehta & Co., H. M.—Mehta House, Apollo Street, Fort, Bombay.
 Mohanlal Lalubhai & Co.—C/o Mr. Hirachand Dayal, Vithal Sadan, 3rd Floor, Room No. 80/80, 342, Kalbadevi Road, Bombay 2.
 Mohanlal Motilal.—Yusuf Building, Mahatma Gandhi Road, Fort, Bombay 1.
 Mooljee Jaittha & Co.—185, Princess Street.
 Motabhyo Gulabdas & Co.—Bharat House, 104, Apollo Street, Fort, Bombay 1.
 Moolchand Vissonji & Co.—C/o Messrs. Liladhar Karsondas & Co., 9, Dalal Street, Agakhan Bldg., Fort, Bombay.
 Murlidhar & Co.—4th Floor, Madan Mansion, 57-59, Sheikh Memon Street, Marwari Bazar, Bombay No. 2.
 Nanji & Co., C.—406, Cotton Exchange Building, Kalbadevi Road, Bombay 2.
 Nansey & Co., T. H.—7-11, Elphinstone Circle, Fort, Bombay.
 Narandas Dwarkadas & Co.—Cotton Exchange Building, Room No. 411, Kalbadevi Road, Bombay.
 Narandas Rajaram & Co., Ltd.—Navsari Chambers, Outram Road, Fort.
 Narayandas Pokarmal Co.—Bullion Exchange Building, Bombay No. 2.
 Narbheram Naranjee & Sons.—709, Cotton Exchange Building, 7th Floor, Kalbadevi Road, Bombay.
 Narendrakumar R. Kanji & Co.—116, Keshavji Nalk Road, 2nd Floor, Bombay 9.
 Narsee Nagao & Co.—French Bank Building, 62, Hornji Street, Fort, Bombay 1.
 Nathalal Becharadas & Co.—800, Cotton Exchange Building, Marwari Bazar, Bombay, No. 2.
 Nathmal Sonani & Co.—158/64, Anand House, 4th Floor, Kalbadevi Road, Bombay 2.
 Natverlal Chandulal & Co.—Navsari Chambers, Outram Road, Fort, Bombay.
 Navnitlal Chunilal Shah.—37, Marwari Bazar, Bombay.
 Navpush & Co.—37, Marwari Bazar, Bombay 2.
 Nevatia Brothers.—C/o Messrs. Hardayal Nevatia, 3rd Floor, Marwari Chamber Building, 226, Kalbadevi Road, Bombay.
 New City of Bombay Mfg. Co. Ltd.—Brady House, Veer Nariman Road, Fort, Bombay 1.
 New Great Eastern Spg. & Wvg. Co. Ltd.—Brady House, Veer Nariman Road, Fort, Bombay 1.
 Odhavjee Shivjee & Co.—Room No. 8-48, Cotton Green Bldg., Sewri, Bombay No. 15.
 Onkarmal Meghraj & Co.—Bullion Association Bldg., 3rd Floor, Sheikh Memon Street, Bombay 2.
 Parakh & Co. (India) Private Ltd., C.—28, Apollo Street, Fort, Bombay.
 Parmanand Maneklal & Co.—Maskati Mahal, Lohar Chawl.
 Parsram Parmal & Co.—104-114, Frere Road, 7, Sugar Market, Bombay No. 9.
 Patel Brothers.—Elphinstone Building, 10, Churchgate Street, Fort, Bombay.
 Patel Cotton Co. (Private) Ltd.—Elphinstone Building, Veer Nariman Road, Fort, Bombay 1.
 Patel Cotton Co., Ltd., The.—New Cotton Depot, Sewree.
 Pavri, J. K.—10, Karim Chambers, Hamam Street, Fort.
 Phoenix Mills Ltd.—State Bank Building Annexe, Bank Street, Fort, Bombay 1.
 Podar Brothers.—384M, Kalbadevi Road, Bombay 2.
 Podar Mills Ltd., The.—Podar Chambers, Parsee Bazar Street, Fort, Bombay.
 Podar Trading Co., Private Ltd., The.—Podar Chambers, Parsee Bazar Street, Fort, Bombay.
 Poddar & Co., A. M.—32, Rampart Row, Fort.
 Pranjiwandas Dwarkadas & Co.—C/o Messrs. Hariprasad Amritlal's Jetha, Iron Jetha, Carnac Bunder, Bombay No. 3.
 Premchand Trading Ltd.—7, Dhanji Street, Bombay 3.
 Premji Haridas & Co.—Bhanushali Chambers, 168, Argyle Road, Bombay 9.
 Punjab Cloth Mills Ltd.—Bullion Exchange Building, Zaveri Bazar, Bombay 2.
 Purshotam Govindji & Sons.—612, Cotton Exchange, Marwari Bazar, Bombay 2.
 Pyarelal Gupta & Co.—207, Kalbadevi Road, Bombay 2.
 Radhakishan Anandeshwar.—2nd Floor, Bullion Assn. Building, Bombay 2.
 Raghavji Kanji & Co.—116, New Chinch Bunder Road, Bombay.
 Rajnikant & Co., C.—C/o Messrs. Chaitanyalal & Co., 808, Cotton Exchange Building, Kalbadevi Road, Bombay 2.

Ballis India Limited.—21, Ravelin Street, Fort, Bombay.
Bamkandas Sagarmal.—Kalyan Bhuvan, 254, Kalbadevi.
Ramakishan Totia & Co.—Girdhar Jiva Building, 2nd Floor, Bhuleshwar, Bombay 2.
Ramanlal & Sons.—Babulal Mansion, Chowpatty Sea Face, Bombay 7.
Ramkrishna Nandlal.—Wakefield House, 3rd Floor, Sprott Road, Ballard Estate.
Ramchandra Satyanarain.—43, Ram Wadi, 3rd Floor, Bombay 2.
Ramchandra Hanuman & Co.—144-46, Kalbadevi Road, 3rd Floor, Bombay No. 2.
Ramdas Dossa & Co.—Cotton Exchange Building, Kalbadevi Road, Bombay No. 2.
Ramdas Khimji Brothers.—Warden House, 2nd Floor, Sir Pherozshah Mehta Road, Fort, Bombay.
Ramdas Tulidas & Co.—30, Marwari Bazar, Bombay.
Ramdayal Somani & Co.—158-164, Kalbadevi Road, Opp. Cotton Exchange Building, Bombay.
Ramkumar & Co.—C/o Messrs. Basasari Bubbna, 259, Kalbadevi.
Ramnarain Son, Private Ltd.—Imperial Bank Bldg., Bank St., Fort, Bombay 1.
Ramkrishna Perasaram Puri & Co.—Rajmahal, Bhuleshwar, Bombay.
Ramasurup Gupta & Co.—705, Cotton Exchange, Kalbadevi Road, Bombay 2.
Ranchhodas Khimji & Co.—288, Narsi Natha Street, Bombay 9.
Ranchhodas Purshotam & Co.—406, Cotton Exchange, Marwari Bazar, Bombay 2.
Rasiklal Chandrakant & Co.—2nd Floor, Rustom Building, Veer Nariman Road, Bombay 1.
Ratansey K. Khona.—Noble Chambers, 116, Parsi Bazar Street, Fort, Bombay.
Ratlal & Co.—1-3, Bhuleshwar Corner, Bombay.
Raw Cotton Co. Ltd.—111, Mahatma Gandhi Road, Fort.
Robertson & Son, Edward T.—Lakshmi Building, Sir Pherozshah Mehta Road, Fort, P. B. No. 304, Bombay.
Rodocanachi & Co.—Jiji House, 17, Ravelin Street, Fort.
R. Popatlal & Co.—17, Tara Mansion, opp. Rly. Station, Bombay 19.
Ratlal K. Patel.—Sangli Building, Bazar Gate Street, Fort, Bombay 1.
Rustomji Framji & Co.—C/o Messrs. Chatarbhuj Piramal, 60, Marwari Bazar, Bombay.
Sant Ram & Sons Ltd.—77, Meadows Street, Fort.
Satyanarayan Sekhsaria & Co.—19, Bhuleshwar, Bombay 2.
Savaladas Madhavadas.—Prospect Chambers Annexe, Dadabhoi Naoroji Road, Fort, Bombay 1.
Sekhsaria Cotton Mills, Ltd.—139, Meadows Street, Fort, Bombay.
Sethia B. K. (India) Private Ltd.—Himalaya House, Palton Road, Bombay 1.
Shah Sarabhai Hatising.—Maskati Mahal, Lohar Chawl, Bombay 2.
Shobhagchand Jethabhai & Co.—C/o Messrs. Chandulal Kasturchand Shah, 506, Cotton Exchange, Marwari Bazar, Bombay No. 2.
Sholapur Spg. & Wvg. Co., Ltd., The.—Standard Bldg., 346, Hornby Road, Fort, Bombay.
Shree Niwas Cotton Mills, Ltd., The.—DeLisle Road, Parel, Bombay No. 13.
Shree Madhav Mills Ltd.—Fors Road, Bombay 8.
Shree Ram Mills Ltd.—Fergusson Road, Parel, Bombay 13.
Shree Sitaram Mills, Limited.—15A, Elphinstone Circle, Fort, Bombay.
Shroff Cooper & Co.—67, Stock Exchange Building, Apollo Street, Fort, Bombay 1.
Sree Krishna Trading Co., Ltd.—11, All Chambers, Meadows Street, Fort.
Svadeshi Mills Co. Ltd.—Bombay House, Bruce Street, Fort, Bombay 1.
Swadeshi Cotton Mills Co. Ltd.—357, Kalbadevi Road, Bombay 2.
Swan Mills, Ltd., The.—Chartered Bank Building, Esplanade Road, Fort, Bombay.
Tata Mills, Ltd., The.—Bombay House, 24, Bruce Street, Fort, Bombay.
Thakersey Chunilal Parikh & Co.—C/o Messrs. Amulakh Amichand, R. No. 810-811 CTNEXGE.
Tiwari & Co.—15, Bullion Exchange, Bombay No. 2.
Trambaklal Uttarwar & Co.—Bansilal Abirchand Building, 1st Floor, 18, Marwari Bazar, Bombay 2.
Universal Cotton Trading Co., The.—Bombay Mutual Building, Hornby Road, Fort, Bombay.
Vakharia Bros.—R. No. 410, CTNEXGE.
Valji Ladha & Co.—Valji Vardhaman's House, Opp. Police Chowki, 288, Dongri Street, Mandvi, Bombay.
Vallabhdas Dayal & Sons.—E. D. Sassoon Building, Ballard Estate, Fort, Bombay.
Vasoojee Morarjee.—Ewart House, Bruce Street, Fort, Bombay 1.
Vasanji Mavji & Co.—27, Chinch Bunder, Bombay, 9.
Vassanji Sons & Co. Private Ltd.—9, Wallace Street, Fort, Bombay.
Vasantlal & Co., C.—Commissariat Bldg., 5th Floor, 231, D. Naoroji Road, Bombay No. 1.
Vassonji Khimji & Co.—C/o Chandulal Keshavlal Shah, 88, Masjid Road, Bombay No. 9.
Vinaya Trading Co. Ltd.—State Bank Building Annexe, Bank Street, Fort, Bombay 1.
Viram Ladha & Co.—288, Narsee Natha Street, Bombay 9.
Virji Ladha & Co.—57-59, Chinch Bunder Road, Mandvi, Bombay.

Vishindas Pribhdas & Co.—57-59, Madan Mansion, Marwari Bazar, 5th Floor, Bombay.
Volkart Brothers.—Volkart Building, Graham Road, Ballard Estate, Bombay 1.
Vrajlal Purshotam & Brothers.—Yusuf Bldg., 4th Floor, Mahatma Gandhi Road, Fort, Bombay 1.
Vulabhdas Narandas & Co.—C/o Messrs. Govindji Bhanji, 1st Floor, Shanti Bhuvan, Old Hanuman Lane, Bombay.
Western India Spg. & Mfg. Co., Ltd., The.—Sir Vithaldas Chambers, 16, Apollo Street, Fort, Bombay.

COTTON MILLS

Apollo Mills, Ltd.—Agents, Rajputana Textiles (Agencies) Ltd., DeLisle Road, Chinchpokli.
Beharilal Ramcharan Cotton Mills Ltd. (formerly Meyer Mills Ltd.)—Managed by Board of Directors, Empire House, Dr. Dadabhoi Naoroji Road, Bombay. Mills at Fergusson Road, Lower Parel.
Bombay Dyeing & Manufacturing Co., Ltd. (Spring Mills).—Agents, Nowrosji Wadia & Sons Private Ltd., Neville House, Graham Road, Ballard Estate, Bombay. Mills at Naigaum Road, Dadar.
Bombay Dyeing & Manufacturing Co., Ltd. (Textile Mills).—Agents, Nowrosji Wadia & Sons Private Ltd., Neville House, Graham Road, Ballard Estate, Bombay. Mills at Elphinstone Road, Parel.
Bradbury Mills, Ltd.—Agents, Ramnarain Sons, Ltd., State Bank Bldg., Bank Street, Fort. Mills at Ripon Road, Jacob Circle.
Century Spinning & Manufacturing Co., Ltd. (Century Mill and Zenith Mill).—Agents, Birla Bros. Private Ltd., Industry House, 159, Churchgate Reclamation. Mills at Globe Mill Passage, Worli.

TEXTILE DYES & CHEMICALS

Hydros	Sizing Materials
Caustic	Gums
Soda Ash	Dyes
Bleaching Stearine	Fertilizers
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Contact :

THE BHARAT CHEMICALS CO.,

331, Samuel Street, Vadgadi, Bombay-3

Phone : 34401

Grams : "BHARCHEM"

Colaba Textile Private Ltd. (Formerly Colaba Land & Mill Co., Ltd.)—Mg. Director, Mr. V. J. Piliand. Office on Mill premises. Mills at Victoria Bunder, Colaba.
Colaba Land & Mill Co., Ltd. (Jehangir Wadia Mill).—Mg. Director, Mr. V. J. Piliand. Office on Mill premises. Mills at Victoria Bunder, Colaba.
Coorla Spinning & Weaving Co., Ltd.—Secretaries, Treasurers & Agents, Messrs. Cowasjee Jehangir & Co., Private Ltd., 23, Ready-money Mansion, Veer Nariman Road, Mills at Coorla.
Crown Spinning & Manufacturing Co., Ltd. (formerly Dhun Mills).—Secretaries, Treasurers & Agents, Purshotam Vithaldas & Co., Sir Vithaldas Chambers, Apollo Street, Fort. Mills at New Farbhadevi Road, Parel.
Dawn Mills Co., Ltd.—Agents, Ramnarain Sons Ltd., State Bank Bldg., Bank Street, Fort. Mills at Fergusson Road, Lower Parel.
Dhanraj Mills, Ltd. (formerly Assur Virji Mills, Ltd.).—Agents, Ramgopal Ganpatral & Sons, Private Ltd. Office on Mill premises. Mills at Sun Mill Road, Lower Parel.
Digvijaya Spinning & Weaving Co., Ltd. (formerly Dinshaw Petit Mills).—Agents, Jethabhai Khatau & Co. (Agencies) Ltd. Office on Mill premises. Mills at Lalbaug, Parel.
Edward Textiles, Ltd.—Agents, Purnamal Bubbna Sons, Indu House, Dongall Road, Ballard Estate, Fort. Mills at Fergusson Road, Lower Parel.
Elphinstone Spinning & Weaving Mills Co., Ltd.—Managed by Board of Directors, Kanani Chambers, 32, Nicol Road, Ballard Estate, Bombay. Mills at Elphinstone Road, Parel.

Finlay Mills, Ltd.—Agents, James Finlay & Co., Ltd., Chartered Bank Buildings, Fort. Mills at Government Gate Road, Parel.

Gold Mohur Mills, Ltd.—Agents, James Finlay & Co., Ltd., Chartered Bank Building, Fort. Mills at Main Road, Dadar.

Hind Mills Ltd. (formerly David Mills Co., Ltd.) (Mills Nos. 1 and 2).—Agents, Hind Agents Ltd., 15, Indu House, Dougall Road, Ballard Estate, Fort. Mills at Carroll Road, Parel.

Hindcoastan Spinning & Weaving Mills Co., Ltd.—Agents, Thackersey Mooljee & Co., Sir Vithaldas Chambers, Apollo Street, Fort. Mills at Ripon Road, Jacob Circle.

Indian Manufacturing Co., Ltd.—Agents, Damodar Thackersey Mulji & Co., Sir Vithaldas Chambers, Apollo Street, Fort. Mills at Lamington Road, North, Jacob Circle.

India United Mills, Ltd., Mill No. 1 (formerly Jacob Mill).—Agents, Agarwal & Co., Dougall Road, Ballard Estate, Fort. Mills at Suparibaug Road, Parel.

India United Mills Ltd., Mill No. 2 (formerly Alexandra Mill).—Agents, Agarwal & Co., Dougall Road, Ballard Estate, Fort. Mills at Ghorupdeo Road, Chinchpokly.

India United Mills Ltd., Mill No. 3 (formerly E. D. Mill).—Agents, Agarwal & Co., Dougall Road, Ballard Estate, Fort. Mills at Ghorupdeo Road, Chinchpokly.

India United Mills, Ltd., Mill No. 4 (formerly Rachel Mill) (formerly Hongkong Mills).—Agents, Agarwal & Co., Dougall Road, Ballard Estate, Fort. Mills at Chinchpokly Road, Kalachowki.

India United Mills, Ltd., Mill No. 5 (formerly Manchester Mill).—Agents, Agarwal & Co., Dougall Road, Ballard Estate, Fort. Mills at Chinchpokly Cross Lane, Kalachowki.

Jam Mfg. Co., Ltd., Mill No. 1.—Secretaries, Treasurers and Agents, Tricunddas Vandrayan & Co. Office on Mill premises. Mills at Laibaug, Parel.

Jam Mfg. Co., Ltd., Mill No. 2 (formerly Birla Mills, Ltd. No. 2).—Secretaries, Treasurers & Agents, Tricunddas Vandrayan & Co., Lal Baug, Parel. Mills at Tokersey Jivraj Road, Sewree.

Jubilee Mills, Ltd.—Secretaries, Treasurers and Agents, Chamanlal Mehta & Co. Private Ltd., Bharat House, Apollo Street, Fort. Mills at Tokersey Jivraj Road, Sewree.

Kamala Mills, Ltd. (formerly Ebrahimbhoy Pabaney Mills).—M. L. Tapuria, Esq., Director. Office: Kilachand Devchand Building, Apollo Street, Fort. Mills at Tulsi Pipe Road, off DeLisle Road.

Khatau Makanji Spinning & Weaving Co., Ltd.—Agents, Khatau Makanji & Co., Ltd., Laxmi Buildings, 6, Ballard Pier, Fort. Mills at Haines Road, Byculia.

Kohinoor Mills Co., Ltd., Mill Nos. 1, 2 & 3.—Agents, Killick Industries, Ltd., Killick Building, Home Street, Fort. Two Mills at Naigsum Cross Road, Dadar, and third at Lady Jamshedji Road, Dadar.

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84, Kazi Sayed Street, Bombay 3.

Phone: Office: 34753. Factory: 60380. Grams: "LOVJIT"

Factory:

PANCHSHILA Pulverising Mills, Plot No. 4, Messent Road, Sewree (East), Bombay 15.

Modern Mills, Ltd., Mill No. 1 (formerly Mysore Spinning & Manufacturing Co., Ltd. No. 2).—Agents, N. Sirur & Co., Ltd., Temple Bar Building, 70, Forbes Street, Fort. Mills at Elphinstone Road, Parel.

Modern Mills, Ltd., Mill No. 2 (formerly Bomanji Petit Mills).—Agents, N. Sirur & Co., Ltd., Temple Bar Building, 70, Forbes Street. Mills at Mahalaxmi.

Moon Mills, Ltd.—Managed by Board of Directors, General Assurance Building, Hornby Road, Fort. Mills at Tokersey Jivraj Road, Sewree.

Morarjee Goculdas Spinning & Weaving Co., Ltd.—Agents, Messrs. Piramal & Sons. Office on Mill premises. Mills at Suparibaug Road, Parel.

New City of Bombay Manufacturing Co., Ltd.—Agents, W. H. Brady & Co., Ltd., Brady House, 12-14, Vir Nariman Road, Fort. Mills at 63, Chinchpokly Road.

New Great Eastern Spinning & Weaving Co., Ltd.—Agents, W. H. Brady & Co., Ltd., Brady House, 12-14, Vir Nariman Road. Mills at Victoria Gardens Road, Chinchpokly. Spindles: 49,012 and Looms 1,018.

New Kaiser-I-Hind Spinning & Weaving Co., Ltd.—Lala Kallanpat Singhania, Managing Director, J. K. Building, Dougall Road, Ballard Estate, Bombay. Mills at Ghorupdeo Road, Chinchpokly.

New Pralhad Mills (formerly Planet Mills).—Proprietors, Amrit Banaspati Co., Ltd., East and West Building, Apollo Street, Fort. Mills at Ferguson Road, Lower Parel.

Phoenix Mills, Ltd. (formerly Britannia Mills).—Agents, Ramnarain Sons, Ltd., State Bank Building, Bank Street, Fort. Mills at Tulsi Pipe Road, Lower Parel.

Podar Mills, Ltd. (formerly Toyo Podar Cotton Mills, Ltd.).—Agents, Podar Sons Ltd., Podar Chambers, Farsee Basar Street. Mills at DeLisle Road.

Prakash Cotton Mills Private Ltd. (formerly Sekaria Cotton Mill No. 2).—Managed by Board of Directors, Sekaria Chambers, 139, Meadows Street, Fort. Mills at Ferguson Road, Lower Parel.

RAGHUVANSHI MILLS, LTD.—11-12, Haines Road, Mahalaxmi, Bombay 13. Mg. Agents, Ravindra Maganlal & Co. Private Ltd. Office on Mill premises. Mills at Haines Road, Mahalaxmi, Bombay 13. Phone: 76291/2/3. Grams: "Raghubir." Spindles: 33,160; Cotton Looms: 119; Art Silk Looms: 144; Manufacturers of Cotton yarn and cloth and Art Silk Fabrics.

Ruby Mills, Ltd. (formerly Sorab Mills).—Agents, Chunilal Jeewandas & Co. Office: 49-55, Apollo Street, Fort. Mills at Woollen Mill Gully, Lady Jamshedji Road, Dadar.

Sassoon Spinning & Weaving Co., Ltd.—Agents, M. G. Investment Corporation Ltd., Mafatal House, Back Bay Reclamation, Bombay. 1. Sassoon Mills, at Mount Estate, Mazagon. Spindles: 60,784 and Looms 1,254. 2. New Union Mills, Lower Parel.

Sekaria Cotton Mills, Ltd., Mill Nos. 1 & 1A (formerly Currimbhoy and Mohamedbhoy Mills).—Managed by Board of Directors, 139, Meadows Street, Fort. Mills at DeLisle Road.

Shree Madhav Mills Ltd. (formerly Madhavji Dharamal Mfg. Co., Ltd.).—Agents, Purnamal Radhakishan & Co., Office on Mill premises. Mills at Foras Road.

Shree Madhusudan Mills.—Proprietors, Messrs. Hall & Anderson Ltd., Shreenivas House, Waudby Road, Fort, Bombay. Mills at Globe Mills Passage, DeLisle Road, Bombay 13.

Shree Nivas Cotton Mills, Ltd. (formerly Fasulbhoy Mills, Ltd.).—Agents, The Marwar Textiles (Agency), Ltd. Shreenivas House, Waudby Road, Fort, Bombay. Mills at DeLisle Road.

Shree Ram Mills, Ltd. (formerly Crescent Mills, Ltd.).—Agents, Bhoglal Menghraj & Co., Ltd. Office on Mill premises. Mills at Ferguson Road, Lower Parel.

Shree Sitaram Mills Ltd. (formerly Sir Shapurji Broacha Mills Ltd.).—Managed by Board of Directors. 15A, Elphinstone Circle, Fort. Mills at DeLisle Road.

Sayaji Mills Ltd.—Props., Kathwada, Ahmedabad. Sayaji Mills No. 2 (formerly Hirjee Mills, Ltd.).—Mills at Ferguson Road, Lower Parel.

SIDHPUR MILLS CO. LTD.—32/34, Nakhoda Street, Pydhonie, Bombay 3. Mg. Agents: Maganlal Parbhudas & Co. Mills at Sidhpur (N.G.), Bombay. Office: 32/34, Nakhoda Street, Pydhonie, Bombay 3. Phone: 29700. Grams: "RAVIVIR". Spindles: 28,800, Looms: 406. Manufacturers of Cotton & Staple Yarn and Cotton Piecegoods.

Simplex Mills Company, Ltd.—Agents, Forbes, Forbes Campbell & Co., Ltd., Forbes Building, Home Street, Fort. Mills at Clerk Road, Jacob Circle, Byculia.

Standard Mills Co., Ltd.—Agents, Mafatal Galgalbhai & Sons, Mafatal House, Back Bay Reclamation, Bombay. 1. Standard Mills at Parbhadevi Road, Lower Parel. Spindles: 54,796 and Looms 16,332. New China Mills at Sewree.

Svadeshi Mills Co., Ltd.—Agents, Tata Industries, Ltd., Bombay House, 24, Bruce Street, Fort. Mills at Kuria.

Swan Mills, Ltd.—Agents, James Finlay & Co., Ltd., Chartered Bank Building, Hornby Road, Fort. Mills at New Sewree Road.

Swastik Textile Mills Ltd.—Managing Agents: Messrs. P. Kashinath & Co., Dubash Market, Sheikh Memon Street, Bombay. Mills at Ferguson Road, Lower Parel.

Tata Mills, Ltd.—Agents, Tata Industries, Ltd., Bombay House, 24, Bruce Street, Fort. Mills at Dadar Road.

Victoria Mills Ltd. (formerly Satya Mill, Ltd.).—Agents, Mangaldas Mehta & Co., Private Ltd., Bharat House, Apollo Street, Fort. Mills at DeLisle Road, Parel.

Western India Spinning & Manufacturing Co., Ltd.—Agents, Thackersey Moolji Sons & Co., Sir Vithaldas Chambers, Apollo Street, Fort. Mills at Kalachowki Road, Chinchpokly.

COTTON PIECEGOODS EXPORTERS

Ahmed Ebrahim Bros.—88, Chudka Street, Bombay 3.
 Allied Exporters.—Kumud House, 267, Dr. Dadabhoi Naoroji Road, Fort, Bombay.
 Arthur Import Export Co.—166, Hornby Road, Fort, Bombay.
 Phone: 83076. Grams: "FABYARN."
 Arvinda Trading Co. Private Ltd.—105, Apollo, Street, Fort.
ASIAN TRADING CORPORATION.—1-A, Nasir Building, Calcutta Street, P.O. Box 1866, Bombay 1. Phone: 282578.
 Grams: "AJIPES." Exporters of Cotton-Piecegoods.
 Askay & Co. Ltd.—Great Social Building, Sir Phiroozshah Mehta Road, Fort, Bombay.
 Baji Brothers Ltd.—Round Building, Kalbadevi Road, Bombay 2.
 Beardsell, W. A., & Co., Ltd.—15-16, Sir Phiroozshah Mehta Road, Fort.
 Begra Gupta & Co.—Niru Villa, 387, Linking Road, Khar.
 Bhagwandas Chatrabhuj & Co.—20, Hamam Street, Fort.
 B. Naraindas & Co.—Court House, Carnac Road, Bombay 2.
 Bulchand, Co., L.—Moos Building, 810, Kalbadevi Road.
CAWASJI MANCHERJI KAPADIA & SONS.—241-43, Shethi Meman Street, Fort, Kalbadevi.
 Chimanlal Patel & Co.—174, Hornby Road, Fort.
 Chinobhai & Bros., Ltd.—Churchgate House, Churchgate Street, Fort.
 Consolidated Trading Corporation.—Advani Chambers, Sir Phiroozshah Mehta Road, Bombay 1.
 Devidas Mulji Kapadia.—Yusuf Building, Hornby Road, Fort.
 Dilaj & Co.—20, Hamam Street, Fort.
 Dinanath Sons.—466, Kalbadevi Road, Bombay 2.
 D. Ram & Co.—Krishna Nivas, New Silk Bazar, P.O. Box 2376, Bombay 2.
 D. I. KANIA.—J. Stadium House, Veer Nariman Road, Bombay 1. Phone: 37218 (Office), 38298 (Res.). Grams: "PENCIL."
 Sole Export Representatives: The Ahmedabad New Cotton Mills Co. Ltd., and the Asoka Mills Ltd., Ahmedabad.
 Gore & Co.—Great Social Building, Sir Phiroozshah Mehta Road, Fort.
 Govias (India) Ltd.—Bombay Mutual Building, Hornby Road, Fort.
 Haji Ahmed Husan & Co.—Topiwala Mansion, Mohamedally Road, Bombay 3.
 Harilal Manilal & Co.—346, Kalbadevi Road, Bombay 2.
 Hassaram, K., & Co.—New Silk Bazar, Kalbadevi Road.
 Hazarat & Co.—Warden House, Sir Phiroozshah Mehta Road, Fort.
 Himatlal Manilal & Sons.—346, Kalbadevi Road, Bombay 2.
HIND TRADING CO.—226, Kalbadevi Road, Bombay 2. Phone: 28620. Grams: "HISCO." Exporters of Cotton and Art Silk piece goods, Yarn, Chemicals, Oils, Oilseeds, Oilcakes, Pulses, Grains, Sundries, etc. Importers of Hardware, Motor parts & Accessories, Cycles & Parts, Art Silk Piecegoods & yarn, Chemicals, etc.
 Hindustan Export & Import Corp. Ltd.—Albert Building, Hornby Road, Fort.
 Hoosen, M. A., & Bros.—Lakshmi Building, Sir Phiroozshah Mehta Road, Fort.
 India Textile Agencies.—Noble Chambers, Parai Bazar Street, Fort.
INDIAN ART MUSEUM PRIVATE LTD.—Carnac Bridge, Bombay 3. Phone: 20726. Grams: "INDARTMUSE."
 Italindia Cotton Co., Ltd. (Estd. 1922).—Indian Globe Chambers, Fort Street, Fort, Bombay.
 Jannadas Nanjee Mangrolwala.—83-85, Bazaar Gate Street, Fort.
 Jasawala & Co., R. M.—105, Apollo House, Apollo Street, Fort.
JAYANT TRADING CO.—Sir Vithaldas Chambers, Apollo Street, Fort. Exporters & Importers and Cotton Merchants. Phone: 283018. Grams: "SEACHWAY."
 Jeeanglal V. Shah.—Dwarkesh Gully, 1st Floor, Mulji Jetha Market, Bombay 2.
KANTILAL SANGHEVI & CO.—Mherwan Building, Sir Phiroozshah Mehta Road, Fort. Phone Nos. 283041. Residence: 28188. Grams: "EXPIM."
 Kapadia & Co.—10, Sir Phiroozshah Mehta Road, Fort, Bombay.
 Kapadia Trading Co.—Botawalla Building, New Silk Bazar, Kalbadevi Road.
KESHAVALAL TALAKCHAND (PRIVATE) LTD.—India House, Opp. G.P.O., Fort, Bombay 1. Phone: 282334. Grams: "CHANDRODAY." Branches at Ahmedabad, Sholapur, Coimbatore, Madras and Salem. Agencies at London, Manchester, and Addis Ababa.
 Kimatral & Co., G.—New Silk Bazar, Bomanji Master Road, Bombay 2.
 Kishinchand Chellaram.—Gusder House, Dhobi Talao.
 Kofak & Co.—Navsari Building, Dr. Dadabhoi Naoroji Road, Fort, Bombay.
 Kotecha & Co.—Commissionariat Building, 231, Hornby Road, Fort.
 K. Metharam.—491-B, Kalbadevi Road.
 Krishna Corporation (Bombay) Ltd.—Nankee Building, 17-B, Ephinstone Circle, Fort.
 Mansukhlal Kantilal & Co.—Mulji Jetha Building, 185, Princess Street, Bombay 2.

Mata Lachmi Company.—Husseni Chambers, Nanabhai Lane, Fort.
MOTIWALLA & SONS PRIVATE LTD.—81, Mohamedali Road, Rangoonwala Building, Bombay 3. Exporters of Cotton Piecegoods and Yarn of all kinds of textile goods.
 Mulraj G. Dungansey & Co., Ltd.—21, Forbes Street, Fort, Bombay 1.
NAKIMPEK TRADERS.—24, Veer Nariman Road, Bombay 1. Phone: 281681, 288966. Grams: "NAKIMPEK".
 Narandas Bajaram & Co., Ltd.—Navsari Chambers, Outram Road, Fort.
 Patel, P. B., & Co., Ltd.—Mherwan Building, Sir Phiroozshah Mehta Road, Fort.
 Podar Trading Co., Ltd.—Podar Chambers, Parai Bazar Street, Fort.
 Poonjajee J. M. Jehanjir, J. P.—Byramji Mansion, Sir Phiroozshah Mehta Road, Fort, Bombay.
 Premji Haridas & Co.—Bhanushali Chambers, Argyle Road, Bombay 9.
RAJMAL PEARCHAND.—81, Dadajee Dhackjee Bldg., Worli, Bombay 18. Phone: 75282. Grams: "RANIVOILE".
 Exporters & Importers of all Varieties of Cotton & Rayon Textiles and Yarns.
 Ramdas Khimji Bros.—Warden House, Sir Phiroozshah Mehta Road, Fort.
 Ramjee Samjee Virani (India) Ltd.—185, Bazargate Street, Fort.
 Ramchand Ambram.—Above Govind Chowk, M. J. Market, Bombay 2.
 Rowe & Rowe.—381, Hornby Road, Fort.
 Seabee Export Import Co.—9, Waudby Road, Fort. Phone: 24678.
 Shree Krishna Trading Co., Ltd.—11, All Chambers, Meadows Street, Fort.
 Steel Brothers & Co., Ltd.—Allahabad Bank Building, Apollo Street, Fort.
SUDAN TRADING CO.—Dhan-Nur, Sir Phiroozshah Mehta Road, Bombay 1. Phone: Office: 282788; Res.: 62089. Grams: "VANSOBER".
 Tarachand Paruram.—Court House, Carnac Road, Bombay 2.
 Tavarai Brothers.—Dhan-Nur, Sir Phiroozshah Mehta Road, Fort.
 Todl & Co.—41, Hamam Street, Fort, Bombay.
 Trading Co., L. R.—Navsari Chambers, opp. Lloyds Bank, Fort.
TRANS-UNION COMMERCIAL CORPORATION PRIVATE LTD.—Prospect Chambers Annexe, 319, Dr. Dadabhai Naoroji Road, Fort, Bombay. Grams: "TRANSMETER." Phone: 281610.
 Trinity Industrial Corporation.—Khandelwal Bhavan, 166, Dr. Dadabhai Naoroji Road, Fort, Bombay 1.
 Tulsidas V. Patel.—Morarji Goculdas Market, Kalbadevi Road, Bombay 2.
 T. Vrajaji & Co.—405, Kalbadevi Road, Bombay 2.
 Utomai & Asudamal Co.—Bombay Mutual Annexe, Gunbow Street, Fort.
 Valibhai Kurnuddin.—101, Abdul Rehman Street, Bombay 3.
 Vawani (India) Ltd.—496, Kalbadevi Road, Bombay 2.
 Velji Kalidas & Sons.—90-92, Khand Bazar, Mandvi, Bombay 3.
 Windmere (India) Ltd.—Sir Vithaldas Chambers, 16, Apollo Street, Bombay.
 Yacoub Ahmed Brothers. (ESTD. 1895).—Topiwala Mansion, Mohamedali Road.

COTTON PIECEGOODS IMPORTERS

Allied Exporters.—Kumud House, 267, Dr. Dadabhoi Naoroji Road, Fort, Bombay.
 Arthur Import Export Co.—166, Hornby Road, Fort, Bombay.
 Phone: 83076. Grams: "FABYARN."
 Kapadia & Co.—19, Sir Phiroozshah Mehta Road, Bombay 1.
 Mahendralal, B.—Muljee Jetha Market, Dwarkesh Gully, Bombay 2.
 Cotton, Woollen and Art Silk and Piece-goods, Merchants and Importers.
 Windmere (India) Ltd.—Sir Vithaldas Chambers, 16, Apollo Street, Bombay.

COTTON AND YARN MERCHANTS

Amersey & Sons.—Feltham House, Ballard Estate.
 Askay & Co. Ltd.—Great Social Building, Sir Phiroozshah Mehta Road, Fort, Bombay.
 Associated Services, Ltd.—All Chambers, Meadows Street, Fort.
 Bhaldas Cursonadas & Co.—Sir Vithaldas Chambers, 16, Apollo Street, Fort.
 Bhaldas Mawji & Co., Ltd.—Neptune Building, 166, Hornby Road, Fort.
 Bombay Co., Ltd.—9, Wallace Street, Fort.
 Bombay Import & Export Agency.—Cama House, opp. Lloyds Bank, Hornby Road, Fort.
 Breul & Co.—Taj Building, Hornby Road, Fort.
 Champaklal B. Sheth.—Khetwadi 9th Lane, Bombay 4.

Chimanlal Mohanlal & Co.—Hanuman Building, Tamba Kanta, Pydhownie.
 Chinubhai Madhowlal & Co.—Noble Chambers, Parsi Bazar Street, Fort.
 Drennan & Co.—Neville House, Currimbhoy Road, Ballard Estate.
 Finlay, James, & Co., Ltd.—Mahatma Gandhi Road, Fort.
 Gill & Co.—E. D. Sassoon Building, Dougall Road, Ballard Estate.
 Goculdas Dossa & Co.—55, Apollo Street, Fort.
 Greaves Cotton Co., Ltd.—1, Forbes Street, Fort.
 Haji Jiva Haji Khamisa & Co.—119-139, Tamba Kanta, Mumbadevi Road.
 Hanaraj Harji & Sons.—118, Kansara Chawl.
 Hirji Nemesy & Co.—Horniman Circle, Fort.
 Jassawalla, R. M., & Co.—105, Apollo Street, Fort.
 Jaybharat Yarn Trading Co.—77, Tamba Kanta, Bombay 3.
 Kanji Shivji & Co.—Cotton Exchange, Sewree.
 Khimji Viam & Sons.—Kitab Mahal, Hornby Road, Fort.
 Kishachand Devchand & Co., Ltd.—45/47, Apollo Street, Fort.
 Kishinchand Chellaram.—Gusdar House, Dhobi Talao.
 Kooveryjee V. Curumsey & Co.—Lentin Chambers, Dalal Street, Fort.
KOTAK & CO.—Navsari Building, Dr. Dadabhai Naoraji Road, Fort, Bombay. Grams: "KOTAKANDCO." Phone Nos. 263331-263332-263333, 263334, 263335.
 Lalji Ramji & Co.—17, Chinch Bunder, Mandvi.
 Louis Dreyfus & Co.—Nicol Road, Ballard Estate.
 Madhavdas Amersey & Co.—Oriental Building, Mahatma Gandhi Road.
 Motabhai Gulabdas & Co.—Mubarak Mansil, 104, Apollo Street, Fort.
 Nanji V. Dossa & Co.—Jan Mansion, Sir Phirozshah Mehta Road.
 Patel Brothers.—Elphinstone Building, 10, Churchgate Street, Fort.
 Patel Cotton Co., Ltd., The.—New Cotton Depot, Sewree.
 Patuck Sons & Co.—Isamali Building, Hornby Road, Fort.
 Pavri Sons & Co.—95-97, Basargate Street, Fort.
 Raghavji Kanji & Co.—116, New Chinch Bunder Road.
 Ralli Brothers, Ltd.—21, Ravelin Street, Fort.
 Ramkisandas Sagarmal.—Kalyan Bhuvan, 854, Kalbadevi Road.
 Ratilal Dayabhai Shah.—Tambakanta, Pydhownie, Bombay 3.
 Raw Cotton Co., Ltd.—111, Mahatma Gandhi Road, Fort, Bombay.
 Robertson & Son, Edward T.—Lakhami Building, Sir Phirozshah Mehta Road, Fort.
 Senkalchand G. Shah & Co.—Hanuman Building, Tamba Kanta, Sapt Textile Products (India) Ltd.—J. K. Building, Dougall Road, Ballard Estate.
 Sarabhai & Sons.—Prospect Chambers, Hornby Road, Fort.
 Sarupchand Prithiraj & Co.—401, Cotton Exchange Building, Kalbadevi Road.
 Sassoon, David & Co., Ltd.—Maneckji Wadia Building, 125, Mahatma Gandhi Road, Fort.
 Sassoon, E. D., & Co., Ltd.—E. D. Sassoon Building, Dougall Road, Ballard Estate.
 Sewaram Girdharilal.—354, Kalbadevi Road.
 Shewakram & Sons, K.—Next to Kalbadevi Post Office, P. O. Box 2344, Bombay.
 Spinner, E., & Co.—8, Tamarind Lane, Fort.
 Sulaman & Co., Ltd.—27, Kolse Moholla.
 Todi & Co.—41, Hamam Street, Fort.
 Vaddal Dolatram & Sons.—14, Hanuman Building, Tamba Kanta, Pydhownie.
 Virji Ladha & Co.—19, Chinch Bunder.

COTTON WASTE

ADAMJI & CO.—141, Tank Street, Bombay 8. Phone: 71245. Grams: "WASTESTORE." Cotton Waste and Cotton rags merchants.
 Adamji Lookmanji & Co.—Rahimtools House, Hornji Street, Fort.
 Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.
 Bajaj Brothers Ltd.—Round Building, Kalbadevi Road, Bombay 2.
 Brady, W. H. & Co., Ltd.—Churchgate Street, Fort.
 Chunnilal & Co.—100, Old Hanuman Lane, Bombay 2. Grams: "COTONWASTE."
 Hardare & Co., J.—Himalaya House, Paltan Road, Bombay 1.
 Jaashwantlal Maneklal & Co.—40, Churchgate Street, Fort.
 Jehangir J. M. Poonjilajee.—Sir Phirozshah Mehta Road, Fort.
 Kotak & Co.—Navsari Building, Dr. Dadabhai Naoraji Road, Fort, Bombay.
 Kotecha & Co.—Commissariat Building, 231, Hornby Road, Fort.
 Premji Haridas & Co.—Bhanushali Chambers, Argyle Road, Bombay 9.
SAPT TEXTILE PRODUCTS (INDIA) PRIVATE LTD.—Sapt Building, Graham Road, Ballard Estate.
 Velji Kalidas & Sons.—90-92, Khand Bazar, Mandvi, Bombay 3.
 Windmere (India) Ltd.—Sir Vithaldas Chambers, 16, Apollo Street, Bombay.

CROCKERY

Bawa Crockerles Ltd.—89, Mohamedali Road, Bombay.
 Bombay Potteries & Tile Ltd.—Pipe Road, Kuria, Bombay.
 Currimbhoy, L., & Co.—156, Chakia Street, Bombay 3.
 Dossa, S. R., & Co.—186, Sherif Devji Street (Chakia), Bombay 3. Phone: 39248.
 Kanthawala, N., & Co.—77, Meadows Street, Fort.
 Matani Bros.—84, Mahomedally Road, Bombay 3.
 Moosa Omar & Co.—Junction of Mahomedally Road & Carnac Road.
 Saify Glass Palace.—Ebrahim Building, Mahomedally Road.
 Salemahomed Fadamee & Co.—401, Sherif Devji Street, Bombay 3.
 Shivji, K. S., & Co.—144/146, Chakia Street, Bombay 3.
 United Glass Works.—111, Bhandari Chakia Street, Bombay 3.

CRUCIBLE MANUFACTURERS & DEALERS

BOMBAY TOOLS & HARDWARE MART.—123, Narayan Dhuru Street, Bombay 3. Grams: "BOTAPS." Importers and Stockists of "MORGAN'S" English and German Crucibles.
 Chokai Brothers.—315, Sandhurst Road, Bombay 4.
CHOKSI & Co.—324 (Parekh Hospital), Sardar Vallabhai Patel Road, Bombay 4. Grams: "DOTRYWILL." Electroplating & Polishing Materials, Salts, Emery Powders, Chemicals, etc.
INDIAN CRUCIBLE CO., THE.—Manufacturers of highly Refractory Crucibles. Head Office: A/9/252, Sardar Vallabhbhai Patel Road, Bombay 4. Phone: 71536. Grams: "RUSTPROOF." Factory at 4, Ghedbunder Road, Malad. Phone: 84135.
 K. B. Ghandhi & Co.—277, Sardar Vallabhbhai Patel Road, Bombay 4. Phone: 70803.
KIRTILAL & COMPANY.—31, Bibijan Street, (Barbhail Mohalla), Bombay 3. Phone: 23572. Grams: "PIPE-WRENCH." Direct Importers & Stockists of Morgan Super Crucibles.
KIRTILAL NANALAL & CO.—54, Bibijan Street (Barbhail Mohalla), Bombay 3. Phone: 27587. Grams: "CHAINLOCK."
NADIRSHAW BURJORJI & SONS.—47, Abdul Rehman Street, Bombay 3. Phone: 20930.
P. RATILAL & CO.—43, Dhanji Street, Moti Mahal, Bombay 3. Phone: 32700. Grams: "ETERNAL."
 The Laxmi Trading Co.—274, Sardar Vallabhbhai Patel Road, Bombay 4.

CURIO DEALERS

CARPETS PALACE.—Opp. Tajmahal Hotel, Mereweather Road, Bombay 1. Exporters, Brases, Ivory & Wood Carvings, Carpets & Rugs and all other Indian Handicrafts.
 Chinese Museum.—Radio House, Apollo Pier Road, Fort.
"DECORA" RAVAL TILES & MARBLE PRIVATE LTD.—Edena, 97-A, Queen's Road. Phone: 242310.
 Eclipse Jewellery & Curio.—Next to Regal Cinema, Museum.
 Grand Bazar.—25, Colaba Causeway, Bombay 1.
 Hotchand Motumal.—331, Hornby Road, Fort.
INDIAN ART MUSEUM PRIVATE LTD.—Carnac Bridge, Bombay 3. Phone: 20726. Grams: "INDARTMUSE."
 Indian Arts Emporium.—Bombay Mutual Annexe, 2-C, Cawasji Patel Street, P.O. Box No. 1716, Fort, Bombay.
 Kashmir Govt. Arts Emporium.—Sir P. M. Road, Bombay 1.
 Maganlal N. Maniar.—63, 3rd Bhoiwada, Bombay 2.
 M. Dialdas & Sons.—190, Princess Street.
 Puraram, U. N.—Standard Building, 336, Hornby Road, Fort.
 Sharda Stores.—104-106, Swadeshi Market, Kalbadevi Road.

CUTLERY MFRS. & MERCHANTS

Abdulkayum Esufally & Bros.—193, Abdul Rehman Street.
 Alladin Dhanji.—Vithal Sayana Building, Lohar Chawl.
 Bawa Crockerles, Ltd.—89, Mohamedali Road, Bombay 3.
 Dossa, S. R., & Co.—186, Sherif Devji Street (Chakia), Bombay 3. Phone: 39248.
EBRAHIM ALLIBHOY & SONS (Estd. 1934).—Importers and Exporters, 280-44, Abdul Rehman Street, Bombay 3. Phone: 38863.
 Esmail, M.—Esmali Building, Sutar Chawl, Bombay 2.
 Esmail Tarmohamed & Bros.—222, Cutlery Bazar.
 Esufally Rahimbhoy.—205, Cutlery Bazar, Bombay 3.
 Grand Bazar.—25, Colaba Causeway, Bombay 1.
 Haji Ahmed Mohamed & Co.—219, Cutlery Bazar.
 Hamir Jamal & Co.—Showroom: 14/16, Lohar Chawl, Bombay 2.
 Jafferjee Kamrudin.—91-93, Bhursari Moholla, Bombay 8.

Jhaveri Bros. & Co.—345-49, Abdul Rehman Street.
 Latham Abercrombie & Co. Private Ltd.—Forbes Building, Home, Street, Fort.
 Mahomedally Easoffbhoy Kaderbhoy Motiwala.—88, Sarang Street, Bhnsari Mohalla, Bombay 2.
 Manseta, N., & Bros.—165, Lohar Chawl, Fort.
 Mansukhlal Kantilal & Co.—185, Mulji Jetha Building, Princess Street.
 Matani Bros.—84, Mohamedali Road, Bombay 2.
 Mohamedally Abdullahi.—75-77, Bhnsari Mohalla, Bombay 2.
 Moosa Essa & Co.—Corner, Kalbadevi Road, 6, Maniar Building, Pydhowne Tram Junction, Bombay 3.
 New India General Stores.—33, Meadows Street, Fort, Bombay.
PEARL METAL WORKS.—20, Wadi Bunder Road, Mangano, Bombay 10. Phone: 73800. Grams: "PEARLWORKS." Manufacturers of "PEARL" Brand Stainless Steel Spoons and other Cutlery items.
 Salemahomed Padamsee & Co.—141, Chukia Street, Bombay 2.
 Sanghani & Co.—178-80, Abdul Rehman Street.
 S. G. Kothari & Co.—88-90, Abdul Rehman Street, Bombay 3.
 Shaikh & Co.—94, Ali Umar Street, Bombay 3.
 Shivji, K. S., & Co.—144-46, Sherif Devji Street, Bombay 3.

CYCLES AND CYCLE ACCESSORIES DEALERS & IMPORTERS

A. M. Daisy & Co.—Princess Street, Bombay 2.
 Advance Trading Corporation.—Hathi Building, Bhangwadi, Kalbadevi Road, Bombay 2.
 Agarwal Traders.—Vasantwadi, Bombay 2.
 Allied Exporters.—Kumud House, 287, Dr. Dadabhoy Naoraji Road, Fort, Bombay.
 Allied Industries Producers.—Orient Hotel Building, opp. Crawford Market, Fort.
 Ashok Overseas Trading Co. Ltd.—543, Kalbadevi Road, Bombay 2.
 Bharat Commercial Co. of Lahore.—103/4, Meadows Street, Bombay 1.
 Bharat Cycle Co.—Bharucha Bldg., Princess Street, Bombay 2.
 Bharat Cycle Importing Co.—Kalbadevi Road, Bombay 2.
 Bharat Motor Co.—298, Vithalbhaji Patel Road, Bombay.
 Bombay & Calcutta Cycle Co.—413-G, Vasantwadi, Kalbadevi Road, Bombay 2.
 Bombay Cycle & Motor Co.—451, Kalbadevi Road, Bombay 2.
 Bombay Cycle Trading Co.—385, Kalbadevi Road, Bombay 2.
 Bombay Electric & Cycle Co.—Bombay 2.
 Bombay Traders.—423, Kalbadevi Road, Bombay 2.
B. PAREKH & CO.—H.O.: 363, Kalbadevi Road, Bombay, Phone: 34563. Branch: 8A, Peerbhoy Building, Princess Street, Bombay. Phone: 20608. Direct Importers and Wholesale Dealers in Cycles, Cycle Accessories and Surgical goods. Sole Distributors in India for: Continental Gummi Werke, Hanover, and Nova Pressometers and stethoscopes, Germany. Grams: "GUMMIWORKS."
 Capital Cycle & Motor Co.—445-51, Kalbadevi Road, Bombay 2.
 C. Raman & Co.—181, Princess Street, Bombay 2.
 Chandrodaya Electric Co.—Bhangwadi, Kalbadevi Road, Bombay 2.
 Chimanlal Desai & Co.—Cool Mansion, Honji Street, Bombay 1.
 Cycle Trading Co.—425, Kalbadevi Road, Bombay 2.
 Delhi Cycle Trading Co.—Bharoocha Building, Kalbadevi Road, Bombay 2.
 Dupattwala Bros.—Bhangwadi, Kalbadevi Road, Bombay 2.
 Foreign Products Distributing Co.—491, Sandhurst Road, Bombay.
GIRILAL & CO.—38, Dahanukar Bldg., 480, Kalbadevi Road, Bombay 2. Phone: 20931. Grams: "ESTABLISH." Sole Distributors for Bombay State and M.P. of Hindustan Vehicles Ltd., Patna. Manufacturers of New Hudson & Sunbeam Cycles in Technical Collaboration with Birmingham Small Arms Co., Birmingham; Branch: 179, Princess Street, Bombay 2.
 Gujrat Cycle & Motor Co.—Bhangwadi, Kalbadevi Road, Bombay 2.
GUPTA CYCLE COMPANY.—172, Bharucha Building, Princess Street, Bombay 2. Phone: 27788. Grams: "GUPTACYCLE."
 Harjiwan Bechar & Co.—3rd Lane, Mangaldas Market, Bombay.
 Harmachinder Singh & Bros.—Kharek Bazar, Bombay.
HIND CYCLES LTD.—(Managing Agents: Messrs. Birla Bros. Private Ltd.), 280, World, Bombay 18. Phones: 42091-42092. Grams: "CYCLEHIND." Manufacturers of Bicycles & Spare Parts.
 Hind Rubber & Cycle Co.—Kalbadevi Road, Bombay 2.
 Imperial Cycle & Motor Co.—Kalbadevi Road, Bombay 2.
 Indo Cycle Co.—Opp. Bhangwadi, 445, Kalbadevi Road, Bombay 2.
 Industrial Distributors.—10, Hanuman Bldg., Tambakanta, Bombay.
JANKIDAS & CO.—192, Princess Street, Bombay 2. Phone: 34436. Grams: "WHEELBIKE." New Delhi Office: 23/F, Connaught Place, New Delhi. Phone: 48104; The Mall, Simla. Phone: 2385.

Kantilal & Company.—170, Princess Street, Bharucha Building, Bombay No. 2.
 Kathiawar Cycle & Motor Co.—527, Kalbadevi Road, Bombay 2.
K. B. MODI & CO.—8, Ebrahim Mansion, 366/68, Kalbadevi Road, Bombay 2. Phone: 39038. Grams: "CYCLEBELL." Importers of cycles, motor cycles & Accessories. E. O. Ahmedabad.
 Kumar Cycle Works.—Bombay 2.
KUSUMGAR & COMPANY PRIVATE LTD., V. B.—Kalbadevi Road, P.O. Box No. 2071, Bombay 2. Direct Importers of all types of Cycles and Cycle Accessories. Phone: 22904. Grams: "PICKERFIRM."
 Kusumgar (Overseas) Private Ltd.—503, Kalbadevi Road, Bombay 2.
METAGRAPHES (INDIA).—164, Talai Pipe Road, Matunga, Bombay 16. Phone: C/o 60653. Grams: "METAGRAPHES." Manufacturers of Cycle Head Crest & Mudguard Labels and Saddle Nameplates.
 Mahendrakumar Ltd.—157/61, Princess Street, Bombay 2.
 Metro Cycle Co.—421, Kalbadevi Road, Bombay 2.
 Modern Cycle Stores.—435, Kalbadevi Road, Bombay 2.
 Mohan & Bros., G.—Hassan Chambers, Parsee Bazar Street, Fort, Bombay.
 Mohanlal Motilal—Yusuf Building, Hornby Road, Bombay 1.
 Narayndrarooy & Company.—453, Kalbadevi Road, Bombay 2.
 National Cycle Agency.—213, Anant Building, Princess Street, Bombay 2.
 National Electric Corporation.—Kerawala Bldg., Lohar Chawl, Bombay 2.
 National Manufacturing Co.—105, Bazargate Street, Fort.
 National Traders.—345, Kalbadevi Road, Bombay 2.
NEW HAVEN STEEL BALL CORPORATION PRIVATE LTD.—Nanjee Building, 17-B, Horniman Circle, Bombay 1. Phone: 255346. Grams: "GULDASTA." Manufacturers of Automobile Parts, Bicycle Parts, Sockets, Headcap Screws, Bolts, Nuts, Steel Balls, etc.
NEW POPULAR CYCLE MART.—367, Kalbadevi Road, Bombay 2. Phone: 23697. Grams: "NEWCYCLE." Direct Importers of Cycles & Accessories.
 Nishat Trading Co.—401, Sandhurst Road, Bombay.
 Notandas & Sons.—62, First Marine Street, Bombay.
 Oriental Import Export Co.—441, Kalbadevi Road, Bombay 2.
 Popular Cycle Co.—415, Kalbadevi Road, Bombay 2.
 Prem Brothers.—Kitab Mahal, 192, Hornby Road, Fort, Bombay.
 Preetam Cycle Importing Co.—82/84, Bazargate Street, Bombay 1.
 Premier Cycle Co.—390, Kalbadevi Road, Bombay 2.
 Primera Corporation.—207, Sir Vithaldas Street, Fort.
 P. R. Patel & Co. Ltd.—Merwan Building, Sir P. M. Road, Bombay 1.
 Punjab Motor Co.—342-48, Vithalbhaji Patel Road, Bombay.
 Ranjan Cycle Importing Co.—445, Kalbadevi Road, Bombay 2.
 Rapid Cycle & Motor Co., Ltd.—Kalbadevi Road, Bombay 2.
 Royal Cycle & Motor Co.—Whiteaway Laidlaw Bldg., Hornby Road, Bombay 1.
 Saurashtra Cycle Co.—Bombay 2.
 Shah Cycle Importing Co.—Vasantwadi, Kalbadevi Road, Bombay 2.
SHAH INDUSTRIES.—8, Ebrahim Mansion, 366/68, Kalbadevi Road, Bombay 2. Phone: 39038. Grams: "CYCLEBELL." Manufacturers of 'DIMOND' brand Cycles Spokes, Nipples & Washers.
 Shah Trading Agencies.—19, Hamam Street, Fort.
 Shah Trading Co. Ltd.—157-61, Princess Street, Bombay 2.
 Shamlal Ramnath.—8, Punjab Great Hotel, Bombay.
 Sorabji D. Daruwalla.—Round Building, Kalbadevi Road. Phone: 30348.
 Standard Cycle Co.—429, Kalbadevi Road, Bombay 2.
 Super Cycle Importing Co.—432-34, Kalbadevi Road, Bombay 2.
 S. S. Corporation.—Kerawala Bldg., Lohar Chawl, Bombay 2.
SUPER CYCLE IMPORTING CO., THE.—432-34, Kalbadevi Road, Post Box 2214, Bombay 2. Phone: 22864. Grams: "SUPERCYCLE."
 Swastik Cycle Mart.—Ground Floor, Chhotalal Bhuvan, Kalbadevi Road, Bombay 2.
 Union Cycle Co.—Kalbadevi Road, Bombay 2.
UNITED CYCLE CO., THE.—(Prop.: Jaswant Singh Sahani), 453, Kalbadevi Road, Bombay 2. Phone: 38486. Grams: "BIKEPARTS." Direct Importers & Dealers in Cycles and Cycle Accessories.
 Upper India Cycle & Motor Co.—New Hanuman Lane, Bombay 2.
 Vadilal K. Shah.—Lalji Mansing Bldg., Lohar Chawl, Bombay 2.
 Ved Prakash & Co.—3, Bell Lane, Fort, Bombay.
 Victory Cycle Trading Co. Ltd.—503, Kalbadevi Road, Bombay 2.
 V. S. Brothers & Co. Ltd.—Bhangwadi, Kalbadevi Road, Bombay 2.
 Vohra & Pahuja, Bazargate Street, Bombay 1.

CYCLES & MOTOR CYCLES

GLOBE STORES CO.—Sitaram Building, Dadabhai Naoroji Road, Bombay 1 (Near Crawford Market). Phone: 282502. Grams: "GLOSTOCO." Variety of Scooter Accessories always available.

DAIRY COMPANIES

Baker's Dairy Farm.—Rustikash Bhuvan, Gell Street, Jacob Circle.
Bullion Hotel & Bullion Dairy Farm.—176, Sheikh Memon Street.
Bullion Sweet Mart & Bullion Dairy Farm.—Jackeria Building, Musjid Bunder Road.
Champion Dairy Co. (Estd. 1903).—New Petit Mansion, Sleater Road, Grant Road, Bombay 7.
Clifton Dairy.—288, Frere Road, Fort, Bombay 1.
Diarvi Trading Co.—64, Old Custom House Road, Fort.
Empress of India Dairy Co.—180, Lamington Road.
Hiscocks, E., & Co.—"Win-Villa," 9, Clare Road, Byculla.
Indian Express Dairy.—49, Kapur Mansion, Hughes Road.
Infants & Public Milk Supply Co.—11, Calicut Street, Ballard Pier.
Palmer, A., & Co.—Q-123, Cumballa Hill.
Parisian Dairy Co.—1, Tamarind Lane, Fort.
Rasashah Dairy Farm, The.—Dubash Building, Sleater Road, Grant Road.
Royal Hygiene Dairy Farm.—Gool Mansion, Wadia Street, Tardeo.
Saroah Dairy Farm.—Chandavarkar Road, Borivli.
Shapur Dairy Farm.—Mount Road, Opp. P.O., Mazagaon.
Victor Supply Co.—Taber Mansion, Nepean Sea Road.
Wiltshire Dairy Farm.—"Win-Villa," 23, Clare Road, Byculla.

DAIRY MACHINERY

Batilbol & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No. 455451-58. Grams: "BATLIBOICO". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore and Vijayvada. Associates: Bangalore and Secunderabad.
Raj-Der-Kar & Co.—Commissariat Building, Hornby Road, Fort. Phone: 27304.

DAMP COURSING

GLADSTONE LYALL & CO., LTD.—Bharat Nagar, 342, Grant Road, Bombay 7. Phone: 19039. Grams: "GLADSWILL." Bombay Manager: M. V. Ryan. Head Office: 4, Fairlie Place, Calcutta.

DARNERS

DARNER HOUSE.—77, Kopol Niwas, New Charni Road, opp. Girgaum Court, near Cama Baug, Bombay 4. Specialists in Invisibile Darning of Valuable Garments. Silk, Woollen, Carpets Washers.

DEAF APPLIANCES

General Radio & Appliances Ltd.—Opera House, Bombay.
WESTREX CO., INDIA.—Metro House, Mahatma Gandhi Road, Bombay 1. P.O. Box 1232. Tel. Address: "WESTREX." Phone Nos. 242273 & 242274.

DEBT COLLECTORS

INDO-FOREIGN TRADE SERVICE.—505, Kalbadevi Road, 2nd Floor, opp. Edward Theatre, Bombay 2. Phone: 22648.

DECORATORS & CONTRACTORS (MANDAP, FURNITURE, CARPETS, CHAIRS)

Amzel Private Ltd.—Lotus House, Marine Lines, Bombay 1.
A. NOORMAHOMED & SONS.—(Estd. 1885), 111B/109A, Mohamedally Road, Bombay 3. Phone: 36324. Cabinet Makers, Furnishers, Interior Decorators.
ATMARAM & CO.—Nanik Nivas, Warden Road, Bombay 26. Phone: 77019. Painters and Decorators of Buildings, Cinemas, Churches, Flats, Factories, etc. Specialists in Spray Painting of Furniture, Fixtures, Refrigerators, etc. at Customers' Premises.
BHAWAR HOME FURNISHERS & DECORATORS.—66, Karwar Street, Mint Road, near G.P.O., Fort, Bombay. Factory: Famous Cine Building, Haines Road, Mahalaxmi, Bombay 11. Phone: 263771.

Cooper & Co.—55, Abdul Rahman Street.

D. KARMAJI & CO.—Decorators and Contractors. Hire of Furniture, Crockery, Mandaps, Carpets etc., 133/35, Chakla Street (Shariff Devji Street), Bombay 3. Phone: 38206 (Office), 75831 (Res.).

DAVAR, N., & CO.—Syndicate Bank Building, Sir Phirozshah Mehta Road, Fort, Bombay. Phone: 26-1890. Interior Decorators and Painting Contractors. Showroom: Hampton Court, Wedehouse Road, Colaba, Bombay 8.

Dewjee Canjee & Co.—156, Shariff Dewjee Street and Mohamedally Road.

I. E. NENSEY & CO.—143, Chakla Street, Bombay 3. Phone: 20348 (Office), 72785 (Res.). Furnishers and Mandap Decorators. Mattresses and Pillows also available on hire.

Jayasand Khira & Co., Ltd.—Kothare Building, Sandhurst Bridge. Kalabhai Karson & Sons.—256, Sandhurst Bridge.

Kamdar Ltd.—Industrial Building, Opp. Churchgate Station, Fort.
Kapadia Brothers.—81, Abdul Rahman Street, Bombay 3. Phone: 29108. Grams: "DECORATORS". Paint Merchants & Painting Contractors. Chief Stockists of Noble Paints.

KHANNA & COMPANY, S.—Mustafa Building, Sir Phirozshah Mehta Road, Fort, Bombay. Grams: "CRETECO," Bombay. Phone: 251162. Specialist in Coloured Cement Rendering, Artificial Malad Stone facing, Terrazzo Flooring & Victorite plastering.

MACFARLANE & CO., LTD.—34, Lamington Road (North), Bombay 8.

MANCHERSHA, S. & CO.—Senior Certified Painting & Decorating Contractors of Messrs. Jenson & Nicholson (India) Ltd., Navsari Chambers, Outram Road, Fort, Bombay 1. Phone: 76-2373.

MARKER, S. D., & CO. PRIVATE LTD.—(Estd. 1901), 381, Dr. Dadabhai Naoroji Road, Fort, Bombay. Phone: 263236. Grams: "MARKERCOY". Interior Decorators & Painting Contractors.

McKenzies, Ltd.—Interior Decorators, Sewri.

MEHTRA PATIL & CO., S.—Bombay Mutual Building, Corner of Dr. Dadabhai Naoroji Road and Sir Phirozshah Mehta Road, Fort. Phone: 263870.

Mistry Ibrahim Suleman & Co.—116, Kasmal Cursey Road, Bombay 3.
Modern Furniture Works.—141, 3rd Cross Road, Shivaji Park Road, Bombay 28.

More & Co., S.—34/38, Hamam Street, Fort, Bombay 1. Phone: 262019. Gram: "PACKWELL." Decorators, Painting Contractors and Sign Painters, Specialists in Shop Fronts and Commercial and Dispensing Displays.

New Era Paint Works.—Opp. Byculla Station, Byculla.

PAVRI & SONS, FRAMROZ HORMUSJI.—Pavri House, 20, Gunbow Street, Fort, Bombay. Phones: 264158 & 262539. Government & Municipal Contractors, Shamianas, Mandap, Stands, Exhibitions, Electric Light & Fans, Suppliers or hire of glassware, Furniture, Crockery & Decorations of all sorts.

Premier Furnishing & Decorating Ltd.—7, Brabourne Stadium, Churchgate Street Extension, Fort.

Raja Furniture Mart.—Foolchand Nivas, Chowpatty Sea Face, Bombay 7.

Roberts, John & Co., Ltd.—Jorawar Bhuvan, 83/B, Queen's Road. Simplex Art Floorings Ltd.—"La-Citadelle," 32, Queen's Road.

WAKEFIELD PAINTS PRIVATE LIMITED.—"Dhan-Nur," 15/16, Sir Phirozshah Mehta Road, Fort, Bombay 1 (India). Grams: "WAKEPAINT". Phone: 264061.

DENTAL GOODS

ASSOCIATED DENTAL & MEDICAL SUPPLY CO.—Yusuf Bldg., Room No. 26, Mahatma Gandhi Road, Opp. Flora Fountain, Fort, Bombay. Wholesale & Retail dealers in Dental and Medical goods. Manufacturers of "PRESTIGE" Brand Dental Equipment, i.e. Chairs, Units, Operating Stools, Pedestal Spittoons, etc. Phone: 251498. Grams: "SODAWATER."

BEARAT DENTAL SUPPLY CO.—Standard Building, 346, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone: 252775. Direct Importers of Dental equipment, Artificial Teeth, Plaster of Paris, etc.

Dental Corporation of India.—121, Esplanade Road, Fort.

I.C.I. (India) Private Ltd.—P. B. No. 310, Bombay 1.

INTERNATIONAL DENTAL CO. (Formerly Ahura Traders).—Davar House, 199, Hornby Road, Bombay 1. Direct Importers of Dental Goods, Dental Chairs & other items of Equipment. Artificial Teeth, Plaster of Paris, etc. Phone: 262659. Grams: "ACRYLIC."

J. L. Morrison Son & Jones (India) Ltd.—Contractor Bldg., Nicoll Road, Ballard Estate, Bombay 1.
Mada Dental Depot.—Navsari Chambers, Outram Road, opp. Lloyds Bank, Fort.

NATIONAL STEEL EQUIPMENT CO.—Naigaum Road (near Spring Mills), Dadar, Bombay 14. Phone: 61788. Grams: "BEDLOCKER." Makers of Hydraulic Dental Chairs, etc.
Patel & Sons, Dr. K.—249, Hornby Road, Fort.
Rawal Shankarlal & Co.—Esplanade High School Building, 1st Floor, 160, Hornby Road, Fort, Bombay 1.

DIAMOND DRESSING TOOLS

SHARAT ENGINEERING STORES.—113, Nagdevi Street, Bombay 3. Grams: "UNIONTOOLS."

DIAMOND, PRECIOUS STONE AND PEARL MERCHANTS

ABDUL KAYUM EBRAHIM (Estd. 1902).—Manufacturing Jewellers, Jewellery, Diamonds & Precious Stone, 64, Mohamedally Road, Bombay 3. Phone: 76962 (Res.).
Anandlal Becharlal & Co.—177-119, Sheikh Memon Street.
Beohardas Harichand & Co.—Poonamchand House, Kharakva, Marwari Bazar.
Bhogilal Leherchand.—134-136, Zaveri Bazar, Bombay 2.
Bhojwani Brothers.—24, Munira Lodge, Colaba Causeway, Bombay 1.
Chimanlal Manchand & Co.—Queen's Road, Bombay 4.
Chimanlal Popatlal Minawalla.—Dhanji Street, Bombay 3.
CHUNILAL & CO.—17-19, Dhanji Street, Bombay 3. Phone: 29991.

CULTURE PEARLS DEALING CO.—Madras Building, 2nd Floor, 148, Mumbadevi Road, Bombay 2. Wholesale and Retail dealers in (Real) Culture Pearls ornaments and other Jewels.

DANYALAL MAKANJEE ZAVERI.—Precious Stones, Diamonds, Pearls and manufacturing Jewellers, 98, Sheikh Memon Street, Bombay 2. Phone: 23218. Grams: "JAY-KUSER."

Dalchharam Nanchand & Co.—7, Dhanji Street.
Dhamannal Isardas.—Mulji Stoca Building, China Baug, Vithalbhai Patel Road.

Fulchand Kasturchand.—169-165, Sheikh Memon Street.
Gadar Ltd. (Jewellers).—Taj Mahal Hotel, Colaba.
Godedji Dooji & Co.—10, Dhanji Street.
Harilal Lalji & Co.—149, Sheikh Memon Street, Bombay 2.
Hemchand Mohanlal & Co.—Devki Bhuvan, Dhanji Street, Bombay 3.
Jhaveri Bros. & Co.—Medows Street, Fort.
Keshavlal Dalpatbhaj Zaveri.—Mumbadevi, Zaveri Bazar, Bombay 2.
K. Wadia & Co.—324, Grant Road, Bombay 7.
Lallubhai Gulabchand Jhaveri.—149, Shroff Bazar.

MAGANBHAI & LALLUBHAI.—184-186, Sheikh Memon Street, Bombay 2. Jewellers, Direct Importers and Exporters of Real and Cultured Pearls, Platinum, Precious Stones, Watches, Synthetics, Rough and Cut. Phone Nos. 23788 and 22217 (Res.). Grams: "MOTIBUTTON."

Mohamedali Zainal Alireza.—"D" Sitaram Building, Hornby Road.
Motilal Davabhai & Sons.—208, Walkeshwar Road.
Nagindas Virchand Jhaveri.—44-46, Dhanji Street, Bombay 3.
Narotandas Bhai (Estd. 1864).—Lamington Road, Bombay.
New Pearls Trading Agency.—Patel Building, 76-A, Sheikh Memon Street, Zaveri Bazar.
Pearls, Gems & General Agency Ltd.—General Assurance Building, Hornby Road, Fort.

PITAMBERDAS MOHANLAL & SONS.—4, Mandlik Road, Causeway, Opp. Colaba Police Station, Bombay 1. Phone: 36278. Grams: "GEMLEADER." Dealers in all kinds of cut & rough Precious & Semi-Precious Stones and manufacturing Jewellers.

Punemchand Ghaslali.—126-123, Zaveri Bazar.
Purram, R. V.—Manufacturing Jewellers, Diamond and Pearl Merchants, 62, Medows Street, Fort. Phone: 24645. Grams: "FAIRVALUE."

Ramesh Jewellers.—Jai Hind Building No. 3-A, Bhuleshwar, Bombay 2.

Roopchand Punjab Jewellers.—French Bridge, opp. Opera House, Bombay 4.

Ruby & Co.—Cutch Castle, opp. Opera House.
Surajmal Lallubhai & Co.—359, Kalbadevi Road.

TRIBHOVANDAS BEHMJI ZAVERI (ESTD. 1851).—241-43, Sheikh Memon Street, Bombay 2. Phone: 23741. Grams: "BARGOLD." Leading House for Gold Ornaments, Diamonds and Silver Presentation Novelties.

DIESEL ENGINES & SPARES

Agra Engineering Co.—84, Apollo Street, Bombay.
Bales Engineers.—Bales Corner, 24, Gunbow Street, Fort, Bombay.

BAPULAL RAMCHAND & CO.—Crescent Chambers, Tamarind Lane, Fort, Bombay 1. Phone: 254146. Grams: "OCI-NETA." Specialists in Fuel Injection Equipments & Spare parts for Diesel Engines.

CRESCENT AGENCIES (PRIVATE) LTD.—Beaumont Chambers, 27/33, Medows Street, Fort, Bombay. Phone: 232583. Grams: "WELSEL," Bombay and Delhi.

EASTERN INDUSTRIAL SYNDICATE.—4, Rutherford Street, Forbes Street, Bombay 1. Phone: 251919. Grams: "EKFPLAIN."

INTERNATIONAL ENGINEERING CORPN.—105, Apollo Street, Bombay 1. Stockists of "LISTER, RUSTON & PETER" Engines' Spares.

K. SUCHDE BROTHERS.—82, Apollo Street, Fort, Bombay 1. Phone: 252712. Grams: "SUCBROS." Spares for all well known Industrial Engines, Sales & Service for Fuel Injection Equipments, "BRYCE", "BOSCH", "CAV" & "FIL" "WELLWORTHY" Pistons, Rings & Liners for Industrial Engines & Tractors. Madras Branch: Industrial Engineers, 325, Thambuchetty Street. Phone: 4783.

KUMAR COMMERCIAL CO.—Nadiraahaw Sukhia Street, Opp. Cawasji Patel Street, G.P.O. Box No. 1525, Bombay 1. Importers and dealers of Spare parts for all known type of Engines and Distributors "CFW" German Oil Seals and accredited Dealers for World famous "WOLF" Electric Tools. Phone: 255715. Grams: "SIENG."

DISC SPRINGS

B. CHOWDHURY & CO.—Indian Globe Chambers, Fort Street, Bombay 1. Phone: 26-3479. Grams: "SISUKHI." Sole Agents for: Adolf Schnorr, West Germany.

DISINFECTANTS AND INSECTICIDES MFRS.

Amritlal & Co. Private Ltd.—Sprott Road, Ballard Estate, Fort.
Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort
Bharat Pulverising Mills Private Ltd.—38A, Nayani Road, Parel, Bombay 28.

BOMBAY CHEMICALS PRIVATE LTD.—Maneckji Wadia Bldg., 129, Mahatma Gandhi Road, Fort, Bombay. Manufacturers of Pyrethrum extracts, Pip Insecticides & Disinfectants.

Burmah-Shell Oil Storage & Distributing Co. of India Ltd.—Ballard Estate, Bombay 1.

Chimanlal Patel & Co.—174, Hornby Road, Fort.

Chlorogen Co.—Princess Street, Bombay 2.

Din Products Ltd.—9-A, Ash Lane, Off Medows Street, Fort, Bombay 1.

Hardcastle, Waud & Co. Private Ltd.—Alice Building, Hornby Road, Fort.

Holmes Laboratory.—Upper Forjett Hill, Bombay 26.

I.C.I. (India) Private Ltd.—P. Box No. 310, Bombay 1.

Industrial Minerals & Chemical Co.—125, Narayan Dhuru Street, Bombay 3.

Jones, J. D., & Co. (Bombay) Ltd.—Rustom Bldg., Veer Nariman Road, Bombay 1.

Latham Abercrombie & Co. Private Ltd.—Forbes Building, Home Street, Fort.

Sardesai Brothers Private Ltd.—14, Murzban Road, Fort, Bombay.
Spencer & Co., Ltd.—Bombay 26.

STANDARD CHEMICAL & PHARMACEUTICAL CO.—Atlas Mills, Reay Road, Bombay 10. Phone: 40642. Grams: "GERMOL." Manufacturers of disinfecting fluids, Household Insecticides and Pyrethrum Extract.

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TATA-FINON PRIVATE LTD.—Bombay House, 24, Bruce Street, Fort, Bombay 1. Grams: "TATFINON," Bombay. Phones: 259141/251509. Manufacturing, Marketing and Selling insecticides, fungicides, rodenticides, acaricides.

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Jhala, R. T., & Co.—9, Forbes Street, Fort, Bombay.

Khimandas Jagumal & Sons (Estd. 1910), Sind.—12, Hornby View Building, Gunbow Street, Fort.

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Mahindra & Mahindra Ltd.—Gateway Building, Apollo Street, Fort.

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Vasudev Dyeing Works.—316, Dr. Cowasji Hormusji Street, opp. Sonapur Church, New Marine Lines Railway Station, Bombay 2.

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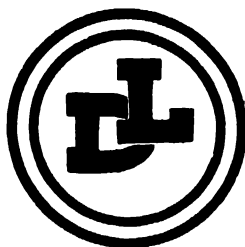
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Balmer Lawrie & Co. Ltd.—5, Graham Road, Ballard Estate, Bombay. Blackwood Hodge India Private Ltd.—Lotus House, Marine Lines, Bombay 1.

Gaytee & Co.—Jannabhuml Chambers, Fort Street, Bombay 1.

Greaves Cotton & Co. Ltd.—Forbes Street, Bombay 1.

Gujarat Trading Syndicate.—India House (Opp. G.P.O.), Fort Street, Fort, Bombay 1. Phone: 261248. Grams: "GUTREASY."

Kilburn & Co. Private Ltd.—Gresham Assurance House, Sir Phiroosah Mehta Road, Fort, Bombay 1.

Killick, Nixon & Co. Private Ltd.—Home Street, Bombay 1.

Marshall Sons & Co. Ltd.—Marshall Bldg., Ballard Rd., Bombay 1.

Shah & Sunder.—7/10, Horniman Circle, Botawala Building, Bombay 7.

William Jacks & Co. Ltd.—Hamilton House, Ballard Estate, Bombay 1.

ELECTRIC BREAKDOWN REPAIR SERVICE

EVSNS ELECTRIC PRIVATE LTD.—485, Cadell Road, Next to Kodak Ltd., Bombay 28. Phone: 80793. Grams: "KATHODE". Specialists in Repairs, Rewinds & Redesigning of Motors, Generators, Transformers, etc.

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METROGOLD ELECTRIC STORES.—60, Lohar Chawl, Bombay 2. Phone: 39675. Grams: "FLEXIBLE". Stockists and dealers in foreign and Indian make electric Pedestal, Ceiling and Table fans. Authorised main Distributors for RALLIS table fans and ORIENT table and ceiling fans. Specialist in service after sale.

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ELECTRIC GENERATORS (DEALERS)

Champion Engineering Co.—Alice Building, Hornby Road, Fort.
East Asiatic Co. (India) Private Ltd.—Shreenivas House, Waudby Road, Bombay. Phone: 26-2711. Offices at Madras, Calcutta, New Delhi.

Kilburn & Co. Private Ltd.—Gresham Assurance House, Sir Phirozshah Mehta Road, Fort, Bombay 1.
Minerva Machinery Corporation.—Advani Chambers, Sir Phirozshah Mehta Road, Fort. Grams: "Mimacorp".

ELECTRIC LAMPS (BULBS) MANUFACTURERS

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RADIO LAMP WORKS LTD.—45-47, Veer Nariman Road, Bombay 1. Electrical Engineers, Manufacturers and Contractors. Phone: 25-3841. Grams: "SOFTLITE." Branches at Bombay, Calcutta, Delhi, Madras, Kanpur, Bangalore, Patna, Indore, Wardha & Gauhati.

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ELECTRICAL CONTRACTORS (LICENSED)

A. B. H. Trades & Agencies.—94, Walkeshwar Road, Bombay 6.
ALPHA ELECTRIC & ENGINEERING CO.—30, Calicut Street, Ballard Estate, Bombay. Phone: 26-3881. Licensed Electrical Contractors.

ATLAS ELECTRIC CO.—243, Bazar Gate Street, Bombay 1. Phone: 263159. Grams: "DEALWELL."

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

BOMBAY ELECTRIC STORES.—Government, M.E.S., Municipal & P.W.D.'s Contractors. Stockists of all kinds of Electrical goods and mfrs. of 'Makehot' Geysers. 303, Lamington Road, Bombay 7. Phone: 71806.

Damania Electrical & Engineering Works.—171, Lohar Chawl, Bombay 2.

DIAMOND ELECTRIC CO.—18, Namam Street, Fort. Phone: 25-1628. Grams: "LIGHTNING."

EBSTER ELECTRIC CO.—(Estd. 1920), Next to Lamington Road Police Station, 318, Lamington Road, Bombay 7. Phone: 71591. Specialists in removing any leakage of installation if received from any Supply Co., i.e., B.E.S. & T. Undertakings or other Supply Companies.

ECONOMIC ELECTRIC CO. PRIVATE LTD., THE.—Kareem Mansil, Jail Road, Dongri, Bombay 9. Phone: 71137.

ELECTRIC CORPORATION OF INDIA.—19/21, Namam Street, Fort, Bombay 1. Phone: 254398.

F. & C. Osler (India) Ltd.—New Queen's Road, Bombay.
F. R. Patel & Co.—Holland House, next to Hotel Majestic, Colaba Causeway, Bombay 1. Water Heater Repairers and Specialists in Reconditioning Everything Electrical, Auto Electricians.

FORT ELECTRIC & MACHINE WORKS.—(Estd. 1920), 17/H, Cawasji Patel Street, Fort, Bombay. Phone: 251694. Electrical Engineers, Licensed Contractors and general repairers.
Gopani Electric Stores.—Bharat Bhuvan, 171, Princess Street, P. O. Box No. 2063, Bombay 2.

Greaves Cotton & Crompton Parkinson Ltd.—1, Forbes Street, Fort.
Harda Electric Supply Co. Ltd.—17-19, Bastion Road, Fort, Bombay.

Huge Engineering Co.—Imperial Chambers, Wilson Road, Ballard Estate.

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Minerva Trading Agency.—58, Forbes Street, Fort.

MODERN ELECTRIC CO.—(Estd. 1935), Dady House, 50, Veer Nariman Road, Fort, Bombay. Phone: 252403. Engineers, Contractors and Temporary Illumination Specialists, on Government and Military Lists.

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National Electric Company.—11, Elphinstone Circle, Fort, Bombay 1. Phone: 28762. Grams: "ELECTRICAL."

RAJA ELECTRIC WORKS, THE.—Commerce House, 2nd Floor, 140, Meadows Street, Fort, Bombay 1. Air-conditioning Plant Factory and Building Wiring Specialists. Grams: "SEEMARJ." Phone: 254762.

ROYAL ELECTRIC CO., THE.—Muljee Jetha Building, 193, Princess Street, Bombay 2. Phone: 29682.

Saraiya & Co.—17-B, Devkaran Nanjee Building, Elphinstone Circle, Fort, Bombay.

SHAH & CO.—Jannabhoomi Bhawan, Ghoga Street, Fort. Phone No. C/o 255751. Electrical Engineers and Licensed Contractors. On Approved List of P.W.D. and Central P.W.D.

SHELL ELECTRIC WORKS.—11-13, Horniman Circle, Bombay 1. Phone: 25-5315 (Office), 37233 (Res.). Grams: "SHELL-WORKS".

Trinity Electric Syndicate.—Princess Street, Bombay 2.

Vikram Electric Co.—Advani Chambers, Sir Phirozshah Mehta Road, Fort.

Western India Engineering Corpn. Ltd.—Cama Chambers, 23, Meadows Street, Fort.

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AJIT INDUSTRIES.—35, Vithaldas Road, Lohar Chawl, Bombay 2. Phones: 34951 (Office); 86815 (Factory). Factory at 58, Andheri, Kurla Road, Bombay 41. Grams: "AJITCHOKE." Manufacturers of Ajit Chokes, Fluorescent Fixtures and Enamelled Wires.

ALLIANCE ELECTRIC MART.—67, Lohar Chawl, Bombay 2. Phone: 39229. Grams: "ALLIANCE."

ALPHA ELECTRIC & ENGINEERING CO.—30, Calicut Street, Ballard Estate, Bombay. Phone: 26-3881. Specialists in re-winding and repairs of all types of Electrical Machinery and equipment. Manufacturers of Special Electrical Equipments.

Alladin Virjee Nathani.—Darukhana, Mazagaon, Bombay 10.

Arvind Trading Co. Private Ltd.—105, Apollo Street, Fort.

ASEA ELECTRIC INDIA, PRIVATE LIMITED.—Yash Building, Goa Street, Bombay 1.

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Automatic Electric Devices Company, "Rectifier"—Nalgaum Cross Road, Bombay 31.

Babcock & Wilcox, Ltd.—16, Queen's Road Estate, Bombay 1.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

BIJLEE PRODUCTS (I) PRIVATE LTD. (Estd. 1935).—36, Lamington Road, North, Byculla, Bombay 8. Phone: 42619.

Grams: "BIJBULB." Manufacturers of Electric Lamps.

BIPINKUMAR ELECTRIC CORPORATION.—14, Tavawalla Building, Lohar Chawl. Phone: 30684. Grams:

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Bombay Engineering Syndicate.—17, Forbes Street, Bombay 1.

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British Engineering Co.—106, Apollo Street, Fort.

British Insulated Callender's Cable Ltd.—Esplanade House, Waudby Road, Fort.

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Cassinath M. Bomonjee Edujee.—17/19, Bastion Road, Fort.

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Crompton Parkinson (Works), Ltd.—Haines Road, Worli, Bombay 18.

Damania Electrical & Engineering Works.—Jeeb Peermohomed Building, 171, Lohar Street.

Dastur & Sons.—54, Forbes Street, Fort.

Diamond Electric Company.—18, Hamam Street, Fort.

Darvi Trading Co.—64, Old Custom House Road, Fort.

Dinshaw, M. H., & Co.—Apollo Street, Fort, P.O. Box No. 448, Bombay. Phone: 25-1458. Grams: "AHOORAT."

Dodsal Limited.—Mafatlal House, Backbay Reclamation, Bombay 1.

Eastern Electric & Engineering Co.—Established 1909. 127, Mahatma Gandhi Road, Fort. Post Box 459, Bombay.

Eastern Radio & Refrigeration Co.—8, Beaumont Chambers, Medows Street, Fort, Bombay.

Economic Electric Co., Ltd., The.—Jail Road (East), Dongri, Bombay 9.

Electric and General Traders Ltd.—Bombay Mutual Annexe, Gunbow Street, Fort.

Electro Mechanics, Ltd.—Mahta House, Apollo Street, Fort.

Electrical Engineers & Contractors.—Phone: 27034-5-6. Grams: "OSLERCO."

Ellora Art Industries.—Shreeji Bhuvan, Lohar Chawl, Bombay 2. Phone: 34270. Grams: "ELLOBART."

English Electric Co., Ltd., The.—240, Dr. Dadabhai Naoroji Road, Fort, Bombay.

F. & C. Osler (India) Ltd.—New Queen's Road, Bombay.

Gandhi Electric Industries Private Ltd.—Swadchali Mills Estate, New Queen's Road, Bombay 4.

General Electric Co. of India, Ltd., The.—"Magnet House," Dougall Road, Ballard Estate.

GENERAL ELECTRICAL INDUSTRIES.—113/B, New Parbadevi Road, Bombay 28. Phone: 62926. Grams: "LIGHT-UDYOG". Manufacturers of bakelite 'GEI' brand Electrical Accessories.

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Greaves, Cotton & Co., Ltd.—1, Forbes Street.

Greaves Cotton & Crompton Parkinson Private Ltd.—1, Forbes Street, Fort.

H. Moolchand & Co.—Parsee Bazar Street, Bombay 1.

Harda Electric Supply Co., Ltd.—17/19, Bastion Road, Fort.

HASAMBHOY JETHA.—Largest Stockists of AC/DC Motors, Generators, Engines, Welding Transformers, Sirens, Geared Motors, Reduction Gears, etc. Opp. Byculla Goods Depot, Bombay 27. Phone: 73591-92. Grams: "IRONCASTS".

Henley's Telegraph Works Co., Ltd.—Henley House, Ballard Estate. Herman & Mohatta, B. R., Ltd.—People's Building, Sir Phiroshah Mehta Road, Fort.

Himco (India) Private Ltd.—Kurla Road, Andheri, Bombay 41.

HIND RECTIFIERS PRIVATE LTD.—Electrical & Mechanical Engineers, Kamani Chambers, Nicol Road, Ballard Estate, Bombay. Phone: 265493. Manufacturers of Battery Charges, Electroplating Sets, Rectifier and Power Plant Equipments, etc.

Hind Electric & Engineering Corporation.—183, Princess Street, Bombay 2.

Huge Engineering Co.—Imperial Chambers, Wilson Road, Ballard Estate.

INDIA ELECTRIC WORKS, LTD.—8, Sir Phiroshah Mehta Road, Fort. Phone: 252505. Grams: "MANUFACTURER." Manufacturers of I.E.W. Low Consumption Fans, Telephones, Telegraph and Railway Signalling Instruments, Train Lighting Equipment, Pole Fittings, Electrical Accessories, Domestic Appliances, Fractional H. P. Motor and Starters, etc. Repairers of Measuring Instruments, Mechanical and Electrical Engineers and approved Contractors to Railways and I. S. D. Head Office & Factory: Diamond Harbour Road, Behala, Calcutta 34. Instrument Factory: 25, South Road, Entally, Calcutta. Other Branches: Bombay, Calcutta, Delhi, Kanpur, Madras and Patna. Selling Agents for "PRADIP" Lamps. Managing Director: Shri B. K. Rohatg. Manager: Shri Harihar Chandra.

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INDIAN INDUSTRIAL ENGINEERS.—43, Tamarind Lane, Fort. Phone: 255514. Grams: "NEWLIGHT."

Indian Wild-Barfield Co., Private Ltd.—Annie Besant Road, Worli, Bombay 18.

INDUSTRIAL & AGRICULTURAL ENGINEERING CO. (BOMBAY) PRIVATE LTD.—43, Forbes Street, Fort.

Industrial Electrical Engineering Co.—Baja Bahadur Mansions, 10, Hamam Street, Fort.

International Electric Corporation.—49, Forbes Street, Fort.

International Electric Trading Co.—Dovkaran Bldg., Princess Street, Bombay 2.

INTERNATIONAL GENERAL ELECTRIC CO. (INDIA) PRIVATE LTD.—Thackersey House, Graham Road, Ballard Estate.

Jacks, William & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Fort.

Jagmohandas, H., & Co.—Ashok Building, 16, Princess Street.

Jayems Engineering Co.—Warden House, Sir Phiroshah Mehta Road, Fort.

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Kanji Govind Kerson.—Murbad Road, Kalyan, Bombay. Kanitlal Chhotalal & Co.—23, Babu Genu Road, Princess Street, Bombay 2. Phone: 39650. Grams: "COMETBAG". Manufacturers of "COMET" brand Electric Insulated Wires & Cables.

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KIRON TEXTILE INDUSTRIES.—Yusuf Bldg., Mahatma Gandhi Road, Bombay 1. Phone: 253224. Grams: "YANTRAYUG". Manufacturers of Electric Switchgears upto 500 Amps., Switchboard Panels and Electric Motor Starters, H.T. Gang Operated Switches, etc.

KIRONKUMAR ELECTRICAL TRADING CORPORATION.—66, Mangaldas Road, Bombay 2. Post Bag No. 2760. Grams: "KIRKUTCO." Direct Importers of Electrical Appliances, Wires and Fluorescent Tubes and M.E.M. Switches and Starters. Phone: C/o 38138.

KUMAR ELECTRIC EQUIPMENT CO.—82, Lohar Chawl, Bombay 2. Phone: 38614.

London, Eastern & American Trading Co.—22, Hamam Street, Fort.

Mahindra & Mahindra Ltd.—Gateway Building, Apollo Bunder, Fort.

Malik Electric Works.—Low Level, Victoria Road, Masagaon.

Maneckji, G. B., & Co. Ltd.—Mehta House, Apollo Street, Fort.

Manu Electric & Engineering Works.—Kanji Goculdas Building, 160, Lohar Chawl.

Mather & Platt, Ltd.—Hamilton House, 8, Graham Road, Ballard Estate.

MAXIM ELECTRICALS.—26-28, Old Hanuman Lane, Bombay 2. Phone: 22414.

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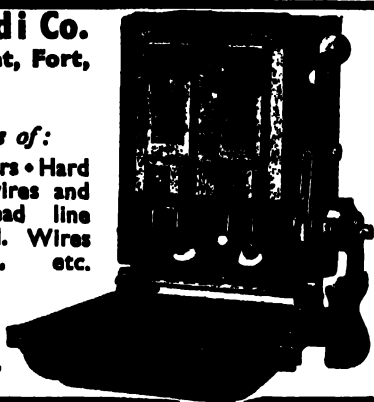
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Grams: "DELIWICH". Manufacturers of Electrical
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Oser, F. & Co., Ltd.—Swadeshi Mills Compound, New Queen's Road,
Bombay 4.

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LTD.—Prospect Chambers Annex, 317-320, Dr. Dadabhai
Naoroji Road, Bombay 1. Phone: 251630. Grams: "COCO-
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& Fittings. Importers of MEM Switchgears, Wires and all
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Paramount Engineering Co.—Fort Chambers, Hamam Street, Fort.

Paramount (India), Ltd.—Kermani Building, Sir Phirozshah Mehta
Road, Fort.

Perry & Co., Ltd.—Warden House, Sir Phirozshah Mehta Road,
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facturers of Electrical Appliances, Fluorescent Tubes &
Batteries.

Prabhat Electric Equipment Corporation.—P.O. Box No. 291
Bombay 1.

Premier Electric Co., Ltd.—Mehta House, Apollo Street, Fort.

PREMIER RUBBER & CABLE INDUSTRIES.—Jamal Building,
211, Nagdevi Street, Bombay 3. Phone: 38581. Grams:
"RUBERGOODS". Manufacturers of Rubber Insulated
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Protos Engineering Co. Ltd.—173, Jamshedji Tata Road,
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RADIO ELECTRIC PRIVATE LTD.—Lamington Chambers,
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Manager: Dh. H. Marathe, M.A. (Bom.), M.R.S.T. (Lond.).
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HT & LT Insulators, Wires & Cables, etc.

RATENJI MORARJI PRIVATE LTD.—Prospect Chambers,
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Fort, Bombay.

Richardson & Cruddas.—Byculla Iron Works, Byculla.

Rochar, H. L., & Co.—Navsari Building, Bastion Road, Fort.

ROYAL ELECTRIC CO., THE.—Muljee Jetha Building, 193,
Princess Street, Bombay 2. Phone: 29682.

SANKEY ELECTRICAL STAMPINGS PRIVATE LTD.—Manu-
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Phone: 67934. Accounts Office: Wakefield House, Sprott
Road, Ballard Estate, Bombay 1. Phone: 261758. Managing
Director: K. C. Maitra. Phones: Office 67248; Residence
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Shell Electric Works.—Botawala Building, 11-18, Elphinstone Circle,
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Surya Prakash Engineering Co.—21, Forbes Street, Fort.

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Trinity Electric Syndicate.—Princess Street, Bombay 2.

Turner, Hoare & Co., Ltd.—Gateway Building, Apollo Bunder.

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UNITED INDIA ENGINEERING CO.—78, Old Custom House Road, Fort, Bombay 1. Phone No. 25-1492. Grams: "UNICONARAM." Engineers and Machinery Dealers. Sales & Showroom: Commerce House, Medows Street, Fort, Bombay 1.

Volts Limited.—Ballard Estate, Bombay 1.

Western Agencies Co.—421, Lamington Road, Bombay 4.

Western Engineering Co.—Western India Building, Sir Phirozshah Mehta Road, Fort.

Western India Electric Co., Ltd.—Tambuwalla's Building, 96, Upper Duncan Road, Byculla.

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Kilburn & Co. Private Ltd.—Gresham Assurance House, Sir Phirozshah Mehta Road, Fort, Bombay.

Pioneer Equipment Co., Private Ltd.—139, Medows Street, Bombay 1.

Shah Engineering Stores.—88-92, Nagdevi Cross Lane, Bombay 3.

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ASIATIC ELECTRIC TRADING CO.—46/48, Lohar Chawl, Bombay 2. Phone: 29686. Grams: "ASIALIGHT."

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Balmer Lawrie & Co., Ltd.—8, Graham Road, Ballard Estate, Fort. B. B. Electric & Auto Stores.—98, Princess Street, Bombay 2.

BOMBAY INSULATED CABLES & WIRES CO.—10, Himalaya House, Gr. Floor, 79, Palton Road, Bombay 1. Phone: 261383. Armature Winding Wires and other Accessories for Winding purposes. V.I.R., C.T.S., Wires of Callender's, Paramite & Henley's etc. and jointing materials for underground Cable, its Accessories and underground Cables.

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Chicago Telephone & Radio Co., Ltd.—127, Mahatma Gandhi Road, Fort.

Choksi Electric Co.—148, Princess Street, Bombay 3.

Chunnil Desai & Co.—Gool Mansion, Homji Street, Fort.

Chunnilal Raichand.—Lal Singh Bldg., Lohar Chawl, Bombay 2.

C. K. Shah & Co.—35, Vithaldas Road, Lohar Chawl, Bombay 2.

DASWANI BROS.—53, Queen's Road, opp. Marine Lines Station, Bombay 2. Phone: 34617. Grams: "CIRCLINE." Agents: "G.N.E." Electric Brass Holders, Bakelite Switches, "TPI" Plastic Wires, "RECORD" Tube Light Holders and D.B. Electric Accessories.

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Doctor Shah & Co.—Swadeshi Mills Estate, Bombay 4.

Economic Electric Co., Ltd.—Jail Road (East), Dongri, Bombay 9.

Electricals (India) Ltd.—24/B, Hamam Street, Fort, Bombay.

Empiria (India) Ltd.—Sai Bhuvan, Princess Street, Bombay 2.

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Harda Electric Supply Co., Ltd.—17-19, Bastion Road, Fort.

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Pavri, J. K.—Karim Chambers, Hamam Street, Fort.
Raichand & Sons.—5, Picket Cross Road.

RAJNI ELECTRIC CORPORATION.—272, Masjid Bunder Road, P.O. Box No. 3083, Bombay 3. Phone : 23694. Grams : "RAJNIGHT." Manufacturers of H.D.B. Copper conductors (Solid & Standard) and strips.

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T. M. Tyabji & Bros.—32-38, Hamam House, Hamam Street, Fort.
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J. V. Mehta & Co.—Opera House Tram Terminus, Lamington Road, Bombay 4.

Kilburn & Co. Private Ltd.—Gresham Assurance House, Sir Phirozshah Mehta Road, Bombay.

Scientific Instrument Co., Ltd.—Navsari Building, 240, Dr. Dadabhai Naoroji Road (Hornby Road), Fort.

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Ahmed & Co.—Lohar Street, Bombay 2.

Ahmed A. Fazalbhoy.—30, Queen's Road, Bombay 1.

Ahoora Trading Co.—22D, Parsi Bazar Street, Fort.

ALLIANCE ELECTRIC MART.—67, Lohar Chawl, Bombay 2. Phone : 39229. Grams : "ALLIANCE".

Allied Exporters.—Kumud House, 207, Dr. Dadabhai Naoroji Road, Fort, Bombay.

All India Trading Corporation.—25, Bank Street, Fort. Grams : "Autoglass." Agents for Painsa Fund Opal Globes.

AMERICAN ELECTRIC & ENGINEERING CO.—11/12, "Himalaya House," Corner of Hornby and Palton Roads, Bombay 1. Phone : 263576. Grams : "AMERICITRIC."

Arvinda Trading Co. Private Ltd.—106, Apollo Street, Fort.

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Bharat Electric Supply Traders.—542, Sandhurst Bridge, Chowpatty, Bombay 7.

Bhargava & Co., K. L.—94, Meadows Street, Fort.
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Chimanlal Desai & Co.—Gool Mansion, Homji Street, Fort.
Chotani Electric & Engineering Co. Ltd.—57, Apollo Street, Fort, Bombay.

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Eastern Trading Co.—Vithal Sayana Building, Lohar Chawl, Bombay 2.

Economic Electric Co., Ltd.—Jail Road (East), Dongri, Bombay 9.
Electric & General Trades, Ltd.—Bombay Mutual Annex, Gunbow Street, Fort.

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Gangaram Sharma & Co.—Kanchan Bhawan, 15, Dadlath Agiar Lane, Bombay 2.

Gannon, Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.

Gaytee & Co.—Janmabhomi Chambers, Fort Street, Bombay 1.
General Electric Co. (India) Ltd.—Magnet House, Dougall Road, Ballard Estate.

General Radio & Appliances Ltd.—Opera House, Bombay 4.

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Greaves Cotton & Crompton Parkinson Private Ltd.—Forbes Street, Bombay 1.

Harda Electric Supply Co.—17/19, Bastion Road, Fort.

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Himco (India) Private Ltd.—Kurla Road, Andheri, Bombay 41.
Hindustan Electric & Radio Corporation.—Khambata Lane, Bombay 4.

Huge Engineering Co.—Imperial Chambers, Wilson Road, Ballard Estate, Fort.

India Electro Traders.—157, Princess Street, Bombay 2.

Indian Electric Stores.—123, Lohar Chawl, Bombay 2.

Industrial Machinery & Tools Corporation.—Indira Nivas, 1st Floor, New Bhatwadi Street, Bombay 4.

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Johnson & Phillips Ltd.—Currimbhoy Road, Ballard Estate, Bombay 1.

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M. C. Mody & Bros.—Maskati Mahal, 125-A, Lohar Chawl, Bombay 2.
Mehta, J. V., & Co.—Opera House, Tram Terminus, Bombay 4.

METROGOLD ELECTRIC STORES.—60, Lohar Chawl, Bombay 2. Phone: 39675. Grams: "FLEXIBLE" Importers and Stockist of Industrial and Home appliances such as, Pedestals, Ceiling, and Table fans, Fancy lighting fittings, switch-gear, air-circulators, exhaust fans, conduits, wires and cables, electric heating and cooking appliances, hair dryers, electric dry shavers, etc. Manufacturers of GETCO super table lamps, wall brackets and electrical bakelite accessories. Agents for MEYER electric baking and roasting ovens and EGO-SUPER hotplates (Germany). Specialists in service after sale.

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Modern Radio & Electric House.—381, Hornby Road, Fort.

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National Ekco Radio & Engineering Co. Ltd.—Ewart House, Bruce Street, Fort, Bombay 1.

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New India Trading Corporation.—Vithal Sayana Building No. 2, Lohar Chawl, Bombay 2.

Oriental Trading Corporation.—Makharia House, 327, Sandhurst Road, Bombay 4.

Patel Electric Co., Ltd.—Vithal Sayana Building No. 2, Lohar Chawl, Bombay 2.

Patel, U. D., & Co.—Bank Street Building, Fort.

Pavri, J. K.—10, Karim Chambers, Hamam Street, Fort.

Pavri Sons & Co.—95-97, Bazar Gate Street, Fort.

Pestonji & Co.—570, Sultan Mansil, Chitra Bazar, Bombay 2.

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Refrigeration & Appliances Co. Private Ltd.—Pravin Court, 95, Queen's Road, Bombay.

Rhythm House Ltd.—40, Rampart Row, Fort.

Royal Electric Co., The.—Muljee Jetha Building, 189, Princess Street, Bombay 2.

Sawhney & Co.—Shahpur House, Cowasji Patel Street, Fort, P.O. Box 148-A, Bombay.

Scientific Instrument Co., Ltd.—Navsari Building, 240, Hornby Road, Fort.

Sealite Electric Co.—Manhar Building, 178, Lohar Chawl, Bombay 2.

Sentinel Electric Co.—Advani Chambers, Sir Phirozshah Mehta Road, Fort.

Shah Trading Agencies.—19, Hamam Street, Fort.

Shah Trading Co.—Lawyers' Chambers, Picket Road, Lohar Chawl.

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Shantilal & Co. Private Ltd.—195-197, Abdul Rehman Street, Bombay 8.

Standard Trading Co.—Vittal Sayana Building No. 2, 43-45, Lohar Street, Bombay 2.

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Voltas Ltd.—Ballard Estate, Bombay 1.

Western Agencies' Co.—421, Lamington Road, Bombay 4.

Westrex Co. India.—Metro House, Mahatma Gandhi Road, Bombay 1.

Western India Engineering Corporation, Ltd.—Cama Chambers, 23, Medows Street, Fort.

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Ina Machinery Corporation.—65, Mahatma Gandhi Road.
Industrial & Agricultural Equipment Co.—29, Hamam Street, Fort, Bombay 1.

Jacks, William, & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Fort.

Janak Engineers.—4th Floor, Lentin Chambers, Dalal Street, Fort.
Jayems Engineering Co.—Warden House, Sir Phirozesah Mehta Road, Fort.

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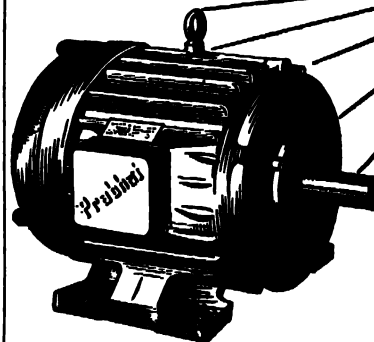
Modi & Modi Co.—16, Hamam Street, Fort, Bombay.

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Radiant Engineering Co.—79, Meadows Street, Bombay 1.
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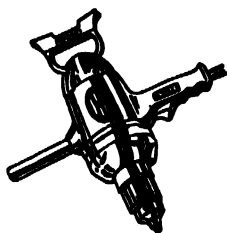
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- Central Tool & Equipment Co.—32, Sarang Street, Bombay 3.
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- Chadha, B. M., & Co. Ltd.—Jan Mansion, Sir Phirozshah Mehta Road, Fort, P. O. Box No. 671, Bombay.
- Choksi, H., & Co.—106, Meadows Street, Fort.
- Daulatram Ratanji & Co.—208, Nagdevi Street, Bombay 3.
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- Industrial & Agricultural Equipment Co.—29, Hamam Street, Fort, Bombay 1.
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- International Tools & Hardware Stores.—84, Kika Street, Bombay 4. Phone: 73636. Grams: "SANITARY".
- Jairamdas & Sons.—158-160, Narayan Dhuru Street, Bombay 3.
- James Tools & Hardware Co.—109-111, Nagdevi Street, Bombay 3.
- JAYANT ENGINEERING & MILL STORES.**—Industrial House, 39, Nagdevi Cross Lane, Bombay 3. Grams: "CALLIPERS." Importers & Stockists of measuring Instruments, Precision Tools and Metal cutting Tools, etc.
- Jayantilal Bhagwandas & Co.—96, Nagdevi Cross Lane, Bombay 3.
- John Fleming & Co. Private Ltd.—Bastion Road, Bombay 1.
- Jones, J. D., & Co. (Bombay) Ltd.—Rustom Building, Churchgate Street, Fort.
- Kadaka Trading Corporation.—25, Bibijan Street (Nagdevi), Bombay 3. Phone: 29493. Grams: "STEAMTRAP".
- KALA INDUSTRIES (BOMBAY).**—84/86, Nagdevi Cross Lane, Bombay 3. Phone: C/o 39011.
- Kamlashanker P. Joshi.—72-80, Nagdevi Cross Lane, Bombay 3.

KANTILAL BHOGILAL & CO.—(Estd. 1933), Engineering and Metal-cutting Tools, Precision & Machinery Tools, Garage Tools and Worn & Triple gear Pulley blocks and Abrasive Products, 68, Nagdevi Cross Lane, Bombay 3. Phone: 30337 (Office) and 22947 (Residence). Grams: "PIPETOOLS."

KIRTLAL & CO.—31, Bibijan Street, Barhai Mahalla, Bombay 3. Phone: 23572. Grams: "PIPEWRENCH." Mill gin store suppliers and hardware merchants.

MACHINE TOOLS & IMPLEMENTS.—93-95 Narayan Dhuru Street, Bombay 3. Phone: Office: 22988. Res. 24243. Grams: "MACHTOOLS."

Marine & Mills Agencies.—197, Nagdevi Street, Bombay 3. Mehta Hardware Mart.—81-83, Nagdevi Street, Bombay 3.

MEHTA NANAVATI & CO.—96, Narayan Dhuru Street, Bombay 3. Phone: 39345. Grams: "REDJOINT."

M. KANTILAL & CO.—70, Nagdevi Cross Lane, Bombay 3. Phone: 20245. Grams: "GITIDI". Importers and Stockists of Engineering Tools, Hardware, etc. Accredited Dealers for WOLF Electric Tools, ADDISON'S Metalcutting Tools. Sub-Agent for BIRKBEIT hairbelting and stockists of GRINDWELL abrasives. Authorised stockists of SHIVAJI vices. Stockists of SIF Low tungsten & High Speed Hand & Power Hack Saw Blades. Authorised stockists of Simpson Forges Blowers.

Modern Machine Tools Co.—88, Nagdevi Cross Lane.

MODY BROTHERS & CO.—25, Nagdevi Cross Lane, Bombay 3. Phone: 30958. Grams: "MODEROSCO."

NAGDEVI TOOL-STEEL MART.—186-88, Nagdevi Street, Bombay 3. Phone: 23058. Grams: "TENDERERS."

New Hind Engineering Co.—63, Nagdevi Cross Lane, Bombay 3. New India Hardware Mart.—152, Narayan Dhuru Street, Bombay 3. Panalal Mohanlal & Co.—89, Nagdevi Street, Bombay 3. Paramount Tools Company.—3, Narayan Dhuru Cross Lane, Bombay 3.

Parekh Trading Co.—48, Nagdevi Cross Lane, Bombay 3.

Patel, U. D., & Co.—Bank Street Building, Fort.

Pioneer Traders & Ball-Bearing Co.—154, Kadakia Mansion, Narayan Dhuru Street, Bombay 3.

PRAFULCHANDRA & CO.—106, Lohar Street, Bombay 2. Phone: 39007. Grams: "ELECTTOOLS." Importers & Stockists of Engineering Tools, Precision Tools & Garage Tools.

P. Ratilal & Co.—48, Dhanji Street, Moti Mahal, Bombay 3. Phone: 32700.

Rasiklal, K., & Co.—Mehta Building, Meadows Street, Fort

RASIKLAL SHAH & CO.—93, Narayan Dhuru Street, Bombay 3. Grams: "PRECISION". Engineering Stores, Mills Stores, General Hardware Merchants and Precision Tools.

RELIANCE TRADING CO.—Vithal Sayana Building No. 1, Lohar Street, Bombay 2. Phone: 36751. Grams: "STORE-TRADE".

Shah & Brothers.—234, Nagdevi Street, Bombay 3.

SHAH ENGINEERING STORES.—Post Box No. 3248, Nagdevi Cross Lane, Bombay 3. Phone: 39757. Grams: "KIREET-BABU." Direct Importers & Selling Agents for: Precision measuring tools, Workshop Equipment, Machine tools, Smithy Tools, Hardware, Small Tools, etc.

SHAH MACHINE TOOLS CO.—75, Abdul Rehman Street, Bombay 3. Phone: 23275. Grams: "SHAHTOOLS." Workshop Tools, Precision Tools & Hardware Merchants, Pipes & Fittings Suppliers.

Shah Patel & Co.—109-111, Nagdevi Street, Bombay 3.

SHAH PRATAP & CO.—84, Old Custom House Road, Fort, Bombay. Phones: 255615 and 255616. Grams: "VINPRE."

SHALEBOY TYEBJEE & SONS (Estd. 1840).—12, Bruce Street, Fort, Bombay 1. Phone: 252357. Grams: "ROTATOR."

Small Tools & Hardware Supply Agency.—129, Sarang Street, Bombay 3. Phone: No. 31177. Grams: "SMALLTOOLS."

S. Sevantilal & Co.—246, Masjid Bunder Road, Bombay 3. Standard Trading Co.—Vithal Sayana Building No. 2, Lohar Street, Bombay 2.

Techno Industrial Co.—107, Sir Vithaldas Chambers, 16, Apollo Street, Fort, Post Box No. 811, Bombay.

Trade (India) Corporation.—58, Mohamedalli Road, P.O. Box 3231, Bombay.

T. M. Tyabji & Brothers.—Hamam House, Hamam Street, Fort.

Trinity Electric Syndicate.—Princess Street, Bombay 2.

T. Salchbhoy & Co.—54, Sarang Street, Bombay 3.

Vadilal & Co., C.—40, Nagdevi Cross Lane, Bombay 3.

Viswabharti Trading Co.—14, Kumpia Street, Ballard Estate, Bombay 1.

Vora, J. C., & Co.—107, C. P. Tank, Bombay 4.

William Jacks & Co., Ltd.—Hamilton House, Ballard Estate, Bombay.

ENGINEERS AND CONTRACTORS

"Abco."—30, Sarang Street, Bombay 3. Phone: 39032.

Abdeally, B. M., & Co.—127, Sarang Street, Bombay 3.

Abdul Husein Esafally.—Contractor, 91-93, Bapu Khote Street, Bombay 3.

Acme Manufacturing Co., Ltd.—Construction House, Witlet Road, Ballard Estate.

Acme Manufacturing Co., Ltd., The.—Antop Hill, Wadala, Bombay 19.

Adamally Sons Ltd.—277, Nagdevi Street, Bombay 3.

Air Conditioning Corporation Ltd.—Construction House, Witlet Road, Ballard Estate.

Alcock, Ashdown & Co., Ltd.—16, Bank Street, Fort.

Alfred Herbert (India), Ltd.—Kaiser-i-Hind Building, Ballard Estate.

All-India Construction Co., Ltd.—Construction House, Ballard Estate.

Allied Construction Co., Ltd.—Panalal Banalal Mansion, 24/B, Hamam Street, Fort.

Apollo Engineering Co.—84, Apollo Street, Fort.

Associated Machine & Tools Co.—130, Meadows Street, Fort.

Autogenous Welding & Repair Co. Private Ltd.—63, Ferguson Road, Bombay 13.

Babcock & Wilcox, Ltd.—16, Queen's Road Estate, Bombay.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate.

Batliboi & Co.—Forbes Street, Fort.

Bhagat & Sons, Ltd.—Prospect Chambers, Hornby Road, Fort, Bombay.

Bharat Electric & Engineering Corporation.—28, Apollo Street, Fort. Billington, W., & Co., Ltd.—Imperial Chambers, Wilson Road, Ballard Estate.

Brady, W. H., & Co., Ltd.—Royal Insurance Building, Churchgate Street.

British Engineering Co.—105, Apollo Street, Fort.

British Steel Piling Co. (India) Ltd.—Hamam House, Hamam Street, Fort.

Candy Filters (India), Ltd.—Forbes Building, Home Street, Fort.

Cementation Company Ltd.—Kasturi Building, Jamshedji Tata Road, Bombay 1.

Chadha, B. M., & Co., Ltd.—Jan Mansion, Sir Phiroosah Mahta Road, Fort, P. O. Box 671, Bombay.

Choksi, H., & Co.—106, Meadows Street, Fort.

Chotani Electric Engineering Co. Ltd.—57, Apollo Street, Fort.

Curtis, & Co., Ltd. J.,—36-40, Mahalaxmi Bridge Arcade, Bombay 11.

Diamond Electric Co.—18, Hamam Street, Fort.

Dinshaw Master & Co., Ltd.—247, Nagdevi Street.

Drewet, Chowna & Co.—Lentin Chambers, Meadows Street, Fort.

Duncan, Stratton & Co., Ltd.—5, Bank Street.

Economic Electric Co., Ltd., The.—Jail Road (East), Dongri, Bombay 9.

Economy Traders.—Dholandas Mansion, Cumballa Hill, Gowalla Tank Road, Bombay 26.

Edgar Handley and Company Limited.—139, Meadows Street, Fort, Bombay.

Electric Cable & Machinery Co.—45-47, Forbes Street, Fort.

Engineer, Eruch D., & Co.—Crossley House, Apollo Street, Fort.

Essentially Adamji & Co.—184, Nagdevi Street.

Essential Engineering Co.—11, Botawalla Building, Elphinstone Circle, Fort.

Fleming John & Co. Private Ltd.—Sukhadwala Building, 21, Bastion Road, Fort.

Fleming Shaw & Co., Ltd.—Sorab House, 235, Hornby Road.

Fowler, John & Co. (India), Ltd.—Marshall's Building, Ballard Road.

Francis Klein & Co. (Bombay) Ltd.—Shale Building, Bank Street, Fort.

Gagrat & Co.—160, Nagdevi Street, Bombay 3.

Gammon India Private Ltd.—Hamilton House, Graham Road, Ballard Estate. Grams: "GAMMON".

Gannon, Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.

GARLICK & CO. PRIVATE LTD.—Haines Road, Jacob Circle.

General Electric Co. of India, Ltd., The.—Magnet House, Dougall Road, Ballard Estate.

Glenfield & Kennedy, Ltd.—198, Jamshedji Tata Road, Bombay 1.

Greaves, Cotton & Co., Ltd.—1, Forbes Street, Fort.

Guest, Keen, Williams, Ltd.—Wakefield House, Sprott Road, Ballard Estate, Bombay.

Haiderbhoy Esamalljee & Co.—168, Nagdevi Street, Bombay 3.

Hardcastle Wand & Co., Ltd.—Alice Building, Hornby Road, Fort.

Haydari Construction Co., Ltd.—111, Mahatma Gandhi Road, Fort.

Healy & Graham, Ltd.—9, Forbes Street, Fort.

Honley's Telegraph Works Co., Ltd.—Honley House, Ballard Estate.

Hind Constructions Ltd.—United India Bldg., Sir Phiroosah Mahta Road, Fort.

Hindustan Construction Co., Ltd.—Construction House, Ballard Estate.

HINDUSTAN ELECTRIC CO., LTD., THE.—Thackersey House, Graham Road, Ballard Estate, Bombay 1. Manufacturers of ACSR Conductors and Cables, Transformers, Electric Motors, Switchgear, etc. Engineers, Contractors and Suppliers of Plant, Machinery and Equipment. Branches, Representatives all over India. Works: Howrah and Faridabad. Tel. Address: "UDYOG." Phone Nos. 26-1121, 26-1122, 26-1123.

Huge Engineering Co.—Imperial Chambers, Wilson Road, Ballard Estate.

Huges & Davies.—101, Mahatma Gandhi Road, Fort.

Indian Hume Pipe Co., Ltd.—Construction House, Wittet Road, Ballard Estate.

Indian National Construction Co.—All Chambers, Tamarind Lane, Fort.

Industrial Electrical Engineering Co.—Raja Bahadur Mansion, 10, Hamam Street, Fort.

Jacks, William, & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Fort.

Jayems Engineering Co.—Warden House, Sir Phirozshah Mehta Road, Fort.

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Kumar Engineering Works.—65, Mahatma Gandhi Road, Fort. Kurwa & Kajiji.—142-144, Abdul Rehman Street.

Larsen & Toubro Ltd.—I. C. House, Dougall Road, Ballard Estate, P.O. Box 278, Bombay.

Marshall Sons & Co. (India), Ltd.—Marshall's Buildings, Ballard Road, Fort.

Mather & Platt, Ltd.—Hamilton House, 8, Graham Road, Ballard Estate.

Mayashanker Thacker & Co.—47-A, Apollo Street, Fort.

Mazagon Dock, Ltd.—Mazagon.

McKenzie, Ltd.—Sewri.

Metals Private Ltd.—269, Dr. Dadabhai Nauroji Road, Bombay 1.

Minimax, Ltd.—63, Moreland Road, Byculla.

Modern Electric Co.—40, Cawasji Patel Street, opp. Hongkong Bank, Fort, Bombay 1.

Modern Electrical Trade Syndicate.—Wasslamul Building, 182, Masjid Bunder Road, Bombay 3.

Modern Mercantile Works.—Lotus Bldg., Hornby Road, Fort.

Modern Textile Engineering Works.—194-A, Trimbak Parashram Street, Golpitha, Bombay 4.

Motly Trading Co.—50, Nagdevi Cross Lane, Bombay 3.

Motichand & Co.—United India Building, Sir Phirozshah Mehta Road, Fort.

Muncherjee Byramjee & Co. (Estd. 1882).—Jerajbhoy Street, 100, Foras Road, near Municipal Workshop, Bombay 8.

Nadirshaw & Bros.—Silver Talkies Building, Khetwadi Back Road. **New Consolidated Construction Co., Ltd.**—Rahimtools House, Homji Street, Fort.

PANCHAL IRON WORKS.—Engineers & Founders, 51, Tardeo Road, Bombay 7. Phone: 73934.

Pandit & Co.—Hamam House, Hamam Street, Fort.

Paramount Engineering Co.—Fort Chambers, Hamam Street, Fort. Phone: 26064. Grams: "SHARU".

Poonager, Billimoria & Co.—Cama Building, 24-26, Dalal Street, Fort. Phone No. 23625.

Premier Construction Co., Ltd.—Construction House, Wittet Road, Ballard Estate, Fort.

Protos Engineering Co., Ltd.—173, Jamshedji Tata Road, Churchgate, Bombay.

Reliance Electric & Hardware Stores.—55, Krishna Bhuvan, Lohar Chawl.

Reliance Trading Co.—Vithal Sayana Building, Lohar Street, Bombay 2.

Richardson & Cruddas Ltd.—Byculla Ironworks, Byculla.

RAMJI DAYAWANLA & SONS PRIVATE LTD.—Erection Engineers and Constructors of Industry such as Erection of Steel Plants (Blast Furnaces, Rolling Mills, etc. Sugar Plants, Steam and Hydro Power Plants, Fertiliser Factories, Laying & Welding of Pipes, Welding Storage tanks etc., etc., Stadium House, Block No. 2, Veer Nariman Road, Bombay 1. Phones: 36980 (Office) and 78539 (Res.). Grams: "ARDESON." Regd. Office: Palla Street, Nampura, Surat. Phone: 577.

Sampat & Co.—39, Yusuf Building, Hornby Road, Fort.

SAURASHTRA ENGINEERING CORPORATION PRIVATE LTD.—Jannabhoomi Chambers, 29, Fort Street, Bombay 1. Phone—Office: 26-2666; Factory: 67842. Grams: "SIN-SANATT." Specialists in Textile Dobbys.

SEWRI ENGINEERING CONSTRUCTION CO. PRIVATE LTD.—Savoy Chambers, West Wing, Wallace Street, Fort, Bombay 1. Phones: 263941 and 261456.

Sewri Engineering Works.—234, Sewri Road, Bombay 15.

S. G. Phadke & Sons.—Engineers & Contractors, 6, Meadows House, 30, Meadows Street, Fort, Bombay.

SEAH ENGINEERING STORES CORPORATION.—Industrial House, 51/53, Nagdevi Cross Lane, Bombay 3. Grams: "KINGTOOLS." Head Office: 67/B, Netaji Subhas Road, Calcutta 1. Direct Importers and Stockists of Engineering Tools, Mill Gin Stores, etc.

Shapoorji Pallonji & Co.—70, Meadows Street, Fort.

Sharp, R., & Sons.—Kaiser-i-Hind Building, Ballard Estate.

Simpson, D. R., & Co.—33, Gamdevi Road, Bombay 7.

Simplex Concrete Works & Construction Co.—"La-Citadelle", 32, Queen's Road, Bombay.

SK F Hall Bearing Co. Private Ltd.—Mustafa Building, 19, Sir Phirozshah Mehta Road, Fort, P.O. Box No. 71, Bombay.

Smidth & Co. (Bombay) Ltd., F. L.

Stewarts & Lloyds of India, Ltd.—Himalaya House, Palton Road, Fort, Bombay 1.

Structural Engineering Works Ltd.—Prospect Chambers, Hornby Road, Fort.

Surveyors & Co., Ltd.—Prospect Chambers Annexe, Fort.

Swastik Rolling Shutters Engineering Works.—Parcel Station Road, Bombay 12. Phone: 62041. Grams: "SWASTIKROL".

Taherbhoy Goolamhusain & Bros.—Masagon Dock.

Tata Hydro-Electric Agencies, Ltd.—Bombay House, 24, Bruce Street.

Techno-Industrial Co.—107, Sir Vithaldas Chambers, 16, Apollo Street, Fort.

TEXTTOOL TUBE CO.—P.B. No. 3271, 8, Nagdevi Street, Bombay 3. Grams: "TEXTTOOL".

Thos. W. Ward (India) Ltd.—Marshall Building, Ballard Road, Ballard Estate, Fort.

Trinity Electric Syndicate.—Princess Street, Bombay 2.

TUBETOOLS AND HARDWARE MART.—94, Nagdevi Street, Bombay 3. Phone: 39645. Grams: "EVERJOY".

Turner, Hoare & Co. Ltd.—Gateway Building, Apollo Bunder, Bombay 1.

United Engineering Corporation.—Datoobhoy Building, 5, New Queen's Road.

Universal Asphalt Products & Construction Co.—"La-Citadelle," Queen's Road.

Universal Construction Co.—Sir Vithaldas Chambers, 16, Apollo Street, Fort.

Verma, Ramal G.—Bell Building, 4th Floor, 6, Sir Phirozshah Mehta Road, Fort.

Vickers (India), Ltd.—Killek Building, Home Street, Bombay.

Victoria Sanitary Stores.—54, 3rd Bholwada, Bhuleshwar, Bombay 2.

Voltas Ltd.—10, Graham Road, Ballard Estate.

Western Engineering Co.—Western India Building, Sir Phirozshah Mehta Road, Fort. P.O. Box 75.

Western India Engineering Corpn. Ltd.—Cama Chambers, 23, Meadows Street, Fort.

ENGRAVERS AND DIE-SINKERS

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CLARIDGE, G., & CO., LTD.—Frere Road, Fort, Bombay 1. Phones: 263201 and 263202. Grams: "BRAD." Security Printers, Photo-Offset, Book-Binders, Box-makers and Packing experts.

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Thacker & Co., Ltd.—Rampart Row, Fort.

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Gujrat Essence Mart.—126, Princess Street, Bombay 2. **Indiana Chemical Works (India) Ltd.**—Atlas Mills Compound, Reay Road, Bombay 10.

Parry & Co., Ltd.—Warden House, Sir Phirozshah Mehta Road, Fort.

Royal General Supply Agency, The.—Bode Chawl, Princess Street, Bombay 2.

T. Alimohamed & Co.—144-46, Sarang Street, Bombay 3.

T. S. Abdullahy & Co.—290-92, Abdul Rehman Street, Bombay 3.

ESSENTIAL OILS

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Anil Trading Co.—Sharaf Mansion, 32, Princess Street, Bombay 2.

AROMATIC PRODUCTS & CHEMICALS PRIVATE LTD.—Importers and Indentors of Essential Oils, Aromatic Chemicals and Perfumery Raw Materials. 42, Prospect Chambers Annexe, Dr. Dadabhai Naoroji Road, Fort. Grams: "DISCOVERY." Phone: 25315.

Bajumal Santsaram.—204, Samuel Street, Vadgadi, Bombay 3. **B. C. Patel & Co.**—79, Princess Street, Bombay 2.

CALCUTTA ESSENCE SUPPLY CO.—Mulchand Mansion, 1st Floor, Princess Street, Bombay 2. Grams: "SUPRALUX." Phone: 22623. Dealers and Importers of Essential Oils, Aromatic Chemicals and Perfumery Compounds. Agents for Industrial Perfumers Private Ltd., for Bombay State (except Bombay City) and West Bengal including Calcutta.

Cox & Co., Ltd., H. S.—24, Rampart Row, Fort, Bombay.

DAVAR, M. C., & CO.—143, Princess Street, Bombay 2. Aromatic Chemicals, Essential Oils and Perfumery materials. Agents for:—Esrolke Ltd. (Flora), Switzerland.

D. D. Shah & Co.—Anees Chambers Annexe, Carnac Road, Bombay 1. **Dhamdhero, K. H.**—45-47, Princess Street, Bombay No. 2. Tel. No. 30683.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi.

F. Book & Co.—Shale Building, Bank Street, Bombay 1.

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GENERAL IMPORT CO. (INDIA).—Keshav Baug, 102, Princess Street, Bombay 2. Phone: 38497. Grams: "SODALEMON." Aromatic Chemicals, Essential oils, Aerated water requisites, Essences, Harmless Food Colours and Saccharine.

Gujrat Essence Mart.—126, Princess Street, Bombay 2. **Kantilal Sanghvi & Co.**—Mherwan Building, Sir Phirozshah Mehta Road, Fort.

Kapadia & Co.—19, Phirozshah Mehta Road, Fort, Bombay 1. **K. Metharam.**—491-3, Kalbadevi Road.

Kirtikumar & Co.—80, Bhandari Street, Mandvi, Bombay 3.

Latham Abercrombie & Co., Private Ltd.—Forbes Building, Home Street, Fort.

Manek Chemical Company.—Bhadaran Nagar, Ghodbunder Road, Malad, Bombay. Cable Address: "AROMA-MALAD." Importers and Stockists of Essential Oils and Aromatic Chemicals.

Mercantile Essential Oil Company.—5, Mint Road, Fort, Bombay. Phone: 261357. Grams: "GERANIOL." Stockists of Palma Rosa Oil (Mofla & Sofla), Ginger Grass Oils. Dealers in Indian & Essential Oils.

N. CHIMANLAL & CO.—160, Princess Street, Bombay 2. Phone: 22010. Grams: "GODSAVE."

Narandas G. Bhatia.—157, 5th Cavel Cross Lane, Galwadi.

Narendra & Co.—Bansilal Mansion, 11, Bruce Street, Fort.

New India Pharmacy.—Shroff Mansion, 32, Princess Street.

Purekh Bros., Ltd.—65, Mahatma Gandhi Road, Fort.

ODHAWJI LAWJI & CO.—Chikhali House, 144 B, Princess Street, Bombay 2. Phone: 29164. Grams: "FLUMOL." Direct Importers and Dealers in Essential Oils, Aromatic Chemicals, Chemicals, Soda-Water Machinery, Co. Gas & Cylinders, Essences, Colours, Empty bottles, Pure-Saccharine, Crown-Corks, etc.

Oriental Aromatics.—Sharaf Mansion, 32, Princess Street, Bombay 2. **Poonjilal, J. M. Jehangir.**—Byranji Mansion, Sir Phirozshah Mehta Road, Fort, Bombay.

Pravin Brothers & Co.—37, Bora Bazar Street, Bombay 1.

Royal General Supply Agency, The.—Bode Chawl, Princess Street, Bombay 2.

Scientific & Industrial Supplies Corporation.—Princess Street, Bombay 2.

S. H. Kelkar & Co. Private Ltd.—36, Mangaldas Road, Bombay 2.

SIKRI BROTHERS.—79-E, Princess Street, Bombay 2. Phone: 29393. Grams: "OILMAN."

Shapurji & Co., R. K.—Prospect Chambers, 319, Hornby Road, Fort, Bombay.

SUDAN TRADING CO.—"Dhan-Nur," Phirozshah Mehta Road, Bombay 1. Phones: Office: 262788; Res.: 62089. Grams: "VANSOBHA."

T. Alimohamed & Co.—144-46, Sarang Street, Bombay 3.

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KAYCEE INDUSTRIES LTD.—Karnal Chambers, Nicol Road, Ballard Estate, Bombay 1. Phone: 262757. Grams: "KAYCEE." Representatives for MARELLI Exhaust Fans.

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Alsacia Ltd.—0, Wallace Street, Bombay 1.

Bhargava & Co., K. - G. P. O. Box No. 19, Bombay 1.

C. Bhimjee Poonja & Sons.—20, Khokha Bazar, Bombay 3.

CHUNILAL & CO.—74, Abdul Rehman Street, opp. State Bank, Bombay 3. Expanded Metal, Perforated Brass, Copper and Zinc Sheet, G.I. Square and Hex Wire Netting and Stainless Steel, and Monel Metal Netting Merchants. Phone: 27110. Grams: "HIRCHUNG."

Daulatram Ratanji & Co.—208, Nagdevi Street, Bombay 3.

East Asiatic Company (India) Private Ltd.—Wavell House, Graham Road, Ballard Estate. Phone: 26-2711.

Excel Importers.—89, Princess Street, Bombay 3.

FAKRUDDIN & CO.—43, Abdul Rehman Street, Post Box No. 3066, Bombay 3. Phone No. 34534. Grams: "EXMETAL."

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HARISECHANDRA & CO., JALIWALA.—233, Abdul Rehman Street (opp. Sutar Chawl), Bombay 3. Manufacturers of perforated metal sheets of all kinds, and stockists of MAX-WELD fabrics, Expanded metals, Wire Netting of all kinds. On Govt. Railway & Municipal Lists. Grams "HARIJALI."

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Hoosain, M. A., & Bros.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

Indian Expanded Metals Ltd.—2nd Floor, Prospect Chambers, Hornby Road, Fort, Bombay.

Jacks, William & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Fort.

Kantilal Sanghvi & Co.—Mherwan Building, Sir Phirozshah Mehta Road, Fort.

Keshavlal Naraldas Jaliwala.—157, Abdul Rehman Street, Bombay 3.

Maneklal & Co.—106, Dr. Dadabhai Naoroji Road, Bombay 1.

P. Box No. 626. Grams: "MERCURY" & "MERCEDES". Phone: 26-3234. 'CRC' Welded Steel Wire fabric for Concrete Reinforcement.

Mehta & Co.—35, Abdul Rehman Street, Bombay 3.

NASE & CO.—103, Abdul Rehman Street, Bombay 3. Govt. & Rly. Contractors and also Dealers in Expanded Metal, Galvanised Brass, Copper Wire nettings, Plain Zinc Sheets, Perforated Brass, Copper Zinc Sheets, Welded Mesh Green Wire nettings, Asbestos Cement Sheets, Plain Corrugated Veneer Plywood, Masonite, Presswood, Plywood, Woven Wire Fence and Wire netting, Decorative Plywood for furniture as a Teak Mahogany, Walnut in all sizes and thickness. Phone: 34968.

National Hardware & Stores Supply Co.—Post Box 3146, Bombay 2.

Parsee Trading Co.—Vithal Sayana Building No. 2, Lohar Chawl, Bombay 2.

Relliance Trading Co.—25-47, Lohar Street, Bombay 2.

Saffy, T. A., & Bros. (India).—20, Sarang Street, Bombay 3.

Shah & Co., Jaliwala.—"Jay Nivas", 36, Abdul Rehman Street, near Pydhonie, corner of Sutar Bazar, Bombay 3.

Sriram & Co.—97, Narayan Dhuru Street, Bombay 3.

S. MEHTA & CO.—Knees Chambers, Carnac Road, Bombay 1. Phone: 28-3001. Grams: "DUTY BOUND". Wire Netting and Perforated Metals & Stainless Steel Wire Nettings and Monel Metal Wire Nettings. Importers, Exporters & Merchants.

FACTORY AND CALENDAR CLOCKS

ESSENTIAL ENGINEERING CO.—11, Botawala Building, Elphinstone Circle, Fort. Phone: 252940. Grams: "ESSENCE." Importers, Exporters, Commission Agents and Manufacturers' Representatives.

FACTORY TIME SAVING SERVICES

Batlilol & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No. 255451-55. Grams: "BATLIBOCO". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Colabatore and Vijayvada. Associates: Bangalore and Secunderabad.

FANCY GOODS DEALERS

D. Ram & Co.—Krishna Nivas, New Silk Bazar, P.O. Box 2376, Bombay 2.

EBRAHIM ALLIBHOY & SONS (ESTD. 1934).—Importers and Exporters, 260-64, Abdul Rehman Street, Bombay 3. Phone: 34863.

Kalyan & Sons.—Bode House, Ormiston Road, Apollo Bunder, Fort.

Kashmir Govt. Arts Emporium.—Sir P. M. Road, Bombay 1.

MARVIN & CO.—3, Modi Chambers, Kennedy Bridge, Bombay 4. Phone: 40448. Grams: "VINMAR."

Muhammed Ahmed & Bros.—220, Cutlery Bazar, Bombay 3.

New India General Stores.—33, Medows Street, Fort.

Saleemohamed Padamee & Co.—141, Chukla Street, Bombay 3.

S. G. Kothari & Co.—88-90, Abdul Rehman Street, Bombay 3.

FELTS (WOOLLEN) PRESSED

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 29990. Grams: "ALERTDEAL".

JAFFERBAI & CO.—106, Bhendi Bazar, P.O. Box No. 3055, Bombay 3. Phone: 70524. Grams: "NECESSITY."

MAMAJI & SON (PRIVATE) LTD., Y.A.—136-38, Sir Ebrahim Rahimtulla Road, Bombay 3. Phone: 71262. Grams: "MA-MAJISON." Importers and Exporters; P.V.C. Leather Cloth, Motor & Carriage Upholstery Materials, Saddlery & Harness goods and all kinds of felt.

WILLIAMS, G., & CO. PRIVATE LTD.—Steelcrete House, 5th Floor, Sir Dinshaw Vachha Road, Backbay Reclamation, Bombay 1. Phone: 36952. Grams: "BLANWIRE".

FENTS (CUTPIECES)

Ahmed Ebrahim Bros.—88, Chukla Street, Bombay 3.

Allied Exporters.—Kumud House, 267, Hornby Road, Fort.

Bajaj Bros. Ltd.—Round Building, Kalbadevi.

Bhagwandas Chatrabhuj & Co.—20, Hamam Street, Fort.

Ebrahim Allibhooy & Sons.—260-64, Abdul Rehman Street, Bombay 3.

Hoosain, M. A., & Bros.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

Kantilal Sanghvi & Co.—Mherwan Building, Sir Phirozshah Mehta Road, Fort.

Yacoub Ahmed Bros.—Topiwala Mansion, Mahomedally Road.

FERTILIZERS

SHARAT FERTILIZER INDUSTRIES.—12, Manabhey Lane, Fort, Bombay. Phone: 254819. Grams: "PARASAGE." Use "Sharat" brand Manure mixtures for all crops & gardening.

Bharat Pulverising Mills Private Ltd.—Sayani Road, Bombay.

CHEMBUR BONE & FERTILIZER CO., PRIVATE LTD.—Managing Agents: Anderson Dawn & Co., Darabshaw House, Ballard Road, Bombay 1. Phones: Office: 263839; Factory: 67101. Grams: "BYPRODUCT."

Imperial Chemical Industries (India) Ltd.—Imperial Chemical House, Dougall Road, Ballard Estate.

Nanavati & Co., Ltd.—16, Apollo Street, Fort.

National Fertilisers Ltd.—Shale Building, Bank Street, Fort.

Poonjilal, J. M. Jehangir.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort, Bombay.

PRAVIN BROTHERS & CO.—37, Bora Bazar Street, Bombay 1. Phones: 263804 & 262159. Grams: "WIDESCOPE". Importers, Exporters & Agents. Sulphur—Chemicals—Fertilisers—Minerals—Lence—Jute Products.

Premji Haridas & Co.—Bhanushal Chambers, Argyle Road, Bombay 9.

RANADE & PARTNERS.—Bombay Mutual Annexe, 4th Floor, 17, Gunbow Street, Bombay 1. Grams: "JALYANTRA." Phones: 261038 (Office); 61091 (Resi.). Dealers in Super-phosphate & other chemical fertilizers.

T. T. Krishnamachari & Co.—Vulcan Insurance Building, Veer Nariman Road, Bombay 1.

Western Chemical Industries.—Goregaon (East), Bombay.

FIRE-BRICKS & REFRACTORIES

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

Datson Ravira & Co.—43, Tamarind Lane, Fort.

JIVRAJ & VRAJLAL.—122, Nagdevi Street, Bombay 3. Phone: 30138. Grams: "SANIPIES."

Nowroji N. Vakil & Co.—Sheru Castle, Mahomedally Road, Bombay 3.

FIRE FIGHTING APPLIANCES (MANUFACTURERS AND DEALERS)

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone 29990. Grams: "ALERTDEAL".

Armstrong Smith Private Ltd.—Gresham Assurance House, Sir P. M. Road, Bombay 1.

ASIA ENGINEERING CO.—39, Nagdevi Street, Bombay 3. Phone: 23016. Grams: "INTERBELT." Manufacturers of Foam and Soda Acid type Fire Extinguishers.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Bombay 1.

Crescent Trading Co.—48, Bhajipala Lane, Bombay 3.

EASTERN LEATHER WORKS.—Corner of Vithalbhai Patel Road and Sandhurst Road, Prarthana Samaj, Bombay 4. Phone Nos: 71123 & 71703. Grams: "CAMERACASE". Manufacturers of Leather Helmets, Jack Boots, Pompier Belts, Footwear & other leather equipment for Fire fighting purpose.

Fleming, John & Co. Private Ltd.—P. B. No. 76, Bombay 1. Phone: 261153.

INDUSTRIAL COMMERCIAL CORPORATION.—157-59, Narayan Dhuru Street, Bombay 3. Manufacturers of Fire Hose Pipes & G. M. Fittings.

JIVRAJ & VRAJLAL.—122, Nagdevi Street, Bombay 3. Phone: 30138. Grams: "SANIPIES."

Kilburn & Co. Private Ltd.—Gresham Assurance House, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Kooverji Devshi & Co. Private Ltd.—164, Lohar Chawl, Bombay 2.

Phones: {38975
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KOOVERJI DEVSHI CO. PRIVATE LTD.

164, Lohar Chawl, Bombay 2.

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"FIREX" Fire Extinguishers—Soda Acid, Foam, CO₂/Water & "AUTO-FIREX" C.T.C. types, "President Deluxe", "Fire-Master" & Jeep Fire Engines, Fire Fighting Equipments of all types.

Direct Importers and Stockists of:

Fire Engines, Tractor Pumps "Coventry Climax", Handry's Helmets, Waterloo Dry Powder Extinguishers, Firewater, Firemen's Wheat Spotlights, "Extinguisher" Fire Hoses and other auxiliaries.

Merchant Bros.—151, Nagdevi Street.

MINIMAX LTD.—Jammabhooni Chambers, 29, Fort Street, Bombay 1. Phone: 25-2579. Head Office: Mercantile Buildings, 12, Lall Bazar Street, Calcutta 1. Phone: 22-3675 (for details see Page 841).

NATIONAL FIRE EQUIPMENT CO.—11, Bank Street, Bombay 1. Grams: "STORESUPLY." Sole Agents for Messrs. Albin Motor Co., Kristinehamn, Sweden. Makers of Fire Engines, Messrs. Mandals Reberbane C.H. CO., Oslo, Norway. Makers of Hose Pipes, H. Christoferson & Co., Goldberg, Sweden. Makers of Glass Fibre Fire Resisting Suits.

Roberts, McLean & Co. Private Ltd.—Ilaco House, Sir Phirozshah Mehta Road, Bombay.

SEAH PRATAP & CO.—84, Old Custom House Road, Fort, Bombay. Phones: 255615 & 255616. Grams: "VINPRA." Shalebhoj Tyebjee & Sons.—12, Bruce Street, Bombay 1. William Jacks & Co., Ltd.—Hamilton House, Ballard Estate, Bombay 1.

FIRE PROOF DOORS

RADIANT ELECTRIC & MACHINERY CO.—Vithaldas Chambers, Bruce Street, Bombay 1. Phone: 255297. Fire Proof Doors and Automatic & Manual type to approved Specification (on Bombay Fire Insurance Association approved list), Steel Sashes, Trusses and all Structural works.

FIRE WORKS MANUFACTURERS AND DEALERS

ABBASHOY ABDULHUSEIN KAKA.—Prop., Kaka Fire Works. Factory: 244, Jama Masjid, Bombay 2. Phone: 27778. Grams: "KAKAFIRE".

DADA FIRE WORKS PRIVATE LTD.—H. O.: 240-42, Jama Masjid, Bombay 2. Phone: 22744. Grams: "CLEAN-LIGHT". Branch: 9, Sholapur Road, Poona.

Ladak & Co.—19, Sherif Devji Street, Bombay 3.

FISHING REQUISITES

Cole, R. A., Private Ltd.—22, Apollo Street, Bombay 1. Phone: 251517/8. Grams: "DERRAC." Manufacturers of Thermocole Plastic Fishing Floats.

Rasiwalla & Co., M. M. A.—17, Janjkar Street, Mandvi, Bombay 3.

FLASHLIGHT TORCHES, DRY BATTERIES AND TORCH BULBS

BOMBAY NOVELTY STORES.—74, Lohar Chawl, Bombay 2. Phone: 29454. Grams: "BONOSTORES." Distributors of "EVEREADY" Flashlights, Torches and Dry Batteries, etc. Also "Fillip" & "Twin" Gas Lanterns, Stoves, Mantles and other spare parts, etc. Thermos Flasks in various new designs and Hurricane Lanterns, etc.

FARRELL FLASHLIGHT CO.—20/22, Nanavati Mansion, Phydonic, Bombay 3. Phone: 72018. Flashlights, Batteries, Bulbs, Stoves, Petroleum, Blow Lamps, Electric goods, etc. and Regd. Government Suppliers.

LIGHT HOUSE.—51, Kitchen Garden Lane, Shrijee Bhuvan, Bombay 2. Phone: 30351. Grams: "GRATWALL." Direct Importers and Wholesalers in Torches, Bulbs and Batteries. Agents for "ASIA" Brand Auto & Torch Bulbs.

METAL PRODUCTS MANUFACTURER.—198, Reay Road, Bombay 10. Manufacturers of Famous "Deepak" Brand Flash Lights (Torches).

FLEXIBLE TUBES (For ELECTRICAL WIRING)

INDIAN FLEXIBLE TUBE MFG. CO. PRIVATE LTD., THE.—504, Vithaldas Chambers, 16, Apollo Street, Bombay. Phone: 255257. Grams: "BESTCLAY." Manufacturers of Flexible Conduit for Electrical Wiring.

FLORISTS AND SEEDSMEN

Apollo Florist.—5, Colaba Causeway, Fort.

Bombay Floral Co.—Sitakant Mansion, Hughes Road.

Jehangir B. Iranl.—Masina Hospital Garden, Victoria Road, Byculla.

PALEKAR & CO.—Seed Merchants, Sitaram Building, Near Crawford Market, Bombay 1. Phone: 252236. Grams: "RUDRA".

SORABJEE A. M. ERANEE (NERGISE).—Opp. Karanjia & Co., 171-175, Dr. Dadabhai Naoroji Road, Bombay 1. Phone: 252540. Largest Suppliers of Wreaths, Crosses and Bridal Requisites in fresh and artificial flowers. Victoria Gardens.—Byculla.

FLOORING TILE MFRS.

DUNCAN STONE CO.—500, Duncan Road, Bombay 4. Phone: 72899. Grams: "TILERIES".

GARLICK & CO., LTD.—Haines Road, Jacob Circle.

J. Chandravadan & Co.—53, C. P. Tank Road, Bombay 4.

Oxy-Chloride Flooring Products Ltd.—Arthur Bunder Road, Bombay 5.

Stonolite Monolithic Products.—Jiji House, Ravelin Street, Bombay 1.

FLUORESCENT TUBES AND FITTINGS MFRS.

DAYLIGHT FIXTURES CORPORATION.—Manufacturers of Fluorescent Light Fittings, Ballasts and Accessories. Show Room and Office: New Citizen Bank House, Carnac Road, Bombay 1. Phone: 251092. Grams: "DAYFLX." Factory: Premier Industries, Old Sunderdas Mills Compound, Anandnagar Road, Bombay 11.

RADIO LAMP WORKS LTD.—45-47, Veer Nariman Road, Bombay 1. Electrical Engineers, Manufacturers and Contractors. Phone: 253841. Grams: "SOFTLITE." Branches at: Bombay, Calcutta, Delhi, Madras, Kanpur, Bangalore, Patna, Indore, Wardha & Gauhati.

FOUNDERS AND FOUNDRY EQUIPMENT

Amar Brass and Iron Works.—Office and Works: 6, Sewree Cross Road, Bombay 15. Grams: "SEWREEIRON".

ART METAL WORKS (Estd. 1882).—35-C, Jeraibhoy Street, Foras Road, Bombay 8. Phone: 71692. Brass & Iron Founders, Builders, Hardware Manufacturers and Engineers & Contractors.

DATSON RAVIRAJ & CO. (PRIVATE) LTD.—43, Tamarind Lane, Fort. Phone: 254433. Grams: "DATNARE".

Graves Cotton & Co., Ltd.—Forbes Street, Bombay 1.

Guest, Keen Williams Ltd.—Wakefield House, Ballard Estate, Bombay 1.

HARDCASTLE & WAUD MANUFACTURING CO. PRIVATE LTD.—Alice Building, 339, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone: 255771. Tel. Address: "WAUDCO." J. D. Jones & Co. (Bombay) Ltd.—Rustom Building, Veer Nariman Road, Bombay 1.

MUNCHERJEE BYRAMJEE & CO. (Estd. 1882).—35-C, Jeraibhoy Street, near Municipal Workshop, Bombay 8. Phone: 71692. Brass & Iron Founders and Structural & Mechanical Engineers.

Nadinhaw & Bros.—"Silver Talkies" Building, Khetwadi Back Road.

PIONEER EQUIPMENT CO. PRIVATE LTD.—139, Meadows Street, P.O. Box 1908, Bombay 1. Phone: 25-1882. Also at 1, Mangoo Lane, Calcutta 1. Phone: 231611; and 193, Mount Road, Madras 2. Grams: "PIOMETAL". Cupolas, Reverberatory and Electric Furnaces, Sand Conditioning Plants, Moulding Machines, Core Blowers, Pouring Ladles, Conveying Systems, Moulding Boxes, Foundry Stores, etc.

P. RATILAL & COMPANY

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Telegrams: "ETERNAL"

'Phone: 32700

Shah Engineering Stores.—88-92, Nagdevi Cross Lane, Bombay 3.
SHREE KARNATAK AGENCIES.—48, Western India House, Sir Phiroozshah Mehta Road, Fort, Bombay. Phone: 253105. Controlled Stockists of "FERRO-SILICON." Grams: "SACHOTI."

Ward Thos. W. (India) Ltd.—Marshall Building, Ballard Road, Fort.

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Vishwa Bharati Trading Co.—14, Kumpita Street, Ballard Estate, Bombay 1.

FOUNTAIN PENS IMPORTERS, MFRS. & DEALERS

Dhiraj Pen Manufacturing Co., Ltd.—Nagardas Road, Andheri (East), Bombay.

ENAYATALI & CO.—262-264, Abdul Rehman Street, Bombay 3. Dealers in all famous makes Fountain Pens, Inks & Spare Parts including "ENACO" Fountain Pens & Inks. Stationers & Fountain Pen Merchants. Phone: 23759. Grams: "ENAYAT."**GUJARAT INDUSTRIES PRIVATE LTD.**—Lalji Mansing Bldg., 6, Lohar Chawl, Bombay 2. Phone: 20956. Grams: "CONNECTION." Manufacturers of High quality Fountain Pens, Nibs and other Spare Parts.

Hornby Fountain Pen Depot.—204, Dr. Dadabhai Naoroji Road, Bombay 1. Phone: 263967. Grams: "CAMEL PEN."

INDIA PEN HOUSE.—234, Abdul Rehman Street, Bombay 3. Phone: 39353. Grams: "SHABER." Dealers in all famous make Fountain Pens namely Parker, Sheaffers, Waterman, Tikka, Colgate, Istatco and other foreign and Indian Fountain Pens and Inks.

Jhaveri Bros. & Co. Private Ltd. (Established 1914).—Novelties and Gift Specialists. Sole Agents in India for "MONTBLANC" German Made Top Quality Pens, Pencils, Desk Sets and Ink. Three Show-rooms in the City. (1) 345, Abdul Rehman Street, near Crawford Market, (2) Metro Cinema Building, Dhobi Talao, (3) Meadows Street, near Flora Fountain. Grams: "MONTBLANC." Phone: 22006 for all Branches.

Kiron & Co., Ltd.—73-75, Chhipi Chawl (Shamshet Street), Near Zaveri Bazar, Bombay 2.

Khokhani & Co.—Sutar Chawl, Ismail Building, Bombay 2.
Mhatre Pen & Plastic Industries.—182, Galwadi, Girgaon, Bombay 2.
New Type Fountain Pen Depot.—116-18, Narayan Dhuru Street, Barbalhi Mohalla, Bombay 3.

Oriental Traders.—Anand Bhuvan, Princess Street.

Premier Fountain Pen Depot.—296, Sheikh Memon Street, Bombay 2.

Raja Fountain Pens Depot.—115, Shamshet Street, Bombay 2.

Ranniklal C. Kothari & Co.—16, Apollo Street, Bombay 1.

R. Punjabi & Co.—Sharuf Mansions, Princess Street, Bombay 2.

United Commercial Co.—48, Mangaldas Building, 1, Princess Street.

FREIGHT BROKERS**ABRAHAM, SHAH & SONS.**—Nague Building, Ballard Estate, Sprott Road, Bombay 1. Phones: 26-1837, 26-2379 & 26-3994.**DEWAN & SON, L.**—Nanabhai Mansion, Sir Phiroozshah Mehta Road, Fort. Phones: 261341, 263469. Cable: "RAIL-CUMSEA."**N. JAMNADAS & CO.**—16, Bank Street, Fort. Phones: 253671-72-73. Grams: "BAKICO." Freight Brokers and Travel Agents. Recognised by I.A.T.A./I. A.C., Govt. of India & All Steamship Companies. Members: A.S.T.A., F.I.A.V., T.A.A.I.**PITAMBER & CO.**—Scindia House, Ballard Estate, Bombay. Freight and Chartering Brokers. Brokers to the Scindia Steam Navigation Co., Ltd. Phone: 261066. Gram: "SAGARNUR."**PITAMBER LALJEE & SONS.**—Bharat House, 104, Apollo Street, Bombay 1. Phones: 255426, 254230. Grams: "SAFE-SHIP." House Brokers to Bharat Line, Bombay.
Prabhulal L. Pandya & Co.—11, Bank Street, Fort, Bombay.
Purdie & Co.—Freight Brokers, 16, Elphinstone Circle, Fort.**SHAMALJI P. SHANGRAVI.**—Bharucha Bldg., 1st floor, 174, Princess Street, Bombay 2. Phone: 23596. Licensed Shipping, Clearing, Forwarding Agents and Freight Brokers.**FUEL INJECTION EQUIPMENT**

Agra Engineering Co.—84, Apollo Street, Fort, Bombay 1.

B. CHOWDHURY & CO.—Indian Globe Chambers, Fort Street, Bombay 1. Phone: 26-3479. Gram: "BISUKHI."**BAPULAL RAMCHAND & CO.**—Crescent Chambers, Tamarind Lane, Fort, Bombay 1. Phone: 254146. Grams: "OCI-NETA." Specialists in Fuel Injection Equipments & Spare Parts for Diesel Engines.**EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.**—Shreenivas House, Waudby Road, Bombay. Phone: 26-2711 (8 lines). Offices at: Madras, Calcutta, New Delhi, Bangalore and Secunderabad.**HONESTY TRADING CORPORATION.**—Beaumont Chambers, Meadows Street, Fort. Phone: 253534. Grams: "HOT-RICO." Sole Agents for H.T.C. Brand Fuel Injection Equipment for all types of Diesel Engines.

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K. SUCHDE BROTHERS.—82, Apollo Street, Fort, Bombay 1. Phone: 252712. Grams: "SUCHBROS." Spares for all well-known Industrial Engines, Sales & Service for FUEL Injection Equipments—"BRYCE", "BOSCH", "CAV" & "FIL". "WELLWORTHY" Pistons, Rings & Liners for Industrial Engines & Tractors. Madras Branch: Industrial Engineers, 325, Thambuchetty Street, Phone: 4783.**MOTOR INDUSTRIES CO., LTD.**—Manufacturers of Mica-Licence-Bosch Fuel Injection Equipment and Spark Plugs. Stockists of Automobile Parts and Accessories. 41, Queen's Road, Bombay 2. Phone: 39065. Grams: "ELEMENT." Head Office: Post Box No. 93, Bangalore. Branches: 1/155, Mount Road, Madras 2; and 77-B, Park Street, Calcutta 16.**FUEL LINE PIPES****B. CHOWDHURY & CO.**—Indian Globe Chambers, Fort Street, Bombay 1. Phone: 26-3479. Gram: "BISUKHI." Sole Agents for Techno-Chemie Kessler & Co., West Germany.**FURNISHING FABRICS****"DECORA" RAVAL TILES AND MARBLE PRIVATE LTD.**—Edena, 97-A, Queen's Road. Phone: 242310.

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Amel Private Ltd.—Lotus House, Marine Lines, Bombay 1.

Bhagwandas J. Mistry.—16, Banaji Street, Fort.

BHAWAR HOME FURNISHERS & DECORATORS.—66, Karwar Street, Mint Road, near G.P.O., Fort, Bombay. Factory: Famous Cine Building, Haines Road, Mahalaxmi, Bombay 11. Phone: 263771.

Bombay Furniture House.—132-138, Mutton Street, Null Bazar. Brijmohan Banwarilal.—61, Reay Road, Mazagaon, Bombay 10.

D. C. BATLIWALA.—12, Bruce Street, Fort, Bombay 1. Phone: 251523. Furniture Makers and for sale.

Dawson & Co.—24, Parsee Bazar Street, Bombay 1.

Dewjee Canjee & Co.—156, Sherif Dewjee Street & Mohamedali Road.

Ebrahim Jaffer & Co.—208, Chukla Street, Bombay 2.

E. PEERBOY & SONS.—Prop., Indian Durries Emporium 64, Mohamedali Road, Shakra Castle, Bombay 3. Phone: 23806. Grams: "INDIAWEAVE".

Eyles, H. & Co.—Bellasis Road, Bombay 8.
Gujarat Furniture Works.—Satar Sea View, 45, Chowpatty Sea Face.
Hindustan Fabrics & Stores Private Ltd.—Fulchand Nivas, Chowpatty Sea Face, Bombay 7. Grams: "SWAKALA". Phone: 27108.

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Jamshedji F. Billimoria & Co.—290, Lehari Building, Sandhurst Road.

Jayanand Khira & Co., Ltd.—Kothare Building, Sandhurst Bridge, Bombay 7.

K. D. MISTRY & CO.—73-75, Queen's Road, Bombay 2. Phone: 27608.

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KANTILAL KARIA & CO.—Furnishers and Interior Decorators, Chowpatty View, Chowpatty, Bombay 7. Phone: 27183.

Kay & Co.—43, Custom House Road, Fort.

Khira Steel Works Private Ltd.—H.O. & Factory, Ghodbunder Road, Santa Cruz, Bombay 23. Grams: "STEELCASE"; Phones: 89002 & 89569.

Mahomedally Dadabhai & Son.—Jamnadas Building, 70-72, Mutton Street, Null Basar, Bombay 2.

MAROO & CO.—Household and Office Furniture (New and Second Hand) Buyers & Sellers, Noble Chambers, 13, Ghogha Street, Fort, Bombay 1.

Mayfair Furnishing Company.—Great Western Buildings, Apollo Street, Fort.

McKensies, Ltd.—Sewri.

MINERVA FURNITURE WORKS.—Furniture Makers and Interior Decorators, 67-71, Queen's Road, opp. Marine Lines Station, Bombay 2. Phone: 241129.

Mitha & Co.—Opp. Suryodaya Mills, Tardeo Road.
National Steel Equipment Co.—Naigaum Road (Near Spring Mills), Dadar, Bombay 14.

NEVIS FURNITURE CORPORATION.—255-A, Sethna House, Tardeo Road, Bombay 7. (Late of Army & Navy Stores Ltd., Bombay) High Standard Cabinet Makers.

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Roberts & Co. Private Ltd., John.—Jorawar Bhuvan, 93-B, Queen's Road.

Royal Carpets & Cane-Furniture Manufacturing Co.—Mani Bhuvan, Hughes Road, Bombay 7.

SHERATON & CO.—Works & Office: 131, Meadows Street, Fort, Bombay. Phone: 25-8430. Furniture & Billiard Table Manufacturers.

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Sunderdas Saw Mills.—Opp. Reay Road Station, Bombay 10.

Tahilasingh Hanspal & Co.—Lady Hardinge Road, Bombay 28.

Phone: 67284

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Bombay 38

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I.C.I. (India) Private Ltd.—P. B. No. 310, Bombay 1.

MAMAJI & SON (PRIVATE) LTD., Y.R.—136-38, Sir Ebrahim Rahimtulla Road, Bombay 3. Phone: 71262. Grams: "MA-MAJISON." Importers & Exporters; P.V.C. Leather Cloth, Motor & Carriage Upholstery Materials, Saddlery & Harness Goods & all kinds of Felt.

Mohamedally Noorbhai & Co.—144-148, Ibrahim Rahimtulla Road, Bombay 3; Phone: 71568.

Nagree Ltd.—Nagree House, 50, Custom House Road, Fort. Oriental Art Leather Depot.—Govind Building, Princess Street, Bombay 2.

P. Shah & Co.—Dwarkanadas Mansions, 448, Sandhurst Road, Bombay 4.

Ratanlal Harilal Dalal & Co.—456, Peerbhoy Mansion, Sandhurst Road, Bombay 4.

GARAGE TOOLS & EQUIPMENTS

EVERGREEN TRADERS, THE.—2-B, Bibijan Street, Nagdevi, Bombay 3. Phone: 27856. Grams: "GREENTRADE." Importers & Stockists of Garage Tools, Auto Accessories, Bolts, Nuts and Car Batteries.

HEMANT TOOLS TRADING CO.—33, Bibijan Street (Barbhai Mohalla), Bombay 3. Grams: "LACING." Phone: C/o 23572.

GARDENING REQUISITES

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 299990. Grams: "ALERTDEAL."

Datta Industries.—Sitaram Building, Dadabhai Naoroji Road, Bombay 1.

Dhani Ram & Sons.—236, Masjid Bunder Road, Bombay 3.

International United Trading Corporation.—80-90, Lohar Chawl, Bombay 2.

Jashwantlal Manecklal & Co.—40, Churchgate Street, Fort.

Marine Sports.—101, 1st Marine Street, Dhobi Talao, Bombay 2.

Palekar & Co.—Seed Merchants, Sitaram Building, Bombay 1.

Reliance Trading Co.—Vithal Sayana Building, Lohar Street, Bombay 2.

GAS PLANTS

GANSONS PRIVATE LTD.—6, West View, Dadar (C. Railway), P.O. Box 5676, Bombay 4. Phone: 63971. Grams: "IN-MAG." Manufacturers of "GS" gas Plants for Laboratories, Industries and Canteens.

GAUGES & INSTRUMENTS

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 299990. Grams: "ALERTDEAL."

Evergreen Corporation.—Peerbhoy Building No. 1, Lohar Chawl, Bombay 2.

Fleming John & Co., Private Ltd.—P. B. No. 76, Bombay 1. Phone: 281153.

GATTEE & COMPANY.—Jannabheemi Chambers, Fort Street, Fort, Bombay. Grams: "IMPENG." Phone: 26-3449.

Gordhandas Desai Private Ltd.—Kermani Bldg., Sir P. M. Road, Bombay 1.

Greaves Cotton & Co., Ltd.—1, Forbes Street, Bombay 1.

GEARS MFRS. & GEAR CUTTING SPECIALISTS

HUNS ENGINEERING WORKS.—11, Cawasji Patel Street, Bombay 1. Phone: 255223. Grams: "HUNSGEAR".

GERMAN SILVER UTENSILS MFRS.

LALLUBHAI AMICHAND PRIVATE LTD.—Proprietors: Dan Aluminium Factory, 225/27, Tardeo Road, Bombay 7. Manufacturers of all Non-Ferrous Metalwares and Articles. Phones: 41618 & 73220. Grams: "CYCLEBRAND."

GLASS

ABDOOLALLY NOORHOY.—122-124, Abdul Rahman Street, Bombay 3. All kinds of Glass & Plywood Merchants. Government & Railway Contractors. Phone: 23156. Grams: "PATTYMART." Works: 248-A, Duncan Road, Bombay 8. Phone: 41960.

ALIBHOY KADIBHOY KACHWALA (Estd. 1922).—84, Abdul Rehman Street, Bombay 3. Direct Importers and Stockists of all kinds of Glass, Mirrors, Glass Tiles, Plywood, Hardboards, Chair Seats, Glass Block and Glass Cutters, etc. Phone: 28063. Grams: "BELOGLASS."

Bawa Glass Co.—Ratan Building, Nagdevi Street, Bombay 2.

BEAROOMAL & CO.—70, Abdul Rehman Street, Bombay 3. Phone: 20586. Grams: "WHITEGLASS". E.O.: Seeka Bazar, Agra. Branch: Chowk Bazar, Kanpur. Dealers in Glass, Plywood & Hardboard and Glass Cutters. Sub-Distributors for Anil Hardboards for Bombay.

DAUDHOY M. TATEBALLY.—110, Abdul Rehman Street, Bombay 3. Phone: 34336 (Office). 71259 (Res.). Grams: "SAFEGLASS."

KESHOWDAS HASSANAND KARACHIWALA.—256, Masjid Bunder Road, Bombay 3. Phone: 28858. Grams: "KESHO-GLASS." Stockists of Hardboard, Plywood, Glass cutters and all kinds of glasses.

M. A. KACHWALA & SONS.—87-99, Dhanji Street, Bombay 3. Phone: 34393. Grams: "DIADEM". Direct Importers & Stockists of Glass, Plates, Vitrolite Sheets, Window Mirrors figured, Triplex (Safety) and all Sorts of Glasses & Hardboards.

MAHOMEDALLY VALIJI ARSIWALLA.—76, Abdul Rehman Street, Bombay 3. Phone: 38400. Direct Importers and Dealers in all kinds of Glasses, Plywood and Picture Mouldings; Government & Railway Contractors. Godowns at: 2/4, Temkar Street, Near Nagpada, Bombay 8 and at 145, Jamli Mohalla, Bapukhote Street, Bombay 3.

Premier Glass Traders.—Importers of all kinds of Glass, Frames, Plywood, Mounts, Glazier's Diamonds, etc. 74-78, Dhanji Street, Bombay 3. Grams: "REASON." Phone: 23845 (Office); 71837 (Res.).

SAMIR GLASS TRADERS.—21-23, Dhanji Street, Parsi Gully, Bombay 3. Phone: 20785. Grams: "SAMIRGLASS." Wholesale and Retail dealers in all kinds of Glasses, Glass Cutters & Hardboards.

TEK TRADING CORPORATION.—139, Abdul Rehman Street, Bombay 3. Dealers in all kinds of Glasses, Plywood, Hardboard & Masonite. Government & Railway Contractors.

YUSUFALI GOOLAMHOSEN ARSIWALLA.—105, Abdul Rehman Street, Bombay 3. Grams: "GLASSAGE." Dealers in Glasses, Plywood & Hard Board. Stockists of all kinds of glasses, Window sheets, Plate, Wired, Ribbed, Figured, Opal, Vitrolite, Triplex, Mirrors, Hardboard, Chairsets, etc.

GLASS FACTORIES

AJIT GLASS WORKS PRIVATE LTD.—Office: 99, Haji Ahmed Devji Bldg., 2nd Floor, Mohamedally Road, Bombay 3. Phone: 29758. Grams: "AJITWORKS". Factory: Ghod-bunder Road, P.O. Jogeshwari, Bombay 42. Phone: 86584. Manufacturers of Pressed ware, Glass Tumblers, Glass Jars, Bottles of all kinds suitable for Pharmaceutical Trade, Cosmetic, Ink, Milk, Squashes and Aerated Water Trade, etc.

PEARL GLASS MANUFACTURING CO.—Patel Estate, Goregaon (East), Bombay. Phone: 84363. Office at: 44, Cawasji Patel Street, Post Box No. 1627, Fort, Bombay 1. Phones: 253082 & 253772. Grams: "ASHWINCO." Manufacturers of all kinds of Glassware and Bottles; Process Works: 51, Bhandari Street, near Round Temple, Bombay 4. Depot: 108, Ardeshr Dady Street, near C.P. Tank, Bombay 4. Phone: 73741. Workshop: 8A, Dhoobi Wadi, Seth M. N. Charities Compound, Thakurdwar Road, Bombay 2. Phone: 29827.

VAZIR GLASS WORKS PRIVATE LTD.—Prospect Chambers, Dr. Dadabhai Naoroji Road, Fort, Bombay. Phone: 254650. Grams: "SEVNETSIX". Manufacturers of quality Glass Bottles & Glasswares. Aerated Water Bottles a Speciality.

GLASS MFRS. AND INDENT OPERATORS

Bombay Glass Works Ltd.—Manmala Tank Road, Bombay 16. Chunilal Khanna & Co.—Sarasvati Nivas, Thakurdwar Road, Bombay 2.

International Chemical Co.—Tulsi Pipe Road, Matunga, Bombay 16. Oriental Import & Export Agency.—52, Shri Krishna Nivas, New Silk Bazar, Kalbadevi Road, Bombay 2.

Salemahomed Padamsee & Co.—141, Chukla Street, Bombay 3. Swadeshi Glass Works Depot.—25, Bank Street, Fort. Grams: "AUTOGLASS."

The Mahalakshmi Glass Works (Private) Ltd.—Haines Road, Bombay 11.

GLASSWARE MFRS. & MERCHANTS

Alladin Dhanji.—Vithal Sayana Building, Lohar Chawl.

All-India Trading Corporation.—25, Bank Street, Fort. Grams: "Autoglass". Agents for Faisa Fund Glass Products.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort. Bawa Crockerie Ltd.—89, Mohamedali Road, Bombay 3.

Central Bottle Trading Co.—Padamal Annex, Chukla Street, Bombay 3.

Chunilal Desai & Co.—Gool Mansion, Homji Street, Fort. Currimbhoy, L., & Co.—156, Chukla Street, Bombay 2.

DOSSA, S. R., & CO.—198, Sheriff Deyji Street (Chakla), Bombay 3. Phones: 39248. (Office). 77042 (Residence).

EMBI DESAI & CO.—Office: Dadyseth House, Cawasji Patel Street, Fort, Post Box No. 1116, Bombay 1. Phones: 253082 and 253772. Dept.: 108, Ardeshr Dady Street, near C.P. Tank, Bombay 4. Phone: 73741. Process Works: 51, Bhandari Street, near Round Temple, Bombay 4. Factory: Patel Estate, Goregaon (East), Bombay. Phone: 84363. Workshop: 8A, Dhoobi Wadi, Seth M. N. Charities Compound, Thakurdwar Road, Bombay 2. Phone: 29827. Ahmedabad Office: Jaybhuvan, Inside Balahuman, Ahmedabad. Grams: "ASHWINCO." Phone: 28182.

Getz Bros. & Co.—Western India House, Sir Phirozshah Mehta Road, Fort.

HAMIR JAMAL & COMPANY.—Lalsingh Building, Lohar Chawl, Bombay 2. Phone: 34763. Grams: "CRITERION."

I.O.I. (India) Private Ltd.—P. B. No. 310, Bombay 1.

M. Daldas & Sons.—190, Princess Street.

Moosa Omer & Co.—Junction of Mohamedally & Carnac Roads.

SAFEGLAS CORPORATION PRIVATE LTD., THE.—85, Dhanji Street, Bombay 3. Phone: 34395. Grams: "DIADEM." Manufacturers of Toughened Glass and Glassware.

Sally Glass Palace.—Ebrahim Building, Mohamedalli Road, Bombay 2.

Salemahomed Padamsee & Co.—141, Chakla Street, P. O. Box 3131, Bombay 3.

Saubhagya Kankan Store.—87/A, Swadeshi Market, Kalbadevi Road.

Scientific Instrument Co., Ltd.—Navsari Building, 240, Hornby Road, Fort.

Shivji, K. S., & Co.—144-46, Chakla Street, Bombay 3.

TALWARKER BROTHERS PRIVATE LTD., W. R.—Lentim Chambers, Dalal Street, Fort, Bombay. Phone: 30367. Grams: "PUMPENAMEL."

Universal Glass & Industrial Corporation.—327, Hornby Road, Fort. Vasir Glass Works, Ltd.—Prospect Chambers, Hornby Road, Fort.

VELU & CO. (PVT.) LTD., P. K.—P. O. Box No. 514, 111, Mahatma Gandhi Road, Bombay 1. Phone: 25-3141. Grams: "LECOUER."

Vitrum Ltd.—Hamant Bhuvan, Nepean Sea Road, Bombay 6.

GLOVES & GOGGLES FOR INDUSTRIAL WORKERS

VISHWA BHARATI TRADING CO.—14, Kumbta Street, Ballard Estate, Post Box No. 1052, Bombay 1. Phone: 264853. Grams: "VIBHACO." Branch: G.P.O. Box 2628, Calcutta 1. Manufacturers of Industrial Safety Equipments, such as Goggles, Gloves, Dust Masks, Gas Protection Respirators, Aprons, etc.

GLYCERINE

I.C.I. (India) Private Ltd.—P. B. No. 310, Bombay 1.

KANTILAL SANGHVI & CO.—Mherwan Building, Sir Phirozshah Mehta Road, Fort. Phones: 34261 & 26185. Grams: "EXPIM."

Swastik Oil Mills Ltd.—Saltpan Road, Wadala, Bombay 31.

Tata Oil Mills Co., Ltd.—Bombay House, Bruce Street, Fort, Bombay.

GOLDSMITH AND JEWELLERS TOOLS

SEAN TRADING CORPORATION.—Oomrigar Building, 1st Floor, opp. Crawford Market, Bombay 3. Goldsmith Tools and Hardware Merchants.

GOODS CARRIERS

AMRITSAR TRANSPORT CO. PRIVATE LTD., THE.—Naseeb Chambers, Carnac Road, Bombay 1. Grams: "ROADWAYS." Phone: 264650.

GRAIN AND SEED MERCHANTS

Bhanushali Brothers Ltd.—Bhanushali Chambers, 168, Argyle Road, Bombay 9.
 Birla Bros., Ltd.—State Bank Annex, Bank Street, Fort.
 Damji Mawji & Co.—177, Khoja Gulli, Mandvi, Bombay 9.
 Dewji Dhanji & Co.—Kilchand Mansion, 284, Kalbadevi Road.
 Dhanpatmal Jawaladas.—Court House, Carnac Road, Dhobi Talao.
 Grain Merchants' Association.—Musjid Bunder, Mandvi.
 Gulam Rasool Allahbux.—1-B, Bachocall House, Nowroji Hill Road No. 1, Bombay.
 Haji Satar Haji Peermahomed.—91, Rangoonwalla Building, Mahomedali Road, Bombay 8.
 Hariram Gopalji & Co.—110, Chinch Bunder.
 Hashambhoy Alloo Mahomed & Son.—Dostmahomed Building, Nishanpada Road, Khadak, Bombay 9.
 Hussein Muma Virjee & Co.—Sherif Hasam Building, Khoja Mohalla.
 Joshi Jivandas Gangaram & Co.—282, Narshi Natha Street, Bombay 9.
 Keshalal Talakchand.—India House, opp. G.P.O., Fort, Bombay. Phone: 32363. Grams: "CHANDRODAY."
 Khimji Poonja & Co.—Wadia Building, 17/19, Dalal Street, Fort.
 Kilchand Devchand & Co., Ltd.—45-47, Apollo Street, Fort.
 Manakji Nansay & Co.—172/86, Argyle Road, Bombay 9.
 Meghji Hirji & Co.—81, Chinch Bunder Road.
 Nappoo Nansay & Co.—83, Clive Street, Bombay 9.
 Narandas Rajaram & Co.—Navari Chambers, Outram Road.
 Oomedschand Kashiram & Co.—Mudi Bazar, Mandvi, Bombay 8.
 Padamsahi Pancharia & Co.—Laxmidas Narai Building, 182-184, Walkeshwar Road.
 Pavri Sons & Co.—95/97, Basargate Street, Fort.
 Premchand Trading Ltd.—7, Dhanji Street, Bombay 8.
 Premji Bhanji & Co.—Ardeshr Mansion, Bhat Bazar, Bombay 9.
 Premji Haridas & Co.—Bhanushali Building, 168, Argyle Road, Bombay 9.
 Ralli Bros., Ltd.—21, Ravelli Street, Fort.
 Sarvajani Grain Stores.—190, Doctor Street, Null Bazar.
 Shah Ravji Jivraj.—282, Narshi Natha Street, Bombay 9.
 Shamji Velji & Co.—Anand Bhuvan, Narshi Natha Street, Bhat Bazar.
 Shivjee Rhara & Co.—107, New Chinch Bunder Road.
 Vasantlal Vadilal & Co.—215-17, Samuel Street, Vadgadi.
 Vasiralli Ltd.—Prospect Chambers, Hornby Road, Fort.
 Velji Kaldas & Sons.—177, Samuel Street, Mandvi.
 Yuvak Stores, Shri.—399A, New Hanuman Lane, Kalbadevi Road.

GRAMOPHONE DEALERS AND MANUFACTURERS

Anandji Kalyanji Vasa.—Hathi Building, 448, Kalbadevi Road.
 Bombay Photo and General Agency.—520-22, Kalbadevi Road.
 Britannia Talking Machine Co.—407, Kalbadevi Road, Bombay 2.
 Columbia Gramophone Company Ltd.—Universal Building, Sir Phirozshah Mehta Road, Fort, P. O. Box 1163, Bombay.
 Ghalsas, G. J., & Co.—Ramchandra Building, Tram Terminus, Girgaum.
 Gramophone Co., Ltd.—Universal Fire & General Insurance Co.'s Building, Sir Phirozshah Mehta Road, Fort.
 Jawahar & Company.—133, Princess Street, Bombay 2.
 Masters Trading Co.—Advani Chambers, Sir Phirozshah Mehta Road, Fort.
 Metro Music.—545, Kalbadevi Tram Junction, Dhobi Talao.
 National Gramophone Record Manufacturing Co., Ltd.—110, Medows Street, Fort.
 Oriental Watch & Gramophone Co., The.—Opp. Western Rly. Station, Dadar, Bombay 14.
 Rhythm House, Tia.—Opp. Army & Navy Stores, Fort.
 Rose, S., & Co.—28, Rampart Row, Fort.

GREETING CARDS

Arco Agencies.—Bam House, Gunbow Street, Fort, Bombay. Phone: 26-1208.

TAT PRINTING WORKS.—46-E, Cawasji Patel Street, Fort, Bombay 1. Phone: 282438. Commercial and art Printers and Manufacturers of invitation and greeting Cards.

VALABDAS TIRATHDAS.—Shankar Lane, Kandivli, Bombay 47. Grams: "GREETINGS" Kandivli, Bombay. Importers & Manufacturers of Pictures & Greeting Cards.

GRINDING & PULVERISING (POWDERING)

Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.
 Batliboi & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone Nos. 255451-55. Grams: "BATLIBOICO". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore and Vijayvada. Associates: Bangalore and Secunderabad.
 Bharat Pulverising Mills.—Narayan Dhuru Street, Bombay 8.

D. Kaniyalal & Co.—45, 3rd Cavel Cross Lane, Kalbadevi Road, Bombay 2.
 Gujarat Clay Mills.—246, Reay Road, Bombay 10.
 Jayams Engineering Co.—Warden House, Sir Phirozshah Mehta Road, Fort.

PANCHSHILA PULVERISING MILLS.—Old Laxmi Silk Mills Compound, Sewree Cross Road, Wadala, Bombay 31. Phones: Factory 60380; Office: 34783.

Roberts, McLean & Co., Private Ltd.—Ilaco House, Sir Phirozshah Mehta Road, Fort.
 Standard Pulverising Co.—Atlas Mills Compound, Reay Road, Bombay 10.

GUMMED TAPES

STAR FREEZ INDUSTRIES.—85, Marine Drive, Parijat, Bombay 2. Phone: 241332. Refrigeration & Air-conditioning Engineers undertakes installation and overhauling work of Air-conditioning Plants & Manufacturing & Repairing of Refrigerators, Water Coolers, Ice-cream Freezers, Cold Storage Rooms, etc.

GUMS WHOLESALE

Belumal Santsaram.—204, Samuel Street, Vadgadi, Bombay 8.
 Champaklal Morarji & Co.—198, Samuel Street, Vadgadi, Bombay.
 Chandulal & Co., Lakhwala.—213, Samuel Street, Vadgadi.
 Damji Mawji & Co.—177, Khoja Gulli, Mandvi, Bombay 9.

DEVIDAS, N., & CO.—44, Daryasthan Street, Bombay 3. Phone: 38484. Grams: "ENGUM." Dealers in all sorts of Gums, Saffron, Cassia, Cloves and Spices.

DEVIDAS VIRCHAND.—22-26, Daryasthan Street. Grams: "EVERGUM." Bombay 3. Importers & Exporters. Dealers in all sorts of Gums, Spices, Textile & Wool.

Dhirren & Co.—Lakhani Building, 34, Cawasji Patel Street, Fort.
 Gopaljee & Co.—218, Samuel Street, Vadgadi.
 Hashambhoy Alloo Mahomed & Son.—Dostmahomed Building, Nishanpada Road, Khadak, Bombay 9.

I.C.I. (India) Private Ltd.—P. B. No. 310, Bombay 1.

Javeri Traders.—P.O. Box No. 1977, Lakhani Building, 34, Cawasji Patel Street, Fort, Bombay 1.

Joshi Jivandas Gangaram & Co.—282, Narshi Natha Street, Bombay 9.

Kirtikumar Chandulal & Co.—218, Samuel Street, Vadgadi, Bombay.
 Lalit Kumar & Co.—86, Kazi Sayed Street, Bombay 3.
 Laljee Godhoo & Co.—218, Samuel Street, Vadgadi.

MENTA SHAH & CO.—242, Samuel Street, Bombay 3. Phone: 39854. Grams: "MENTAGUM".

Narandas Kourdas & Sons.—222/24, Vadgadi.
 Premji Haridas & Co.—Bhanushali Chambers, Argyle Road, Bombay 9.

Ram Agency.—200, Kazi Sayed Street, Bombay 9.

Singh Materials Co., Ltd.—Jeroo Building, 137, Mahatma Gandhi Road, Fort.

Stewart's Laboratories.—327, Hornby Road, Fort.

SUDAN TRADING CO.—Dhan-Nur, Phirozshah Mehta Road, Bombay 1. Phones: Office: 282788; Resid.: 62089. Grams: "VANSOHA".

VALABDAS TEJPAL.—219, Vadgadi, Bombay 3. Phone: 23478. Grams: "BATTLEMENT".

Varjiwandas Hirjee & Co.—240, Samuel Street, Vadgadi.
 Vasantlal Vadilal & Co.—215/17, Samuel Street, Vadgadi, Bombay 3.
 Vijaysinh Virchand.—248, Samuel Street, Vadgadi, Bombay 3.

GUNNY BAGS, HESSIAN CLOTH & TWINE MERCHANTS

KORJI DAMJI.—Katha Bazar, Oes Gali (Syed Mukri Street), Bombay 9. Phone: 22349. Grams: "PUNTAGANGA." Dealers in old and new gunny bags, hessian cloth, jute twine, canvas, etc.

LAKHMIDAS VELJI & CO.—50-52, Essaji Street, Vadgadi, Bombay 3. Phone: 29736. Grams: "DAVDA." Suppliers, Dealers and Commission Agents in all kinds of old and new jute Products.

MANGALDAS VELJI & CO.—139-141, Kazi Sayed Street, Khand Bazar, Bombay 3. Phone: 23939. Grams: "MANGWEL." Stockists of Empty New and old Gunny Bags.

SHAMJI KALYANJI & CO.—67, Bhandari Street (Koliwada, Mandvi), Bombay 3. Phone: 39637. Grams: "SHAMKALYAN." New and second hand Gunny bags, Hessian cloth, jute Twine and empty Cement bags dealers, Suppliers and Commission Agents. Branches at Poona and Nagpur.

HACKSAW BLADES

SHARAT ENGINEERING STORES.—113, Nagdevi Street, Bombay 3. Grams: "UNIONTOOLS."

HARD BOARD

ANIL HARDBOARDS LTD.—Manufacturers of soft, hard and tempered board and by-products. Lakshmi Building, Sir Phirozshah Mehta Road, Fort, Bombay 1. Phone: 263888/9 (263677). Grams: "ANILHARDBO." Bombay. Manufacturers of Hard and Soft Boards. Managing Agents: Jolly Industrial Agencies Private Ltd., Lakshmi Insurance Bldg., Sir Phirozshah Mehta Road, Bombay 1.

SHAROOMAL & CO.—70, Abdul Rehman Street, Bombay 3. Phone: 20586. Grams: "WHITEGLASS". E.O.: Seeka Bazar, Agra. Branch: Chowk Bazar, Kanpur. Dealers in Glass, Plywood & Hardboard and Glass Cutters. Sub-Distributors for Anil Hardboards for Bombay.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Grahama Road, Ballard Estate, Bombay. Phone: 26-2711. (8 lines). Offices at Madras, Calcutta, New Delhi. James Finlay & Co., Ltd.—P. Box No. 73, Bombay 1.

MAHOMEDALLY VALIJI ARSIWALLA.—76, Abdul Rehman Street, Bombay 3. Phone: 38400. Dealers in all kinds of Hard Boards.

NASH & CO.—103, Abdul Rehman Street, Bombay 3. Govt. & Ry. Contractors and also Dealers in Expanded Metal, Galvanised Brass, Copper Wire-nettings, Plain Zinc Sheets, Perforated Brass, Copper Zinc Sheets, Welded Mesh Green Wire-nettings, Asbestos Cement Sheets, Plain Corrugated Veneer Plywood, Masonite, Presswood, Plywood, Woven Wire Fence and Wire-netting, Decorative Plywood for furniture as a Teak, Mahogany, Walnut in all sizes and thickness. Phone: 34968.

National Glass House.—Show Room: 72, Abdul Rehman Street, Opp. State Bank, Bombay 3. Head Office: 108, Undria Street, Choki Mohalla, Bombay 8.

Samir Glass Traders.—21-23, Dhanji Street, Parsi Gully, Bombay 3. Tek Trading Corporation.—139, Abdul Rehman Street, Bombay 3.

Yusufali Goolam Hoosen Arsiwalla.—105, Abdul Rehman Street, Bombay 3.

HARDWARE DEALERS AND IRONMONGERS

A. A. MORBIWALA & CO.—109/111, Abdul Rehman Street, Bombay 3. Phone: 23280. Grams: "VERNISE."

A. M. MOTIWALLA & CO.—213, Nagdevi Street, Bombay 3. Phone: 27760. Engineering Tools, Hardware & Pipe Fittings Merchants and general stores suppliers.

Abbas & Brothers.—51, Bhaipala Street, Bombay 3.

ABDULKADER SHAMSUDDIN & CO.—(Estd. 1848), 48, Khokha Bazar, Sarang Street, Bombay 3. Phone: 22789. Grams: "COCHINWALA."

Abbas, A., & Brothers.—127, Nagdevi Street, Bombay 3.

Abbasbhoy Akbarally & Co.—Kika Street, 85, Guliswadi.

Abbasbhoy Kaderbhoy & Co.—97, Bhaipala Lane, Bombay 3.

ABDELLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 29990. Grams: "ALERTDEAL."

Abdulhusein Escoffally Contractor.—91/93, Bapu Khote Street, Bombay 3.

Abdool Husein Jiwafee & Co.—241, Nagdevi Street, Bombay 3.

Abdulhusain Kamrudin.—183, Janjkar Street, Khokha Bazar, Bombay 3.

Abdulla A. Baker & Co.—89, Bhaipala Street, Bombay 3.

Abdullahal Faizullahal Ltd.—Khokha Bazar, Bombay 3.

Acme Manufacturing Co., Ltd.—Construction House, Wittet Road, Ballard Estate.

Adamally Gulamhusein.—Sarang Street, 191, Khokha Bazar, Bombay 3.

Adamji Lookmanji (Iron & Steel) Ltd.—Rahimtools House, Homji Street, Fort.

AGARWAL COMMERCIAL CORPORATION.—35, Bibijan Street, Nagdevi, Bombay 3. Phone: 30041 Ext. 11. Grams: "HACKSAW." Dealers in Hardware, Hand Tools, Precision & Measuring Tools, Metal Working Tools, Power Driven Tools, Portable Electric Tools, Garage Tools, Machine Tools, Lathes, Drilling Machines, Dog Chucks & Hacksaw Blade, Vices, Files, Saws, Chain Pulley Blocks, etc.

Ahmedally Jivabhai & Co.—86-88, Lohar Chawl.

Akbarally, F. H., & Co.—58, Bhaipala Lane, Bombay 3.

Akbarally Mohamedally & Co.—316, Abdul Rehman Street, Bombay 3.

Alcock Ashdown & Co., Ltd.—Defence Works, Mazagaon.

Alladin Virjee Nathani.—Darukhana, Mazagaon Street, Bombay 10.

Allied Engineering & Trading Co.—Asian Building, Nicol Road, Ballard Estate.

Allied Trading Co.—39, Nagdevi Street.

Arco Steels.—Prospect Chambers Annexe, Hornby Road, Fort.

Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.

Asian Engineers.—Nagdevi Cross Lane, Bombay 3.

Associated Machine & Tool Co.—130, Meadows Street, Fort.

B. C. Hardware Mart.—38, Bibijan Street, Nagdevi, Bombay 3.

Babulal & Bros.—26, Nagdevi Cross Lane, Bombay 3.

Baker, A. M., & Co.—218, Nagdevi Street.

Bakhshram & Co.—Ahmed Building, 129, Modi Street, Fort.

Balasoor Trading & Industrial Corporation.—Umrigar Building, 82, Lohar Chawl.

Balmer, Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate.

Bashmal Kanahyalal.—124, Narayan Dhuru Street, Bombay 3.

Batlilol, C. J., & Co.—319, Hornby Road, Fort.

Batlilol & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No. 255451-55. Grams: "BATLIBOICO". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore and Vijayvada. Associates: Bangalore and Secunderabad.

Beardsell, W. A., & Co., Ltd.—15-16, Sir Phirozshah Mehta Road, Fort.

Bharat Engineering Stores.—113, Nagdevi Street, Bombay 3.

Bhasin Brothers.—Court House, 1st floor, Dhobi Talao, Bombay 2.

BHOLA NATH RAM LUBEAYA.—202, Masjid Bunder Road, Bombay 3. Phone: 30041 Ext. 25. Grams: "HEELTIPS." Distributors for John Baker Indian Files and Dealers in Nicholson Files, Saws and shoe materials.

Bhukhanvala & Sons.—Meadows House, Meadows Street, Fort.

Bhutti Bros.—163, Nagdevi Cross Lane, Bombay 3.

B. Kantilal & Co.—272, Masjid Bunder Road, opp. Stato Bank, Bombay 3.

Bombay-Burma Hardware Store.—128, Nagdevi Street, Bombay 3.

BOMBAY HARDWARE TRADERS.—79, Narayan Dhuru Street, Masjid Bunder Road, Bombay 3. Importers & Stockists of Hardware, Mill Gin Stores, Pipe & Fittings, Tools, Bolts, Nuts & Screws.

Bombay Metal Products Co.—86, Kandewadi, Bombay 4.

BOMBAY TUBE & HARDWARE MART PRIVATE LTD.—284, Nagdevi Street, Bombay 3. Phone: 23604.

Brady, W. H., & Co., Ltd.—Royal Incoe, Building, Veer Nariman Street, Fort.

Brothers, J. D.—29-33, Lohar Street, Fort.

Budhabhoy Noorbhoy & Co.—199, Abdul Rehman Street.

Builders & Engineers Co.—Amaravilla, 3, Lady Jamahdji Road, Bombay 16.

Calcutta Iron & Steel Co., Ltd.—68/D Mohamedalli Road, Bombay 3.

C. AMICHAND & CO.—46A, Abdul Rehman Street, Bombay 3. Dealers in Hardware and Non-Ferrous Metals. Grams: "SHIPCOCK."

C. Bole & Co.—61, Narayan Dhuru Street, Bombay 3.

C. PAREKH & COMPANY.—103, Bhaaji Pala Lane, Bombay 3. Phone: 22666 (Office), 59097 (Res.). Grams: "CIPAKO." Importers and Stockists of Automobile bearings, Hardware Tools & Accessories.

Central Machine Tools Agency.—43, Nagdevi Cross Lane, Bombay 3.

Chadha, B. M., & Co., Ltd.—Jan Mansion, Sir Phirozshah Mehta Road, Fort, P. O. Box 671, Bombay.

Chandawalla Traders.—321, Vithalbhai Patel Road, Bombay 4.

Chandulal & Co.—Kathawalla, 313, Samuel Street, Bombay 9.

Chandulal Jethalal & Co.—2, Mirchi Gall, Katha Bazar.

Chandulal Narandas.—96, Kika Street, Bombay 4.

Chasman & Co.—Bell Building, Sir Phirozshah Mehta Road, Fort.

CHENABIL DAS & BROS.—Government and Railway Contractors, 163, Narayan Dhuru Street, Bombay 3. Phone: 34860. Grams: "SCREWHOOK."

Chhaganlal & Co.—Carnac Bunder, Bombay No. 9. Phone: 20751.

Grams: "CONTRACTS."

Chimanlal Desai & Co.—Gool Mansion, Homji Street, Fort.

CHIMANLAL VRAJLAL & CO.—Iron, Steel and Hardware Merchants, Latif House, Iron Market, Bombay 9. Phone: 30963.

Choksi Brothers.—315, Sandhurst Road, Bombay 4.

Choksi, H., & Co.—106, Meadows Street, Fort.

CHUNILAL KHANNA & CO.—Saraswadi Niwas, Thakurdwar Road, Bombay 2. Phone: 23513. Grams: "BABALALU".

Commercial Traders.—23-25, Old Hanuman Lane, Bombay 2.

C. P. Doshi & Co.—Bombay Mutual Building, Hornby Road, Fort.

CURRIM, E. A., PRIVATE LTD.—Hardware Merchants & Ironmongers, 97, Apollo Street, Fort, Bombay 1. Phone: 253216. Grams: "CAIM." Branch at Calcutta.

Curtis, J. & Co., Ltd.—86-40, Mahalaxmi Bridge Arcade, Bombay 11.
Dawoodbhai, M., & Bros.—Hararwalla Building, Lohar Chawl.
Desai, M. S., & Co.—77, Nagdevi Cross Lane, Bombay 3.

DESAI TUBE & HARDWARE MART.—41, Nagdevi Cross Lane, Bombay 3. Phone: 29006. Grams: "HASTY". Importers of pipe fittings, Engineering Stores & Tools, Mill gin Stores & Packings & Jointings.

Deviprasad Khandwal & Co., Ltd.—Iron Jatha, Carnac Bunder.
Dewanchand Budhumall.—58/55, Bibijan Street, Bombay 3.

DEWANCHAND NIKKAMALL & CO.—128, Narayan Dhuru Street, Bombay 3. Phone: 20102. Grams: "DREAMI-CRASH".

Dhiraajlal Morarji.—37-A, Sarang Street, Bombay 3.
Dohadwalla, B. H., & Co.—145, Nagdevi Street.
Drewet Chowna & Co.—Lentin Chambers, Meadows Street, Fort.
Dubash Freres & Co.—Victoria Building, Farsi Bazar Street, Fort.
Duncan Stratton & Co. Ltd.—5, Bank Street, Fort.
Eastern Tube & Hardware Mart.—123, Narayan Dhuru Street, Bombay 3.

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HARDWARE TOOLS AND
MACHINERY MERCHANTS

Best Guaranteed
Tools Makers



171/173, Mutton Street, Null Bazar, Bombay 3.

Phone: 71400.

Grams: "HANDBLOWER".

Esoofally Adamji & Co.—134, Nagdevi Street.
Esoofally Kamrudin.—84, Khokha Bazar, Bombay 3.
Express Commercial Corporation.—Nagdevi Cross Lane, Bombay 3.
Fairdeal Hardware Stores.—206-A, Abdul Rehman Street, Bombay 3.

FAZLEBHAI & BROS.—26, Sarang Street, Bombay 3. Specialists in Bolts & Nuts, S.A.E. and Auto parts and Tools.

FIDALLY GULAMALL.—103, Janjikhur Street, Bombay 3. Phone: 39733.

Fleming, John & Co., Ltd.—Sukhadwala Building, 21, Bastion Road.

Gannon, Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.

Garlick & Co.—Haines Road, Jacob Circle.

G. C. Vora & Co.—107, C. P. Tank Road, Bombay 4.

General Trading Corporation.—36-B, Tamarind House, Tamarind Lane, Fort.

General Tubes Ltd.—142-144, Nagdevi Street, Bombay 3.

Globe Stores Co., The.—Sitaram Building, near Crawford Market, Hornby Road.

Gowardhanlal Sethi & Sons.—159, Narayan Dhuru Street, Bombay 3.

GREAT EASTERN HARDWARE STORES PRIVATE LTD.—132, Sarang Street, Bombay 3. Phone: 29063. Grams: "WIN-GROVE".

Great Eastern Trading Co., The.—107, Cawasji Patel Street, Fort.

Greaves, Cotton & Co., Ltd.—1, Forbes Street.

Greentose Corporation (India).—Cama Buildings, 24-26, Dalal Street, Fort.

Gulamhussein Sulemanji & Co.—Mann Bhuvan, 24, Kika Street, Gulaiwadi.

Haldarbhoy Esmaliji & Co.—168, Nagdevi Street, Bombay 3.

Harchandranl Sons.—229, Masjid Bunder Road, Bombay 3.

Hardware & Sundries Importing Agency.—Hanshaw Building, 19, Bank Street, Fort.

Harjimal Kidarnath & Co.—87, Nagdevi Cross Lane, Bombay 3.

Harjimal Nand Lal (Estd. 1811).—75, Nagdevi Cross Lane, Bombay 3.

Hatimbhoy, A., & Co.—Argyle Road, Bombay 9.

Hatimbhoy Goolamhussein & Bros.—193, Nagdevi Street.

Heptoola Noorudin & Co.—152-54, Nagdevi Street, Bombay 3.

Herman & Mohatta, B. E., Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort.

Hiralal Gokaldas Dalal & Co.—45, Nagdevi Cross Lane, Bombay 3.

Hossein & Bros., M. A.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

Husein Mussa Virjee & Co.—Sheriff Hasam Building, Khoja Mohalla, Bombay 9.

INDIAN COMMERCIAL CO.—86, Sarang Street, (Bhusari Mohalla), Bombay 3. Phone: 30885. General Hardware Merchants, Contractors and Suppliers of all sorts of Mill gin Factory materials.

Indo Bombay Trading Co.—84, Nagdevi Street, Bombay 3.

Industrial Syndicate.—Lentin Chambers, Dalal Street, Fort.

INTERNATIONAL TOOLS & HARDWARE STORES.—84, Kika Street, Bombay 4. Phone: 73636. Grams: "SANITARY".

Iron & Hardware (India) Co.—88, Nagdevi Cross Lane, Bombay 3.

Jacks & Co., Ltd., William.—Hamilton House, Graham Road, Ballard Estate.

JAIRAMDAS & SONS.—163, Narayan Dhuru Street, Bombay 3.

Grams: "JAIRAMDAS". Phone: 29020.

James Tools & Hardware Co.—109-11, Nagdevi Street, Bombay 3.

Jashwantlal Maneklal & Co.—40, Vir Nariman Street, Fort.

Jayant Metal Manufacturing Co.—152, Lohar Street, Bombay.

Jayantlal & Brothers.—38, Bibijan Street, Nagdevi, Bombay 3.

JIVRAJ & VRAJLAL.—122, Nagdevi Street, Bombay 3. Phone No. 20133. Grams: "SANTIPES".

Kamlashankar, P. Joshi.—72-80, Nagdevi Cross Lane, Bombay 3.

Kanakis Corporation.—163, Nagdevi Cross Lane, Bombay 3.

KANTILAL BHOGILAL & CO.—(Estd. 1933), Engineering and Metal Cutting Tools, Precision & Machinery Tools, Garage Tools and Worn & Triple gear Pulley Blocks and Abrasive Products. 68, Nagdevi Cross Lane, Bombay 3.

Phone: 30637 (Office) and 28947 (Residence). Grams: "PIPE TOOLS".

Kantilal Sanghvi & Co.—Mherwan Building, Sir Phirozshah Mehta Road.

KATE HARDWARE STORES.—136, Carnac Road (Opp. Crawford Market), Bombay 3. Phone: 26196. Dealers in Hardware, Engineering Tools, Pipes & Fittings, Metal and other miscellaneous Stores.

Keshavalal Naraldas Jaliwalla.—157, Abdul Rehman Street, Bombay 3.

Khambaty, H. A., & Co., Ltd.—45-47, Lohar Street, Bombay 3.

K. Kirtanlal & Co.—114-16, Zaveri Bazar, Bombay 2.

Kirtlal & Company.—31, Bibijan Street (Barbhal Mohalla), Bombay 3. Phone: 23572.

Kishor Trading Co.—145, Narayan Dhuru Street, Bombay 3.

Kurwa & Kajji.—142-44, Abdul Rehman Street.

Lookmanji Moosaji, Diamond Building, Lohar Chawl, Bombay 2.

MACHINE TOOLS & IMPLEMENTS.—83-85, Narayan Dhuru Street, Bombay 3. Phones: Office: 22963, Residence: 242423. Grams: "MACHTOOLS".

MADHORAM MOOLCHAND.—80-82, Nagdevi Street, Bombay 3. Phone: 30041 Extn. 5. Grams: "IRONINDIA".

Mahomedally Valibhoy.—83, Abdul Rehman Street, Bombay 3.

Manekchand Jivraj & Co.—Darukhana, Masagon, Bombay 10.

Mangaldas & Sons.—Lentin Chambers, Dalal Street, Fort, Bombay.

Manseta, N., & Bros.—165, Lohar Chawl.

Marine & Mills Agencies.—197, Nagdevi Street, Bombay 3.

Mashruwalla, C. M., & Co.—172/74, Nagdevi Street, Bombay 3.

MEHTA & COMPANY.—Latif House, Argyle Road, Iron Market, Bombay 9. Phone: 30963. Grams: "NICERODS".

Importers of Iron, Steel, Hardware and Metals.

Mehta & Co., S.—Annes Chambers Annexe, Carnac Road, Bombay 1.

Mehta Hardware Mart.—81-83, Nagdevi Street, Bombay 3.

Mehta, H. P., & Co.—112, Nagdevi Street, Bombay 3.

Mehta Textile & Hardware Stores.—158/160, Narayan Dhuru Street, Bombay 3.

Modern Machine Tools Co.—88, Nagdevi Cross Lane.

Modern Mill Stores.—97, Nagdevi Street, Bombay 3.

Modi Trading Co.—163, Nagdevi Cross Lane, Bombay 3.

Molooobhoy, Ahmed S., & Sons.—281, Nagdevi Street.

MULLA TATEBALI MULLA NOORBHAY.—175, Janjikhur Street, Bombay 3. Phone: 30834. Grams: "TANOOOR".

Specialists for Hinges and Screws.

Nanlal Ambalal & Co.—60, Nagdevi Street.

Naterwalla & Co., S. E.—Bombay Mutual Annexe, Gunbow Street, Fort.

NEW INDIA HARDWARE MART.—182, Narayan Dhuru Street, Bombay 3. Grams: "FREETRADE". Phone: 30886.

Oshavai, B., & Co.—86, Nagdevi Street, Bombay 3.

Oshavai, B., & Co.—Carnac Bunder, Argyle Road, Bombay 9.

Orient Paint & Hardware Mart.—67, Habib Building, C. P. Tank Road, Bombay 4.

PARAMOUNT HARDWARE MART.—Carnac Bunder, Bombay 3. Phone: 22932. Grams: "PARAMART".

Authorized Stockists of Tata Agric Tools.

Paramount Tools Company.—3, Narayan Dhuru Cross Lane, Bombay 3.

Parakh & Parbhoo Ltd.—Khetwadi Back Road, Bombay 4.

Parakh, P. S., & Co.—103, Nagdevi Street.

Patel, U. D., & Co.—11, Bank Street Building, Fort.

Patel, P. B., & Co., Ltd.—Mherwan Building, Sir Phirozshah Mehta Road, Fort.

Pavri, J. K.—10, Karim Chambers, Hamam Street, Fort.

P. Ratilal & Co.—43, Dhanji Street, Moti Mahal, Bombay 3. Phone: 32700.

Ramchand Mathradas Aggarwal.—106-108, Dhanji Street, Bombay 3.

Rasiklal, K. & Co.—Mehta Building, Meadows Street, Fort.

Rasiklal Shah & Co.—93, Narayan Dhuru Street, Bombay 3.

R. C. Traders.—Lentin Chambers, Dalai Street, Fort.

Real Paint & Hardware Mart.—105, C. F. Tank Road, Bombay 4.

RELIANCE TRADING CO.—Vithal Sayana Building No. 1, Lohar Street, Bombay 2. Phone: 34751. Grams: "STORE-TRADE".

RELIANCE IRON & HARDWARE CO.—11, Narayan Dhuru Cross Lane, Bombay 3. Grams: "SUMADHUR".

Repute Engineering Co.—165, Narayan Dhuru Street, Bombay 3.

Richardson & Craddas Ltd.—Byculla Iron Works, Byculla.

Rowe & Rowe.—881, Hornby Road, Fort.

R. Vaidial Desai & Co.—15-27, Ratan Building, Bibjan Street, Nagdevi, Bombay 3.

Sakria & Sons.—82, Nagdevi Cross Lane, Bombay 3.

Sanghani & Co.—178-180, Abdul Rahman Street.

Sant Ram Blasdev Co.—6, Narayan Dhuru Cross Lane, Bombay 3.

Shah Chhaganlal Ladhulhal.—58, Mudi Bazar (Mandvi), Bombay 3. Phone: 34522.

Shah Engineering Stores.—88-92, Nagdevi Cross Lane, Bombay 3.

Shah Machine Tools Co.—75, Abdul Rahman Street, Bombay 3.

Shah Trading Corporation.—Opp. Crawford Market, Oomrigar Building, P. B. No. 2299, Bombay 2.

Sharafally & Sons.—73/75, Bhajipala Lane, Bombay 3.

Shivdayal Bilbhaderdas.—96, Narayan Dhuru Street, Bombay 3.

Shree Krishna Trading Co., Ltd.—Alli Chambers, Meadows Street, Fort.

Sriram & Co.—97, Narayan Dhuru Street, Bombay 3.

Sivramkrishnan, M.—Hasi Manzil, 82-86, Abdul Rahman Street, Bombay 3.

Soho House.—Vithal Sayana Building, Lohar Street, Bombay 2.

Solem Hardware Mart.—155, Nagdevi Street.

Somnath, C., & Co.—Dr. D'Silva Road, Dadar (Western Railway), Bombay.

Standard Metal Works Ltd.—17, Falkland Road, Low Level, Tardeo.

Standard Trading Co.—Vithal Sayana Building No. 2, Lohar Street, Bombay 2.

Standard Tube Co., Ltd., The.—123, Nagdevi Street, Bombay 3.

Stanley Works, The.—48-44, Lakshmi Building, Sir Phiroshah Mehta Road, Fort.

Steelyard Limited.—Rahimtoola House, Homji Street, Fort.

SUNDERLAL & SONS.—11, Narayan Dhuru Cross Lane, Bombay 3. Phone: 22847. Grams: "ALLWRENCH." Engineering, Precision & Metal Cutting Tools, Ball Bearings, Hardware & Mill Gin Stores Merchants.

Talib & Co.—Talib House, 104, Nagdevi Street, Bombay 3.

T. Alimahomed & Co.—144-46, Sarang Street, Bombay 3.

Tarachand Gupta & Bros.—Narayan Dhuru Street, Bombay 3.

Textile Stores & Hardware Mart.—32, Bibjan Lane, Nagdevi Street.

TEXTTOOL TUBE CO.—P. B. No. 3271, 8, Nagdevi Street, Bombay 3. Grams: "TEXTTOOL".

Thakorlal & Co.—47, Nagdevi Cross Lane, Bombay 3.

T. M. TYABJI & BROTHERS.—Hamam House, 32-38, Hamam Street, Fort. Hardware, Engineering, Aeronautical & Electrical Specialists. Grams: "TRUEWAY." Phone: 254285.

T. SALEHBOY & CO.—54, Khokha Bazar, Sarang Street, Bombay 3. Phone: 27505. Grams: "IRONWARE." Direct Importers of Hardware and Contractors.

Tirathram Kashmirilal.—80, Nagdevi Cross Lane, Bombay 3.

Trinity Industrial Corporation.—Khandelwal Bhawan, 166, Dr. Dadabhai Naotji Road, Bombay 1.

Trade (India) Corporation.—58, Mohamedalli Road, P.O. Box No. 3231, Bombay.

Trivedi & Co.—Navsari Chambers, Hornby Road, Fort.

Turner, Hoare & Co., Ltd.—Gateway Building, Apollo Bunder.

TYEBALLY DAWOODJI.—(Estd. 1865), 87, Sarang Street, Bombay 3. Phone: 34862. Grams: "FOOTRULES." Stockists of Nicholson and Whitehead Files and Dealers in Files, Bolts, Nuts, Screws and Hinges, etc.

TYEBALLY & CO., E.—13, Khokha Bazar, Bombay 3. Grams: "CHEAPSHOP". Direct Importers, General Hardware & Tool Merchants, Order Suppliers, Sole Distributors for Eagle Brand "Door Shaves" (Raffling Castors).

U. D. Patel & Company.—11, Bank Street, Fort, Bombay.

United Mill Stores (India).—61, Nagdevi Street, Bombay 3.

United Tube & Hardware Co.—146, Nagdevi Street, Bombay 3.

UNIVERSAL TRADING CO.—General Hardware Merchants and Order Suppliers, Stockists of Rubber Goods, Asbestos Goods, Jointing Sheets, Shovels, Ebonite and Fibre Sheets and Rods, Engineering Tools, Twist Drills, Hammers, Spanners, Grinding Wheels, etc. Mohamedi House, 79, Mohamedalli Road, Bombay 3. Grams: "IRONMART."

Vasi Shums & Co.—Vasi Building, 165-167, Nagdevi Street.

Vinod Mehta & Co.—22B, Noble Chambers, Parel Bazar Street, Fort.

Viswabharati Trading Co.—Kumpta Street, Ballard Estate, Bombay 1.

Vithaldas G. & Co.—60, Nagdevi Cross Lane, Bombay 3.

VORA BROTHERS.—34, Bibjan Street, Bombay 3. Phone: 33585. Grams: "VORABOLTS." Specialists in Bolts, Nuts, Rivets, Washers and other Hardware materials.

Vora, J. D., & Co.—107, C. F. Tank, Bombay 4.

WESTERN INDIA HARDWARE MART.—16, Narayan Dhuru Cross Lane, Bombay 3. Grams: "VISCOSITY." Phone: 28730.

Zaveri, C. A., & Co.—44, Abdul Rahman Street.

HARDWARE IMPORTERS

A. K. PORBANDARWALLA SONS PRIVATE LTD.—Ruby Mansion, 19, Farsee Bazar, Street, Bombay 1. Phone: 253004. Grams: "HOMEPAIN." Importers of Hardware and Oil Paint Merchants.

ARDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 22990. Grams: "ALERTDEAL."

Agarwal Commercial Corp.—35, Bibjan Street, Nagdevi, Bombay 3. Phone: 30041 Extn. 11. Grams: "HACKSAW". Stockists of Engineering Tools, Hardware & Mill Gin Stores.

ASGARALI NURUDDIN & CO.—95, Nagdevi Street, Bombay 3. Phone: 22609.

(.) Parekh & Co.—103, Bhajipala Lane, Bombay 3.

Dinkar Trading Co.—95/97, Bhandari Street, Bombay 3.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi. Evergreen Corporation.—Peerbhoy Building No. 1, Lohar Chawl, Bombay 2.

Gaytee & Company.—Jannabhoomi Chambers, Fort Street, Fort, Bombay. Grams: "IMPENG." Phone: 32449.

HARIJMAL KIDARNATH & CO. (Estd. 1811)—87, Nagdevi Cross Lane, Bombay 3. Phone: 30041 (Extn. 24). Grams: "CHAIN." Sole Distributors for "Libra" Steel Files.

HARIJMAL NAND LAL (Estd. 1811)—75, Nagdevi Cross Lane, Bombay 3. Phones: 34811 & 241454 (Res.) Grams: "HARJINAND."

HEMANT TOOLS TRADING CO.—33, Bibjan Street (Barbhai Mahalla), Bombay 3. Grams: "LACING." Phone: C/o 23572.

HINDUSTAN TOOLS & ENGINEERING CO.—Post Box No. 2311, 133, Princess Street, Bombay 2. Phone: 20691. Dealers & Stockists of all kinds of Bolts, Nuts & Screws.

HINDUSTAN TOOLS & HARDWARE MART.—126, Lohar Chawl, Bombay 2. Phone: 34766. Grams: "FAKIRSAI."

INDIA HARDWARE & CHEMICAL CO.—11, Bank Street, Fort, Bombay 1. Phone: 254158. Grams: "YARAZAQ." Sole Agents for "SOLAR" Paints Manufactured by the Solar Paint & Varnish Mfg. Co., Calcutta.

International Tools & Hardware Stores.—84, Kika Street, Bombay 4. Phone: 73636; Grams: "SANITARY."

JAIRAMDES & SONS.—163, Narayan Dhuru Street, Bombay 3. Grams: "JAIRAMDES." Phone: 29020.

James Tools & Hardware Co.—109-111, Nagdevi Street, Bombay 3.

KANTILAL BROGILAL & CO. (Estd. 1933)—Engineering and Metal Cutting Tools, Precision and Machinery Tools, Garage Tools and Worn and Triple gear Pulley blocks and Abrasive Products. 68, Nagdevi Cross Lane, Bombay 3. Phones: 30637 (Office) and 28947 (Residence). Grams: "PIPETOOLS."

KANTILAL SANGHVI & CO.—Mherwan Building, Sir Phiroshah Mehta Road, Fort. Phone No.: 34861. Grams: "EXPIM."

Mangaldas & Sons.—Lentin Chambers, Dalai Street, Fort, Bombay

MODY BROTHERS & CO.—25, Nagdevi Cross Lane, Bombay 3. Phone: 30958. Grams: "MODEROSCO."

NAGDEVY TOOL-STEEL MART.—186-88, Nagdevi Street, Bombay 3. Phone: 23058. Grams: "TENDERERS."

NATVERLAL & BROS.—Hardware Tools & Pipe Fittings Merchants and Direct Importers, 180, Nagdevi Street, Bombay 3. Phone: 27910. Grams: "NATVERBROS."

NEW HIND ENGINEERING CO.—63, Nagdevi Cross Lane, Bombay 3.

New India Hardware Mart.—152, Narayan Dhuru Street, Bombay 3.

Shah Trading Corporation.—Oomrigar Building, opp. Crawford Market, Bombay 3.

Shalebhoj Tyebjee & Sons.—12, Bruce Street, Bombay 1.

THAKORLAL & CO.—47, Nagdevi Cross Lane, Bombay 3. Phone: 20490. Grams: "PIPEWARE."

TIRATHDAS KOTMALL.—107, Narayan Dhuru Street, Bombay 3. Grams: "HARDTOOL."

United Mill Stores (India).—P. B. No. 3256. 93, Narayan Dhuru Street, Bombay 3.

HATS AND CAPS MFRS. AND DEALERS

Calcutta Sola Hat Agency.—Dwarkanadas Building, Mangaldas Road, Bombay 2.

Delhi Hat Works.—206-208, Carnac Road, Bombay 2.

Kashmir Govt. Arts Emporium.—Sir P. M. Road, Bombay 1.

LUIE.—Opp. G. T. Hospital, 280, Carnac Road, Bombay 2. Hatters, Uniform Cap & Badge Makers. Contractors to Bombay State Police, The Indian Navy and Railways.

Nanjis.—206-208, Carnac Road, Bombay 2.

Noormahomed Manji Topiwalla.—255, Ibrahim Rahimtools Road. Dealers in Furs, Caps and Materials.

Popular Sola Hat Works.—Baria Building, opp. Crawford Market. Grams: "POPULARHAT." Phone: 30215.

HEAT TREATMENT AND METAL PROCESSING PRODUCTS

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort. Danson Raviraj & Co.—48, Tamarind Lane, Fort.

HARDCASTLE, WAUD & CO., PRIVATE LTD.—Ellice Buildings, Dr. Dadabhai Naoroji Road, Fort.

Imperial Chemical Industries (India) Ltd.—Imperial Chemical House, Ballard Estate.

Pioneer Equipment Co. Private Ltd.—139, Meadows Street, P. O. Box No. 1909, Fort.

Thos. W. Ward (India) Ltd.—Marshall Building, Ballard Road, Ballard Estate, Fort.

HIDES AND SKINS

EDGAR HANDLEY AND CO. PRIVATE LTD.—135, Meadows Street, Fort. Phones: 253548 and 252934. Grams: "TROJAN."

Govias, Basil M. P.—P. O. Box 208-A, Bombay Mutual Building, Hornby Road, Fort.

Hashambhoj Aloo Mahomed & Son.—Dostmahomed Building, Nishanpada Road, Khadak, Bombay 9.

Mahomedali Esmail.—Stock Exchange Bldg., Apollo Street, Fort.

Western Mercantile Co.—38, Western India House, Sir Phipposhah Mehta Road, Fort.

HOMOEOPATHIC MEDICINES

ROY & CO.—HOMOEOPATHS.—(Estd. 1889), 176, Princess Street, Bombay 2. The leading and the largest house in Western India for Homoeopathic medicines, Books and Physicians' requisites, Medical Publishers Matties Electro Homoeopathic Medicines, German Homoeopathic Injections and Patents, Homoeopathic Journal—Specimen copy & catalogue free on request.

HOISTING MACHINERY (LIFTS & HOISTS)

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 29990. Grams: "ALERTDEAL."

ELECTRIC CONSTRUCTION & EQUIPMENT CO., LTD.—16-A, Banaraj Lane, Byculla Bridge, Post Bag No. 6955, Bombay 27. Phone: 75524. Grams: "COECELL." Sole Agents in India for Schindler & Co., Ltd., Lucerne, Elkhon, Switzerland.

Fleming John & Co., Private Ltd.—P. B. No. 76, Bombay 1. Phone: 261153.

Gujarat Trading Syndicate.—India House, Fort, Bombay 1. Grams: "GUTRASY."

HOSES (RUBBER & CANVAS)

AMIRUDIN SHALEBHOJ TYEBJEE & SONS.—Shale Building, 2nd Floor, Bank Street, Fort, Bombay 1. Phone: 252952. Grams: "PILOTAGE."

AMRATLAL CHHAGANLAL & CO.—143, Nagdevi Street, Bombay 3. Phone: 29008. Grams: "EKADASHI." Dealing in Suction, Delivery & Fire Hoses, Surgical, Rubber & Plastic Tubings & Sheetings.

BOMBAY MERCANTILE CORPORATION.—211-217, Nagdevi Street, Bombay 3. Phone: 2278. Grams: "CORPROMBER." Distributors for Transmission Beltings and Hoses.

Calcutta Iron & Steel Co. Ltd.—68/D, Mohamedalli Road, Bombay 3. Evergreen Corporation.—Peerbhoy Building No. 1, Lohar Chawl, Bombay 2.

Fleming John & Co., Private Ltd.—P. B. No. 76, Bombay 1. Phone: 261153.

JIVRAJ & VRAJLAL.—122, Nagdevi Street, Bombay 3. Phone: 30138. Grams: "SANIPIPES."

P. Ratilal & Co.—43, Dhanji Street, Moti Mahal, Bombay 3. Phone: 32700.

Richardson & Cruddas Ltd.—Byculla Iron Works, Bombay.

ROYAL HARDWARE MART.—108, Nagdevi Street, Bombay 3. Phone: 36621. Grams: "MANILAROPPE." Distributors for "VENUS" Brand Hoses, suction, delivery, garden, Pneumatic, acid and oil resisting "NEOPRENE" Hoses and also Dunlop Hoses.

Shalebhoj Tyebjee & Sons.—12, Bruce Street, Bombay 1.

Tahira Industries (India) Private Ltd.—53, Queen's Road, Bombay 2. Phone: 34060.

HOSIERY MANUFACTURERS AND DEALERS

Ahmed Ebrahim Bros.—882, Chuekha Street, Bombay 3.

Bhagvandas Chatrabhuji & Co.—20, Hamam Street, Fort. Bombay Hosiery House.—9-12, Lahri House, 14, Bhajipala Street, Off Chakia Street, Bombay 3. Grams: "SAFETRADE."

BORIVLI HOSIERY MILLS (Estd. 1920).—Office: 63, Champa Gully, Mulji Jetha Market, Bombay 2. Phone No. 20414. Mills at Borivli, Western Rly. Phone No. 84635.

Cawnpore Mills Depot.—Churchgate House, Churchgate Street, Fort. Chhaganlal Vlahram & Co.—107-109, Chakia Street.

"Crawforda."—280, Carnac Road, Bombay 2.

Chunilal Mulchand & Co.—Waterloo Mansion, Mayo Road, Fort, Bombay.

Dave, J. M., & Co.—Kanta Terrace, Silk Bazar, Kalbadevi Road.

Haji Ebrahim Kasak.—91, Sherif Dewji Street, Bombay 3.

Haji Ebrahim Haji Mohammad B.—15, Bhajipala Lane, Bombay 3.

Haroon & Co.—19, Zakaria Musjid Road.

Hassaram & Co., K.—New Silk Bazar, Kalbadevi Road, Bombay 2.

Hukamchand Chanderbhan.—1st Floor, Hira Building, opp. Crawford Market, Carnac Road.

INDIA HOSIERY FACTORY.—Kalachowki Road, Bombay 12. Manufacturers of all kinds of Hosiery goods, Cotton, Rayon, Woollen & Stretch Nylon & also Processors of Stretch Nylon yarn. Phone: 76902. Grams: "KIRORI." Sale Shop: 115/117, Chakia Street, Bombay 3. Phone: 30023.

Jewan Bukhsh Mohammed Jan.—99, Chakia Street, Bombay 3.

Kabir Hosiery Works.—167, Lamington Road, Bombay 7.

Ladhabhai Ravji & Bros.—41, Advani Chambers, Sir Phipposhah Mehta Road, Fort.

Mansukhlal Kantilal & Co.—185, Mulji Jetha Building, Princess Street.

M. Daldas & Sons.—190, Princess Street.

MENORA HOSIERY WORKS PRIVATE LTD.—75, Nehru Road, Vile Parle (East), Bombay 24. Phone: 86770. Grams: "MENORWORK."

Modern Hosiery Works.—Dhobiwadi, Thakurdwar.

Mohanlal, D., & Co.—Nariman Building, near P. O., Kalbadevi.

Parmanand Gordhandas & Co.—280, Carnac Road, Bombay 2.

Patel Hosiery Mills.—7-10, Botawala Building, Elphinstone Circle, Fort.

Pavri Sons & Co.—93-97, Bazar Gate Street, Fort.

Popatlal Ghehabhai & Co.—104, Chakia Street, Bombay 3.

Popular Hosiery Works.—98B, Lady Hardinge Road, Matunga (Western Rly.), Bombay 16.

Prataprai & Co.—4, Swadeshi Market, Kalbadevi Road, Bombay 2.

Rajal Bros.—Opp. Electric House, Colaba Causeway.

Sabu & Co.—Esplanade Mansion, Esplanade Road, Fort.

Shangvi & Sons, N. H., (Estd. 1920).—47-48, 65-66, Swadeshi Market, Kalbadevi Road.

SEREE JAM HOSIERY WORKS PRIVATE LTD.—30, Old Hanuman Lane, Bombay 2. Phone: 38954. Grams: "SUGOPHI." Factory at 91, Ghodbunder Road, Borivli (S.S.E.). Phone: 84057. Manufacturers of Gents' & Ladies' Fancy Hosiery underwears and outerwears.

Sigil Traders.—R. B. Narayanlal Bansilal Compound, opp. Bombay Central Station, Bombay 8.

Sultan Haji Mahomed & Co.—Kanta Terrace, 529, Kalbadevi Road, Bombay 2.

Surat Hosiery & Printing Works.—Sayee Bhuwan, 143, Princess Street.

Trivedi, R., & Co.—28, Lalsingh Building, Lohar Chawl.

Utomal & Anusamal Co.—Bombay Mutual Annex, Gunbow Street, Fort.

Valibhai Kamruddin.—101, Abdul Rehman Street, Bombay 3.
 Vashani Cloth Stores.—Prospect Chambers, 313, Hornby Road, Fort.
 Vasi Bros. & Co.—Topiwala Mansion, Mahomedally Road, Bombay 3.
 Vaswani (India) Ltd.—496, Kalbadevi Road, Bombay 2.
 West End Shop.—234-236, Carnac Road, Kerawalla Mansion, opp.
 Police Commissioner's Office, Bombay 2.
 Western Link Co.—19, Bank Street, Fort.
 Yacob Ahmed Bros.—Topiwala Mansion, Mahomedally Road.

HOSPITAL EQUIPMENT & SUPPLIES

B. MOHANLAL & CO.—Office: 418, Kalbadevi Road, Showroom: 184, Princess Street, Bombay 2. Phone: 39965. Grams: "BICITICY".
Bole Brothers—49, Princess Street, Bombay 2. Phone: 25316.
BOMBAY SURGICO MEDICAL AGENCY PRIVATE LTD.—Bharucha Bldg., 182, Princess Street. Phone: 22502. Grams: "AUTOLITCO." Branch at 113, Chittaranjan Avenue, Calcutta 12. Phone: B.B. 6912. Grams: "GALAXY."
BOMBAY SAFE MANUFACTURING CO.—307-9, Kalbadevi Road, Bombay 2. Phone: 22367 (Office & Showroom), 71589 (Factory). Manufacturers and Dealers of Steel Furniture, Hospital Equipment, etc.
BRIGHT BROTHERS PRIVATE LTD.—156-A, Tardeo Road, Bombay 7. Grams: "BRISOS." Phones: 77454 and 77455. Manufacturers of Buckets, Carbags, Basins, Containers from Plastic material (Polythene), Carboys impervious to many Chemicals including Acids.
EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Sole Agents: Siemens Reindiger Werke, A.G., Germany. Shree-nivas House, Waudby Road, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi, Nagpur, Lucknow, Bangalore, Secunderabad, Trivandrum.
Fairdeal Surgical Corporation—106, New Citizen Bank House, Palton Road, Bombay 1. Grams: "FOLLOWER." Surgical Instruments and Hospital Sundries.
G. K. Kansara—118, Kansara Chawl, Kalbadevi, Bombay 2.
Gordhandas Desai Private Ltd.—Kermani Bldg., Sir P. M. Road, Bombay 1.
HINDUSTAN FABRICS & STORES PRIVATE LTD.—Fulchand Nivas, Chowpatty Sea Face, Bombay 7. Grams: "SWAKALA". Phone: 27108.
I.C.I. (India) Private Ltd.—P. B. No. 310, Bombay 1.
Indian Oxygen Ltd., The.—Ghatkopar (Bombay Agra Road), Bombay. Phone: 67941 (4 Lines); Grams: "INDOXCO".
Jagkumar & Co.—Prospect Chambers Annex, Hornby Road, Fort.
Kantilal Chhotalal & Co.—22, Babu Genu Road, Princess Street, Bombay 2. Phone: 39650. Grams: "COMETBAG". Manufacturers of "COMET" & "PRESIDENT" brands Hotwater Bags, Ice Bags, Enema Tubings etc.
Kapadia Brothers—Kalan Building No. 3, Kandewadi, Bombay 4.
KHIRA STEEL WORKS PRIVATE LTD.—H.O. & Factory: Ghodbunder Road, Santa Cruz, Bombay 23. Grams: "STEELCASE". Phones: 88002 & 89568. Regd. Office: Khira Bhavan, Sandhurst Bridge, Bombay 7. Grams: "SWAKALA". Phone: 27636. Showroom: Fulchand Nivas, Chowpatty Sea Face, Bombay 7. Grams: "SWAKALA", Phone: 27108.
LANE METAL & ENAMEL WORKS PRIVATE LTD.—Kasturchand Mills Compound, Tulsi Pipe Road, Dadar, Bombay 28. Phone: 60637. Grams: "LANEENAMEL".
MODERN TRADERS—Hospital and Laboratory Furnishers, Dwarkadas Mansions, 457, Sardar V. Patel Road, Bombay 4. Phone: 72074. Grams: "REASTAINS." Branch at Thak Road, Ahmedabad 1. Phone: 3783.
NATIONAL STEEL EQUIPMENT CO.—Naigaum Road (near Spring Mills), Dadar, Bombay 14. Phone: 61755. Grams: "BEDLOCKER." Specialists in Pressure Sterilisers, Hydraulic Dental Chairs, Invalid Furniture and Stainless Steel Equipment, etc.
NATIONAL SURGICAL INSTRUMENT COMPANY (ESTD. 1947).—Office & Works, 301, Haines Road, Worli, Bombay 18. Phone: 40540.
PEARL METAL WORKS.—20, Wadi Bunder Road, Mazgaon, Bombay 10. Phone: 73840. Grams: "PEARLWORKS." Manufacturers of "PEARL" Brand Stainless Steel Hospital Wares.
Prabhudas & Co.—27, New Hanuman Lane, Bombay 2.
Raj-Der-Kar & Co.—Commissionariat Building, Hornby Road, Fort. For Research and Industries. Phone: 27304.
Reliance Electric & Hardware Stores.—55, Krishna Bhuvan, Lohar Chawl.
Salemahomed Padamsee & Co.—141, Chakla Street, P.O. Box 3131, Bombay 3.

SEAN, M., & CO.—Kanjli Mansion, Sandhurst Road, Bombay 4. Phone: 71834.
Shanti Trading Co.—New Citizen Bank House, Palton Road, Bombay 1.
Steelmade, Dr. Annie Basant Road, Worli, Bombay 18.
Vasir Enamel Works Ltd.—51, Tank Bunder Estate, Bombay.
Williams Jack & Co., Ltd.—Hamilton House, Ballard Estate, Bombay 1.

HOTELS AND RESTAURANTS

Airlines Hotel—Churchgate Reclamation, Bombay 1.
Ajanta Restaurant—9, Mangalore Street, Ballard Estate, Bombay 1.
Ambassador Hotel—Churchgate Extension, Bombay 1.
Aryanivas Hindu Lodging and Boarding House—Opp. Vithalwadi, Kalbadevi Road.
Astoria Hotel—Churchgate Reclamation, Bombay 1.
Bentley's Hotel—17, Oliver Road, Colaba, Bombay 1.
Berry's Restaurant—Churchgate Extension, Bombay 1.
Bombay Lodge—Borhat Lane and Girgaum Road Junction, Girgaum, Bombay 4.
Bombell's Swiss Confectionery—63, Warden Road, Bombay 26.
Brandon & Co., Ltd.—Elphinstone Bldg., Veer Nariman Road, Bombay 1.
Bristol Grill Private Ltd.—Laxmi Buildings, Sir Phirozshah Mehta Road, Fort.
Chetana—34, Rampart Row, Fort.
Chez Caroline—Dhanraj Mahal, Apollo Bunder, Bombay 1.
Elphinstone Hotel—Gulshan Chambers, Hornby Road, Fort.
Empire Hindu Hotel—Hornby Road.
Eros Theatre & Restaurant Private Ltd.—Cambata Building, Queen's Road, Churchgate Reclamation.
Falett's Italian Cafe—Cusrow Baug, Causeway, Bombay 1.
Frederick's Hotel—Lansdowne Road, Apollo Bunder, Fort.
Gaylord Restaurant—May Fair, Churchgate Street, Bombay 1.
George Restaurant—20, Apollo Street.
Girgaum Lodge—47F, Khotachi Wadi, Opp. Majestic Cinema, Bombay 4.
Gourdon & Co.—Rehmat Manzil, Churchgate Reclamation, Bombay 1, Grand Hotel (Bombay), Ltd.—Ballard Estate, Fort.
GREEN'S HOTEL & RESTAURANT—Apollo Bunder, Grams: "CATERERS". Phone: 219101.
Hotel Regal—238, Frere Road.
Hotel Waldorf—16, Arthur Bunder Road, Bombay 5.
Ideal Restaurant—Alice Building, Hornby Road, Fort.
Jameon Guest House (Lodging & Boarding)—Rafiya Manzil, 14 Wodehouse Road, Adj. YMCA, Fort, Bombay 1. Phone: 35504. Grams: "JAMEQUEST."
Juhu Country Hotel—Juhu, near Santa Cruz.
Juhu Hotel & Restaurant—Via Santa Cruz, Juhu, Bombay 23.
Kamling Chinese Restaurant—"Nagin Mahal", Churchgate Reclamation.
Kashmir Hotel—Dhun Mahal, Dhoobi Talao.
Kerawalla Chamber's Guest House—Strand Road, Bombay 1.
King George VI Restaurant—Noor Mahal, King's Circle, Matunga.
Kwality Restaurant & Ice Cream Company—Causeway, Colaba, Bombay 1.
Lawrence Hotel—Ashokumar House, Rampart Row, Bombay 1.
Lentini Court Hotel—Strand Road, Apollo Bunder, Bombay 1.
Leopold Cafe & Stores—No. 6, Colaba Causeway, Apollo Bunder.
Lessons Boarding House—Soona Mahal, Marine Drive, Bombay 1.
London Hotel—323, Grant Road, Bombay 7.
Mackinnon Mackenzie & Co. Ltd.—Ballard Road, Ballard Estate, Bombay 1.
Madhavashram—18, Parekh Street, Girgaum, Bombay 4.
Majestic Hotel—Esplanade, Museum.
Mama Kane's Swatchha Upahar Griha—Dadar B.B., Bombay 28.
Mello's Hotel—Nicol Road, Ballard Estate.
METROPOLE HOTEL—Lodging & Boarding, 16, Palton Road, Crawford Market, New Citizen Bank Bldg., Bombay 1. Grams: "MYHOTEL." Phone: 28206.
Modern Hindu Hotel—12, Wallace Street, Fort.
Mongin's Restaurant—Churchgate Street.
Morenas & Co.—60, Mahatma Gandhi Road, 22, Meadows Street, Fort.
National Hindu Hotel—Frere Road, opp. Tram Junction, Fort.
New Coronation Durbar Hotel—Near Novelty Cinema, Grant Road, Tram Terminus.
New Empire Restaurant, Stores & Bakery—134, Hornby Road.
New Empire Stores & Restaurant—Rustom Mahal, Tram Terminus, Dadar.
New Welcome Hindu Restaurant—Meadows House, Tamarind Lane, Fort.
New World Chinese Restaurant—Gulistan, opp. Metro Cinema, Dhoobi Talao.
Nrisinha Hindu Lodge—177-179, Hornby Road, Fort.
Orient Hotel—Orient Hotel Building, Crawford Market.
Outram Private Hotel—Menkwa Building, Outram Road, Fort.
Parisian Dairy Company—Soona Mahal, Marine Drive, Bombay 1.
Picnic Cottages Restaurant—Versova, near Andheri.

Purohit Hotel.—Parekh Mahal, Churchgate Street.
Purohit Restaurant & Stores.—Krishna Building, Fort Street, Fort.
Pyke's Apollo Hotel.—Lansdowne Road, Apollo Bunder.
Railway Hotel.—Charni Road.
Regent Hotel.—Ballard Pier.
Rita Hotel and Restaurant.—Churchgate Reclamation, near Eros Cinema, Bombay.

ROYAL GUEST HOUSE (LODGING & BOARDING).—Lady Hardinge Road, opp. Rivoli Cinema, Mahim, Bombay 16. Phone: 62666. Grams: "ROYALGUEST."

Royal Hotel.—Hasam Chambers, Parsi Bazar Street, Fort.
Santacruz Airport Restaurant.—Santacruz, Bombay 29.
Sardar Griha (Private) Ltd.—Carnac Road, Bombay 2.
Savoy Hotel & Restaurant.—Lamington Road, next to Bombay Central.

SEA FACE HOTEL.—Dar-ul-Habib, 29, Marine Drive, Bombay. Tel.: 36711.

Sea Green Hotel.—Marine Drive, Bombay 1.
Sea Green South (Hotel).—Marine Drive, Bombay 1.
Sea View Chinese Restaurant.—Apollo Bunder, Fort.
Sea View Hotel.—221-225, Frere Road, opp. G.P.O., Fort.
Sea View Restaurant.—Juhu, Santa Cruz.
Ship Hotel.—Opp. General Post Office, 219, Frere Road, Fort.
Shree Krishna Boarding House.—Girgaum Tram Terminus, Bombay 4.

Sidhwa Guest House.—Soona Mahal, Marine Drive, Bombay 1.
Simla and Calcutta Hotel.—Mangalore Street, Fort.
Soona Service Suites.—Soona Mahal, Marine Drive, Bombay 1.
Strand Hotel.—Strand Road, Apollo Bunder, Bombay 1.

TAJ MAHAL HOTEL.—Apollo Bunder. Grams: "IN-HOTELS". Phone: 219101 (10 lines).

Tambe, B., Private Ltd.—Sanggiri Sadan, Girgaon Road, Bombay 4.
Veerkar Ahar Bhavan.—Girgaum Corner, Bombay 4.
Volga Restaurant.—46, Churchgate Street, Bombay 1.
Wayside Inn.—Rampart Row, Fort.
Welcome Hindu Restaurant.—Madows Street, Fort.
Welcome Hotel.—Frere Road, Fort.
West End Hotel.—(Proprietors: West End Hotel Ltd.), 45, New Marine Lines, Bombay.

HOUSE AND ESTATE AGENTS

ADVANI & CO., R. & G.—Estate Agents, Sindhu House, Nana-bhoy Lane, Fort, Opp. Flora Fountain, Bombay 1. Phone: Office: 253229. Works: 42675. Res.: 72233 & 243279. Grams: "SATGURU."

Brijmohan Banwarlal.—61, Reay Road, Mazagaon, Bombay 10.
Dastur & Sons, M. B.—Ismael Building, Hornby Road, Fort.
Estates Valuation & Engineering Co.—20, Old Custom House Road, Fort.

GILBERT LODGE & CO.—"Elphinstone House", Veer Nariman Street, Fort, Bombay. Phones: 251819 and 252607. Grams: "READINESS."

Mayfair Furnishing Co.—Great Western Building, Apollo Street, Fort.
Naraynarao Kulkarni & Co.—20, Hamam Street, Fort.

Rao Sahab Rawji Sojpal & Sons.—322, Shanti Niketan, Vincent Road, Kingway, Matunga.
Royal House Agency.—Rehman Building, Churchgate Street, Fort.

HUMIDIFICATION—VENTILATION

Asea Electric India, Limited.—Tafti Building, Goa Street, Bombay.
Bakubhai Ambalal Private Ltd.—Sahibaug Bldg., Wittet Road, Ballard Estate, Bombay.

INDUSTRIAL AIR CONTROL (INDIA) PRIVATE LTD.—Karimjee House, 2nd Floor, 59, Sir Phirozshah Mehta Road, Fort, Bombay. Phone: 262474. Grams: "COOLAIR." Specialists in all air Handling Equipments, Textile Dust and Fume Removal and Oil Spraying.

ICE FACTORIES

AMBICO ICE WORKS COLD STORAGE & REFRIGERATION.—H.O.: 35-C, Jorajbhoy Street, Bombay 6. Phone: 71692. Factory: 10-12, Cochin Street, Ballard Estate, Bombay 1. Phone: 263306.

Bakhtawar Ice Factory.—Kumbharwada, Dadar.
Bombay Ammonia Refg. Stores & Packing Co.—Basargate Street, Fort.

Bombay Crystal Ice Works.—179, Motilala Lane, Mazagaon.
Central Ice & Cold Storage Co.—Saboo Sidick Road, Crawford Market, Bombay.

City Ice Supplying & Cold Storage Ltd.—298, Basargate Street, Fort.
Dhunjibhoy's Ice Factory.—Mount Road, Mazagaon.

HOMILA ICE WORKS, COLD STORAGE AND REFRIGERATION.—Manufacturers of Pure and Colourless Ice. 33-C, Jorajbhoy Street, Near Municipal Workshop, Foras Road, Bombay 6 (India). Phone No. 71692.
Siddley Ice Factory.—505A, Arthur Road, Tardeo.
Sitaram Industries.—Byculla Bridge, Hanaraj Lane, Byculla.
Spa's Mineral & Ice Factory.—Lamington Road (North), off Jacob Circle.

SUNAWALLA ICE FACTORY (Estd. 1916).—Jorajbhoy Street, Next to Municipal Workshop, Byculla, Bombay 6. Phone: 71692. Factory: 188, Lamington Road, Bombay 7. Cold storage & Refrigeration.

IMPORT AND EXPORT FIRMS (GENERAL)

A. G. BATLIWALA & CO.—87, Morland Road, P.O. Box 4567, Bombay 6. Dealers in and Exporters of Empty Bottles & Bakelite Caps.

Abdool Hossain Jivjee & Co.—241, Nagdevi Street, Bombay 3.
Abdoola Jossab Calcuttawalla & Co.—137-41, Samuel Street, Bombay 9.

Abdul Karim & Co.—Mohomed Mansil, 59-59A, Memonwada Road.

ABDULKARIM, M. H.—272, Abdul Rehman Street, Bombay 3.

Phone No.: 29266. Grams: "TAUFIQ."

Abdul Razak & Co.—Opp. Juma Masjid, Takiawadi, Kuria.

Abdulkhadar Shamsuddin & Co.—48, Khoka Bazar, Bombay 3.

A. A. Baker & Co.—89, Bhajipala Street, Bombay 3.

Adamally Sons Ltd.—277, Nagdevi Street, Bombay 3.

Advani & Co., G. V.—Prospect Chambers, Hornby Road, Fort, Bombay.

Advani, J. B., & Co., Ltd.—Advani Chambers, Sir Phirozshah Mehta Road.

Ahoora Trading Co.—22D, Parsi Bazar Street, Fort, Bombay.

Ahuja, C. M., & Co.—People's Building, Sir Phirozshah Mehta Road, Fort.

Akbarally Kbrahmil.—38'C, Cowasji Patel Street, Fort, Bombay.

Grams: "Tussibar."

Akbarally Mohamedally & Co.—316, Abdul Rehman Street, Bombay 3.

Alfa Sports.—Metro House, Bombay 1. Phone: 27549. Grams: "ALFASPORTS."

Alfred Herbert (India), Ltd.—Kaiser-I-Hind Buildings, Ballard Estate.

Alliance Stores & Trading Co.—Princess Street, Bombay 2.

Allied Exporters.—Kumud House, opp. Lloyds Bank, 267, Dr. Dadabhai Naoroji Road (Hornby Road), Fort, Bombay.

All India Trading Corporation.—25, Bank Street, Fort.

Almeida J. C.—National Insurance Building 1st Floor, 27, Bastion Road, Fort, Bombay. Phone: 263708. Grams: "GROTTO".

Amin Importers.—7-10, Elphinstone Circle, Fort.

Amin & Sons.—180-82, Samuel Street, Vadgadi.

Amrut Trading Co.—44, Kumar Vilas, Mangalwadi, Girgaum.

Anand Trading Co.—234, Masjid Bunder Road, Bombay 3.

Anil Brothers.—44/46, Dhanji Street, Bombay 3.

Anil Kumar & Co., Ltd.—121-123, Princess Street, Bombay 2.

Arthur Import Export Co.—166, Hornby Road, Fort, Bombay.

Phone: 33076. Grams: "FABYARN."

ARVINDA TRADING CO. PRIVATE LTD.—Importers and Manufacturers' Agents, 105, Apollo Street, Fort, Bombay.

Grams: "RADIANT." Phone: 251013. Managing Director, R. P. Patel.

Ashok Brothers.—327, Dr. Dadabhai Naoroji Road, Bombay.

ASHOK OVERSEAS TRADING CO. PRIVATE LTD.—543, Kalbadevi Road, P.O. Box 2501, Bombay 2. Phone: 30924.

Importers of Umbrellas & Accessories, Cycles Accessories, Electrical Accessories, Cotton Piece Goods and Sundries.

Asian Trading Corporation.—1-A, Nazir Building, Calicut Street, Bombay 1. Phone: 262575.

Asiatic Mill Stores Trading Co.—89, Princess Street, Bombay 2.

Askay & Co., Ltd.—Great Social Building, Sir Phirozshah Mehta Road, Fort, Bombay.

Asok Bros., Ltd.—Mubarak Mansil, 104, Apollo Street, Fort.

B. BABURAO & CO.—38, Haji Ismael Gani Building, Byculla Rly. Station Compound (East), Bombay 27. Government Contractors, Suppliers & Agents for Vegetables, Fruits, Fish, Meat & Provisions etc. Cable: "MONEYPLANT", Bombay.

Badat Ltd.—105, Sir Vithaldas Chambers, 16, Apollo Street, Fort.

Bakshi Ram & Co.—129, Modi Street, Fort.

Balmer Lawrie & Co. Ltd.—5, Graham Road, Ballard Estate, Fort.

Bardiya, W. K., & Company.—155, Modi Street, Fort.

Batilbol, C. J., & Co.—319, Hornby Road, Fort.

Batilbol & Co.—Engineers and Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No. 30006-9 (4 lines). Grams: "BATLIBOICO". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Colmbatore, and Vijayvada. Associates: Bangalore and Secunderabad.

BATLIWALLA & CO.—Mherwan Building, Sir Phiroozshah Mehta Road, Fort. Importers, Exporters and General Merchants. Partners: R. B. Batliwalla; M. S. Batliwalla; F. B. Batliwalla. Phone: 253667. Residence: Phone No. 69249.

Beardsell, W. A., & Co., Ltd.—15-16, Sir Phiroozshah Mehta Road, Fort.

Bekraj Gupta & Co.—207, Kalbadevi Road, Bombay 2.

Bhagwandas Chattrabhuji.—20, Hamam Street, Fort.

Bhagwandas Devahi, Ltd.—87, Princess Street.

Bhagwandas Sant Parkash.—50, Nakhuda Street, Bombay 3.

Bhaldas Curoondas & Co.—Sir Vithaldas Chambers, 16, Apollo Street, Fort.

Bhandari Brothers Ltd.—Dadyseth House, 44, Cawasji Patel Street, Fort.

Bhanji Lavji Forbandar Ghee Supply Agency.—Shroff Mansion, 258, Kalbadevi Road.

Bhanoo Trading Co.—29, Imperial Chambers, Wilson Road, Ballard Estate. Phone No. 30101. Grams: "SANGHANI." General Importers, interested in Woollen, Cotton, Art Silk, Silk, Piecegoods, Fents and Rennants, Hardware Tools, Electric Appliances, Measuring Instruments, Incandescent Lights and Parts and Paper Stationery, Fountainpens and Parts.

Bhanusali Brothers Ltd.—Bhanusali Chambers, 168, Argyle Road, Bombay 9.

Bharat Industrial Co.—77-70, Nagdevi Cross Lane, Bombay 3.

BEARATI TRADING CO.—90-92, Kazi Sayed Street, Bombay 3. Phone: 30461. Grams: "KARODPATI."

Bhargava & Co., K. L.—94, Meadows Street, Fort.

Bheroomal Ghanoomall.—42, Dhanukar Building, Kalbadevi Road.

Bhuknawala & Sons.—Meadows House, Meadows Street, Fort.

Birla Bros., Ltd.—Imperial Bank Annexe, Bank Street, Fort.

Bock, F. & Co.—Shale Building, Bank Street, Bombay 1.

Bombay Importing Agency.—75-77, Sarang Street, Bombay 3.

Bombay Machine Store Co., The.—Laxmi Building, 43, Nagdevi Cross Lane, Bombay 3.

Brady, W. H., & Co., Ltd.—Royal Insurance Buildings, Churchgate Street, Fort.

Brigg Bros. & Co.—Podar Chambers, Parsee Bazar Street.

Briljal, H. R., & Co.—Beaumont Chambers, 27-33, Meadows Street, Fort.

Bulchand Co., L.—Moos Building, 510, Kalbadevi Road, Bombay 2.

Burrows, & Co., W. J.—Khatau Building, 40-44, Old Custom House Road, Fort.

Byramji, T. & Co.—Central Bank Building, Mahatma Gandhi Road, Fort.

Calico General Export Co.—12, Rampart Row, Fort.

Cambata Industries Private Ltd.—Cambata Building, 42, Queen's Road, Bombay 1.

Capital Colour & Chemical Co.—77-87, Mirchi Street, Vadgadi, Bombay 3.

Cawasji Behramji & Co.—City Ice Building, 298, Basargate Street, Fort.

Central Syndicate Ltd.—16/18, Custom House Road, Fort.

Chhaganlal (India) Imports.—Carnac Bunder, Bombay 9. Grams: "CONTRACTS."

Champaklal Morarji & Co.—193, Samuel Street, Vadgadi, Bombay 9.

Chavannes & Co., Private Ltd.—Menkwa Building, 10, Outram Road.

Chimanlal & Co.—38/42, Shamsett Street, Bombay.

Telephone: 23885

Cable: "DETECTO"

CHIMANLAL SHAH & CO.

(In this Trade since 1930)

3-D, Mangaldas Road, Mangaldas Market,
Bombay-2.

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EXPORTERS & IMPORTERS

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Chemicals, Pharmaceuticals, Drugs, Electrical Goods, Cycle & Cycle Accessories, Automobile Parts, Hardware, Watches & Parts thereof, Bolts & Nuts, Paper, Gum.

Agents for:

HINDUSTAN SYRINGES
ROHTAS INDUSTRIES LTD.

Dalmia Nagar

Chimanlal Vadilal & Co.—80, Abdul Rehman Street.

Chinoobhai & Bros., Ltd.—Churchgate House, Churchgate Street.

Chokhani Brothers.—59, Forbes Street, Fort.

Chotirmall & Co., K. A. J.—501, Kalbadevi Road, Bombay 2.

CHUNILAL PRABHUDAS & CO. (BOMBAY) PRIVATE LTD.—211-212, Himalaya House, 2nd Floor, Hornby Road, Fort, Bombay. Phone: 26-2720. Grams: "HEMANICO." Importers & Manufacturers' Representatives. Specialists in Iron & Steel, Non-ferrous Metals, Celluloid Sheets & Plastics & Chemicals.

Clarke & Smith (India), Ltd.—Esmail Building, Hornby Road, Fort.

Clubwalla & Co.—37-39, Hammam Street.

Collinson & Co., Ltd.—Standard Building, Hornby Road, Fort.

CONSOLIDATED TRADING CORPORATION.—Advani Chambers, Sir Phiroozshah Mehta Road, Bombay. Phones: 263053, 264259 and 265084. Grams: "ONTRAC." Exporters of Cotton, Woollen, Rayon Textiles, Readymade garments and general order suppliers to Middle East Countries and Governments.

Continental Export & Import Co.—Mehta Building, 47, Meadows Street, Fort.

Cooper & Co.—53, Abdul Rehman Street.

Corn Products Co. (India), Ltd.—Shrinivas House, Waudby Road, Fort.

Cotton Agents Ltd.—Imperial Bank Annexe, Bank Street, Fort.

Crystal & Co., J.—111, Mahatma Gandhi Road, Fort.

Curmally Jan Mahomed.—160-162, Samuel Street, Bombay 9.

Dadajee Dhackjee & Co., Ltd.—Shree Pant Bhuvan, Sandhurst Bridge.

Dailchi Bussan Kalsha Ltd.—4th Floor, Navsari Chambers, Outram Road, Fort, Bombay. Phones: 261667 and 262148. Grams: "DAITIBUSAN".

Dall B. Shroff & Co.—361, Dr. Dadabhai Naoraji Road, Fort. Phone: 21465.

DANN-DECKER COMPANY.—32, People's Building, Sir Phiroozshah Mehta Road, Fort, Bombay. Phone: 262886. Cable: "DANDEKERCO", Bombay.

Daruwalla, M. N., & Co.—30, Apollo Street, Fort.

Das & Co.—59, Apollo Street, Fort.

Dave, J. M., & Co.—Kanta Terrace, Silk Bazar, 529, Kalbadevi Road, Bombay 2.

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DEVIDAS VIRCHAND.—22-26, Darlasthan Street. Grams: "EVERGUM", Bombay 3. Importers & Exporters. Dealers in all sorts of Gums, Spices, Textile & Wool.

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Dossa Ltd., G.—Jan Mansion, Sir Phiroozshah Mehta Road, Fort.

D. Manilal & Co.—Harischandra Nivas, 419-A, Kalbadevi Road, Bombay 2.

Drennan & Co.—Allahabad Bank Building, Fort, Bombay.

Dubash Freres & Co.—Victoria Building, Parsee Bazar Street, Fort.

DUNGARSHI JADAVJI & CO.

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Excel Importers.—89, Princess Street, Bombay 2.

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Ex-Import Trading Co.—Queen's Mansion, Bastion Road, Fort.

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Gangaram & Co.—313, 3rd Floor, Himalaya House, Paltan Road, Bombay 1.

G. Arjan (India) Co.—108, Himalaya House, Paltan Road, Bombay 1.
Gannon, Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.

Gaytee and Company.—Janmabhoomi Chambers, Fort Street, Fort. Grams: "IMPENG." Phone: 32449.

Gots Bros. & Co.—Western India House, Sir Phiroozshah Mehta Road, Fort, Bombay.

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Gin Store Co., The.—76, Nagdevi Cross Lane, Bombay 3.

Girdharilal & Co.—48, Podar Chambers, Parsi Bazar Street, Fort. G.P.O. Box 826.

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HIRA, P. H. & CO.—18-20, Princess Street, Bombay 2. Perfumers, Stationers, Cutlery, Chemists & Druggists; Toilet articles. Phone: 25489. Grams: "PERFUMES." Branches: Calcutta, Madras & Delhi. Exporters of "PIK" Sanitary tampons. Enquiries invited for Export.

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Honey Day.—Alice Buildings, Hornby Road, Fort.

HOOSEIN, M. A., & BROS.—Lakshmi Building, Sir Phiroozshah Mehta Road, Fort. Tele.: 26-2166/67.

Hotchand Jawharmal.—3rd Floor, Round Building, Kalbadevi Road, Bombay 2.

Hukamchand Chanderbhan.—1st Floor, Hira Building, opp. Crawford Market, Carnac Road.

Husein Abdulkarim Panju.—Panju House, 138-40, Samuel Street, Khoja Mohalla, Bombay 9.

Husein Ebrahim.—75, Mahomedally Road, Bombay 3.

Husein Latjee Dewraj.—Jamal Building, 213, Nagdevi, Bombay 3.

Husein Mussa Virjee & Co.—Sheriff Hasam Building, Khoja Mohalla, Bombay 9.

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Indo Europa Trading Co.—7, Dalal Street, Fort.

Indo-Overseas Representatives.—73, Bombay Mutual Bldg., Fort.

Indo-Universal Export Syndicate.—Bank Bldg., 26-A, Sir Phiroozshah Mehta Road, Bombay 1. Phone: 264385. Grams: "UNI-EXPORT". Exporters of Seeds, Spices, Oils, General Produce-Commodities including Iron Scrap.

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International United Trading Corporation.—80-90, Lohar Street, Bombay 2.

Italinila Cotton Ltd. (Estl. 1922).—Indian Globe Chambers, Fort Street, Fort, Bombay.

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Jashwantlal Manecklal & Co.—40, Vir Nariman Street, Fort.

Jasawala & Co., R. M.—105, Apollo House, Apollo Street, Fort.

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Joshi Jivandas Gangaram & Co.—282, Narsi Natha Street, Bombay. Estd. 1923.

J. S. Elizer.—6, Moti Mahal, Churchgate Reclamation. Phone: 21138.

K. A. Singh & Co.—Minthi Mansion, Sitladevi Road, Mahim, Bombay 16.

K. J. CORPORATION.—78, Ali Chambers, Tamarind Lane, Bombay 1. Phone: 254261. Grams: "KEJECORP."

Kanji Morarji.—285-87, Narsi Natha Street, Bombay 9.

Kamat & Co. (Bombay).—134, Meadows Street, Fort.

KANTILAL SANGHVI & CO.—Mherwan Building, Sir Phirozshah Mehta Road, Fort. Phones: 253041. Residence: 25185. Grams: "KXPIM."

Kapadia & Co.—Bell Building, Sir Phirozshah Mehta Road, Bombay.

KAPADIA TRADING CO.—56, Botawalla Building, New Silk Bazar, Kalbadevi Road, Bombay 2. Phone: 29616. Grams: "EMBRROIDERY." Exports, Imports, Manufacturers' Representatives, Textiles, Chemicals, Non-ferrous Metals and Steel.

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Karimjee Trading Co., Ltd.—Rahimtools House, 7, Homji Street, Fort.

Kashandas Private Limited.—43, Tamarind Lane, Fort, Bombay.
Kavarana, E. F., & Co.—Botawalla Building, Bomanji Master Road, Bombay 2.

Kavarana, Muncherji Heerjibhoj.—New Silk Bazar, opp. Kalbadevi P.O., Kalbadevi.

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Khanra & Hari Raj.—166, Hornby Road, Fort.

KHARRAS BROS.—14, Hamam Street, Fort. Importers & Exporters of Piece-goods. Grams: "KHAYA." Phone: 251605.

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Khatrau Valabhdas & Co.—Indian Globe Chambers, Fort Street, Bombay 1. Tel. Address: "SCARLET."

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Komet Merchandising Corporation.—38, Devkaran Mansion, 43, Princess Street.

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KUSUMGAR (OVERSEAS) PRIVATE LIMITED.—503, Kalbadevi Road, Bombay 2. Phone: 22904. Grams: "KUSUGRUP." Importers, Exporters and Manufacturers' Representatives.

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Laljee Devraj & Co.—168/70, Sheriff Dewji Street, Bombay 3.

Lalji Dayal.—Near Gopal Lane, Mulji Jetha Market, Bombay 2.

Lalubhai Gulabchand Jhaveri.—149, Shroff Bazar.

Leories Trading Co.—23, Hamam Street, Fort, Bombay.

Liladhar P. Shah & Co.—335, Samuel Street, Vadgadi, Bombay 3.

Loeffler & Co., E.—Noble Chambers, Parsi Bazar Street. Phone No. 21648. Grams: "VINCO."

Loucatos, G., & Co.—Menkwa Building, Outram Road, Fort.

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M. B. Varma & Sons.—60, Lakshmi Bldg., Sir P. Mehta Road, Bombay 1.

Macropolo, D., & Co., Ltd.—Kermani Building, Hornby Road, Fort.

MAESON & CO. (INDIA) PRIVATE LTD.—Importers, Exporters & Manufacturers' Representatives, 21, Noble Chambers, Parsi Bazar Street, Bombay 1. Phone: 254476.

Madan Mohan Jain & Sons.—215-17, Kalbadevi Road.

Madhav Agency.—Mohan Building, Girgaum Road.

MADHAVJI VINHRAM & SONS.—84, Kazi Sayed Street, Khand Bazar, Bombay 3. Phone: 27672. Grams: "MADHAVSONS." Importers, Exporters & General Merchants.

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Mahomedally Hebatbhoy & Co.—15, Mirza Street, Parsi Gully.

Maneklal & Co.—166, Hornby Road, Fort, Bombay.

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McKenzie Ltd.—Sewri.

Mehra (India) Ltd.—Jan Mansion, Sir Phirozshah Mehta Road, Fort.

Mehta & Co., P. N.—Cook's Building, 324, Hornby Road, Fort.

Mehta Brothers.—Hamam House, Hamam Street, Fort.

Mehta Mody & Co.—Devkaran Mansion, No. 5, Mangaldas Road, Bombay 2.

Mehta Ramakrishna & Co., Ltd.—Neptune Building, 166, Hornby Road, Fort.

Menghraj & Sons (India).—Alice Building, 399, Hornby Road.

Merchant Bros.—151, Nagdevi Street.

Mervanji Poonjiajee & Sons.—Prince's Dock, Frere Road.

Mistry, M. H. J.—"Florencea", 17th Road, Khar, Bombay 21.

Modern Traders.—29, Noble Chambers, Parsi Bazar Street, Fort.

Mohanlal Motilal.—4th Floor, Yusuf Building, Mahatma Gandhi Road, Fort.

Moraji Vandrayan & Co.—Krishnaraji Chawk, Mulji Jetha Market, Bombay 2.

Morrison, Son & Jones (India) Ltd., J. L.—Universal Building, Sir Phirozshah Mehta Road, Fort.

Motiram & Co.—79, Himalaya House, Paltan Road, Bombay 1.

Murlihar & Khemchand & Co.—Rehem Mansion, 50, Colaba Causeway, Bombay.

Murugappa & Sons.—3rd Floor, United India Building, Sir Phirozshah Mehta Road.

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Nanjiv. Dossa & Co.—Jan Mansion, Sir Phirozshah Mehta Road, Fort.

Narandas Parmanandas.—272, Vadgadi, Bombay 3.

Narandas Ranchhodas & Co.—93, Nagdevi Cross Lane, Bombay 3.

Narotamdas Chunilal & Co.—51, Tamarind Lane, Fort, Bombay.

Narsee Nagsee & Co.—3, Chinch Bunder, Bombay No. 2.

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NEAR EAST TRADING CO. (INDIA).—32, Apollo Street, Fort. Phone Nos. 254407 & 251752. Grams: "WIDESPREAD."

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Cable : "LILALAHAR"

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Ramani Co. Textiles,
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N. P. Patravali & Co.—Fort Chambers, Hamam Street, Fort.

N. Thakordas & Co.—Lentin Chambers, Dalal Street, Fort.

Orient Corporation Ltd.—Bombay Mutual Annexe, Gunbow Street, Fort.

Overseas Trade & Agencies (India).—Beaumont Chambers, Meadows Street, Fort, Bombay 2.

P. PRABHULAL & CO., PRIVATE LTD.—Metropolitan Insurance House, Dr. D. N. Road, Bombay 1. Phone : 262264 & 261187. Importers of Rayon Yarn, Staple Fibre, Raw Silk, Cotton yarn Piece-goods, Cotton, Woollen, Rayon and Silk Paper, Bailing Hoopes, Leather Cloth, Cutlery, etc. Exporters of Cotton yarns, Cotton, Silk and Rayon Piece-goods, Staple Fibre, Yarn, Silk, Woollen, Paper, Cement.

Pannalal Ramdayal Chindak.—153, Princess Street, Bombay 2.

Paramount (India) Ltd.—Kermani Building, Sir Phiroozshah Mehta Road, Fort, Bombay.

Parekh Trading Corporation.—10, Dubash Chambers, Kumpita Street, Ballard Estate, Bombay 1.

Parmanand Maneklal & Co.—Maskati Mahal, Lohar Chawl, Bombay 2.

Partab Singh Jagatsing & Sons.—People's Building, Sir Phiroozshah Mehta Road, Fort.

Patel, M. K. & Co.—Wakefield House, 16, Sprott Road, Ballard Estate, Fort.

Pavri Sons & Co.—88-87, Bazargate Street, Fort.

P. D. SHETE & CO.—46, Old Hanuman Lane, Bombay 2. Exporters, Importers, General Merchants, Commission Agents & Manufacturers' Representatives. Indian Minerals and Textiles. Cable : "GODDESS," Bombay.

Peerbhoy & Sons, E.—Prop. : 64, Mohamedali Road, Bombay 3.

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P. L. Bhatt & Co.—5, Bharat House, 104, Apollo Street, Fort, Bombay. Phone : 84454. Cable : "DIGNIFIED." All categories of Iron and Steel Products.

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Popatlal Girdharilal & Co.—49, Apollo Street, Fort.

Popular (Imp.-Exp.) Trading Co.—Javeri House, 110, Meadows Street, Bombay 1. Phone : 38000. Grams : "MAXSPIN".

Prabhulal N. Anandwala.—43, Tamarind Lane, Fort.

Prashant Trading Co.—352/54, Samuel Street, Bombay 3.

Prem Brothers.—Kitab Mahal, 192, Hornby Road, Fort.

PREMIER TRADING CORPORATION.—46, Veer Nariman Road, Bombay 1. Phone : 255084 (4 lines). Grams : "NACHIKETA."

Premji Haridas & Co.—Bhanuabai Building, 168, Argyle Road, Bombay 9.

P. B. Patel & Co. Ltd.—Mherwan Building, Sir Phiroozshah Mehta Road, Fort.

Purnhottamdas, A. H.—36, Lentin Chambers, Dalal Street, Fort.

Purnhottamdas Popatlal & Co.—Currimbhoy House, Outram Road, Fort.

Pyarally Gulamhusen & Co.—106, Tantanpura Street, Khoja Moholla, Bombay 9.

Rahimtoola Dhunji & Co.—93, Tantanpura Street, Khadak, Bombay 9.

Raichand Brothers (India) Ltd.—11-B, Noble Chambers, Ghoga Street, Fort.

Rajal Corporation.—30, Rampart Row, Fort.

Rajgor, S. M., & Co.—Hanuman Building, Tambakanta, Pydbownale, Bombay 3.

Ralli Bros., Ltd.—21, Ravelin Street, Fort.

Ramjee Samjee Virani (India) Ltd.—185, Basargate Street, Fort.

Ramchand Ambiram.—Above Govind Chowk, M. J. Market, Bombay 2.

Ramkisanadas Sagarmal.—345, Kalbadevi Road, Bombay 2.

Rastwalia, M. M. A., & Co.—Kocsebhai Building, 17, Janjlikar Street, Koliwada.

Ratilal Dayabhai Shah.—Tambakanta, Pydbownale, Bombay.

Readymoney Ltd., C. R. H.—107, Mahatma Gandhi Road, Fort.

Reliance Trading Co.—25/47, Lohar Street, Bombay 2.

Rowe & Rowe.—Above Eastern Bank, 381, Hornby Road, Fort, Post Box No. 622, Bombay.

Ruby Trading Co.—Sambava Chambers, Sir Phiroozshah Mehta Road, Fort.

Rupani & Co.—Lentin Chambers, Dalal Street, Fort.

Sanghani & Co.—178-180, Abdul Rehman Street.

Sanghavi & Sons.—Sanghavi Chambers, 27, Ghoga Street, Fort, Bombay.

Santhanam & Co.—Exporters, Importers & Commission Agents, Sri Ram Building, 2nd Floor, 195, Dr. Cowasji Hormusji Street, Bombay 2.

Sarabhai & Co.—Western India House, Sir Phiroozshah Mehta Road, Fort.

Satya Prakash Dyes & Chemicals Ltd.—Hornby Building, 174, Hornby Road, Fort.

Sepulchre Brothers (India) Ltd.—Taj Building, 210, Hornby Road.

Sethisons Ltd.—12, Rampart Row, Fort.

Sewaram Girdharilal.—384, Kalbadevi Road, Bombay 2.

SEAH & COMPANY.—108, New Citizen Bank House, Palton Road, Bombay 1. Phone : 261613. Grams : "SEAHFAPER."

Importers of old newspapers, betelnuts, stationery, cutlery, Cycles, Cycle spare parts, Spices, Dry fruits, Colours and Chemicals. Exporters of Cotton Textiles, Silk Fabrics, Hosiery and rubber goods, Plastic and Leather Footwear, Glass and Plastic Bangles, Novelties, Toys, Oils and Oil-seeds, etc.

Shah, C. J. & Co.—Churchgate House, Vir Nariman Street.

Shah Narotamdas Harjivandas Co. (Estd. 1890).—480, Kalbadevi Road, Bombay 2.

Shah Sheth & Co.—Importers and Exporters, 264, Samuel Street, Bombay 3.

Shah Trading Agencies.—19, Hamam Street, Fort, Bombay 1.

Shaikh & Co.—94, Ali Umar Street, Bombay 3.

Shalebhoy Tyebjee & Sons.—12, Bruce Street, Bombay 1.

Shamsun & Co.—11, Bruce Street, Fort.

Shantilal & Co.—195-97, Abdul Rehman Street, Bombay 3.

Shapurji & Co., B. K.—319, Hornby Road, P. B. 1065, Fort.

Shard Brothers.—Nehru Road, Bombay 24.

Shenali Nanjee.—178, Samuel Street, Vadgadi, Bombay 9.

Shree Navilvan Nagdi & Co.—110, Zaveri Bazar, Bombay 2.

Shri Laxmi Cloth Trading Co.—136, Zaveri Bazar, Bombay 2.

Sigman & Co.—302, Himalaya House, Palton Road, Bombay 1.

Sindhi Clearing Agency.—384, Dabholkar Wadi, Kalbadevi, Bombay 2.

Sir Kasturchand Ltd.—Kodak House, Hornby Road, Fort, Bombay.

Sivramkrishnan, M.—Hasi Manzil, 82-86, Abdul Rehman Street, Bombay 3.

S. MEHTA & CO.—Knees Chambers, Carnac Road, Bombay 1. Phone : 26-3001. Grams : "Duty Bound". Wire Netting and Perforated Metals & Stainless Steel Wire Nettings and Metal Wire Nettings. Importers, Exporters and Merchants.

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Steel Brothers & Co. Ltd.—Allahabad Bank Building, Apollo Street,
Fort.

Subodh Indent Agency.—44, Kumar Villas, Mangalwadi, Girgaum,
Bombay 4.

SUDAN TRADING CO.—"Dhan-Nur", Sir Phirozshah Mehta
Road, Bombay 1. Phones.—Office : 262788 ; Resid. : 62069.
Grams : "VANSOBHA". Importers of Liquid Paraffin,
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Tubes, Cycles, Ivory. Exporters of Cotton Piecegoods, Art
Silk, Tea, Aluminium, Essential Oil, Kirana, Matches.

Suppliers & Trading (India) Ltd.—79, Meadows Street, Fort.
Suren, W. T., & Co.—United India Building, Sir Phirozshah Mehta
Road.

Techno Industrial Co.—107, Sir Vithaldas Chambers, 16, Apollo
Street, Fort.

Techno-Industrial Syndicate.—19/B, Noble Chambers, Parsi Bazar
Street, Fort.

Tajbhandas & Co.—65, Princess Street, Bombay 2.

Textile Industrial Trading Agency.—Western India House, Sir
Phirozshah Mehta Road, Fort.

Thakker Sonderjee Nanjee & Sons (India) Ltd.—146, Kalbadevi
Road, Bombay 2.

Thakore, T. M., & Co.—Readymoney Mansion, 43, Vir Nariman
Street, Fort.

Traders' Link.—17, Ismail Building, 381, Hornby Road, Fort.

Trading Co., Late Hegt & Co., Ltd.—Indu House, Douglas Road,
Ballard Estate.

**TRANS-UNION COMMERCIAL CORPORATION PRIVATE
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Naoroji Road, Fort, Bombay. Grams : "TRANSMETER."
Phone : 251610.

T. R. Datta & Co.—102, Bhandari Street (Chuckla), Bombay 3.

TRINITY INDUSTRIAL CORPORATION.—Khandelwal
Bhavan, 166, (Hornby Road) Dr. Dadabhai Naoroji Road,
Fort, Bombay 1. Phone : 261150. Grams : "FIVISIWELD".

T. Salehbbay & Co.—54, Sarang Street, Bombay 3.

Trivedi & Co.—Navari Chambers, Hornby Road, Fort.

Trivedi, R., & Co.—28, Lal Singh Building, Lohar Chawl,
Unita Corporation.—37, Yusuf Building, Mahatma Gandhi Road,
Fort, Bombay.

United Commercial Co.—72-80, Nagdevi Cross Lane, Bombay 3.

United India Trading & Manufacturing Co., Ltd.—Shale Building,
Bank Street, Fort.

Universal Trading Co.—(Established 1947). 346, Kalbadevi Road,
Bombay 2.

Uttoomal & Assudamal Co.—Bombay Mutual Annexe, Gunbow Street,
Fort.

Vadlal Vrajlal & Co.—Peerbhoy Building No. 2, Princess Street.

Vallram Sons.—Patel Building, Bomanji Master Road, Kalbadevi.

Varjiwandas Hirjee & Co.—240, Samuel Street, Vadgadi.

Vasantlal Vadlal & Co.—215-17, Samuel Street, Vadgadi.

VASANTRAI GOVERDHANDAS & BROS.—75, Mohamedali
Road, Bombay 3. Phones : 29900 & 28209. Grams : "VIGI-
BROS."

Vasi Bros. & Co.—Topiwala Mansion, Mahomedali Road, Bombay 3.

VASWANI (INDIA) PRIVATE LTD.—Proprietors of Pehecmull
Brothers (India). 496, Kalbadevi Road, Bombay 2. Phone :
38062/3. Grams : "VASWATRAD."

Vikram Padamsey & Co.—Rustom Building, Vir Nariman Street,
Fort.

Virchand Panachand & Co.—272, Narsi Natha Street, Bhat Bazar,
Bombay 9.

Vishram Bhagwandas & Co.—31, Sutar Chawl, Bombay 2.

Vishram Khimji & Sons.—57-59, Kazi Sayed Street, Mandvi,
Bombay 3.

Vithaldas & Co.—75, Khand Bazar, Bombay 3.

Volkart Bros.—19, Graham Road, Ballard Estate, Bombay.

Waghji Lakhmidas & Co.—206, Samuel Street, Vadgadi.

Wakefield, C. C., & Co., Ltd.—91, Walkeshwar Road, Bombay 6.

Wallace, P. E., & Sons, Ltd.—"Elphinstone Building," 10, Church-
gate Street, Fort.

Waltham Trading Corporation Ltd.—12, Nanabhai Lane, Fort,
Bombay.

Watanmal Boolchand.—P.O. Box 2233, 534, Kalbadevi Road,
Bombay 2.

Western India Hardware Mart.—16, Narayan Dhuru Cross Lane,
Bombay 3.

Western Link Co.—Importers, Exporters & Indenting Agents, 19,
Bank Street, Fort.

WINDMERE (INDIA) PRIVATE LTD.—Importers, Exporters
of Indian Produce, Cotton Piecegoods and Yarn and Com-
mission Agents, 110, Sir Vithaldas Chambers, 16, Apollo
Street, Fort, Bombay. Grams : "WINDMERE." Phone:
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INCANDESCENT LAMPS AND GAS MANTLES MANUFACTURERS

ANGLO ORIENTAL LIGHT CO.—Peerbhay Bldg., 89, Princess Street, Bombay 2. Phone: 29120. Grams: "ANGLO-LIGHT". Manufacturers and Importers of Petromax, Lanterns, Heating Apparatus, Gas Mantles.

ASIAN PRODUCTS.—70, Dhanji Street, Bombay 3. Grams: "KLINPRO". Manufacturers of best quality Stoves, Lanterns, Blow Lamps Mantles and their spare parts.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort. Bombay Novelty Stores.—74, Lohar Chawl, Bombay 2.

BOMBAY STOVE & HARDWARE DEPOT.—T.G. Shah Building, Pydhonie, Bombay 3. Phone: 38546. Grams: "BLUE-FLAME". Importers, Merchants, Manufacturers, Sole Agents for "GOLDMORAR" Stoves, Lanterns, etc. Branch: Vithal Sayani Building, Lohar Chawl, Bombay 2. Phone: 29372.

CHUNILAL KHANNA & CO.—Saraswati Nivas, Thakurdwar Road, Bombay 2. Phone: 23513. Grams: "BABALALU."

EASTERN LIGHTS COMPANY.—78, Lohar Chawl, Bombay 2. Phone: 29977. Grams: "GREATLIGHT". Manufacturers of ELITE brand Gas Mantles, Lanterns, Stoves and their spare parts. Direct Importers and Wholesalers of Torches, Thermos, Stoves, Wick Stoves and Accessories.

ELITE INDUSTRIES.—164, Tulsi Pipe Road, Matunga, Bombay 16. Phone: 60653. Grams: "NIGHTSUN". Manufacturers of "NIGHTSUN," "NELSON," "TOPRANK" & "ELITE" brand high power gas mantles, Petromax & Stove Parts.

Empire Industrial Works.—Warden House, Sir Phirozshah Mehta Road, Fort.

FARRELL FLASHLIGHT CO.—20-22, Nanavati Mansion, Pydhonie, Bombay 3. Phone: 72018; Flashlights, Batteries, Bulbs, Stoves, Petromax, Blow Lamps, Electrical goods, etc. and Regd. Government Suppliers.

H. T. SHAH & CO.—Ahmed Building, Golpitha, Bombay 4. Phone: 41369. Grams: "ACHTISHAH". Direct Importers and Wholesale Dealers in Petromax Gas Lights, Sole Distributors of Swedish make SVEA Cooking Stoves and 'Sievvert' Heating Apparatus, Blow Lamps, Flash Lights, Batteries and Electrical Goods. Manufacturers of Kingston Stoves and Gas Lanterns.

I.C.I. (India) Private Ltd.—P.B. No. 310, Bombay 1. Indo Trading Co.—Jay Nivas, 36, Abdul Rehman Street, Bombay 3.

JAWAHAR & CO.—Post Office Box No. 2568, Bombay 2. Phones—Office: 38911; Factory: 67294. Grams: "KRANTI". Manufacturers of KIRTI Brands.

JECO INDUSTRIES.—297/305, Masjid Bunder Road, Bombay 3. Factory: Chitragnagar, Agra Road, Ghatkoper, Bombay 39. Manufacturers of "Air Mail" Brand Stoves & "Sunbeam" Petromax Lamps and their spare parts.

K. B. MEHTA & BROS.—Lohar Chawl, Shreeji Bhuvan, 2nd Floor, P.O. Box No. 2062, Bombay 2. Phone: 30331. Grams: "BLOWLAMPS". Manufacturers of "SIMILEX" & "KBM" Brand Lamps, Lanterns, Stoves, Blow Lamps and their spare parts. Branch Office: 14/2, Old China Bazar Street, 2nd Floor, Room No. 139-140-141, Post Box No. 2638, Calcutta 1. Phone: 22-5157. Grams: "BLOWLAMPS".

Katrak Hosiery Works.—167, Lamington Road, Bombay 7. Manufacturers of High Power Incandescent Gas Mantles and High Class Hosiery Goods.

L. C. TRADING CO.—62, Lohar Chawl, Bombay 2. Phone: 22594. Grams: "ELCITIKO". Manufacturers of CHAMPION brand Gas Lanterns, Mantles, Stoves and their spare parts. Direct Importers of Torches, Bulbs, Thermos, Petromax Lamps, Stoves, Wick Stoves and Accessories.

LIBERTY PRODUCTS.—Pydhonie, Bombay 3. Cable: "STOVELAMP". Bombay. Manufacturers of Best Quality Stoves, Lanterns, Blow Lamps, Mantles and their all spare parts.

LIGHT HOUSE.—51, Kitchen Garden Lane, Shreeji Bhuvan, Bombay 2. Phone: 30351. Grams: "GREATWALL". Manufacturers of KOTEX Brand Stoves, Lanterns and gas mantles. Agents for "SENIT" Lanterns & "HOGC" Brand Electrical Accessories and "ASIA" Auto & Torch Bulbs.

NEW ROYAL CO., THE.—Sharu Castle, Mohamedally Road, Bombay 3. Factory: 221/D, Corner Grant Road, Bombay 8. Manufacturers of famous Petrodelam Stoves, Lanterns and their spare parts.

PAGODA INDUSTRIES.—Manufacturers of Incandescent Pagoda, Jalwa, Volga, Redlamp, Gas Mantles, etc., South Gokhale Road, Khed Gully, Dadar, Bombay 26.

PARADISE PRODUCTS CO.—Laxmi Woollen Mills Compound, Behind Famous Cine Laboratory, Haines Road, Mahalaxmi, Bombay 11. Phone: 42751. Grams: "PARALAMPS". Manufacturers of 'PARADISE' Brand Stoves, Blow Lamps & Incandescent Lamps.

POCHEE, C. S., & SON (Estd. 1884).—586, Chitra Bazar, Girgaum Road, Bombay 2. Phone: 30415. Grams: "GASMANILES". Government & Railway Suppliers, Manufacturers of Pochee Incandescent Lanterns, Mantles, Regal Stoves & Blow Lamps Accessories and Industrial Heating Appliances.

PRABHAT STOVE AND LAMP PRODUCTS CO. PRIVATE LTD.—Manufacturers of "Prabhat" Brand Gas Mantles, Gas Lanterns, Kerosene Stoves, Blow Lamps and their Accessories. Factories at Prabhat Wadi, Love Lane, Bombay 27 and 222, Bellasis Road, Prabhat Wadi, Bombay 8. Office at Noble Chambers, Parsee Bazar Street, Fort, Bombay. P.O. Box No. 291. Grams: "NIGHTGUARD". Phones - Office: 254394, Factory: 74946 & 70836. Branches at Calcutta, Madras, Delhi, Kanpur, Patna and Indore.

RASIKLAL & COMPANY.—Peerbhay Building, 89, Princess Street, Bombay 2. Grams: "COCKLITE". Sole Agents for COCK Brand Lanterns, Stoves, Mantles, Blow Lamps and parts. Importers & Exporters. Prop.: Rasiklal Khara.

SANDOZ STOVE MFG. CO.—14/18, Bapu Kote Cross Street, Pydhonie, Bombay 3. Manufacturers of "ZAGMAG" Brand Stoves, Lanterns, Blow Lamps, Mantles & Parts.

STAR INCANDESCENT LIGHT CO., THE.—P. B. No. 2069, Shreeji Bhavan, 68, Lohar Chawl, Bombay 2. Manufacturers of VICTOR-Magnet-Star Brand Gas mantles, Stoves and Lanterns.

WESTERN INDIA LIGHT CO.—17, Abdul Rehman Street, Pydhonie, Bombay 3. Phone: 23090. Grams: "LOVE-CALL". Sole Agents in Bombay for Prabhat Stoves, Lanterns, Mantles & Blow Lamp.

INCOME-TAX CONSULTANTS

Alexander & Co. (Established 1928).—Whiteway Laidlaw Building, Hornby Road, Fort.

Hiralal & Co.—14, Hornby Road, Fort, Bombay. Phones—Office: 22565. Res.: 51529.

Kulkarni, U. H., & Co.—Commissariat Building, 231, Hornby Road, Fort.

Pritamdas P. Wadhwaney.—172-74, Hornby Road.

INDUSTRIAL & COMMERCIAL MANAGEMENT & COST CONSULTANTS

Automachines (India) Private Ltd.—111-A, Mahatma Gandhi Road, Bombay 1.

BEACONS PRIVATE LIMITED.—United Bank of India Bldg., Sir Phirozshah Mehta Road, G.P.O. Box No. 1723, Bombay 1.

IBCON PRIVATE LIMITED.—Industrial and Business Consultants, Adelphi House, 119, Queen's Road. Phone: 242082/3. Grams: "IBCO". Branches: 2, Fairlie Place, Calcutta. George Oakes Building, Sri Narasimharaja Circle, Bangalore. 2, Mahatma Gandhi Road, Kanpur. State Bank Building, Baillie Street, Colombo 1. Associate Cos.: Ibccon (Australia) Pty. Ltd., Melbourne & Sydney; Ibccon (Pakistan) Ltd., Karachi; Ibccon de Mexico S.A., Mexico D.F.; International Business Consultants Ltd., Hong Kong; International Business Consultants (G.S.) Ltd., 8, Clarges Street, London, U.K. Albert Raymond & Assoc., Chicago & New York; Barnes Textiles Assoc., Boston & Spartanburg, U.S.A.; Ibccon Argentina, Sociedad Civil, Buenos Aires; Ibccon De Brasil Ltd., a., SAO PAULO.

R. NANABHOY & CO.—Ballard House, 14, Mangalore Street, Fort, Bombay 1. Industrial Management, Cost and Quality Control Consultants, F.C.W.A., F.C.C.S., F.S.A.A., A.S.C.C. (London). Phones: 262571; 42382. Grams: "RANACOST". Partner: R. Nanabhooy (Mehta).

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RADIANT ELECTRIC & MACHINERY CO.—Vithaldas Chambers, Bruce Street, Bombay 1. Phone: 255297. Hand Trucks C.I. & Rubber tyred Wheels, Electric Platform Trucks, Battery Driven Stacers, Chain Blocks, Fork Lift Trucks, Welding Generator Sets, Welding Transformer Sets, Welding accessories.

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 Hornby Road, Fort.
 Kosma Laboratories.—Allahabad Bank Building, Apollo Street, Fort.
 Roberts, McLean & Co., Private Ltd.—Ilaco House, Sir Phirozshah
 Mehta Road, Bombay.

INDUSTRIAL SAFETY & RESPIRATORY EQUIPMENTS

JOSEPH LESLIE & CO.—Safety Engineers, Mfrs. of Industrial
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 Street, Bombay 1. Phone: 251606. Grams: "LEONINE."

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EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Sole
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 nivas House, Waudby Road, Bombay. Phone: 26-2711 (6
 lines). Offices at Madras, Calcutta 1, New Delhi, Nagpur,
 Lucknow, Bangalore, Secunderabad, Trivandrum.
 Gordhandas Desai Private Ltd.—Kermani Bldg., Sir P. M. Road,
 Bombay 1.
 Shah, M., & Co.—Sandhurst Road, Bombay 4.

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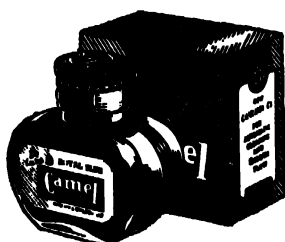
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 J. B. A. Printing Inks Private Ltd.—Bombay Agra Road, Bhandup,
 Bombay 40.

KORES (INDIA) PRIVATE LIMITED.—Plot No. 10, off Haines
 Road, Worli, Bombay 18. Manufacturers of Ink Tablets,
 Stamp Pad and Numbering Inks, Duplicating Inks, etc.
 Phone: 73454 (Three lines). Grams: "KORESCARBO".

LATHAM ABERCROMBIE & CO., PRIVATE LTD.—Forbes
 Building, Home Street, Fort, Bombay.

RAINBOW INK AND VARNISH MFG. CO. PRIVATE LTD.—
 Suryodaya Mill Compound, Tardeo, Bombay 7. Phone:
 42471. Grams: "RAINBOWINK."

Stewarts Laboratories.—327, Hornby Road, Fort, Bombay.

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BOMBAY TYPEWRITING INSTITUTION.—(Recognised by
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 cators bought, sold, repaired & hired. Type-copying and
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 Office, Bhatia Mitra Mandal, Fort Street, Fort, P.B. No. 936,
 Bombay 1. Phone: 26-2464.

INSULATION MATERIALS

B. B. Electric & Auto Stores.—88, Princess Street, Bombay 2.
 Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.
 Bharamal & Co.—70, Abdul Rehman Street, Bombay 3.

BOMBAY WIRE & METAL PRODUCTS.—272/2, Masjid Bunder
 Road, P.O. Box No. 3201, Bombay 3. Phone: 23694. Grams:
 "WIREBOLT." Manufacturers of D.C.C. Copper Wire and
 Dealers in Winding Wires and Insulating Materials.
 Brady, W. H., & Co., Ltd.—Royal Insurance Building, Churchgate
 Street, Fort.

British Electric Insulating Co.—33, Forbes Street, Fort.
 British Insulated Callender's Cables Ltd.—Esplanade House,
 Waudby Road, Fort.

COLE, R. A., PRIVATE LTD.—22, Apollo Street, Bombay 1.
 Phone: 251817/8. Grams: "DERAC". Manufacturers of
 Thermocole for Cold Insulation. Blocks, Slabs and Pipe
 Sections.

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 LIZERS PRIVATE LTD.—Ismail Building, Hornby Road,
 Fort, Bombay 1. Phone: 253870. "SUN & CROSS", Brand
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 Boiler Compound, Anti-Corrosive Boiler & Chimney Paint,
 Cleansing Powders, Binding Cement, Binding Mortar.
 Economic Electric Co., Ltd.—Jail Road, Dongri, Bombay 9.

EVERGREEN TRADERS, THE.—2-B, Bibijan Street, Nagdevi,
 Bombay 3. Phone: 27856. Grams: "GREENTRADE." Im-
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 P.V.C. Sleeveings and Oil papers.

FAKRUDDIN & CO.—43, Abdul Rehman Street, P.O. Box
 No. 3006, Bombay 3. Phone: 34534. Grams: "EKMETAL."
 Hardcastle, Wand & Co., Ltd.—Alice Building, Hornby Road, Fort.
 Heatly & Gresham Ltd.—9, Forbes Street, Bombay 1.
 Hindustan Corporation, Ltd.—Kermani Building, Sir Phirozshah
 Mehta Road, Fort.
 Indianite Insulation Co. of India.—180, Meadows Street, Fort.

INDUSTRIAL ELECTRICAL ENGINEERING CO.—10, Mamam
 Street, Fort. Specialists in Insulating Materials and Armature
 Wires. Phone: 252836.

Jack, William & Co., Ltd.—Hamilton House, Graham Road,
 Ballard Estate, Fort.

JONES, J. D., & CO. (BOMBAY) PRIVATE LTD.—Rustom
 Building, Vir Nariman Road, Fort. Phone: 253820. Grams:
 "MICA."

Khambatty, H. A., & Co., Ltd.—45-47, Lohar Street, Bombay 3.
 McKenzies Ltd.—Sewri.

Killick, Nixon & Co. Private Ltd.—Killick House, Home Street,
 Fort, Bombay. Agents for Western India for Bell's Asbestos &
 Engineering (India) Private Ltd., 12, Chittaranjan Avenue,
 Calcutta 12; Insulation (cold & hot) Packing, Jointing, Industrial
 Instrument (manufacture and repair).

PATEL ELECTRIC WIRE & INSULATING CO.—102, Kika
 Street (Gulabwadi), Bombay 4. Phone: 41307. Manufactur-
 ers & Dealers in Armature Winding Wires and Insulating
 Materials.

Pioneer Magnesia Works, Ltd., The.—Chartered Bank Building,
 Mahatma Gandhi Road, Fort.

Reliance Trading Co.—25/47, Lohar Street, Bombay 2.

INSURANCE COMPANIES

Advance Insurance Co. Ltd.—251, Dr. Dadabhoi Naoroji Road,
 Fort.

ALCO INSURANCE CO., LTD.—Rahimtoola House, Hornji
 Street, Fort, Bombay 1. Transacts Fire, Motor and Accident
 Insurance Business. Chairman: Y. A. Jasdawalla; Mgr.
 Dir.: A. A. Jasdawalla; General Mgr.: S. R. Idgunji, A.C.I.I.
 (Lond.), F.F.I.I. Secretary: A. Y. Jasdawalla, B.A. Phones:
 255557 & 255558. Grams: "ADLOOK."

All India General Insurance Co., Ltd.—Foder Chambers, Parsi
 Bazar Street, Fort.

ALLIANCE ASSURANCE CO., LTD.—Co-operative Insurance
 Building, Sir Phirozshah Mehta Road, Fort, Bombay. Fire—
 all Classes of Accident and Marine Insurance. Branch
 Manager: S. K. Divecha. Phone: 255467/8. Grams: "SO-
 CIETATE," Bombay.

AMERICAN INSURANCE CO., THE.—(Incorporated in the
 U.S.A. Liability of Shareholders Limited)—Universal In-
 surance Building, Sir Phirozshah Mehta Road, Fort, Bombay.
 Phone: 255438 (Three lines). Grams: "AFIANDIA." P.O.
 Box 977. Supervisor for India: A. C. Gale. Asst. Supervisor
 for India: F. B. Dastur.

American International Underwriters (India) Private Ltd.—
 Warden House, Sir Phirozshah Mehta Road, Fort.

Atlas Assurance Co., Ltd.—Dougall Road, Ballard Estate. (Fire—
 Marine—Motor—Accident and General).

Aundh State Provident Insurance Co., Ltd.—Jiji House, 15, Ravelin
 Street, Fort, Bombay.

Balaise Marine Insurance Co., Ltd., The.—of Basle (Switzerland),
 Principal Office for India: French Bank Building, Hornji Street,
 Bombay 1. Telegrams: "BASLER." Telephone: 25-5121.
 Transacts Fire, Marine, Miscellaneous Insurance and Reinsurance.

Bombay Fire and General Insurance Co., Ltd.—Henley House, Graham Road, Ballard Estate, Bombay 1.
British India General Insurance Co., Ltd.—Mehta House, Apollo Street, Fort, Bombay.

British Traders' Insurance Co., Ltd.—Hongkong Bank Building, Veer Nariman Road, Fort.

CALEDONIAN INSURANCE CO.—Bombay Branch: Commissariat Building, Dr. Dadabhai Naoroji Road, Fort, Bombay. Phones: 282510 & 284114. Grams: "CALCENT". Fire, Marine, Accident & Miscellaneous Insurance.

Central Insurance Co., Ltd.—Canada Building, Home Street. (Fire—Accident and General).

CENTURY INSURANCE CO., LTD., THE.—Commissariat Building, Dr. Dadabhai Naoroji Road, Fort, Bombay. Phone: 282510 & 284114. Grams: "CALCENT". Fire, Marine Accident and Miscellaneous Insurance.

Clive Insurance Co., Ltd.—Elphinstone Building, Veer Nariman Road, Fort. Chief Agents: Gillanders Arbuthnot & Co. (Fire—Motor—Accident and General).

COMMERCIAL UNION ASSURANCE CO., LTD.—9, Wallace Street, Fort, Bombay. Phone: 284841. Grams: "CUACO."

Commonwealth Assurance Co., Ltd., Poona.—Bombay Branch: Commonwealth Building, 82, Meadows Street, Fort.

Concord of India Insurance Co., Ltd., The.—Hongkong Bank Building, 16, Veer Nariman Road, Fort. (Fire—Marine—Accident and General).

Crescent Insurance Co., Ltd., The.—Crescent Chambers, Tamarind Lane, Fort.

Deepak General Insurance Co., Ltd., The.—8-10, Tamarind Lane, Fort. Phone: 22261. Grams: "DISCRETION."

DEVKARAN NANJEE INSURANCE CO., LTD.—Devkaran Nanjee Buildings, Horniman Circle, Fort. Phone: 283638/9. Grams: "DEVINSURE." (Fire and Miscellaneous).

Eagle Star Insurance Co., Ltd.—Standard Building, Dr. Dadabhai Naoroji Road, Fort.

Economic Insurance Co., Ltd.—Settling Agents: W. H. Brady & Co., Ltd., Veer Nariman Street, Fort. (Marine).

EMPLOYERS' LIABILITY ASSURANCE CORPORATION LTD., THE.—Bombay Branch: Brady House, Veer Nariman Road, Bombay-1. Phone No. 282582. (Fire, Marine and Accident).

General Assurance Society, Ltd.—General Assurance Building, Hornby Road, Fort, Bombay.

Goodwill Assurance Co., Ltd.—Head Office: 113, Mahatma Gandhi Road, Opp. Clock Tower, Fort, Bombay.

GRESHAM FIRE & ACCIDENT INSURANCE SOCIETY LTD.—Gresham Assurance House, Sir Phiroozshah Mehta Road, Fort. Phone: 255068. Branch Manager: J. X. de Souza (Fire & Marine).

Hanover Fire Insurance Co. of New York.—Warden House, Sir Phiroozshah Mehta Road, Fort.

Heracles Insurance Co., Ltd. (Incorporated in India).—Branch Office: 21, Ravelin Street. (Fire—Marine—Motor—Accident and General).

Indian Globe Insurance Co., Ltd.—Prospect Chambers, 315-321, Hornby Road, Fort. (Fire—Marine and Accident).

Indian Guarantee & General Insurance Co., Ltd.—Oriental Buildings, Mahatma Gandhi Road, Fort, Bombay.

Indian Mercantile Insurance Co., Ltd.—Indian Mercantile Chambers, Nicol Road, Ballard Estate. (Fire—Motor—Workmen's Compensation—Marine and Riot Insurers).

INDIAN TRADE & GENERAL INSURANCE CO., LTD.—Principal Office: Jehangir Building, Mahatma Gandhi Road, Fort, Bombay. Grams: "ADASTRA". Phone: 255101. Business transacted:—Fire, Marine, Motor & Miscellaneous. Branches: (1) Calcutta; (2) New Delhi; (3) Cochin; (4) Madras; (5) Nagpur; (6) Ahmedabad; (7) Agra; (8) Bangalore; (9) Secunderabad; (10) Lucknow; (11) Allahabad; (12) Indore; (13) Ranchi; (14) Udaipur; (15) Amritsar; (16) Ludhiana; (17) Calcutt; (18) Alleppey; (19) Quilon; (20) Gwalior. Overseas Branches (1) Karachi; (2) Aden; (3) Singapore; (4) Nairobi; (5) Mombasa; (6) Dar-es-Salaam. Management: Surender Lal—Director, T. M. Telang—General Manager, B. B. Sawhney—Dy. General Manager.

JAYABHARAT INSURANCE CO., LTD., THE.—French Bank Building, Hornji Street, Fort. (Fire—Marine—Motor and all other general Insurance). Phones: 253941, 253942, 253943, 253944, 253945.

Jupiter General Insurance Co., Ltd.—State Bank Bldg. Annexe, Bank Street, Fort.

Kaiser-I-Hind Insurance Co., Ltd.—Head Office: Sassoon Building, 141, Mahatma Gandhi Road.

LEGAL AND GENERAL ASSURANCE SOCIETY LTD.—Gresham Assurance House, Sir Phiroozshah Mehta Road, Fort. Phone: 255068. Branch Manager: J. X. de Souza. (Fire, Marine and Miscellaneous).

LIVERPOOL & LONDON & GLOBE INSURANCE CO., LTD., THE.—(Incorporated in England; Shareholders' Liability Ltd.).—12, Jamshedji Tata Road, Bombay. (Fire—Loss of Profits—Motor—Accident (all classes)—Engineering—Aviation—Marine). Secretary: D. E. Twemlow. Tel. Address: "GLOBANCE." Phone No. 37125 (5 lines). Post Box No. 1848. Head Office: 1, Dale Street, Liverpool, England.

London Assurance, The.—Principal Agents: Anglo-Thal Corporation Ltd., Ewart House, Bruce Street, Bombay. (Fire & Marine).

LONDON & LANCASHIRE INSURANCE CO., LTD., THE.—Mehta House, Apollo Street, P.O. Box 117, Bombay. Grams: "LONDLANC". Phone: 282365. Fire, Marine, Motor, Accident (All Types), Engineering. Branch Manager: K. W. M. Campbell.

LONDON & PROVINCIAL MARINE & GENERAL INSURANCE CO. LTD.—10, Bruce Street, Fort. Phone: 282321. Grams: "LOPROMAR."

MANUFACTURERS LIFE INSURANCE COMPANY OF CANADA.—123, Mahatma Gandhi Road, Fort, Bombay. Phone: 283282. Grams: "MANULIFE." Secretary for India: C. N. Parikh.

MARINE & GENERAL INSURANCE CO., LTD.—Standard Building, Dr. Dadabhai Naoroji Road, Bombay 1. Phone: 282354.

NATIONAL EMPLOYERS' MUTUAL GENERAL INSURANCE ASSOCIATION LTD.—Kamani Chambers, 32, Nicol Road, Ballard Estate, P.O. Box 730.

National Fire & General Insurance Co., Ltd.—National Insurance Building, Hornby Road. (Fire, Marine and Accident).

NATIONAL INSURANCE COMPANY OF NEW ZEALAND LIMITED, THE.—(Incorporated in New Zealand with Limited Liability). Head Office: Dunedin, New Zealand. Principal Office for India: Rahimtoola House, Hornji Street, Fort, Bombay 1. Transacts Fire, Marine and Miscellaneous Business. Principal Officers for India: S. R. Idgunji, A.C.C.I. (Lond.), F.F.I.I. and A. Y. Jassanwalla, S.A. Phones: 283837 & 285838. Grams: "OTAGO", Bombay.

Neptune Assurance Co., Ltd.—104, Apollo Street, Fort, Bombay 1. New Asiatic Insurance Co., Ltd.—Bombay Branch: Imperial Bank Building Annexe, Bank Street, Fort.

NEW GREAT INSURANCE CO. OF INDIA, LTD.—Principal Office in the Union of India: 45-47, Apollo Street, Fort. General Manager: Shri M. G. Medy.

New Hampshire Fire Insurance Co. of Manchester, New Hampshire.—Warden House, Sir Phiroozshah Mehta Road, Fort.

NEW INDIA ASSURANCE CO., LTD.—New India Assurance Building, Mahatma Gandhi Road, Fort, Bombay. Managing Director: B. K. Shah, F.I.A. (Transacts Fire—Marine—Motor—Aviation—Machinery and all classes of Accident Business).

New Zealand Insurance Company, Ltd.—Hongkong Bank Building, 16, Veer Nariman Road, Bombay.

North British and Mercantile Insurance Co., Ltd.—276, Dr. Dadabhai Naoroji Road. (Fire—Marine—Motor—Accident and General).

North China Insurance Co., Ltd.—Hongkong Bank Building, Veer Nariman Street, Fort. (Marine).

NORWICH UNION FIRE INSURANCE SOCIETY LTD.—16, Bank Street, Post Bag 49, Fort, Bombay. Branch Manager: J. J. Sharma. Grams: "NUFAM." Phone: 251988.

OCEAN ACCIDENT & GUARANTEE CORPORATION, LTD., THE.—9, Wallace Street, Fort, Bombay. Phone: 284841. Grams: "NAECO."

PANDYAN INSURANCE CO., LTD.—Gresham Assurance House, Sir Phiroozshah Mehta Road, Fort. Branch Manager: J. X. de Souza. (Fire, Marine and Miscellaneous).

Pearl Assurance Co., Ltd.—Construction House, Nicol Road, Ballard Estate.

Phoenix Assurance Co., Ltd.—Principal Agents: Castlemuir Ltd., Alice Building, 339, Dr. Dadabhai Naoroji Road, Fort, Bombay. (Fire and Marine).

Presidency Provident and General Insurance Co., Ltd.—Mherwan Building, Sir Phiroozshah Mehta Road, Fort.

Royal Exchange Assurance Corp.—Jehangir Wadia Building, 51, Mahatma Gandhi Road, Bombay 1.

ROYAL INSURANCE CO., LTD.—(Incorporated in England; Stockholders' Liability Ltd.). 12, Jamshedji Tata Road, Bombay. (Fire—Loss of Profits—Motor—Accident (all classes)—Engineering—Aviation—Marine). Secretary: D. E. Twemlow. Tel. Address: "ROYAL." Phone No. 37125 (5 lines). Post Box No. 1847. Head Office: 1-1, North John Street, Liverpool, England.

Ruby General Insurance Co., Ltd.—Imperial Bank Annexe, Bank Street, Fort.

Scottish Alliance Insurance Co.—9, Wallace Street, Fort. (Fire).
 Scottish Union and National Insurance Co.—16, Bank Street, Fort.
 Sea Insurance Co., Ltd., The.—Head Office for India: Standard
 Building, Dr. Dadabhai Naoroji Road, Fort.
 Sentinel Assurance Co., Ltd.—Jambhumi Bhavan, Ghoga St.,
 Fort. (Fire—Motor—Marine—etc.)

SOUTH INDIA INSURANCE CO. LTD.—H.O. Jehangir Bldg.,
 Mahatma Gandhi Road, Fort, Bombay. Phone: 255355/6.
 Business Transacted: Fire, Marine, Motor, Miscellaneous.

Standard General Assurance Co., Ltd.—17/B, Elphinstone Circle,
 Fort, Bombay. Grams: "STANGENAL."

STERLING GENERAL INSURANCE CO., LTD.—(Transacting
 Fire—Marine—Accident—Motor and Aviation Insurance).
 Head Office: Scindia House, P.O. Box No. 12, New Delhi.
 Phones: 46625, 47806 & 48809. Grams: "STERLING."
 Managing Director and General Manager: M. N. Seth, M.A.,
 C.A.I.B., F.R.E.S. (Lond.). Deputy General Manager: F. P.
 Kollm. Bombay Divisional Office: 10, Veer Nariman Road
 (Churchgate Street), Fort. Phones: 255225 & 255226. Grams:
 "STERINSOY." Resident Manager: S. W. Cohn; Divisional
 Manager: R. M. Shah; Calcutta Divisional Office: 23/1,
 Stephen House, Dalhousie Square, East. Phones: 23/1734
 and 23/1735. Grams: "STERINSURE"; Manager: S. C.
 Chatterjee. Madras Branch Office: 10, Linghi Chetty Street.
 Phone: 21661. Grams: "STERINSURE." Branch Manager:
 K. Venkoba Rao.

SUN INSURANCE OFFICE LTD.—Co-operative Insurance
 Building, Sir Phirozshah Mehta Road, Fort, Bombay.
 Fire, All Classes of Accident and Marine Insurance.
 Manager: S. K. Divecha. Phone: 255467/468. Grams:
 "SOCIETATE," Bombay.

Triton Insurance Co., Ltd.—United India Life Building, 3rd Floor,
 Sir Phirozshah Mehta Road, Fort, P.O. Box No. 115, Bombay 1.

UNION ASSURANCE SOCIETY LTD.—9, Wallace Street, Fort,
 Bombay. Phone: 264841. Grams: "GUACO."

Union Insurance Society of Canton, Ltd.—Hongkong Bank Building,
 16, Veer Nariman Road, Fort. (Fire—Marine—Motor—Accident
 and General).

UNIQUE MOTOR & GENERAL INSURANCE CO. LTD.—Noble
 Chambers, Parsee Bazar Street, Bombay 1. Phone: 255344.
 Grams: "UNIQMOTOR." Managing Director: A. L. San-
 ghvi; Secretary: Ishwarlal G. Mehta; Main Business: Trans-
 acting all types of Motor & Personal Accident Insurance.

United India Fire & General Insurance Co., Ltd.—Warden House,
 Sir Phirozshah Mehta Road, Fort.

United India Life Assurance Co., Ltd.—United India Life Building,
 Sir Phirozshah Mehta Road, Fort.

UNITED SCOTTISH INSURANCE CO., LTD.—Hongkong Bank
 Building, 16, Veer Nariman Road, Bombay.

Universal Fire & General Insurance Co., Ltd.—"Universal Insurance
 Building," Sir Phirozshah Mehta Road, Fort.

Uplift of India Provident Society Ltd.—Advani Chambers, Sir
 Phirozshah Mehta Road.

Vanguard Fire and General Insurance Co. Ltd., The.—Head Office:
 Madras. Bombay Branch: Sallor Building, 373, Hornby Road,
 Fort, Bombay.

Warden Insurance Co. Ltd. (Estd. 1933).—Warden House, Sir
 Phirozshah Mehta Road, Fort.

Western India Life Insurance Co., Ltd.—(H.O.: Satara City). Bom-
 bay Branch: Western India House, Sir Phirozshah Mehta Road,
 Fort.

Yorkshire Insurance Co., Ltd.—10, Bruce Street, Fort.

Zenith Assurance Co., Ltd.—Mehta House, Apollo Street, Fort,
 Bombay.

INTER-COMMUNICATION TELETYPE

Western Agencies' Co.—421, Lamington Road, Bombay 4.

WESTREX COMPANY, INDIA—Metro House, Mahatma
 Gandhi Road, Bombay 1. P.O. Box No. 1232. Tel.
 Address: "WESTREX." Phones: 242273 and 242274.

IRON, STEEL AND BRASS WORKS

Acme Manufacturing Co., Ltd.—Construction House, Wittet Road,
 Ballard Estate.

Adamally Sons Ltd.—277, Nagdevi Street, Bombay 3.

Adamji Lookmanji & Co.—Bahimoola House, Homji Street, Fort.
 Aliboy Mahomedali & Co.—28, Kika Street, Gulabwadi.

Anandji Haridas & Co., Ltd.—Frere Road, Bombay.

Art Metal Works (Estd. 1882).—Office and Factory: 100, Foras
 Road, near Municipal Workshop, Bombay 8.

Bolinjkar Metal Works Ltd.—Nana Chowk, Bombay 7.

Bombay Iron Works.—Ripon Road Cross Lane, Byculla.

Brady, W. H., & Co., Ltd.—Royal Insurance Building, Churchgate
 Street, Fort.

Burjorji Pestonji & Sons, Private Ltd.—Sussex Road, Victoria
 Gardens, Bombay 27.

Chadha, B. M., & Co., Ltd.—Jan Mansion, Sir Phirozshah Mehta
 Road, Fort, P. O. Box 671, Bombay.

Chhotalal Keshawji & Co.—Carnac Bunder.

Chimanlal Vadlal & Co.—80, Abdul Rahman Street.

City Engineering Works.—Vandekar Building, Lamington Road.

Curtis & Co., Ltd., J.—6, Mahalaxmi Bridge Arcade, Bombay 11.

Deviprasad Khandelwal & Co., Ltd.—Iron Jettha, Carnac Bunder.

GARLICK & CO. PRIVATE LTD.—Haines Road, Jacob Circle.

Globe Stores Co., The.—Sitaram Building, near Crawford Market,
 Hornby Road.

Hariprasad Amratlal & Co.—Iron Market, Carnac Bunder.

Hatimbhoy, A., & Co.—Iron Jettha, Carnac Bunder, Bombay 9.

Herman & Mohatta, B. R., Ltd.—People's Building, Sir Phirozshah
 Mehta Road, Fort.

Joshi & Co.—207, Kumbharwada 6th Lane, Golpitha, Bombay 4.

Kothari, P., & Sons.—2nd Kumbharwada, Bombay 4.

Manekchand Jivraj & Co.—Old Iron Jettha, Darukhana.

Mehta & Co.—35, Abdul Rahman Street.

Mishkan Adamji & Co.—Carnac Bunder.

Modern Textile Engineering Works.—194-A, Trimbak Parashram
 Street, Golpitha, Bombay 4.

MUKUND IRON & STEEL WORKS LTD.—Agra Road, Kuria,
 Bombay 37.

Munsherjee Byramjee & Co. (Estd. 1892).—Office and Factory:
 Jeraibhoy Street, 100, Foras Road, near Municipal Workshop,
 Bombay 8.

Murkimal Santram & Co.—Iron Jettha, Carnac Bunder.

Mysore Iron & Steel Works, The.—Lakshmi Buildings, Sir
 Phirozshah Mehta Road, Fort.

Nadirshaw & Bros.—"Silver Talkies" Building, Khetwadi Back
 Road, Bombay 4.

New Standard Engineering Co., Ltd.—222, Bellasis Road, Byculla.

Pioneer Iron Foundry.—11, Sukhlaji Street, Corner of Grant Road.

Prabhudas, O., & Co.—247, Argyle Road, Carnac Bunder.

PREMCHAND IRON & STEEL WORKS.—Kasturchand Mills
 Compound, Dadar, Bombay 28. Phone: 63942. Manufac-
 turers of Anchor Brand Heavy 'T' and Strap Hinges, Hard-
 ware Materials (Aldraps) and modern building Fittings.

Ramniklal Maganlal & Co.—Iron Market, Carnac Bunder.

Ramnar Das Aggarwal & Sons.—163, Nagdevi Cross Lane,
 Bombay 3.

Richardson & Cruddas Ltd.—Byculla Ironworks, Byculla.

Ripon Foundry, New.—236, Ripon Road, Byculla.

Samartha Engineering & Weaving Co., Ltd.—Neville House, Ballard
 Estate.

Shantilal Parmanand & Co.—47A, Carnac Sliding Road.

SHAPARIA DOCK & STEEL CO. PRIVATE LTD.—Structural
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 Next to Byculla Goods Yard, Bombay 12. Phone: 41624.
 Fort Office: 11, Bruce Street, Fort. Grams: "ROLSEUTTER."

Sun Metal Works.—Factory, Ghodbunder Road, Malad.

Suresh Engineering Works.—Bombay Cotton Mills Estate, Kala-
 chowki Road, Bombay 12. Phone: 41887. Ferrous & Non-Ferrous
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Swastik Rolling Shutters & Engineering Works.—Parel Station Road, Bombay 12. Phone: 62041. Grams: "SWASTIKROL".
Tata Iron & Steel Co., Ltd.—Bombay House, 24, Bruce Street, Fort.

United Steel Companies (India) Private Ltd., The.—Himalaya House, Junction of Hornby Road and Palton Road, Bombay 1.

Vithal Purnabotum & Sons, Ltd.—2nd Khetwadi Lane, Bombay 4.
Vithaldas, D., & Co.—76, 1st Pathan Street, Golpitha, Bombay 4.
Yahya & Company.—123, Abdul Rehman Street, Bombay 3.

IRON & STEEL MERCHANTS

A. A. MORBIWALA & CO.—Merchants & Commission Agents, 109/111, Abdul Rehman Street, Bombay 3. Phone: 23290. Grams: "VARNISH".

Adamally Sons Ltd.—277, Nagdevi Street, Bombay 3.
Adamji Lookmanji (Iron & Steel) Ltd.—Rahimtools House, Homji Street, Fort.

Amratlal V. & Co.—Carnac Bunder, Bombay 9.

Amratlal Popatlal & Son.—Darukhana, Mazagaon, Bombay 10.

Anandji Haridas & Co., Ltd.—Frere Road, Bombay.

Arvinda Bros.—165, Vithalbhai Patel Road, Bombay 4.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.
Bombay Steel Supplies Private Ltd.—19, Bank Street, Bombay 1.

Chhaganlal & Co.—Carnac Bunder, Bombay 9. Phone: 20751. Grams: "CONTRACTS".

Chimanlal Devchand & Co.—2nd Kumbharwada Lane, Bombay 4.

CHIMANLAL VRAJLAL & CO.—Iron, Steel and Hardware Merchants, Latif House, Iron Market, Bombay 9. Phone: 30963.

Deviprasad Khandelwal & Co., Ltd.—Iron Jetha, Carnac Bunder.

EAST ASIATIC CO. (INDIA) PRIVATE LTD. THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 Lines). Offices at Madras, Calcutta, New Delhi.

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Harbanslal Aggarwal (India) Ltd.—134, Narayan Dhuru Street, Bombay 3.

Hatimbhoy, A., & Co.—Iron Jetha, Carnac Bunder, Bombay 9.

H. Choksi & Co., Ltd.—Meadows Street, Bombay 1.

Herman & Mohatta, B. K., Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort.

Indian Standard Metal Co., Ltd.—Chinchpokli Cross Lane, Bombay 27.
Indo-Bombay Trading Co.—34, Nagdevi Street, Bombay 3.

JINDAL BROTHERS.—3rd Lane, Dharukhana, Bombay 10. Grams: "JINDALSHIP." Importers, Mfrs. and Contractors; Iron & Steel Merchants.

KRUSHIRAM CHIMANLAL PRIVATE LTD.—21, Branch Street, Dana Bunder, Bombay 9. Phone: 28892. Grams: "IRON-SHEET."

MADHURAM MOOLCHAND.—Ahmedabad Street, Iron Market, Bombay 9. Phone: 30529. Grams: "IRONINDIA."

MANGALDAS RANCHODDAS & CO.—Iron Market, Carnac Bunder, Bombay 9. Phone: 29884 (Office); 72489 (Res.). Grams: "MANGALODAY."

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MENTA & COMPANY.—Latif House, Argyle Road, Iron Market, Bombay 9. Phone: 30963. Grams: "NICERODS." Importers and Stockists of Iron, Steel, Hardware and Metals.

Mehta Nanavati & Co.—Barbhai Moholla, 96, Narayan Dhuru Street, Bombay 3.

Nagdevi Tool-Steel Mart.—186-88, Nagdevi Street, Bombay 3.

Odhavji, B., & Co.—Carnac Bunder, Argyle Road, Bombay.

ORIENTAL STEEL & METALS CO.—Iron Market, Bombay 9. Dealers in Iron, Steel and Metals.

PARAMOUNT HARDWARE MART.—Carnac Bunder, Bombay 9. Phone: 22932. Grams: "PARAMART." Authorised Stockists of Tata Agrico Tools.

Parikh & Co., K.—Iron Market, Carnac Bunder, Bombay 9.

P. L. Bhatt & Co.—5, Bharat House, 104, Apollo Street, Fort, Bombay.

PREMJEE UMERSHI & CO.—Iron Market, Carnac Bunder, Bombay 9. Phones: 39606, 39623. Grams: "LOVEABLE." Iron & Steel merchants and dealers for Tata Iron & Steel Co. Ltd.

Ramniklal Amidas & Co.—Carnac Bunder, Iron Jetha, Bombay 9.

RAMNIKLAL MAGANLAL & CO.—Carnac Bunder, Bombay 9. Phone: 33492. Grams: "TESTED."

RAMSAHAI RAJKUMAR.—85/87, Nagdevi Street, Bombay 3. Phone: 30041 Extn. 4. Grams: "IRONRANGER."

RELIANCE IRON & HARDWARE CO.—11, Narayan Dhuru Cross Lane, Bombay 3. Grams: "SUMADEHUR."

Richardson & Cruddas.—Byculla Iron Works, Byculla.

Shah Chhaganlal Ladhulal.—58, Mudi Bazar (Mandvi), Bombay 3. Phone: 34522.

Steelyard Limited.—Rahimtools House, Homji Street, Fort.

Tarachand Gupta & Bros.—Narayan Dhuru Street, Bombay 3.

TEJPAULS PRIVATE LTD.—225, Argyle Road, Iron Market, Bombay 9. Phone: 29010 and 89697. Grams: "STEELDEPOT."

TIRATHRAM KASHMIRILAL.—89, Nagdevi Cross Lane, Bombay 3. Phone: 30041 (Ext. 16). Grams: "GIRDERS". Government Controlled Stockists and Importers of Iron & Steel Light and Heavy Structural Reinforcing Bars, Sheets, Plates, Wires, etc.

Thos. W. Ward (India) Ltd.—Marshall Building, Ballard Road, Ballard Estate, Fort.

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United Steel Companies (India) Private Ltd.—Patel House, Churchgate Street, Fort.

VITRAL PURSHOTUM & SONS PRIVATE LTD.—2nd Khetwadi Lane, Bombay 4. Phone: 75744. Precision Spare Parts of Textiles and Sugar Mills, Rotary Oil Mills, V. Rope Pulleys and Mill Gearing our Speciality. Agents for "ROBSON." Horizontal Crude Oil Engines and Spares.

Volkart Brothers.—19, Graham Road, Ballard Estate.

Voltas Ltd.—Graham Road, Ballard Estate, Bombay 1.

WESTERN INDIA HARDWARE MART.—16, Narayan Dhura Cross Lane, Bombay 3. Grams: "VINCENITY." Phone: 28730.

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CHIMANLAL MANCHAND & CO.—Leading State Jewellers and Central Government appointed Jewellery Valuers. Importers, Exporters & Dealers in Precious Stones and manufacturers of exclusive & artistic jewellery. Showroom: Opp. Opera House, New Queen's Road. Phones: 30321. Grams: "PLATINUM."

CHIMANLAL POPATLAL MINAWALLA.—Art Jewellers, Dealers in Gold, Enamel and Diamond Ornaments, 285, Zaveri Bazar, Ghia Mansion, Bombay 2. Phone: 28382. Grams: "GOLDENAMEL."

CHUNILAL & CO.—17-19, Dhanji Street, Bombay 3. Phone: 29991.

CULTURE PEARLS DEALING CO.—Madras Building, 2nd Floor, 148, Mumbadevi Road, Bombay 2. Wholesale and Retail Dealers in (Real) Culture Pearls Ornaments and other Jewellery.

DANYALAL MAKANJEE ZAVERI.—Precious Stones—Diamonds—Pearls and Manufacturing Jewellers, 98, Sheikh Memon Street, Bombay 2. Phone: 23218. Grams: "JAYKUBER."

Danabhai & Amratilal Minawala (Estd. 1931).—Art Jewellers, 252-54, Sheikh Memon Street, Bombay 2.

Dayabhai Bros.—Patel Chambers, Bombay 7.

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Gandar Ltd.—Taj Mahal Hotel, Bombay 1.

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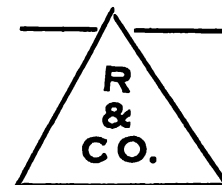
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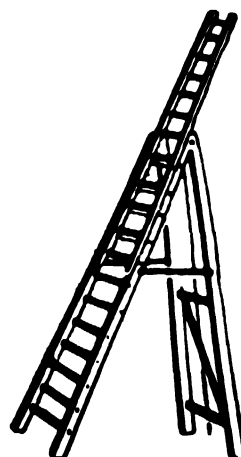
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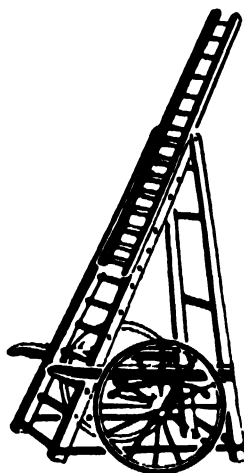
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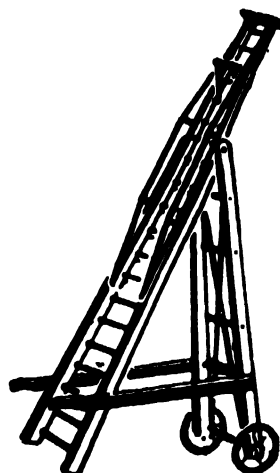
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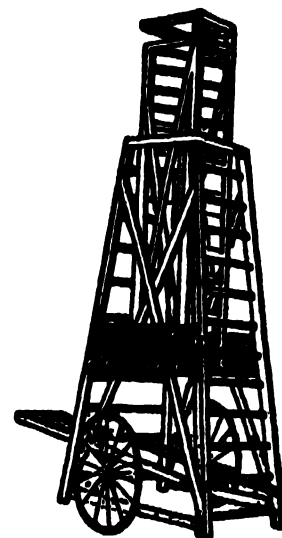
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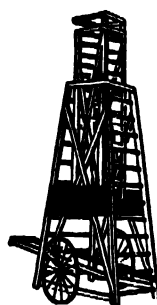
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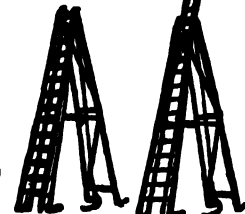
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 Suraiya, M., & Co.—Prospect Chambers, Hornby Road, Post Box 439, Bombay 1.
 Textile Works Ltd.—49-55, Apollo Street, Fort.
 United Cottage Industries.—Near Central Bank of India, Ltd., Abdul Rehman Street, Bombay 3.
 Victory Leather Works.—112-144, Abdul Rehman Street, Bombay 3.
ZEPPYR LEATHER WORKS.—1st Floor, Sethna Bldg., Kitchen Garden Lane, Sheikh Memon Street, Bombay 2. Manufacturers of all sorts of Leather goods, Plastic Presentation Novelties.

LIBRARY STACKS

HINDUSTAN FABRICS & STORES PRIVATE LTD.—Fulchand Niwas, Chowpatty Sea Face, Bombay 7. Grams: "SWAKALA". Phone: 27106.
KHURA STEEL WORKS PRIVATE LTD.—H.O. & Factory, Ghodbunder Road, Santa Cruz, Bombay 23. Grams: "STEELCASE". Phones: 88002 & 88589. Regd. Office: Khura Bhavan, Sandhurst Bridge, Bombay 7. Grams: "SWAKALA". Phone: 27636. Showroom: Fulchand Niwas, Chowpatty Sea Face, Bombay 7. Grams: "SWAKALA". Phone: 27106.

LIFTS (ELECTRICAL)

EASTERN ENGINEERS.—1, Bruce Street, Raja Bahadur Compound, Fort, Bombay 1. Phone: 231810. Sole Agents for 'GIMSON' English Lifts. Specialists in Concealed Wiring.

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Associated Machine & Tool Co.—130, Meadows Street, Bombay 1. Phone: 28688.

Baba Engineers.—Baba Corner, 24, Gunbow Street, Fort, Bombay 1.

Doahl Brothers & Co.—77, Meadows Street, Fort.

Great Western Engineering Works.—"Sea View," 1st Pasta Lane, Colaba.

Greaves Cotton & Co., Ltd.—Forbes Street, Bombay 1.

Guest, Keen, Williams, Ltd.—Ballard Estate, Bombay 1.

Heatly & Gresham Ltd.—9, Forbes Street, Bombay 1.

James Finlay & Co., Ltd.—Mahatma Gandhi Road, Bombay 1.

MARIAN ENGINEERING CO.—7/10, Botawalla Building, Horniman Circle, Bombay 1. Phone: 252943. Grams: "MECORAILS." Manufacturers & Stockists of Light Railway Materials, Small Tools, Machine Tools, Hardware, Wheel Barrows & Portable Electric Tools, etc.

Seagrand & Co.—19, Arab Lane, Bombay 8.

Shalebhoy Tyebjee & Sons.—12, Bruce Street, Bombay 1.

Swastik Rolling Shutters & Engineering Works.—Parel Station Road, Bombay 12.

Thos. W. Ward (India) Ltd.—Marshall Building, Ballard Road, Ballard Estate, Fort.

Tropical Engineering Co.—27, Forbes Street, Fort, Bombay; Grams: "TROPENCO." Importers of and Stockists in Electric Motors, Generating Sets, Turbines, Locomotives, Stone Crushers, Road Rollers, etc.

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Janisheth & Sons.—38, Narayan Dhuru Street, Bombay 3. Lime and Sand Merchants. Phone: 22842.

Pravin Brothers & Co.—37, Bora Bazar Street, Bombay 1.

Behemtulla, M., & Co.—38, Narayan Dhuru Street, Bombay No. 3.

Yusuf Dada Chunawalla & Co.—34, Bapu Khote Street, Bombay No. 8.

LITHOGRAPHERS

BOLTON FINE ART LITHO WORKS.—274, Tardeo Road, Bombay 7. Offset Colour Printers of Pictures, Calendars, Posters, Show Cards, Labels, Boxes, Playingcards, Insurance Policies, Cheque Books, etc. (Estd. 1899). Phones: 41614 & 76287. Grams: "BOLTONLITO".

Calendar Manufacturing Co.—62-66, Meadows Street.

Everest Calendar Co.—45/47, Princess Street, Bombay 2.

Jagtap Lithographic Works.—Khatun Wadi, Girgaon, Bombay 4.

Karnodaya Litho Press.—Old Victoria Mills Compound, Gamdevi.

LAKMI OFFSET & PRINTING WORKS.—23, Goa Street, Ballard Estate, Bombay 1. Phone: 263147.

LEADERS' PRESS PRIVATE LTD.—(Props. of British India Press), 108, Love Lane, Mazagon, Bombay 10. Phone: 75334-35. Grams: "PRINTBIND." Letterpress, Litho & Offset Printers; Specialists in Books, Diaries, Calendars, Cartons, Labels, etc.

METRO PRINTING & LITHO WORKS.—275-279, Bellasis Road, Omar Jamal's Compound, Bombay 8. Phone: 75353. Grams: "METROFFSET." Quality Printers and Lithographers.

MOHAMADI FINE ART LITHO WORKS.—Proprietors: Allibhoi Sharafally & Co. Private Ltd. (Established: 1878; Incorporated 1938). Mohamadi Building, Mazagon, Bombay 10. Lithographers, Offset and Letterpress Printers, Box Makers and Bookbinders. Phones: 40235 and 42087. Grams: "KORAN."



Telephones:

40235

42087

Telegrams:

"KORAN"

Established:

1878

Incorporated:

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Premier Offset Works.—Swadeshi Mills Property, Roxy Cinema Compound. Offset Photo Lithographers and Colour Printers. Shri Raghunath Litho Works.—74, Khetwadi 10th Lane, Bombay 4.

TIMES OF INDIA PRESS, THE.—Hornby Road.

UNIVERSAL CALENDAR MANUFACTURING CO.—Calendar Manufacturers, Lithographers and Tin Printers, 23-25, Mamam Street (Opp. Post Office), Bombay 1.

Vinay Calendar Co.—104, Ardeshir Dadi Street, Bombay 4.

Western India Art Litho Works.—11, Hathibaug Lane, Mazagon.

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Diamond Safe Manufacturing Co.—Office, opp. Vithalwadi, 282, Kilachand Mansion, Kalbadevi Road.

Govin's Safe Manufacturing Co.—260-68, Kalbadevi Road, Bombay 2.

Gurjar Steel Products.—20, Dadyneth Agiary Lane, Kalbadevi Road.

Rajal Safe Manufacturing Co.—248, Kalbadevi Road, Hira Mahal, Bombay 2.

Rehemtulla Ismail Tijoriwala (Estd. 1895).—42, Abdul Rehman Street, Pydhonie, Bombay 3.

Sohn House.—Lohar Street, Bombay 2.

SteelAge Industries Ltd.—Opp. Post Office, Mazagon, Bombay.

Swadeshi Steel Products.—Zaver Baug, Kalbadevi Road, Bombay 2.

Vertex Manufacturing Co., Ltd.—Fort, Bombay 1.

Zenith Safe Mfg. Co.—249, Kalbadevi Road.

LUBRICATING OIL AND GREASES

A. P. PATEL & CO.—159, Narayan Dhuru Street, Bombay 3. Phone: 28817. Grams: "HARAMBE." Distributors of Petroleum Products for Standard Vacuum Oil Co., at Jalna, Parbhani, Aurangabad, Solan, Nanded, Nizamabad, Hingoli and Manwath.

Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.
 Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.
 Bhutt Bros.—163, Nagdevi Cross Lane, Bombay 3.
 Bombay Machine Store Co., The.—Laxmi Building, 43, Nagdevi Cross Lane, Bombay No. 3.

BOMBAY MERCANTILE CORPORATION.—211-217, Nagdevi Street, Bombay 3. Phone: 22782. Grams: "CORPBOMBER." Sole Agents for Union Trading Co., Inc., New York.

Burmah-Shell Oil Storage & Distributing Co. of India Ltd.—Ballard Estate, Bombay.

Caltex (India) Limited.—Caltex House, 8, Ballard Road, Bombay.
 Cox & Co., Ltd., H. 8.—24, Rampart Row, Fort, Bombay.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavel House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 Lines). Offices at Madras, Calcutta, New Delhi.

EXCELLENT PETROLEUM CO.—Opp. J. J. Hospital Tram Junction, Bombay 8. (Proprietors: Sulemanji Mohamedally Arsiwalla). Dealers in Burmah-Shell Motor-Spirit, E.S.D. and other Lubricants.

GENERAL OIL TRADING CO.—111, 115, Khand Bazar, Randerian House, Bombay 3. Phone: 28376. Grams: "GENOTRACO." Bombay. Importers of all grades of Lubricating Oils & Motor Oils & Petroleum Jellies.

Greaves Cotton & Co., Ltd.—Forbes Street, Bombay 1.

GULF OIL (INDIA) PRIVATE LTD.—Steelcrete House, 3, Dinsha Wacha Road, Bombay 1. Importers and Distributors of High Grade Lubricants.

Hardcastle, Waud & Co., Ltd.—Alice Building, Hornby Road, Fort.

INTERNATIONAL LUBRICANTS PRIVATE LTD.—Court House, Dhobi Talao, Bombay 2. Phone: 29109. Grams: "LUBRICANTS." Bombay, and 12-A, Ashutosh Mukerjee Road, Calcutta 20. Grams: "VISCOSITY", Calcutta. Importers of Highgrade Motor Oils, Lubricating Oils & Petroleum Jellies.

Kamleshankar P. Joshi.—72/80, Nagdevi Cross Lane, Bombay 3.
 Kilburn & Co. Private Ltd.—Gresham Assurance House, Sir Phirozshah Mehta Road, Bombay.

Killick, Nixon & Co. Private Ltd.—Home Street, Bombay 1.

Leach & Co. Ltd., H. J.—Asian Building, Ballard Estate.
 Mata Lachmi Company.—Husseni Chambers, Nanabhai Lane, Fort.

Narottandas Karsandas & Co.—278, Dr. Dadabhai Naoroji Rd., Bombay 1.

Shah & Sundar.—7/10, Horniman Circle, Botawala Building, Bombay 7.

Sizing Materials Co., Ltd.—Jeroo Building, 137, Mahatma Gandhi Road, Fort.

Spence Ltd.—Gowalia Tank Road, Bombay 26.

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Wakefield & Co., Ltd., C. C.—91, Walkeshwar Road, Bombay 6.

Wharton, H. W., & Co., Ltd.—389, Hornby Road, Fort.

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 Acme Mfg. Co., Ltd.—Construction House, Ballard Estate.
 Alcock, Ashdown & Co., Ltd.—16, Bank Street, Fort.
 Alfred Herbert (India) Ltd.—Kaiser-I-Hind Buildings, Ballard Estate.
 Altex Private Limited.—147, Esplanade Road, Fort.
 Almeida, J. C.—National Insurance Building, 1st Floor, 27, Bastion Road, Fort, Bombay. Phone: 263708. Grams: "GROTTO".

Apollo Engineering Co.—84, Apollo Street, Fort.
 Armstrong Smith Private Ltd.—Gresham Assurance House, Sir Phirozshah Mehta Road, Fort.

Art Metal Works (Mtd. 1882).—Office and Factory: 100, Foras Road, near Municipal Workshop, Bombay 8.

Arvinda Bros.—165, Vithalbhai Patel Road, Bombay 4.

Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.

Asea Electric Ltd.—Vafi Building, Goa Street, Fort.

Ashar, R. D.—10, Bruce Street, Fort.

Ashok Engineering Co.—24, Noble Chambers, Parsi Bazar Street, Fort. Tel. No. 31445. Grams: "Revolution."

Associated Machine & Tool Co.—130, Medows Street, Bombay 1.
 Automachines (India) Private Ltd.—111-A, Mahatma Gandhi Road, Bombay 1.

Automatic Electric Devices Company.—'Rectifier House', Naigaum Cross Road, Bombay 31.

Baba Engineers —Baba Corner, 24, Gunbow Street, Fort, Bombay 1.

Babcock & Wilcox of India, Ltd.—16, Queen's Road Estate, Bombay.

Bakhshram & Co.—Ahmed Building, 129, Modi Street, Fort.

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BHARAT INDUSTRIAL CORPORATION.—Manufacturers of

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Bombay 1.

Bombay Company Ltd.—9, Wallace Street, Fort.

Bombay Pioneer Industrial Corporation Ltd.—89, Princess Street,

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Brady, W. H., & Co., Ltd.—Royal Insurance Buildings, Churchgate

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Road, Bombay 1.

C. Bole & Co.—75, Nagdevi Cross Lane, Bombay 3.

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CHETNA TRADING CORPORATION.—105, Apollo Street, 1st

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Chhaya Trading Co.—Opp. Share Bazar Building, Hamam Street,

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Chinmanlal Devchand & Co.—2nd Kumbharwada Lane, Bombay 4.

Chinmanlal Patel & Co.—174, Hornby Road, Fort.

Choksi, H., & Co.—106, Medows Street, Fort.

Chotani Electric & Engineering Co., Ltd.—57, Apollo Street, Fort.

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Drewet, Chowna & Co.—"Lentin Chambers," Meadows Street, Fort. Duncan, Stratton & Co. Ltd.—5, Bank Street, Fort, Bombay. Dwarkadas & Sons Ltd.—Mehta House, 89, Apollo Street, Fort, Bombay.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Shree-nivas House, Waudby Road, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi, Bangalore and Secunderabad.

Eastern Electric & Refrigeration Co.—14, Hamam Street, Fort. Eastern Industrial Syndicate.—4, Rutherford Street, Forbes Street, Bombay 1.

Eastern Machinery & Trading Co.—Wilson Road, Ballard Estate, Fort, Bombay. Phone: 34073.

Economy Engineering Co.—57, Kirti Building, Forbes Street, Fort.

EDGAR HANDLEY COMPANY PRIVATE LIMITED.—135, Meadows Street, Fort, Bombay. Phones: 253848 & 252834. Grams: "TROJAN."

Electric Cable & Machinery Co.—46-47, Forbes Street, Fort. Etof Hansson Agency Ltd.—"Adelphi House", 3, Queen's Road, Bombay.

Engineering & Agencies Ltd.—Dena Bank Building, 24, Elphinstone Circle, Fort.

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Fleming, John, & Co. (India) Private Ltd.—Sukhadwala Building, Bastion Road, Fort.

Fowler, John, & Co. (India), Ltd.—Marshall's Building, Ballard Road. Francis Klein & Co. (Bombay) Ltd.—Shale Building, Bank Street, Fort.

Gammon India Private Ltd.—Hamilton House, Ballard Estate, Bombay 1.

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General Radio & Appliances Ltd.—16, New Queen's Road, Bombay 4.

Geta Bros. & Co.—Western India House, Sir Phirozshah Mehta Road, Fort.

Gladwyn & Co.—251, Hornby Road, Fort, Bombay 1.

Glenfield & Kennedy, Ltd.—198, Jamshedji Tata Road, Bombay.

Gogal & Co.—232, Hornby Road, Fort, Bombay 1.

Gohil & Co., K. R.—41, Advani Chambers, Sir Phirozshah Mehta Road, Fort.

Greaves Cotton & Co., Ltd.—1, Forbes Street.

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Hindustan Industrial Corporation.—12-A, Nanabhai Lane, Flora Fountain, Fort.

HUNS ENGINEERING WORKS.—11, Cawasji Patel Street, Bombay 1. Phone: 255223. Grams: "HUNSGEAR."

India Engineering Works.—Hamam Street, Fort.

India General Engineering Co. Private Ltd.—Manu Mansion, 3rd Floor, 16, Old Custom House Road, Fort, Bombay.

India Machinery Stores.—163, Nagdevi Cross Lane, Bombay 3.

Indian Textile Engineers, Ltd.—143, Meadows Street, Fort.

Indo-Berolina Ind.—Ivt. Ltd.—Victoria Building, Parsee Bazar Street, Fort, Bombay.

Indo-Bobbins Textiles Co., Ltd.—Jan Mansion, Sir Phirozshah Mehta Road.

Indo-European Machinery Co.—Sambava Chambers, Sir Phirozshah Mehta Road.

Industrial & Engineering Combine.—"Commonwealth"—Flat B/1, Foreshore Road, Opp. Nariman Point, Bombay 1.

Industrial Machinery Agencies.—17, New Queen's Road, Bombay 4.

Industrial Products Ltd.—7-10, Elphinstone Circle, Fort.

Industrial Stores Co.—Sekarai Chambers, 139, Meadows Street, Fort.

Ingersoll-Rand (India) Ltd.—Devkaran Nanji Building, 17-B, Elphinstone Circle, Fort.

INTER-CONTINENTAL TRADING CORPORATION.—G.P.O. Box No. 1345, Bombay 1. Phone: 37572. Grams: "MAS-CHINIMP." Importers of Machinery & Industrial Equipment.

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Jacks, William, & Co., Ltd.—Hamilton House, Graham Road.

JAIRAMDAS & SONS.—163, Narain Dhuru Street, Bombay 3. Phone: 29020. Grams: "JAIRAMDAS."

James Tools & Hardware Co.—109-111, Nagdevi Street, Bombay 3.

Janak Engineers.—4th Floor, Lentin Chambers, Dalal Street, Fort, Bombay 1.

JAWARMAL GULABCHAND.—12, Rampart Row, Fort, Bombay 1. Phone: 253167. P.O. Box No. 1883. Grams: "MANAS-GANGA." Ball Bearing and Machinery Merchants and Manufacturers of J. G. Baby Oil Expellers.

Jay Bharat Engineering Co.—35, Apollo Street, Fort, Bombay 1.

Jayashankar Nathalal & Co.—5, Ali Chambers, Tamarind Lane.

Jayems Engineering Co.—Warden House, Sir Phirozshah Mehta Road.

Kallandas Jagmohandas & Sons.—9, Ali Chambers, Tamarind Lane.

Kamalahanker, P. Joshi.—72-80, Nagdevi Cross Lane, Bombay 3.

Kamani Engineering Corp. Ltd.—Kamani Chambers, Ballard Estate, Bombay.

Kanaka Corporation.—163, Nagdevi Cross Lane, Bombay 3.

Kayce Industries Ltd.—Kamani Chambers, Nicol Road, Ballard Estate. Phone: 25714.

Khemka & Co. (Agencies) Private Ltd.—Vulcan Insurance Bldg., 202-A, Veer Nariman Road, Bombay 1.

KHEMANDAS JAGUMAL & SONS (Estd. 1910, Sind).—12, Hornby View Building, Gunbow Street, Fort, Bombay 1. Phone: 26-1681. Grams: "EXPOCORP." Engineers and Machinery Merchants; Specialists in Diesel Engines & spares, Fuel Injection Equipment, Electric Motors, Small Engineering Tools, Workshop Machinery, Ball & Roller Bearings, Steel Shaftings, etc. Branch Office: Belan Gum (Agra), U.P.

Kumar Commercial Co.—Nadirshaw Sukhia Street, off Cawasji Patel Street, Bombay 1.

Kumar Trading Corporation.—29-31, Ropewalk Lane, off Forbes Street, Fort.

Kumudchandra & Co.—Examiner Press Building, Dalal Street, Fort.

Larsen & Toubro Ltd.—1. C. House, Dougall Road, Ballard Estate, Bombay.

Latham Abercrombie & Co. Private Ltd.—Forbes Building, Home Street, Fort.

Laxmi Engineering Works.—40, Khetwadi 10th Lane, Bombay 4. Phone: 70777.

Laxmi Syndicate.—4th Floor, Lentin Chambers, Dalal Street, Fort, Bombay.

Lee, H. E., & Co.—Windsor House, 138, Queen's Road, Bombay 1.

Linotype & Machinery, Ltd.—Botawalla Building, Elphinstone Circle, Fort.

MACHINE TOOLS & IMPLEMENTS.—83-85, Narayan Dhuru Street, Bombay 3. Phones : Office : 22885; Residence : 24243. Grams : "MAGTOOLS."

Machine Tools Traders.—Moti Mahal, Dhanji Street, Agiary Cross Lane, Bombay 3.
Mahindra & Mahindra Ltd.—Gateway Building, Apollo Bunder, Fort.

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Phone : 40135	BOMBAY 1.	Phone : 40682
Phone : 252348		

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MANOHAR BROTHERS.—4, Commerce House, Meadows Street, Fort, Bombay. Phone : 254496. Grams : "LOCOMOTIVE." Branch : 37, Errabala Chetty Street, Madras. Phone : 4274.

Marathe & Co.—Prospect Chambers, Hornby Road, Fort.
Marshall, Sons & Co. (India), Ltd.—Marshall Building, Ballard Estate, Fort.

Mata Lachhmi Co.—Hussaini Chambers, Nanabhai Lane, Fort.

Mather & Platt, Ltd.—8, Graham Road, Ballard Estate.

M. Daldas & Sons.—190, Princess Street.

Mehta, H. M., & Co.—Mehta House, 79-81, Apollo Street, Fort.

Mehta Parikh & Company.—45-47, Apollo Street, Fort.

MILLERS TIMBER & TRADING CO., LTD.—Victoria House, Victoria Road, Bombay 21.

Milling Trading Co.—105, Apollo Street, Fort, Bombay.

Mills Store Co., The.—48, Nagdevi Cross Lane, Bombay 3.

Minerva Machinery Corporation.—25, Apollo Street, Fort.

Modern Engineering Co.—107, Apollo Street, Fort.

Modern Machinery Co.—29, Dharamsi Street, Bhandi Bazar, Bombay.

Modern Machine Tools Co.—88, Nagdevi Cross Lane, Bombay 3.

Modern Mercantile Works.—Lotus Building, Hornby Road, Fort.

Mody Trading Co.—60, Nagdevi Cross Lane, Bombay 3.

Mohan & Bros., G.—Hassan Chambers, Parsee Bazar Street, Fort.

MUNSHI & CO. PRIVATE LTD.—181-83, Bapu Khote Street, Pydhewala, Bombay 3. Phone : 73589. Grams : "SPECIAL-DIE."

Nadirshaw & Bros.—Silver Talkies Building, Khetwadi Back Road, Bombay 4.

Narikelwala, B. P., & Sons.—101, Apollo Street, Fort.

National Electrical Industries Ltd.—Industrial Estate, Lalbaug, Bombay 12.

National Engineering Co.—9D, Sukhia Building, Nadirshaw Sukhia Street, Fort.

Neptune Traders.—24/26, Dalal Street, Fort, Bombay.

NEW ERA ENGINEERING CO.—128, Meadows Street, Fort, Bombay 1. Phone : 253482. Grams : "NEECOMOTOR." Importers & Stockists of Electric Motors, Generators, Starters, Switchgears, Pumps & Pumping Sets, Slippering Motors all sizes available.

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New Standard Engineering Co., Ltd.—222, Bellasis Road, Byculla, Bombay 8.

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Patel Engineering Co.—Rajababdur Compound, Hamam Street, Fort.

Perfect Machine Tools Co.—Bell Building, Sir Phiroozshah Mehta Road, Fort, Bombay.

Phiroa N. Motabhai & Co., Ltd.—Motabhai Building, 146, Meadows Street, Fort.

Photophone Equipments Ltd.—9, Marine Lines, Bombay.

Pioneer Engineering Co.—57, Apollo Street, Fort.

Pioneer Industries.—21, Forbes Street, P.O. Box No. 1909, Fort.

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Bombay 9.

Protos Engineering Co., Ltd.—173, Jamshedji Tata Road, Church-

gate, Bombay.

P. B. Patil & Co., Ltd.—Mherwan Building, Sir Phiroozshah Mehta

Road, Fort.

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Raj-Der-Kar & Co.—Commissariat Building, Hornby Road, Fort.

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Rasiklal, K., & Co.—Mehta Building, Meadows Street, Fort.

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Roberts McLean & Co., Ltd.—Ilaco House, Sir P. Mehta Road,

Bombay 1.

Roehat, H. L., & Co.—Navsari Building, Bastion Road, Fort.

Rowe & Rowe.—381, Hornby Road, Fort.

Royal Machinery & Trading Co.—4, Bell Lane, Fort, Bombay 1.

Ruston Engineering Co.—Mustafa Bldg., 2nd Floor, Sir Phiroozshah

Mehta Road, Fort.

S. A. KATYUM & CO.—Direct Importers of Tools, Rice Mill & Machinery Stores. 142, Sarang Street, (Near Crawford Market), Bombay 3. Phone : 29941. Grams : "HULLERPART."

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 Sethia, C., & Co.—59, Forbes Street, Fort.
 Shah Patel & Co.—109-111, Nagdevi Street, Bombay 3.
 Shree Vilay Trading Corporation.—71-73, Apollo Street, Fort.
 Shroff Bros. & Co.—4, Botawalla Building, 7-8, Elphinstone Circle.
 Sign India Service.—Kamali Building, 881, Hornby Road, Fort.
 Skoda (India) Ltd.—Himalaya House, Palton Road, Bombay.
 Smith, F. L., & Co. (Bombay), Ltd.—Cambata Building, 42, Queen's Road.

Sivramkrishnan, M.—Hazi Mansil, 82-86, Abdul Behman Street, Bombay 8.

Solanki Iron & Steel Works.—Bhoris Chawl, Grant Road.
 Somani & Company Ltd.—Mahta Building, Meadows Street, Fort.

Sonal Rangnow & Co.—41, Hamam Street, Fort, Bombay 1. Exporters and Importers. Phone: 22166.

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Tarachand Gupta & Bros.—Narayan Dhuru Street, Bombay 3.

Techno Industrial Co.—107, Sir Vithaldas Chambers, 16, Apollo Street, Fort.

Textile Machinery Corporation Ltd.—254A, Annie Besant Road, Worli.

Textile Supplies Syndicate (India) Ltd.—India House, opp. G.P.O., Bombay 1.

Textile Works Ltd.—49/55, Apollo Street, Fort.

Thos. W. Ward (India) Ltd.—Marshall Building, Ballard Road, Ballard Estate, Fort.

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Trinity Electric Syndicate.—Princess Street.

TROPICAL ENGINEERING CO.—27, Forbes Street, Fort, Bombay. Grams: "TROPENCO." Importers of and Stockists in Electric Motors, Generating Sets, Turbines, Locomotives, Stone Crushers, Road Rollers, etc.

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Tulidas Vora & Co.—Hasmukh Villa, Chandavarkar Road, Bombay 19.

Turner, Hoare & Co., Ltd.—Gateway Building, Apollo Bunder, Bombay.

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Vadilal, H., & Co.—13, Tamarind Lane, Fort.

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Western Engineering Co.—Western India House, Sir Phirozshah Mehta Road, Fort.

Western Textile Corporation.—Prospect Chambers Annex, Hornby Road, Fort.

William Jacks & Co., Ltd.—Ballard Estate, Bombay 1.

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Indian Stone & Marble Work.—2nd Pasta Lane, Colaba, Bombay 5.

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Parikh, R., & Co.—Elphinstone Building, Churchgate Street, Fort, Bombay 1.

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Raval & Co.—21, Bank Street.
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Sajan & Co.—18, Custom House Road, Fort, Bombay.
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KALA INDUSTRIES (BOMBAY).—84/86, Nagdevi Cross Lane, Bombay 3. Phone: C/o 39011.
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HIND HARDWARE STORES.—Pirbhoy Building No. 1, Lohar Chawl, Bombay 2. Phone: 29004. Grams: "AGEKADUM." Wire Merchants.

I.C.I. (India) Private Ltd.—P. B. No. 310, Bombay 1.

INDIA METAL TRADERS.—92/94, Kika Street (Gulawadi), Bombay 4. Manufacturers of Non-ferrous metals, wires, Bars, Strips Sections for Mechanical and Electrical Industries. Phone: 73525. Grams: "METALDRAW."

INDIAN SMELTING & REFINING CO., LTD., THE.—"Industry House," 159, Jamshedji Tata Road, Churchgate Reclamation, Bombay 1.

INDIAN STANDARD METAL CO., LTD.—Chinchpokli Cross Lane, I.S.M. Estate, Bombay 27. Phone Nos. 42205 & 75018. Grams: "IMMETCO."

JAFUR METALS & ELECTRICALS LTD.—Kamani Chambers, Niccol Road, Ballard Estate. Phones: 58-1744 (5 lines). Manufacturers of Hard drawn bare electrolytic Copper Conductors, Cadmium Copper Conductors, House Service Meters, Gun Metal, Phosphor Bronze, Tin Solder, White Metal and other non-ferrous metal alloys, Arsenical Copper Rods, Copper Strips. Also Importers of Copper and other non-ferrous Metals, Component Parts of House Service Meters, etc. Managing Agents: Peenamchand and Brothers Private Ltd.

James Tools & Hardware Co.—109-11, Nagdevi Street, Bombay 3.
 Jayant Metal Manufacturing Co.—152, Kanji Goolaldas Building, Lohar Street, Bombay 2.

KAMANI METALS & ALLOYS LTD.—Manufacturers of Brass, Copper, Phosphor Bronze and Zinc Sheets and Strips, Coils for Industrial and Commercial purposes. Agra Road, Kurla (North), Bombay 37. Phone: 67964 (3 lines).

Lallubhai Kalidas.—136, Jamli Mohola, Bombay 3.

Phone: 22825

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Wholesale & Retail Dealers in:
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SHEETS, STRIPS, RODS, PIPES, WIRES
 in any gauge with Standard Sizes

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METAL DISTRIBUTORS PRIVATE LTD.—12-16, Vithalbhai Patel Road, Bombay 4. Importers, Exporters and Indentors of Metals Virgin & Scrap. Phones: 73318 and 73390. Grams: "DEHATUBANA." Head Office: 38, Strand Road, Calcutta. London Associates: Metal Distributors (U.K.) Ltd., 13/14, King Street, London E.C. 2.

METALLICA WORKS PRIVATE LTD.—11, Worli Road, Bombay 16. Phones: 75432, 75433, 75434. Makers of Non-Ferrous Metals, Castings, Machinings, Anodes, Lead Linings of Acid Resisting Containers.

MOHANLAL RAMANLAL POONAWALLA.—32, 2nd Bhoiwada, Bombay 2. Phones: 73627 & 72069. Grams: "METAL-TRADE."

Molooobhoy, Ahmed S., & Sons.—281, Nagdevi Street.
 Oriental Metal Pressing Works.—131, Worli, Bombay 18.
 Ramesh Trading Corporation.—17, Nagdevi Street, Bombay 3.

RASHTRIYA METAL INDUSTRIES LTD.

Regd. Office & Factory:

KURLA ROAD, P.O. J.B. NAGAR, BOMBAY 43.

Phone: 86188 Grams: "SARWAPPYAPI," BOMBAY

Manufacturers of: Antifriction Bearing Metal, Brass, Bell Metal, Gunmetal, Phosphor Copper, Phosphor Bronze, Lead Bronze, Tin Solder, Type Metals and other alloys; Sheets and Circles of Brass, Copper, Aluminium; Sheathings of Brass and Copper; Lead Sheets; Aluminium and Brass Utensils; Ferrous and Non-ferrous Castings; Machinery Parts and Spares, etc., etc.

IMPORTERS OF: Aluminium, Brass, Copper, Lead, Zinc, Tin, etc.—Virgin and Scrap.

MANAGING AGENTS:

PRAGDAS MATHURADAS (BOMBAY) PRIVATE LTD.

Reliance Trading Co.—25/47, Lohar Street, Bombay 2.
Sanghvi & Sons.—20, Kansara Chawl, Kalbadevi Road.
Standard Metal Works.—17, Falkland Road, Low Level, Tardeo.
Tarkar, B. A.—Mumbadevi, Kansara Chawl, Kalbadevi, Bombay 2.
Trade (India) Corporation.—58, Mohamedalli Road, P.O. Box No. 3231, Bombay.

Tirathdas Kotumal.—107, Narayan Dhuru Street, Bombay 3.
United Mill Stores (India).—(Estd. 1943), P.B. No. 3256, 93, Narayan Dhuru Street, Bombay 3.

Vasantlal Dadilal & Co.—215-17, Samuel Street, Vadgadi.

VASUDEV & COMPANY.—48, Bibijan Street, Bombay 3.
Phone: 20677. Grams: "VASUMETALS." Dealers in Ferrous & Non-Ferrous Metals, i.e., Tubes, Rods, Strips, Sheets, Wires and all kinds of Factory requirements.

Vishwa Bharati Trading Co.—14, Kumbhta Street, Ballard Estate, Bombay 1.

VYAS BROTHERS.—Manufacturers of Traction & Signalling Materials, Loco Parts, Carriage & Wagon Fittings, Copper Conductors, Arsenic Copper Rods, Hot Dip Tinned Copper Wires, T.C. Fuse Wires, Valves & Cocks, Non-Ferrous Castings a speciality. 68, Tamba Kanta, Bombay 3. Phone: 70187. Grams: "CUPROCABLE." Factory: Bombawadi, Katargam, Surat. Phone: 845.

MICROSCOPES

Gordhandas Desai Private Ltd.—Kermani Bldg., Sir P. M. Road, Bombay 1.

PIONEER EQUIPMENT CO. PRIVATE LTD.—139, Meadows Street, P.O. Box 1908, Bombay 1. Phone: 23-1832. Also at 1, Mangoe Lane, Calcutta 1. Phone: 231611; and 193, Mount Road, Madras 2. Grams: "PIOMETAL." Agents in India for Messrs. Cooke Troughton & Simms Ltd., U.K. Famous Manufacturers of "VICKERS" Projection Microscopes. Also Microscopes of all types.

MILITARY AND GOVERNMENT CONTRACTORS

Chadha, B. M., & Co., Ltd.—Jan Mansion, Sir Phirozshah Mehta Road, Fort, P. O. Box No. 671, Bombay.

Chandulal Narandas.—96, Kika Street, Bombay 4.

Crescent Supplying Co.—Cama Building, 24-26, Dalal Street, Fort.

Edgar Handley & Co.—Seksaria Chambers, 130, Meadows Street, Fort.
Herman & Mohatta, B. E., Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort.

Hindustan Tools & Hardware Mart.—126, Lohar Chawl, Bombay 2.

India Goatskin Corporation Ltd.—Dharavi, Bombay 17.

India Timber Trading Co.—Mustafa Building, Sir Phirozshah Mehta Road, Fort.

Indian Commercial Co.—86, Sarang Street (Bhusari Mohalla), Bombay 3. Phone: 30885.

JAIRAMDAS & SONS.—163, Narayan Dhuru Street, Bombay 3.
Phone: 29020. Grams: "JAIRAMDAS."

KANJI GOVIND KERSON.—Managing Director: The Kalyan Electric Supply Co., Ltd., K. R. K. Manse, Murbad Road, Kalyan. Phone: No. 1 Kalyan and No. 263914, Bombay.

Khambati & Co., G. L.—437, Katha Bazar, Bombay 9.

Kooverji Devshi & Co.—164, Lohar Street.

Mackenzies Ltd.—Sewri.

National Hardware & Stores Supply Co.—Post Box No. 3146, Bombay 3. Phone: 33462. Grams: "REQUISITES."

NEW INDIA HARDWARE MART.—102, Narayan Dhuru Street, Bombay 3. Phone: 30665. Grams: "FREE TRADE."

Spring Co.—Next to Ismailia Co-operative Bank Ltd., Sandhurst Road East, Bombay 9.

Swastik Rolling Shutters & Engineering Works.—Opp. C. Rly. Parcel Station, Bombay 12. Phone: 62041. Grams: "SWASTIK-ROL."

VASUDEV & COMPANY.—48, Bibijan Street, Bombay 3.
Phone: 20677. Grams: "VASUMETALS." Dealers in Ferrous and Non-Ferrous Metals i.e., Tubes, Rods, Strips, Sheets, Wires and all kinds of Factory requirements.

MILL AND GIN STORE SUPPLIERS

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3.
Phone: 20990. Grams: "ALERTDEAL."

Acme Manufacturing Co., Ltd.—Construction House, Witlet Road, Ballard Estate, Fort.

Adamally Sons Ltd.—277, Nagdevi Street, Bombay 3.

Adamji Kaderbhoy.—337, Katha Bazar, Bombay 9. Stockist of Head Cord, Dubby Twine, etc.

Adarsha Trading Corporation.—Ismail Building, 2nd Floor, Room No. 9-H, 381, Hornby Road, Fort, Bombay. Phone: 32404.

Agarwal Commercial Corp.—35, Bibijan Street, Nagdevi, Bombay 3.
Phone: 30041. Extn. 11. Grams: "HACKSAW". Stockists of

Engineering Tools, Hardware & Mill Gin Stores.

Alladin Virjee Nathani.—Darukhana, Masegaon, Bombay 10.

Allied Exporters.—Kumud House, 267, Hornby Road, Fort.

Altex Private Limited.—147, Esplanade Road, Fort.

Apollo Engineering Co.—84, Apollo Street, Fort.

Ardeshr D. Wadia & Sons.—93, Apollo Street, Fort. Importers of

"V" Tex Ropes Drives, Clutches and Gearing.

ARVINDA TRADING CO. PRIVATE LTD.—Importers and Manufacturers' Agents, 105, Apollo Street, Fort, Bombay.
Phone: 251013. Grams: "RADIANT." Managing Director: R. P. Patel.

Asave Mehta & Co.—24-B, Raja Bahadur Compound, Hamam Street, Fort.

Asbok Engineering Co.—24, Noble Chambers, Parsi Bazar Street, Fort. Tel. No. 31445. Grams: "Revolution."

Associated Machine & Tool Co.—130, Meadows Street, Fort.

A. VALLENDAS & SONS.—37, Nagdevi Street, Bombay 3.
Phone: 34261. Grams: "GINSFARE". Importers and

Exporters, mill gin Stores, Hardware, Pipe fittings, Bolts,

Nuts and Rivets.

Baker, A. M., & Co.—218, Nagdevi Street.

Balkrishna & Bros.—71, Nagdevi Street.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

BELTEX PRIVATE LTD.—Managing Agents: Karaka & Co. Head Office: Ellis Bridge, Ahmedabad 6. Phones—Office: 7205; Works: 5239. Grams: "LEATEX", Ahmedabad.

Manufacturers of Leather Beltings, Buffers, Picket Screws, Check Straps, Check ends, Laces, and other Sundry Loom

Fittings. Sole Manufacturers of "OLIVE BRAND" Picking Bands. Bombay Branch: 43, Tamarind Lane, Bombay 1.

Phone: 251501. Grams: "RUSHNABAND", Bombay.

Bhagvandas Chhatrabhuj & Co.—20, Hamam Street, Fort.

Bharat Electric & Engineering Corporation.—23, Apollo Street, Fort.
Bharat Industrial Co.—77-79, Nagdevi Cross Lane, Bombay 3.

Phone: 24455. Grams: "TRUESERVICE."

Bhatnaga, B. N., & Co.—100, Nagdevi Street.

Bhogilal Shah & Co.—Mehta Building, Meadows Street, Fort.

Bhukhanvala & Sons.—Meadows House, Meadows Street, Fort.

Birla Bros., Ltd.—Imperial Bank Annex, Bank Street, Fort.

B. N. Trivedi & Co.—13, Hamam Street, Fort.

Bombay Burma Hardware Store.—128, Nagdevi Street, Bombay 3.

Bombay Machine Store Co., The.—Laxmi Building, 43, Nagdevi Cross Lane, Bombay 3.

Bombay Metal Products Co.—86, Kandewadi, Bombay 4.

Bombay Mill Stores Supplying Co., Ltd.—Western India House, Sir Phirozshah Mehta Road, Fort.

Bombay Pulley Marketing Co.—30, Nagdevi Cross Lane, Bombay 3.
Phone: 24977.

Bombay Tools Supplying Agency.—50, Nagdevi Cross Lane, Bombay 3.

Brady, W. H., & Co., Ltd.—Royal Insurance Building, Churchgate Street, Fort.

Bright Bros. Private Ltd.—156-A, Tardeo Road, Bombay 7. Manufacturers of Plastic Bobbins, Pins, etc. for Textile Industry.

Agent: T. Smith, 32, Altamont Road, Bombay 26.

British Mill Stores Co.—Sir Vithaldas Chambers, Bruce Street, Fort.

C. Bole & Co.—75, Nagdevi Cross Lane, Bombay 3.

C. R. Contractor & Co.—82, Nagdevi Cross Lane, Bombay 3.

Central Machine Tools Agency.—43, Nagdevi Cross Lane, Bombay 3.

Central Tool & Equipment Co.—32, Sarang Street, Bombay 3.

Chadha, B. M., & Co., Ltd.—Jan Mansion, Sir Phirozshah Mehta Road, Post Box No. 671, Bombay.

Champaklal Morarji & Co.—192, Samuel Street, Vadgadi, Bombay 9.
 Chandulal & Co., Lakhwala.—512, Samuel Street, Vadgadi.
 Chhabildas & Co.—78-A, Abdul Rehman Street.
 Chimanlal Desai & Co.—Gool Mansion, Homji Street, Fort, Bombay 1.
 Chokshi, H., & Co.—106, Meadows Street, Fort.
 Collinson & Co., Ltd.—Standard Building, Hornby Road, Fort.
 Commissariat, H. M., & Co.—7, Elphinstone Circle, Fort.
 Consolidated Mill Supplies, Ltd.—Co-operative Insurance Building, Sir Phiroosah Mehta Road.
 Continental Trading Syndicate.—23, Apollo Street, Fort.
 Cooper & Co.—59, Abdul Rehman Street.

CRESCENT TOOLS CORPORATION.—112, D'Souza Street, Bombay 3. Phone: 34880. Grams: "DEANMOE." Direct Importers & Stockists of Ball & Roller Bearings, Shaftings, Beltings, Hardware Materials, Woodworking, Tools, etc.

C. VADILAL & CO.—40, Nagdevi Cross Lane, Bombay 3. Phone: 36113. Grams: "GREASECUP."

Damania & Co.—25, Bank Street, Fort.

DARUWALLA, M. W., & CO.—Dealers in all kinds of Mill Stores. 32, Apollo Street, Fort. Phone No. 25215. Tel. Address: "TALLOW."

Das & Co.—Das Chambers, Dalal Street, Fort, Bombay.
 Devian Agencies.—42, Prospect Chambers Annex, Hornby Road, Fort.

Desai, M. S., & Co.—77, Nagdevi Cross Lane, Bombay 7.
 Dewanchand Nikkamall & Co.—126, Narayan Dhuru Street, Bombay 3.

Dhirajlal Morarji.—37-A, Sarang Street, Bombay 3.
 Dinshaw Master & Co., Ltd.—247, Nagdevi Street.
 Divan Bros.—51, Nagdevi Street, Bombay 3.
 Dulabhdas, P., & Co.—Samuel Street, Vadgadi.
 Duncan Stratton & Co., Ltd.—6, Bank Street, Bombay 1.
 Dwarkadas Khetan & Co.—139, Meadows Street, Fort.

EASTERN COMMERCIAL TRADING CO.—R. K. Bldg. No. 3, Khotwadi Eighth Lane, Bombay 4. Phone: 71447. Grams: "ALLSUPPLY."

Eastern Stores & Trading Co.—115-A, Nagdevi Street.

EDGAR HANDLEY AND COMPANY PRIVATE LIMITED.—135, Meadows Street, Fort, Bombay. Phones: 253948 and 253934. Grams: "TROJAN."

Ekhel & Co.—Lucky Mansion, Mahomedally Road, Bombay 3.
 Empire Trading Co., The.—76-A, All Chambers, Tamarind Lane, Fort.

ENGINEER BROS.—16, Apollo Street, Fort, Bombay. Phone: 251009. Grams: "SHRIJIBAVA." Importers of Textile Mill Machinery Accessories.

Engineer, Eruch D., & Co.—Crossley House, Apollo Street, Fort.
 Engineering & Agencies Ltd.—Dena Bank Building, Elphinstone Circle.

Eusally Adamji & Co.—124, Nagdevi Street.

EXCELSIOR COMMERCIAL CORPORATION.—116, Sarang Street (Khoka Bazar), Bombay 3. Phone: 20463. Grams: "BIGSALES." Shaftings, High Speed Carbon and Tool Steels, Ebonite Sheets and Rods, Rubber Hoses, Tubings, Beltings, etc.

Excelsior Mill Supply Co.—All Chambers, Meadows Street, Fort.
 Express Commercial Corporation.—Nagdevi Cross Lane, Bombay 3.
 Fulabhai & Company.—134, Meadows Street, Fort, Bombay.
 Gannon Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.

General Trading Corporation.—36-B, Tamarind House, Tamarind Lane, Fort.

General Tube Ltd., The.—142-44, Nagdevi Street, Bombay 3.

General Stores Co.—154, Narayan Dhuru Street, Bombay 3.
 Geta India Ltd.—Western India House, Sir Phiroosah Mehta Road, Fort.

Ghia, M. C., & Co.—Raja Bahadur Motilal Mansion, 28, Apollo Street, Fort.

GIN STORE COMPANY.—76, Nagdevi Street, Bombay 3. Phone: 20618. Grams: "GOODLUCK." Direct Importers & Stockists of Engineering Stores, Mill gin Stores, Pipes & Boiler Fittings, Tools & Hardware, Bolts, Nuts & Screws, Machinery, etc.

Girdharilal Dipchand Mehta & Co.—5, Manaji Rajuji Building, Bhandari Street.

Great Eastern Trading Co.—107, Cowasji Patel Street, Fort.

Greaves Cotton & Co., Ltd.—Forbes Street, Bombay 1.
 Greentone Corporation (India).—Cama Buildings, 24-26, Dalal Street, Fort.

Gujarat Mill Store Co.—Kirti Building, Forbes Street.
 Gulamhusain M. Hasanali.—55/1, Sarang Street, Bombay 3.
 Haderbhoy Esamaiji & Co.—168, Nagdevi Street, Bombay 3.
 Harchandani Sons.—229, Masjid Bunder Road, Bombay 3.
 Harcourt, Wand & Co., Ltd.—Albee Building, Hornby Road, Fort.
 Harjimal Kidarnath & Co.—87, Nagdevi Cross Lane, Bombay 3.
 Hazarat & Co.—People's Building, Sir Phiroosah Mehta Road, Fort.

HEMANT TOOLS TRADING CO.—33, Bibijan Street (Barbhai Mohalla), Bombay 3. Grams: "LACING." Phone: C/o 23572.

Herman & Mohatta, B. R., Ltd.—People's Building, Sir Phiroosah Mehta Road, Fort.

Hindustan Engineering Co. (Machinery Dept.).—25, Ropewalk Street, Fort, Bombay 1.

Hindustan Tube Company.—163, Nagdevi Cross Lane, Bombay 3.

Hiralal Gekuldas Dalal & Co.—45, Nagdevi Cross Lane, Bombay 3.

Hiralal, T. Co.—72-80, Nagdevi Cross Lane, Bombay 3.
 Hoosain & Bros., M. A.—Lakshmi Building, Sir Phiroosah Mehta Road, Fort.

Imperial Trading Syndicate.—Podar Chambers, 54, Parsi Bazar Street, Fort.

INDIA TRADING CORPORATION.—Commerce House, Meadows Street, Fort, Bombay 1. Phone: 254483. Grams: "SIGTIA."

Indian Commercial Agency.—Regd. Office: Rahimtoola House, 7, Homji Street, Fort.

Indian Commercial Co.—86, Sarang Street (Bhusari Mohalla), Bombay 3. Phone: 30885.

Indian Stores Trading Co.—Sir Vithaldas Chambers, 10, Apollo Street, Fort.

Indo-Bobbins & Textile Co., Ltd.—Jan Mansion, Sir Phiroosah Mehta Road, Fort.

Indo-Bombay Trading Co.—34, Nagdevi Street.

Indo-British Chemical Co.—Raja Bahadur Mansion, Tamarind Lane, Fort.

Indo-British Trading Bureau.—7/10, Elphinstone Circle, Fort.

Indo-Commercial Co., Ltd.—Hamam House, Hamam Street, Fort.

Indo-Textile Stores, The.—16, Apollo Street, Fort, Mill & Gin Stores Suppliers and Specialists in Shuttles, Reeds and Leather Goods. Phone: 255261. Grams: "ALLTRADCO." Sole selling Agents for India for: Tamamura Shuttle Mfg. Co., Japan (for Nick Shuttles) and Osaka Shuttle Mfg. Co., Japan (for Automatic Shuttles).

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Industrial Engineering Co.—45-47, Apollo Street, Fort.

Industrial Leather Co., Ltd., The.—9, Ash Lane, Fort.

Industrial Machine & Tools Co.—347, Lamington Road, Bombay 7.

Industrial Stores Agency.—59, Forbes Street, Fort.

Industrial Stores Co.—Seksaria Chambers, 139, Meadows Street, Fort.

Industrial Syndicate.—Lentini Chambers, Dalal Street, Fort.

Industrial Textile Stores.—55-57, Nagdevi Cross Lane, Bombay 3.

Industrial Textile Stores Co.—7-10, Elphinstone Circle, Fort.

Industrial Trading Agency.—Tamarind House, Tamarind Lane, Fort, Bombay.

Ishverdas Jugmohandas & Co.—Mubarak Manzil, Apollo Street, Fort

J. Champaklal & Co.—44, Nagdevi Cross Lane, Bombay 3.

Jagmohandas Shamaldas & Sons.—11, Tamarind Lane, Fort.

Jalram Jadhavji & Sons.—74, Nagdevi Cross Lane, Bombay 3.

JAIRAMDEAS & SONS.—163, Narain Dhuru Street, Bombay 3. Grams: "JAIRAMDEAS." Phone: 29068.

James Tools & Hardware Co.—109-11, Nagdevi Street, Bombay 3.

Jamnadas Chaturbhuj & Bro.—92, Vithalwadi, Bombay 2.

Jashwantlal Manecklal & Co.—97, Nagdevi Street, Bombay 3.

Jashwantlal Nathalal & Co.—5, All Chambers, Tamarind Lane, Fort.

Javeri Traders.—P.O. Box No. 1977, 34, Cawasji Patel Street, Fort.

Jhaveri Brothers.—149, Shroff Bazar, Bombay 2.

JIVARAJ & VRAJLAL.—122, Nagdevi Street, Bombay 3. Phone No. 36136. Grams: "SAMIPIPE."

J. KRUSHALDAS & CO.—77-79, Nagdevi Street, P.O. Box No. 3235, Bombay 3. Phone: 36512. Grams: "JEKRUSHAL."

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Kamalaahankar P. Joshi.—72/80, Nagdevi Cross Lane, Bombay 3.

Kanchan Brothers & Co.—45/47, Apollo Street, Fort.

Kantilal Bhogilal & Co.—Nagdevi Cross Lane.

Khusaldas, J., & Co.—77, Nagdevi Street.

KIRTILAL & CO.—31, Bibijan Street, Barbhai Mohalla, Bombay 3. Phone: 23572. Grams: "PIPEWRENCH." Mill Gin Store Suppliers and Hardware Merchants.

Kishor Trading Co.—145, Narayan Dhuru Street, Bombay 3.

Koovari Devshi & Co.—164, Lohar Street, Bombay.

K. RASIKLAL & CO.—Mehta Building, Meadows Street, Fort, Bombay. Phone: 254313. Grams: "KRASICO."

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Lewis & Tylor (India) Ltd.—Sorab House, 237, Dr. Dadabhai Naoroji Road, Bombay.

L. M. & Bros.—Eagle Wadi, near New Mills, Kuria.

Mangaldas & Sons.—Lentin Chambers, Dalal Street, Fort, Bombay.

Maganbhai Amin & Co.—108, Apollo Street, Fort.

Mahendrarai Textile Stores Co.—Sir Vithaldas Chambers, 16, Apollo Street, Fort.

Mangaldas Jesingbhai & Co.—49, Tamarind Lane, Fort.

Mangaldas & Sons.—Lentin Chambers, Dalal Street, Fort.

Manilal, R. & Co.—Victoria Building, Parsee Pazar Street, Fort, Bombay.

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Mayashanker Thacker & Co.—65, Apollo Street, Fort.

Mehta & Co., S.—Anees Chambers Annexe, Carnac Road, Bombay 1.

Mehta Brothers.—Hamam House, Hamam Street, Fort.

Mehta Bros. & Co.—78, Apollo Street, Fort.

Mehta, H. P. & Co.—112, Nagdevi Street, Bombay 3.

Mehta Nansavaty & Co.—Barbhai Mohalla, 96, Narayan Dhuru Street, Bombay 3.

Mehta Textile & Hardware Stores.—158-160, Narayan Dhuru Street, Bombay 3.

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Wire Brushes, Acid-Alkali proof
Industrial Rubber Hand Gloves and
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Mills Store Co., The.—43, Nagdevi Cross Lane, Bombay 3.

Mill Stores Trading Co., of India Ltd.—Mehta House, 79-91, Apollo Street.

Minerva Engineering Stores.—76, Nagdevi Street.

Modern Mill Stores.—97, Nagdevi Street, Bombay 3.

Modern Shuttle Manufacturing Co., Ltd.—15, Forbes Street, Fort, Bombay.

Mody Trading Co.—163, Nagdevi Cross Lane, Bombay 3.

Muljibhai Chhotalal & Co.—76-78, Nagdevi Street, Bombay 3.

Nanavati & Co., Ltd.—16, Apollo Street, Fort.

Narandas G. Bhatia & Bros.—167, 5th Cavei Cross Lane, Galwadi, Bombay 2.

Narandas Ranchhoddas & Co.—93, Nagdevi Cross Lane, Bombay 3.

Naridwala, B. P. & Sons.—101, Apollo Street, Fort.

Narotandas Chunilal & Co. (Estd. 1903).—51, Tamarind Lane, Fort, Bombay.

National Commercial Corporation, Ltd.—251-53, Hornby Road, Fort.

Telephone: 39123

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N. KINHOKE & CO.—39, Pedar Chambers, Parsee Basar Street, Fort, Bombay. Phone: 254984. Grams: "KISHORECO." Textile Stores & Accessories. Direct Importers & Stockists of Pirms, Pickers, Sundries & Shuttles for Automatic Looms, Flanges, Bobbins, Indian Shuttles, Bands, Card Cans, Copper Rollers, Ordinary Loom Sundries, Everest Brand Inserted Eyes, Wire Healds, Branch Offices: Relief Road, Ahmedabad and 12/3, Fraser Square, Coimbatore.

N. MOHANLAL & CO.—124, Nagdevi Street, Bombay 3. Phone: 27545. Grams: "JEPBELT."

Noble Mill Stores Co.—Western India House, Sir Phirozshah Mehta Road, Fort.

Noble Trade Co.—141, Nagdevi Street, Bombay 3.

Ochhavial, R. & Co.—86, Nagdevi Street, Bombay.

ORIENTAL MILL SUPPLY CO. PRIVATE LTD.—29/A, Mill Chambers, Dean Lane, Fort. Phone: 252428. Grams: "OMILLCO."

Orion Trading Co., Ltd., The.—Opp. Round Temple, Sandhurst Road, Bombay 4.

Ormerods (India), Ltd.—Bank of Baroda Building, Apollo Street, Fort.

PANALLAL MOHANLAL & CO.—89, Nagdevi Street, Bombay 3. Direct Importers of Copper, Brass, Galvanised Black Pipes & Fittings and Gun Metal Fitting & Valves. Phone: 30211.

Paper Agents Ltd.—250, Sheldkh Memon Street, Bombay 2.

Paramount (India) Ltd.—Kermani Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.

PARAMOUNT TEXTILE AGENCY.—Importers & Manufacturers' Agents. Speciality in Textile Leather goods. 45/47, Apollo Street, Fort, Bombay. Phone: C/o 254584. Grams: "BHOPO", Bombay. Head Office: Haridas Acharatal Market, Kapasia Bazar, Ahmedabad. Phone: 4742. Grams: "PARATEX", Ahmedabad.

Paramount Traders.—Noble Chambers, 1st Floor, Parsee Basar Street, Fort, Bombay.

Parikh Bros.—Sangli Bank Building, Behind Reserve Bank, 296, Bazargate Street, Fort, Bombay.

PARKEKH TRADING CO.—48, Nagdevi Cross Lane, Bombay 3. Phone: 34723. Grams: "DIGNITY." Importers & Stockists of Engineering Stores, Tools & Abrasives. Branch: 59, Bibijan Street.

Parikh Brothers & Co.—45-47, Apollo Street, Fort.

Parikh & Parikh.—11, Dean Lane, Fort, Bombay. Mill Gin Store Suppliers.

Patel, U. D., & Co.—11, Bank Street, Fort.

Patel, P. R., & Co., Ltd.—Mherwan Building, Sir Phirozshah Mehta Road.

Phiros N. Motabhai & Co., Ltd.—Motabhai Building, Corner of Medows and Forbes Streets, Fort, Bombay.
P. Ratilal & Co.—43, Dhanji Street, Bombay 3.

PICKERS LIMITED.—Manufacturers of Quality Pickers of all sizes and descriptions, 43, Tamarind Lane, 4th Floor, Fort, Bombay. Head Office: Ellis Bridge, Ahmedabad 6. Grams: "COWIE." Bombay & Ahmedabad. Bombay Office Phone No. 251801.

Pioneer Hardware & Engineering Corporation.—Sangli Bank Building, 296, Bazargate Street, Fort, Bombay. Phone: 34394.

Pioneer Magnesia Works, Ltd., The.—Chartered Bank Building, Mahatma Gandhi Road, Fort.

Pioneer Traders & Ball-Bearing Co.—154, Kadakia Mansion, Narayan Dhuru Street, Bombay 3.

PREMIER MACHINERY STORES CO.—86, Nagdevi Street, Bombay 3. Phone: 39472. Grams: "DOUBLEGINS." Specialists for Cotton Gins, Spare Parts and Stockists of Hardware and Tools.

Printer, D. P. & Co.—1, Bruce Street, Fort.

PUNEGER, N. E. & CO.—Boiler, Economiser, Steam Plant Solutions and Paints Specialists. Union Bank New Building, Dalal Street, Fort, Bombay 1. Phone No. 253176. Telegrams: "ACMECOMPO." Bombay.

Purbottamdas, A. H.—36, Lentin Chambers, Dalal Street, Fort. Radiant Mill Stores Co.—106, Medows Street, Fort.

R. C. Traders.—Lentin Chambers, Dalal Street, Fort, Bombay.

RAMESH TRADING CORPORATION.—Industrial House, 51/53, Nagdevi Cross Lane, Bombay 3. Phone: 39489. Grams: "RAMESHCO." Importers & Stockists of Ball-bearings & Roller-bearings, Suppliers of Mill Gin Stores, Hardware and Tools and Rubber Beltings.

P. RATILAL & CO.

Moti Mahal, 43, Dhanji Street, Bombay 3

Importers and Dealers of:
BLUE-STAR V-BELTS

Ball-Bearings & Shaftings; Asbestos & Rubber Goods; Beltings; Crucibles; Abrasives; Tools; Bolts; Nuts; Screws; Flour-Grinding Mills; Rice Hullers; Centrifugal Pumps; Oil Engines, Etc., Etc.

Telegrams: "ETERNAL" 'Phone: 32700

Reliance Stores & Trading Co.—Raja Bahadur Building, 43, Tamarind Lane, Fort.

Reliance Trading Co.—25/47, Lohar Street, Bombay 2.

Repute Engineering Co.—165, Narayan Dhuru Street, Bombay 3.

R. MOHANLAL & CO.—38, Bibijan Street, Bombay 3. Phone: 39929. Grams: "HANDTAP." Speciality: All kinds of Asbestos Packings, Jointings, Leather & Rubber Beltings, Vulcanised Fibre Sheets and allied Accessories.

Roberts, McLean & Co. Private Ltd.—Ilaco House, Sir Phirozshah Mehta Road, Fort.

ROYAL HARDWARE MART.—106, Nagdevi Street, Bombay 3. Phone: 38621. Grams: "MANILARPE."

Ruby Trading Co.—Sambava Chambers, Sir Phirozshah Mehta Road, Fort.

Sardesai & Company.—14, Murzban Road, Fort, Bombay.

SAURASHTRA WIRE HEALDS MFG. CO. PRIVATE LTD.—Manufacturers of Wire Healds. Office: Sanghavi Chambers, 27, Ghoga Street, Fort, Bombay. Phones: 253302 (Office) & 40634 (Res.). Grams: "VIRVANDAN." Factory: Udyog-nagar, Bhaktinagar Station Road, Rajkot (Saurashtra). Phone: 201. Grams: "WIREHEALDS." Rajkot. Managing Director: M. K. Sanghavi.

Scientific & Industrial Supplies Corporation.—Princess Street, Bombay 2.

Sethna, Katrak & Co.—Tamarind House, 30, Tamarind Lane, Fort. Settna, R. Pheroos & Co.—79, Medows Street, Fort.

Shah Bros. & Co.—Raja Bahadur Compound, Hamam Street, Fort. Suppliers of Bobbins, Shuttles and Sundries. Phone: 24606. Grams: "MILVEPRI."

Shah & Brothers.—234, Nagdevi Street, Bombay 3.

Shah Engineering Stores.—88-92, Nagdevi Cross Lane, Bombay 3.

SHAH ENGINEERING STORES CORPORATION.—Industrial House, 51/53, Nagdevi Cross Lane, Bombay 3. Grams: "KINGTOOLS." Head Office: 67/B, Metaji Subhas Road, Calcutta 1. Direct Importers and Stockists of Engineering Tools, Mill Gin Stores, etc.

Shah Machine Tools Co.—75, Abdul Rahman Street, Bombay 3.

SHAH PATEL & CO.—109/111, Nagdevi Street, Bombay 3. Phones: 20709 and 39977. Grams: "LUCKYCHAP." Manufacturers of C.I. Pulleys and Shaft Couplings. Agents: "Nirmal" Rubber Beltings.

Shah Trading Corporation.—Oomrigar Building, opp. Crawford Market, P. B. No. 2299, Bombay 2.

Shamsun & Co.—11, Bruce Street, Fort.

Shantilal Sheth & Co.—Bansdal Mansion, Bruce Street, Fort.

Sheth, S. C., & Co., Ltd.—Raja Bahadur Mansion, 14, Hamam Street, Fort.

Shree Krishna Trading Co., Ltd.—11, All Chambers, Tamarind Street, Fort.

Shree Vijay Trading Corporation.—71/72, Apollo Street, Fort.

Shri Shakti Trading Co.—22, Apollo Street, Fort.

Shroff Bros. & Co.—7-9, Kiplinaton Circle, Fort, Bombay.

Siraj, A. H., & Co.—145, Janikar Street, Bombay 3.

Sivramkrishnan, M.—Hasi Mansil, 62-66, Abdul Rahman Street, Bombay 3.

Sising Materials Co., Ltd.—Jerco Building, Mahatma Gandhi Road, Fort.

Small Tools & Hardware Supply Agency.—129, Sarang Street, Bombay 3. Phone: 31177. Grams: "SMALLTOOLS."

SOUTHERN TRADING CO.—Lotus Chambers, 157-159, Narayan Dhuru Street, Bombay 3. Dealers in Mill Gin Stores, Engineering Tools, Pipe Fittings & Hardware. Grams: "UNITEDJAIN."

S. Sevantlal & Co.—246, Masjid Bunder Road, Bombay 3.

Standard Mill Stores Co.—41, Bruce Street, Fort.

Standard Trading Agency.—Seksaria Chambers, 139, Medows Street, Fort.

Standard Trading Co.—Vithal Sayana Building No. 2, 43-75, Lohar Street, Bombay 2.

STAR TRADING CO. PRIVATE LTD., THE.—Bank of Baroda Building, 12, Apollo Street, Fort, Bombay. Textile Engineers and Merchants. Phones: 253480 and 251357. Grams: "STARTRADE." Importers of Textile Machinery.

Sunderlal & Sons.—Narayan Dhuru Cross Lane, Pranjiwan Building, Bombay 3.

SUNSHINE TRADERS.—3, Hamam Street, Fort, Bombay. Phone: 251631. (1) Manufacturers of Spindle tapes, Cotton Bindings, Venetian blind tapes, Tubular bindings, Bundle bindings and Cotton bindings; (2) Manufacturers of spindle tapes and Bindings and textile stores suppliers; (3) Manufacturers of Egyptian tapes and webbings.

Sviz Bros.—Bobbins Rings Manufacturers and General Merchants. P.O. Box 4089. 34/7, Tukaram Javji Road, Grant Road, Bombay 7. Phone: 27807.

Talib & Co.—Talib House, 104, Nagdevi Street, Bombay 3.

Teamsan Traders.—Post Box No. 3162, Nagdevi Street, Bombay 3.

Techno-Industrial Co.—107, Sir Vithaldas Chambers, 16, Apollo Street, Fort, Bombay.

Textile Machinery Corporation, Ltd.—254-A, Annie Besant Road, Worli, Bombay 18.

TEXTILE SUPPLIES SYNDICATE (INDIA), LTD.—India House, 1st Floor, Opp. G.P.O., Bombay. Phone: 26-3844. Grams: "GOODBELT."

TEXTILE & TIMBER TRADERS.—Medows House, Medows Street, Fort. Phones: 252061 and 252066.

TEXTOL TUBE CO.—P.B. No. 3271, 8, Nagdevi Street, Bombay 3. Grams: "TEXTOL."

THAKORLAL & CO.—47, Nagdevi Cross Lane, Bombay 3. Phone: 20488. Grams: "PIPEWARE."

Tirathdas Kotumal.—107, Narayan Dhuru Street, Bombay 3. Tribhovandas Sons Ltd.—70, Dadyseth Agiary Lane, off Kalbadevi Road, Bombay 2.

Trinity Industrial Stores.—72-74, Nagdevi Street, Bombay 3.

Trinity Textile Traders.—Seksaria Chambers, 139, Medows Street, Fort.

Trivedi Textiles & Company.—9, Ash Lane, Fort. Mill Gin Stores Suppliers & Machinery Merchants.

Trustin Private Limited.—Yusuf Manzil, 58, Forbes Street, Bombay 1. Phone: 252030. Grams: "LAHNAVAYA". Branch: Girdhar Chambers, Gandhi Road, Ahmedabad.

T. U. Patel & Sons, Ltd.—Huseini Chambers, 33, Nanabhai Lane, Fort, Bombay 1.

Typhoon Blower Co.—19, Hamam Street, Fort, Bombay.

V. D. PATEL & COMPANY PRIVATE LTD.—11, Bank Street, Fort, Bombay. Phone: 254554. Grams: "UDIPATEL," Bombay & Akola. Mill Gin Stores and Hardware Dealers. Sole Agents for: M.L.F. Brand Chrome Composite Ginning Washers, Eccentric drive Ball Bearing Conversion Sets for single Roller gins; "Pagoda" & "Sun" brand Leather Beltings; Oil Engines, Pumps, Electric Motors, etc.

Union Tube & Hardware Mart.—84-86, Nagdevi Cross Lane, Bombay 3. Phone: 39011. Grams: "UNIONTUBE".

UNITED MILL STORE (INDIA). ESTD. 1943.—43, Dhanji Street, Agiari Cross Lane, P.O. Box No. 3236, Bombay 3. Phone: 30431. Grams: "SUREWIN." On Govt., Railway and Municipal Lists. Importers of Pipes, Fittings, Mill Gin Stores and Hardware.

United Tube & Hardware Co.—146, Nagdevi Street.
Universal Supply & Trading Co.—Small Building, 381, Hornby Road, Fort.

Universal Tanneries, Ltd.—Dharavi, Bombay 17.
Universal Trading Co.—79, Mohamedi House, Mohamedalli Road, Bombay 3.

Usha Textiles and Machinery Corp.—75, Tamarind Lane, Bombay 1.
Vadilal, H., & Co.—19, Tamarind Lane, Fort.

Vasantlal Vadilal & Co.—215-17, Samuel Street, Vadgad.
Vasantlal & Sons.—Botawalla Building, 7-10, Elphinstone Circle, Fort.

Venus Textile Syndicate.—Sambava Chambers, Sir Phiroozshah Mehta Road, Fort.

Victor Trading & Engineering Co. Pvt. Ltd.—Victor House, Jacob Circle, Bombay 11.

Vinod Mehta & Co.—22-B, Noble Chambers, Parsee Bazar Street, Fort.
Viswabharati Trading Co.—Kumta Street, Ballard Estate, Bombay 1.

Vithaldas, G., & Co.—60, Nagdevi Cross Lane.
Voltas Ltd.—19, Graham Road, Ballard Estate.

V. S. & COMPANY.—Commerce House, Block 302, 140, Meadows Street, Bombay. Grams: "MAHDEVIA CO." Phone: 254685. Textile Stores Suppliers.

Waghji Lakhmidas & Co.—206, Samuel Street, Vadgad.
Wallace, J. P., & Co.—Shale Building, 23-22, Bank Street, Fort. Phone: 20829.

Wallace, P. B., & Sons, Ltd.—Elphinstone Building, 10, Vir Nariman Street, Fort.

Western Engineering Co.—Western India House, Sir Phiroozshah Mehta Road, Fort. P. O. Box 75.
Western Textile Corporation.—Prospect Chambers Annex, Hornby Road, Fort.

MINERAL MERCHANTS

AMAR MINERALS PRIVATE LTD.—Alice Building, 339, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone: 255771. Factory: Kalyan (Central Railway). Phone: Kalyan—36. Dealers in all kinds of Minerals such as 85 per cent Asbestos Magnesite, Barytes, Bentonite, Red Oxide, Talc, etc.

Bajaj Textile Mills Ltd.—384M, Kalladevi Road, Bombay 2.
Baidota Brothers.—43, 2nd Bhowalia, Bombay 2.

Bapusaheb M. & Co.—Bharat House, 3rd Floor, Apollo Street, Fort, Bombay.

Bhivandivall A. H. & Co. (Bombay) Ltd.—93-95, Kazi Syed Street, Bombay 3.

Blue Star Engineering Co. (Bombay) Ltd.—Kasturi Building, Jamshetji Tata Road, Churchgate, Bombay.

C. PRAVINCHANDRA & CO.—34-48, Bhabha Bldg., 2nd Floor, Masjid Bunder Road, Bombay 3. Phone: 71337. Grams: "SNOWDROP." Works at 8, Quay Street, New Plot, Darakhana, Bombay 10. Phone: 41518. Manufacturers of "CIP-CO" Brand 85 per cent Asbestos Magnesite and other Lagging Products.

Central Hindusthan Italian Trading Co. Ltd.—C/O G. Apherton & Co. Ltd., 28, Apollo Street, Bombay.

Champaklal Morarji & Co.—193, Samuel Street, Bombay 9.

Chimanlal Patel & Co.—124, Hornby Road, Fort.
Coal Mining & State Minerals Ltd.—Alice Bldg., Hornby Road, Fort.
Continental Commercial Co.—75, Tamarind Lane, Opp. Ali Chambers, Bombay 1.

D. KANYALAL & CO.—45, 3rd Cavel Cross Lane, Kalbadevi Road, Bombay 2. Phone: 34052. Minerals, Clay Merchants & Grinders. Dealers and Stockists of Asbestos Products; China Clay, Others of all kinds, Bentonite, Calcite, Whiting, Red Oxide, Emery, Glass Sand, Marble Chips, Magnesite, Felspar and Silica Powder. Factory: Sewri, Bombay 15.

Dandekar Company.—Bombay Mutual Annex, Fort, Bombay 1.
Dayashanker Bhatt & Co.—Mansu Mansion, 16, Custom House Road, Bombay 1.

Devidayal (Sales) Private Ltd.—Tulsiram Gupta Mills Estate, Mazgaon, Bombay 10.

Eve Fabrics Ltd.—Indu House, Ballard Estate, Bombay.
Ferro Metal & Chemical Corporation.—Bhujat Bhuvan, 10, 80, Nepan Sea Road, Bombay 6.

GANPAT HARIJIVAN.—114, Nagdevi Street, Bombay 3. Phone: 20238. Grams: "CLAY."

GOODWILL TRADING CO.—34, Nagdevi Street, Bombay 3. Grams: "SPEEDSALE." Phone: 28601. Importers & Dealers in Heavy Chemicals & Minerals, Barytes, Iron Ore, Calcite, Gypsum & Dolomite.

Gujarat Clay Mills.—246, Reay Road, Bombay 10.

Harchandani Sons.—229, Munjid Bunder Road, Bombay 3.

Hariram Dinanath.—Oriental Bank Building, 65, Mahatma Gandhi Road, Fort, Bombay.

Hindustan Manganese Mines Ltd. The—93-95, Kazi Syed Street, Bombay 3.

Hind Traders.—241, Princess Street, Bombay 2.

HINDUSTHAN MINERAL PRODUCTS CO. PRIVATE LTD., THE.—111, Industrial Area, Sion, Bombay 22. Phones: 61081-41682 & 69316. Grams: "BARYTES." Geologists, Mining Engineers & Stockists of Indian Minerals. Deals in: Barytes, Iron Oxides and other Minerals. Pulverizers of Organic and Inorganic Products and formulators of Insecticides. Factories at: 111, Industrial Area, Sion, Bombay 22. 2. 27, Manganese Depot, Sewri, Bombay 15. 3. Tadpatri, Southern Railway.

Hughes & Davies.—Mahatma Gandhi Road, Bombay.

INDIAN CLAY & RAW PRODUCTS SUPPLY CO.—Belvedere Hill Road, Mazgaon, Bombay 10. Phone: 40794. Grams: "CLAY."

Indian Mineral Supply Co.—14, Western India House, Sir Phiroozshah Mehta Road, Fort.

Industrial Minerals & Chemical Co.—125, Narayan Dhuru Street, Bombay 3.

Iron & Metal Traders Ltd.—Off Magazine Street, Near Reay Road Station, Mazgaon, Bombay 10.

Jagannath Gupta & Co. Ltd.—(Mangalore Department), 7, Vishnu Mahal, 'D' Road, Churchgate Extension, Bombay.

Ka'aria Traders (India) Ltd.—325, Kalbadevi Road, Bombay 2.

Khandelwal Brothers Private Ltd.—Khandelwal Bhavan, 166, Dadabhai Naoroji Road, Bombay.

Khandelwal Mining Corporation.—6, Itola Street, Opp. Argyle Road, Carnac Bunder, Bombay 9.

Khemka (Agencies) Private Ltd.—Vulcan Insurance Building, 202-A, Veer Nariman Road, Churchgate Reclamation, Bombay 1.

Jamnadas Chaturbhuj & Bros.—92, Vithalwadi, Bombay 2. Grams: "JUBILEE."

Javeri Traders.—Lakhmi Building, 34, Cawasji Street, Fort, Bombay.

Kirtikumar & Co.—80, Bhandari Street, Mandvi, Bombay 3. Phone: 20583. Grams: "LALITKIRTI."

Mercantile Trading Co.—Gulzare Kasim, Mazgaon, Bombay 10.

MINERAL MINING CO., PRIVATE LTD., THE.—111, Industrial Area, Sion, Bombay 22. Phone: 61081. Grams: "BARYTES." Mine Owners & Mineral Suppliers. Deals in: Soapstone, China Clay, Corundum, Calcium Carbonate. Our speciality: Calcium Oxide & Calcium Hydroxide. Also formulators of Insecticides. Registered Office: Indian Chamber Buildings, Esplanade, Madras 1. Administrative Office: At 111, Industrial Area, Sion, Bombay 22. Branch Office: "Ramalaya", Phaltan Dt., N. Satara. Factory: Rayalcheruva—S. Railway.

Mulraj G. Dungersey & Co. Ltd.—21, Forbes Street, Bombay.

Nagri Mining Co. Private Ltd.—Sambava Chambers, Sir P. M. Road, Fort, Bombay.

NAKIMPEX TRADERS.—24, Veer Nariman Road, Bombay 1. Phone Nos. 251681, 252906. Grams: "NAKIMPEX."

National Industries of India.—Sambava Chambers, Sir Phiroozshah Mehta Road, Fort.

Natwarlal Shamaldas & Co.—94, Meadows Street, Fort, Bombay.

New Bharat Grinding Mills.—Near Animal Hospital, Govt. Gate Road, Parel, Bombay 12.

Overseas Trade & Agencies (India).—Beaumont Chambers, Meadows Street, Fort, Bombay.

PRAVIN BROTHERS & CO.—37, Bora Bazar Street, Bombay 1. Phones: 263804 & 262189. Grams: "WIDESCOP." Importers, Exporters and Agents: Sulphur-Chemicals-Fertilisers, Minerals-Lime-Jute-Products.

Pitty Brothers Ltd.—20, Hamam Street, Bombay.

QUALITY MINERAL SUPPLY SYNDICATE.—44, Old Customs House Road, Fort, Bombay. Phone: 284111. Grams: "SYM-PATHY." Dealers in all kinds of Minerals such as Asbestos, Barytes, Bentonite, Calcite, China Clay, Soapstone, Activated Fullers Earth, etc.

Ram Bahadur Thakur & Co.—11-B, Noble Chambers, Ghoga Street, Bombay.

SARASWATI MILL STORE CO.—58, C.P. Tank Road, Bombay 4. Phone: 72134. Grams: "SHENAGU."

Sepulchre Brothers (India) Ltd.—Taj Building, D. Naoroji Road, Bombay.

Sharma & Sharma.—Oriental Bank Building, 65, Mahatma Gandhi Road, Bombay.

Shethia & Co., S. D., Ltd.—Podar Chambers, Parsi Bazar Street, Bombay 1.
Shivrajpur Syndicate Ltd. The—Home Street, Fort, Bombay.

STANDARD MINERALS.—88, Tambakanta, Bombay 3.
Phone: 73105. Grams: "SHEPCHEM." Dealers in all kinds of Minerals, French Chalk, Fire Bricks, Flue Covers, etc. and Mill Stores Suppliers.

Standard Pulverising Co.—Atlas Mill Compound, Reay Road, Bombay 10

Suchin & Co.—66, Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

Tavaria Bros.—Dhan-Nur, Sir Phirozshah Mehta Road, Fort.
Todi & Co.—41, Hamam Street, Fort.

Vaswani (India) Private Ltd.—496, Kalbadevi Road, Post Box No. 2009, Bombay 2.

Wallen & Co.—India House, Opp. G.P.O., Bombay.

Western India Trading Co., The—Jan Mansion, Sir P. M. Road, Bombay.

MONSOON REQUISITES

ARCO AGENCIES.—Sam House, Gunbow Street, Fort, Bombay 1. Phone: 28-1208.

MOTORS AND TRUCKS (AUTOMOBILES)

Advance Trading Corporation.—Bhangwadi, Kalbadevi Road, Bombay 2.

ALLIBHAI PREMJI TYREWALLA.—211, Lamington Road, Bombay 7. Phone: 42763. Grams: "TYRETUBE." Approved Dealers for "Royal Enfield Motorcycles and 3 Wheelers."

Asian Motor Car Co.—Ramchandra Mansion, Sandhurst Road.

Autocars Ltd.—43, Queen's Road, Bombay 2.

Automobile Co., Ltd.—41, Queen's Road.

Bombay Garage Ltd.—Meher Building, Chowpatty, Bombay 7.

Bombay Motors & Radios Ltd.—88, New Queen's Road.

BOMBAY SCOOTER & MOTOR AGENCY.—43, Queen's Road, Bombay 2. Phone: 27701. Distributors for Lambretta Scooters, Three Wheelers, Scooterettes and Meadows Automotive type Diesel Engines.

Car Mart Ltd.—Pratt's Building, Hughes Road.

Continental Auto Stores.—Tram Terminus, Opera House.

DADAJEE DRACKJEE & CO. PRIVATE LTD.—Sandhurst Bridge, Bombay 7. Importers of & Dealers in Automobiles & Automobile Accessories. Sole Distributors for: Rolls-Royce, Bentley, Humber, Hillman, Sunbeam-Talbot Cars, Mercedes-Benz Diesel and Petrol Passenger Cars; Tata-Mercedes-Benz Diesel Truck and Bus Chassis, and Commer and Karrier Commercial Vehicles; A.J.S. Motor Cycles, Lambretta Motor Scooters, Scooterettes, 3-wheeler Rikshaw & Delivery Van Chassis, "PR" type specially designed Van. "WOLF". Electric tools & Equipment; and "OLDEHAM" Automobile Batteries. Telegrams: "PROMPT", Bombay. Telephones: 27021/23. Workshops: 74629.

Eastern Motor Corporation.—Indira Nivas, Bhatwadi, Girgaum.

Empire Automobiles.—Junction of New Queen's Road and Lamington Road.

FAIRDEAL MOTORS PRIVATE LTD.—Giri Kunj, Hughes Road, Bombay 7. Phone: 42911. Grams: "FAIRAUTO." Importers & Dealers in Automobiles & Automobile Accessories.

Federal Motors.—Giri Kunj, Hughes Road, Bombay 7.

Foreign Products Distributing Co.—491, Sandhurst Road, Bombay 4.

French Motor Car Co., Ltd.—9-11, Hughes Road, Bombay.

Garware Motors Engineering Private Limited.—Chowpatty Chambers, Sandhurst Bridge, Bombay 7. Phone Nos. 27091 and 27092.

Harvan Motor House.—"Kapol Nivas", Sandhurst Road.

IDEAL MOTORS.—Bombay Mutual Annex, Gawasji Patel Street, Fort. Phone: 28380. Grams: "IDEALMOTOR." Importers and Distributors of Cycles, Motor Cycles and Accessories. Sunbeam, B.M.W. and JAWA-CZ 48 c.c., 125 c.c., 150 c.c., 250 c.c., 350 c.c. and 500 c.c. Motor Cycles.

Imperial Motors.—Parekh House, 14, New Queen's Road.

Indian Automobile Co., Ltd.—2-4, Apollo Street, Fort.

International Motor Co.—Sandhurst Bridge, Bombay 7.

Lincoln Motors.—Marina Mansion, Sandhurst Bridge.

Lucas Indian Service Ltd.—15, New Queen's Road.

Mahindra & Mahindra Ltd.—Gateway Building, Apollo Bunder, Bombay 1.

Metro Motors, The.—Motor House, Hughes Road, Bombay 7.

Motor and General Stores Supplying Co.—Kothare Mansion, opp. G.P.O.

MOTOR HOUSE LTD.—511-A, Sardar Vallabhbhai Patel Road, Krishna Bhuvan, Bombay 4. H.O. Phones: 73786 & 41728. Grams: "MOTORHOUSE". Parts Divisions & Direct Requisites of Genuine Spare parts for Kaiser, Fraser, Roe & Bradford.

Nikel Motors.—7-A, Princess Avenue, Bandra, Bombay.

Noble Cycle & Motor Co.—Commissariat Building, Hornby Road. Patel, F. M., & Co.—Ramchandra Mansion, Sandhurst Road, Bombay 4.

Patel, N. D., & Co.—180-82, Princess Street.

Patel, F. R., & Co., Ltd.—Mherwan Building, Sir Phirozshah Mehta Road, Fort.

Premier Automobiles Ltd.—Agra Road, Bombay 37.

Rapid Cycle & Motor Co., Ltd.—Opp. Edward Theatre, Kalbadevi Road.

Shetty Automobiles.—Opera House Tram Terminus.

Society of Motors Manufacturers and Traders, Ltd.—National Insurance Building, 27, Bastion Road, Fort.

Tata Locomotive & Engineering Co. Ltd.—148, Mahatma Gandhi Road, Bombay 1.

UNITED AUTOMOBILES.—431, Lamington Road, Bombay 4. Grams: "UNIAUTO."

United Motors (India), Ltd.—Hughes Road.

United Overseas Service.—16, New Queen's Road, Bombay 4.

MOTOR BODY BUILDERS

SHARATI WORKSHOP.—20, Wadi Bunder Road, Mazgaon, Bombay 10. Phone: 76129. One of the Oldest Body Builders of Bombay. Accredited Body Builders of Central and Bombay Government Factories and Leading Firms.

Hiralal & Company (Estd. 1927).—Petit Compound, Kennedy Bridge, Bombay 7.

INDIA BODY BUILDERS.—All Types of Motor Body Builders, Spray Painters, Welders, Upholsters & Fabricators, Eastern Woollen Mills Compound, 62, Shawani Shankar Road, Dadar, Bombay 28. Phone: 60603. Grams: "AUTOBODY."

Jayanand Khira and Co., Ltd.—Office & Showroom: Kothare Bldg., Sandhurst Bridge, Bombay 7.

Regal Motors.—Old Victoria Mills Compound, Gamdevi, Bombay 7.

Royal Auto Works.—Tanker Villa Estate, 200, Gowalla Tank Road.

RUBY INDUSTRIES.—Motor Body Builders (on Government & Municipal List), 78, Dr. Annie Besant Road, Worli, Bombay 18. Phone: 70536. Grams: "MOTORBODY."

Sam Ruston & Co.—81/83, Mangalore Street, Ballard Estate.

Sewri Engineering Works.—224, Sewri Road, Bombay 15.

MOTOR BODY BUILDING MATERIALS

Associated Auto Parts Ltd.—445, Lamington Road, Bombay 4.

Chandawalla Traders.—321, Vithalbai Patel Road, Bombay 4.

JAFTERBHAI & CO.—106, Bhendi Bazar, P.O. Box No. 3055, Bombay 3. Phone: 70534. Grams: "NECESSITY."

JIVANLAL & CO. (ESTD. 1937).—464, Sardar Vallabhbhai Patel Road, Laxmi Bhuvan, Bombay 4. Phone: 40723.

MAMAJI & SON (PRIVATE) LTD.—Y.A.—136-38, Sir Ebrahim Rahimtulla Road, Bombay 3. Phone: 71262. Grams: "MA-MAJISON." Importers & Exporters: P.V.C. Leather Cloth, Motor & Carriage Upholstery materials, Saddlery & Harness goods & all kinds of Felt.

McKenzie Ltd.—Sewri.

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Mehta, J. V., & Co.—Opera House Tram Terminus, Bombay 4.

MOTOR HOOD DEPOT.—Nair Building, 490, Sandhurst Road, Bombay No. 4. Stockists of: "Jaggers" Bus Body Fittings. P.V.C. Leather Cloth, Rubber Matting, etc. Auto Seat Covers a speciality. Phone: 71007. Grams: "MOTORHOOD."

National Hardware & Store Supply Co.—30, Khokha Bazar, Sarang Street, Bombay 8

N. B. Fadia & Co.—493, Sandhurst Road, Bombay 4.

P. L. GUPTA & CO.—130, Bhendi Bazar, Bombay 3. Direct Importers of Motor Bus Body Fittings, Upholstery Materials, P.V.C. Leather Cloth, Line, Wilton Carpets. Distributors for "DUNLOPILLO."

P. SHAH & CO.—Dwarkanadas Mansions, Sardar Vallabhbhai Patel Road, Bombay 4. Phone: 71684. Grams: "BUSBODY."
Shah & Sunder.—7/10, Horniman Circle, Bombay 1.
S. S. Prabhu.—Ghamat Terrace, opp. Dadar (Western Rly.) Station, Bombay 14.
Talbhoy Alibhoy & Sons.—117, Ebrahim Rahimtulla Road, Bombay No. 3.

MOTOR TYRES AND ACCESSORIES

ALIBHAI PREMJI TYREWALLA.—211, Lamington Road, Bombay 7. Phone: 42763. Grams: "TYRETUBE".
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Automobile Resort Co.—Corner of Wittet Road, Ballard Estate.
Batlibol & Sons.—Standard Vacuum Service Station, Hughes Road.
Dunlop Rubber Co. (India), Ltd.—"Dunlop House," Hughes Road.
Empire Automobiles.—Junction of New Queen's Road & Lamington Road.

Firestone Tyre & Rubber Co. of India, Ltd.—Hay Bunder Road, Sewree.

Goodyear Tyre and Rubber Co. (India), Ltd.—7-9, Mathew Road.
Greaves Cotton & Co., Ltd.—1, Forbes Street.

Harvan Motor House.—Kapole Nivas, Sandhurst Road.

Indian Automobile Co., Ltd.—4, Apollo Street, Fort.

J. V. Mehta, & Co.—Opera House Tram Terminus, Lamington Road, Bombay 4.

Lucas Indian Service, Ltd.—New Queen's Road.

Mehta Motor Stores.—Banji Nivas, Sandhurst Road, Bombay 4.

Modern Auto Stores.—Vallabh Terrace, Sandhurst Road.

Mody Brothers.—Raval Building, 430, Lamington Road.

Motor Trade Supply Co.—Parekh Mansions, Sandhurst Road.

Noorbhai Jivaji.—Tyebi Manzil, Bhendy Bazar, near Tram Junction.
One Stop Service Stations Co.—Swadeshi Mills Compound, New Queen's Road, Bombay.

Oster, F. & C., Ltd.—Swadeshi Mills Compound, New Queen's Road.
Overseas Trading Corporation.—Nusser House, New Queen's Road.

Patel, J. B., & Co.—Contractors Building, 6, Lamington Road.

Provincial Motor Car Co., Ltd.—Opp. Opera House, New Queen's Road, Bombay 4.

Rane, Limited.—New Queen's Road.

Royal Cycle & Motor Works.—Jariwala Mansion, Hughes Road.

United Motors (India), Ltd.—Arthur Bunder, Colaba.

Victoria Motor Stores.—Dwarkanadas Mansions, Sandhurst Road.

MOULDING MACHINES AND BOXES

PIONEER EQUIPMENT CO. PRIVATE LTD.—139, Meadows Street, P.O. Box 1909, Bombay 1. Phone: 25-1882. Also at 1, Mangoe Lane, Calcutta 1. Phone: 231611, and 193, Mount Road, Madras 2. Grams: "PIOMETAL." Agents for Gustav Zimmermann G.m.b.H., famous manufacturers of Moulding Machines and Hesonwerke, Germany for HESON Moulding Boxes.

Thos. W. Ward (India) Ltd.—Marshall Building, Ballard Road, Ballard Estate, Fort.

MUSIC AND MUSICAL INSTRUMENT DEALERS

Anandji Kalyanji Vara.—Hathi Building, 448, Kalbadevi Road.
B. Ardeshir & Co.—438, Kalbadevi Road, Bombay 2.

BRITANNIA TALKING MACHINE CO. (Cal.)—407, Kalbadevi Road, Bombay 2. Phone: 30465. Grams: "BRITAPHONE."

Chait Singh Gurbaxsingh & Bros.—292, Sandhurst Road (West), Bombay 4.

Furtado, B. X., & Sons.—Jer Mahal Estate, Dhobi Talao.

FURTADO, L. M., & CO.—540-544, Kalbadevi Road, Bombay 2.
 Pianos, Music and Musical Instrument Dealers. Phone: 23686.

GRAMOPHONE COMPANY LTD.—(Inc. in England, with Limited Liability), Bombay Office: Universal Building, Sir Phirozshah Mehta Road, Fort. Phone: 252327/8 (2 Lines). Grams: "JABBERMENT."

Haribhau Vishwanath Co.—Opp. Dadar (Western Rly.) Station, Dadar, Bombay 14.

James & Co.—Navsari Building, Hornby Road, Fort.

Mehta, J. V., & Co.—Opera House Tram Terminus, Bombay 4.

Rose, S., & Co. Ltd.—Rampart House, Rampart Row, Fort.

Ruby Record Company.—8/10, Tamarind Lane, Fort.

MYROBALANS

Badheka & Co.—Noble Chambers, Parsi Bazar Street, Fort.
Bhagwandas, H. & Co.—104/108, Clive Road, Dana Bunder, Bombay 9.

Bholaram Agarwal.—220, Bhat Bazar, Bombay 3.
Capitol Colour & Chemical Co.—77/87, Mirchi Street, Vadgadi, Bombay 3.

General Trading Co.—220, Bhat Bazar, Bombay 3.

Jivanlal, O., & Co.—Asad Bhuvan, Masjid Bunder Road, Bombay 3.

Joshi Jivandas Gangaram & Co.—282, Narshi Natha Street, Bombay 9.

Karsandas Haridas.—Argyle Road, Bombay 9.

Karsandas, Ramdas.—Argyle Road, Bombay 9.

Karamjee Tricamji.—51/55, Clive Road, Dana Bunder, Bombay 9.

Lalji Birji & Co.—Argyle Road, Bombay 9.

Laxmi Trading Co.—86, Vir Nariman Road, Fort, Bombay 1.

Mansukhlal, R. & Co.—51/55, Clive Road, Bombay 9.

Mathradas, P. & Co. Ltd.—Mherwan Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Narayan Anant.—Khand Bazar, Bombay 3.

Premji Haridas & Co.—170, Argyle Road, Bombay 9.

Premji Haridas & Co.—Bhannuall Chambers, 168, Argyle Road, Bombay 9.

Poonjilal Jhangir, J. M.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort.

Purshotam Mathradas & Co. Private Ltd.—3, Mherwan Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Rex Commercial Corporation, Ltd.—Central Bank Building, Bruce Street, Fort, Bombay 1.

Tata, P. R. & Co.—Anant Nivas, 202/70, Bhat Bazar, Bombay 9.

MYROBALAN EXTRACTS

SREE LAXMI TANNIN EXTRACT FACTORY.—Malancha Road, Kharagpur (Eastern Rly.). Proprietors: Purshotam Mathradas & Co., Private Ltd., 3, Mherwan Bldg., Sir Phirozshah Mehta Road, Bombay 1. Manufacturers of 'Lion' Brand Solid and Powder extracts of Myrobalans. Phone: 252589. Grams: "FOURSIDES", Bombay.

NATURE CURE CLINICS

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NEON LIGHTINGS

NEON SIGNS (INDIA) PRIVATE LTD.—Manufacturers of Neonlite Signs & Displays, 583, Chitra Bazar, Bombay 2. Phones: 30068 (Office), 41762 (Factory). Branch at 8, Lindsay Street, Calcutta.

NEWSPAPERS (OVERISSUED & OLD)

Associated Agencies (Bombay).—47, Podar Chambers, Parsi Bazar Street, Fort.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 Lines). Offices at Madras, Calcutta, New Delhi.

Gulabchand Nathalal & Co.—45, Mirchi Lane, Bombay 3.

Indian Commercial Co., Ltd.—45-47, Apollo Street, Fort, Bombay.

Kantilal Sanghvi & Co.—Mherwan Building, Sir Phirozshah Mehta Road, Fort.

SHAH & COMPANY.—108, New Citizen Bank House, Palton Road, Bombay 1. Phone: 261613. Grams: "SHAHPAPER."

NEWSPAPERS AND PERIODICALS

ENGLISH

DAILY

"**EVENING NEWS OF INDIA.**"—Times Building, Horaby Road, Fort.

"**Free Press Bulletin.**"—21, Dalai Street, Fort.

"**Free Press Journal.**"—21, Dalai Street, Fort.

"**HINDUSTAN STANDARD**" & "**DELHI HINDUSTAN STAND-ARD**" (English Daily from Calcutta and Delhi).—Bombay Office: United Bank of India Bldg., Sir Phirozshah Mehta Road, Bombay. Phone: 252186. Grams: "ANANDBAZAR."

- "Indian Express."—Standard Press, Colaba.
 "Press Trust of India."—Financial and Commercial Service, 357, Dr. Dadabhai Naoroji Road, Fort, Bombay.
 "Reuter's Indian Journal."—357, Hornby Road, Fort.
 "TIMES OF INDIA."—Times Building, Hornby Road, Fort.

WEEKLY

- "All-India Weekly."—41, Hamam Street, Fort.
 "Bharat Jyoti."—Journal Press, 21, Dalal Street, Fort.
 "Bits."—Sanj Vartaman Printing Press, Apollo Street, Fort.
 "Bombay Market."—21 Dadlatheth Aglary Street, Kalbadevi, Bombay.
 "Commerce."—Caxton House, Frere Road, Fort.
 "Current."—Meher House, Cawasji Patel Street, Bombay 1.
 "Economic Weekly."—Popular Printing Press, Tardeo.

EVES WEEKLY (India's Only Family News-Magazine).—Sanj Vartaman Press, Apollo Street, Fort, Bombay. Price: 25 nP. per Copy (pp. 40). Annual Subscription Rs. 12 (Inland), Rs. 18 (Foreign). Half Yearly Rs. 6 (Inland). Editor: Mrs. M. Mehta, Advt. Manager: R. D. Mistry. Advertisement Rates: Casual Rs. 17 per c.i.; over 200 in. Rs. 15; Rs. 150 extra for every additional colour. Phone: 255362-3. Grams: "EVESWEEKLY."

"Examiner."—Examiner Press, Meadows Street, Fort.
 "ILLUSTRATED WEEKLY OF INDIA."—Times Building, Hornby Road, Fort.

- "Indian Market."—Jan Mansion, Sir Phirozshah Mehta Road, Fort.
 "Indian Social Reformer."—Kannada Press, 109, Parsi Bazar Street.
 "Investor's Supplement to the Stock Exchange Circular."—42-43, Stock Exchange Building, Apollo Street.
 "Logie."—Rangbhoomi Printing Press, 141, Shivaji Park, Dadar.
 "National Guardian."—227, Frere Road, Fort.
 "New Leader."—Kothari Printing Works, Sir Phirozshah Mehta Road, Fort.
 "Screen."—Standard Printing Press, Colaba.
 "Sporting Times."—142, Esplanade Road, Fort.
 "Sunday Standard."—Standard Printing Press, Colaba.

"TIMES OF INDIA" (Sunday Edition).—Hornby Road, Fort.

FORTNIGHTLY

- "FILMFARE."—Times Building, Hornby Road, Fort.
 "Mangalorean."—339, Hornby Road, Fort.
 "Problem."—Victoria Printing Works, 322, Denawadi, Bombay 2.
 "Property Market."—Churchgate Street, Fort.
 "Psycho."—Podar Chambers, Fort.
 "Racing Calendar."—Caxton Press, Frere Road.

MONTHLY

- "Communist."—Communist Office, Bombay 4.
 "General Letter."—Soman Building, Girgaum.
 "INDIAN CONCRETE JOURNAL."—121, Queen's Road, Bombay 1.

Indian Electrical News Published by Ellora Art Industries.—Shreeji Bhuvan, Lohar Chawl, Bombay 2.

INDIAN TEXTILE JOURNAL

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Grams : "JOURNAL"

- "Jewish Advocate."—63-67, Meadows Street, Fort.
 "JOURNAL OF THE FILM INDUSTRY."—Indian Motion Picture Producers' Association, Sandhurst Building, Sardar Vallabhbhai Patel Road, Bombay 4. Annual Subscription Rs. 5, Single Copy 50 nP. Advt. Rates: 1 Full Page, Rs. 200, Half Page Rs. 100.
 "Journal of the Indian Merchants' Chamber."—505, Arthur Road, Tardeo.
 "Labour Gazette."—Labour Office, Dhobi Talao, Bombay 2.
 "Monthly News Letter."—Caxton Printing Press, Fort.

- "Onlooker."—United India Building, Sir Phirozshah Mehta Road.
 "R. C. A. News."—New Era Printing Press, Chowpatty Road, Bombay 7.

"RADIO TIMES OF INDIA."—89, New Queen's Road, Bombay 4. Phone No. 22473. Grams: "ETHERWAVE." Edited by D. D. Lakshampal, B.A., B.Sc. (Tech.) (Manchester), A.M.C.T., A.M.I.E. (India), A.M.I.E.E. (London), A.M., B.R.I.T., I.R.E. Published monthly on the 1st of every month.

"Rural India."—Atre Printing Press, 362, Vithalbhai Patel Road, Bombay 4.

QUARTERLY

"OCEANITE."—The Maritime Magazine of India, 204, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone No. 26-3052.

"Social Service Quarterly."—Servants of India Society's House, Sandhurst Road.

"Textile Digest."—India Printing Works, 9, Bakehouse Lane, Fort.

ANNUAL

Major Industries of India Annual, Cotton Textile Industry Annual, Sugar Industry Annual. Publishers: M. P. Gandhi & Co., Jan Mansion, Sir Phirozshah Mehta Road, Fort, Bombay 1.

"TIMES OF INDIA DIRECTORY AND YEAR BOOK."—Times Building, Hornby Road.

"THE TIMES OF INDIA ANNUAL."—Times Building, Hornby Road.

ANGLO-GUJARATI

WEEKLY

"Parsi Avaj."—R. F. Joshi P. Press, Mangalore Street, Fort.

ANGLO-MARATHI

WEEKLY

"Subodh Patrika."—Prarthana Samaj, Charni Road, Girgaum.

ANGLO-PORTUGUESE & KONKANI

WEEKLY

"Anglo-Lusitano."—Anglo-Lusitano Press, Bank Street, Fort.
 "Ave Maria."—New Sonapur Street.

"Chabuk."—Kumar Printing Press, Vilen Lane, Bombay 4.

"Goa Mail."—322, Girgaum Road, Thakurdwar.

"Goa Times."—84-86, 1st Marine Lines, Dhobi Talao.

"Udentichem Neket" (Konkani).—Examiner Press, Meadows Street, Fort.

MARATHI

DAILY

- "Cole Daily News."—31, Tribhuvan Road.
 "Daily News."—Daily Samachar Press, Krishna Building, Falkland Road.
 "Final Sadanand."—Power Printing Press, Kandewadi, Bombay 4.
 "Jordar Patrika."—Kotuleswar Printing Press, Fanaswadi, Bombay 2.
 "Lokasatta."—Standard Press, Newspaper House, Colaba.
 "Navakal."—18, Shenviwadi, Kandewadi, Girgaum.
 "Navshakti."—Navshakti Printing Press, 21, Dalal Street, Fort.

WEEKLY

- "Dhanurdhari."—Ramkrishna Printing Press, 15-17, Tribhuvan Road.
 "KAMGAR."—Masdoor Mansil, Parsi, Bombay 12. Mouthpiece of the Rashtriya Mill Masdoor Sangh, the Representative Union of the Textile Workers in Greater Bombay. A Weekly of ten years' standing, offers good medium of publicity particularly in industrial localities of Greater Bombay.
 "Lokasatta."—Standard Press, Newspaper House, Colaba.
 "Mouj."—Khatau Makanji Wadi, Girgaum.
 "Navakal."—18, Shenviwadi, Bombay 4.
 "Navayug."—India's Largest Selling Marathi Periodicals. Weekly "Navayug", Daily "Maratha". Edited by: Acharya Atre, Jyoti Studio Compound, Kennedy Bridge, Bombay 7. Phone: 75228.
 "Swarajya."—Shanti Nivas, Vithalbhai Patel Road, Bombay 2.
 "Taraka."—Lakshmi Narayan Printing Press, 364, Thakurdwar.
 "Vivek."—Ramkrishna Printing Press, Girgaon, Bombay 4.
 "Vividh Vritta."—Shri Laxmi Narayan Printing Press, Thakurdwar.

FORTNIGHTLY

- "**Daivadnya Prabodhini**."—Vinaya Press, 267, Girgaum Road, Kandewadi.
 "**SAKSHARATA DEEN**."—Editor: B. M. Kapadia, Bombay City Social Education Committee, Tata Road 2, Bombay 4.
 "**Shipal**."—Vijay Printing Press, 269, Girgaum Road, Bombay 4.
 "**Soviet Mitra**."—Famous Printers, 12, Tribhuvan Road, Bombay 4.
 "**Vaibhav**."—Navyug Printing Press, Portuguese Church Street, Bombay 14.

MONTHLY

- "**Adarsh Valshya**."—Ramkrishna Printing Press, Tribhuvan Road.
 "**Daivadnya Samachar**."—Madan Building, Tara Temple Lane.
 "**Girni Samachar**."—384, Thakurdwar Road.
 "**Kunabi Udaya**."—Shripad Printing Press, Kandewadi.
 "**Maocebi**."—Shri Laxminarayan Press, Bombay 2.
 "**Monthly Organ of Maharashtra Chamber of Commerce**."—(VAIBHAV), 12, Rampart Bow, Fort, Bombay 1.
 "**Prabhu Prabhat**."—Zaoba's Oort.
 "**Valshya Patrika**."—Ramkrishna Printing Press, Tribhuvan Road.
 "**Zaraphar**."—Tulsi Pipe Road, Dadar.

GUJARATI

DAILY

- "**Bombay Samachar**."—Red House, Parsi Bazar Street.
 "**Cole Daily News**."—81, Tribhuvan Road.
 "**Cutch Mitra**."—(Thrice a Week), Mitra Printery, 72, Gokhale Road North, Dadar, Bombay 14.
 "**Daily News**."—Krishna Building, Golpitha.
 "**Jam-e-Jamshed**."—(Anglo-Gujarati), Jam-e-Jamshed Press, Ballard Estate.
 "**Jaumabhum**."—Ghoga Street, Fort, Bombay.
 "**Praja-Tantra**." (Gujarati Evening Daily).—Kalam Kutir, 211/19, Frere Road, Fort, Bombay.
 "**Vandemataram**."—Vandemataram Mudranalaya, Nasik Chambers, Frere Road, Fort.

WEEKLY

- "**Bombay Samachar**."—Red House, Fort.
 "**Chhaya**."—Central Fine Art & Litho Works, 293A, Bellasis Road, Bombay 8.
 "**Chitrapat**."—Chitrapat Printing Press, West End Gate, Lamington Road.
 "**Cinema Fan**."—Kumar Art Printing Press, Bombay 7.
 "**Film Chitra**."—Daily Samachar Printery Press, Golpitha.
 "**Gujarati**."—Gujarati Printing Press, Elphinstone Circle, Fort.
 "**Ismaili**."—(Anglo-Gujarati), Ismaili Printing Press, 1/4, Dongri Street, Bombay 9.
 "**Jam-e-Jamshed**."—Jam-e-Jamshed Press, Ballard Pier.
 "**Jaumabhum and Pravasi**."—Pravasi Mudranalaya, Meadows Street, Fort.
 "**Jay Bharat**."—Kishore Printing Press, Tamarind Lane, Fort.
 "**Kataryu Gep**."—French Bridge, Chowpatty.
 "**Maha Gujarati**."—Kishore Printery, Tamarind Lane, Fort.
 "**Raviwar**."—209A, Sir Mangaldas Wadi, Lamington Road.
 "**Veni**."—Veni Printery, 12th Lane, Khetwadi.
 "**Yugantar**."—Dalal Street, Fort.

FORTNIGHTLY

- "**Chintan**."—New Gujarati Printery, 104, Bazargate Street, Fort.
 "**Prabudh Jain**."—45-47, Dhanji Street, Bombay 8.
 "**Rabhar**."—(In Devanagari), Rupa Villa, Cumballa Hill.
 "**Rajkot**."—Moj Mahaj Printing Press, Khetwadi, Girgaum.
 "**Sarvodaya**."—R. P. Aryaprakash Printing Press, Kakadwadi, Bombay 4.

MONTHLY

- "**Bhagini Samaj Patrika**."—Vandemataram Printing Press, Frere Road, Fort.
 "**Gujarati Hindu Stri Mandal Bombay Patrika**."—Amroll House, Vithalbhai Patel Road.
 "**Memon Mitra**."—99, Jakaria Masjid Street.
 "**Shri Gogras**."—149, Shroff Bazar.
 "**Shri Jeevdaya**."—Humanitarian League Office, 149, Shroff Bazar.

GUJARATI AND HINDI

- "**Jain Prakash**."—(Weekly), Suryakant Printing Press, 451, Kalbadevi Road.

HINDI AND ANGLO-HINDI

- "**DEHARMATUG**."—(Weekly), Times of India Press, Hornby Road, Fort.
 "**NAVHARAT TIMES**."—(Daily), Times of India Press, Hornby Road, Fort.
 "**Rabhar**."—(Fortnightly), Ajmal Press, opp. J. J. Hospital.
 "**Shri Venkateshwar Samachar**."—(Weekly), 7th Khambatta Lane, Khetwadi.
 "**Vishwamitra**."—(Daily), Asha Printery, Noble Chambers, Parsi Bazar Street, Fort.
 "**PARAG**."—(Monthly), Times of India, Hornby Road, Fort.

URDU, PERSIAN AND ARABIC

DAILY

- "**Aftab**."—Ansari Fine Art Litho Press, opp. Arab Mosque, Bombay 8.
 "**Ajmal**."—Princess Building, J. J. Hospital, Bhendi Bazar.
 "**Hilal-e-Man**."—Hilal Press, New Chinch Bunder Road.
 "**Hindustan**."—Sultani Fine Art Litho Press, Bombay 8.
 "**Inqilab-e-Jadid**." (Urdu)—245 Bilton Road, Bombay 8.
 "**Iqbal**."—Bombay Press, Shustri Building, Bellasis Road.
 "**Ittehad**."—(Urdu), Sultani Fine Art Litho Press, Bhendi Bazar, Bombay 8.
 "**Khilafat Daily**."—Khilafat Press, Khilafat House, Love Lane, Bombay 27.

WEEKLY

- "**Fankar Weekly**."—New Citizen Bank House, Palton Road, Bombay 1.
 "**Musavvir**."—Khilafat Press, Love Lane, Maragaon.
 "**Rahbar**."—(Fortnightly), Cumballa Hill.

MONTHLY

- "**Tameed**."—(Anglo-Urdu), 20, Jivaji Mansion, Vincent Road, Dadar.
 "**Tanwir**."—Ajmal Printing Press, opp. J. J. Hospital.

KANNADA

WEEKLY

- "**Khalsa**."—(Gurumukhi Weekly), 302, Kalbadevi, Bombay 2.

SINDHI

- "**Hindustan**."—(Daily), 13, Hamam Street, Fort, Bombay.
 "**Sansar Samachar**."—(Daily), Sansar Samachar Printing Press, 208, Vincent Road, Dadar.

WEEKLY

- "**Hindvasi**."—(Sindhi Weekly), 13, Hamam Street, Fort, Bombay 1.

BENGALI

DAILY

- "**ANANDA BAZAR PATRIKA**."—(Bengali Daily from Calcutta), 8, Sooterkida Street, Calcutta 1. Phone: 232283-89. Bombay Office: United Bank of India Bldg., Sir P. Mehta Road, Bombay. Phone: 252188. Gram: "ANANDBAZAR."

NON-FERROUS METALS

- Adamji Lookmanji & Co.—Rahimtoola House, Homji Street, Fort. Associated Agencies (Bombay).—47, Podar Chambers, Parsi Bazar Street.

- B. M. VAKERIA.—90, Kika Street, Bombay 4. Dealers in all kinds of Aluminium, Brass, Copper and Non-Ferrous Metals.

- Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort. Begraj Gupta & Co.—207, Kalbadevi Road, Bombay 2. Bombay Company Ltd.—9, Wallace Street, Fort.

- BOMBAY METAL & ALLOYS MFG. CO. PRIVATE LTD.**—Off Magazines Street, P.O. Box 6210, Bombay 10. Phones: 76104, 76106, 76108. Grams: "BOMALLOY."

- Bombay Wire & Metal Products.—272-2, Masjid Bunder Road, Opp. Imperial Bank, Bombay 3.

- C. EMICHAUD & CO.—46A, Abdul Rahman Street, Bombay 3. Dealers in Hardware & Non-Ferrous Metals. Grams: "SHIPCOCK."

- CHANDULAL NARANDAS.—96, Kika Street, Shop No. 1, Bombay 4. Phones: 73645 and Res.: 39549. Grams: "METALMART." Direct Importers & Dealers in Copper & Brass Rods, Pipes, Sheets, Sheathing Wires Strips, Phos, Bronze and Monel Metal Rods, Sheets, Wires, Tin, Lead, Zinc, Antimony White Metal Tin Solder etc.

- CHOONILAL MOHANLAL & CO.—Shop No. 54, Kika Street (Gulabwadi), Bombay 4. Importers & Dealers in Ferrous & Non-Ferrous Metals & Alloys. Phone: 72064. Grams: "RODS."

- DINESHCHANDRA KESHAVALAL & CO.—209, Kika Street, Bombay 2. Phones: 73205, Res.: 39670. Importers, Stockists and Dealers in Copper & Brass Rods, Pipes, Sheathings, Sheets, Strips and other Non-Ferrous Metal Merchants.

- EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 Lines). Offices at Madras, Calcutta, New Delhi.

- Great Western Engineering Works.—"Sea View," 1st Pasta Lane, Colaba, Bombay 5.

Greaves Cotton & Co., Ltd.—Forbes Street, Bombay 1.
 Guest, Keen, Williams, Ltd.—Sprott Road, Ballard Estate, Bombay 1.
 Imperial Chemical Industries (India) Private Ltd.—Imperial Chemical House, Douglas Road, Ballard Estate.
 India Metal Agencies.—"India House", Opp. G.P.O., Bombay 1.
 Indian Standard Metal Co., Ltd.—Chinchpokli Cross Lane, Bombay 27.
 Jacks, William & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Fort.
 James Finlay & Co., Ltd.—Mahatma Gandhi Road, Bombay 1.
 Jayant Metal Manufacturing Co.—152, Lohar Street, Bombay 2.
 Kamalabankar P. Joshi.—72-80, Nagdevi Cross Lane.
 Kamani Engineering Corp., Ltd.—Kamani Chambers, Nicol Road, Ballard Estate, Fort.
 Kamani Metals & Alloys Ltd.—Kamani Chambers, Nicol Road, Ballard Estate.
 LALLUBHAI KALIDAS.—136, Janti Mohala, Bombay 3. Dealers in all kinds of Aluminium, Copper, Brass and non-Ferrous Metals.
 MANEKCHAND MOHANLAL POONAWALA.—80, 2nd Bhoiwada, Bombay 2. Phone: 73890 (Office). Grams: "COBRA-METAL." Importers & Dealers in Non-Ferrous Metals and Alloys such as Copper, Zinc, Tin, Lead, Scraps, etc. Manufacturers and Suppliers of Copper Conductors, Strips, Bus-Bars and Rods to latest B.S.S.
 Marwah Bros. (India) Ltd.—54-57, Nagdevi Cross Lane, Bombay 3.
 METAL DISTRIBUTORS PRIVATE LTD.—12-18, Vithalbhai Patel Road, Bombay 4. Importers, Exporters & Indenters of Metals, Virgin & Scraps. Phones: 73315 and 73390. Grams: "DEATURANA." Head Office: 38, Strand Road, Calcutta. London Associates: Metal Distributors (U.K.) Ltd., 13/14, King Street, London E.C.2.
 METALLICA WORKS PRIVATE LTD.—11, Worli Road Bombay 18. Phones: 75432, 75433, 75434. Makers of Non-Ferrous Metals, Castings, Machinings, Anodes, Lead Lining of Acid Resisting Containers.
 MITRA, H. P.—304/305, Himalaya House, Dr. Dadabhai Naoroji Road, Bombay 1. Phone: 283341. Grams: "MITRAMET." Representing Bassett Smith & Co., Ltd., 15/18, Lime Street, London E.C.3. Non-Ferrous Metals Scrap, Residue, Ores, Mineral-Miner Metals, Stainless Steel.
 MOHANLAL RAMANLAL POONAWALA.—32, 2nd Bhoiwada, Bombay 2. Phones: 73627 & 73689. Grams: "METAL-TRADE".
 Montana Ltd.—Bahimtoola House, Homji Street, Fort.
 Non-Ferrous Metal Refinery.—24, Sitafalwadi, New Anjirwadi, Mount Road, Masagaoon, Bombay 10.
 SAYAJIDIN TALIBALLY.—55-57, Nakhuda Street, Kolsa Mohala, Bombay 3. Phone: 38824. Grams: "TAMBAWALA." Direct Importers and Dealers in Non-ferrous Metals, Rods, Tubes, Sheets & Strips, etc., etc.
 Sepulchre Brothers (India) Ltd.—Taj Building, 210, Hornby Road.
 SHAK & CO., P. C.—104, Dhanji Street, 2nd Floor Bombay 3. Grams: "METALKING." Stockists of all kinds of non-ferrous metals & screws, such as copper, brass, Phosphor-Bronze, Monel Metals, Rods, Tubes, Wires, Sheets, Strips, De-oxidised weldable quality copper sheets and Electrolytic copper sheets and Electrolytic copper conduits, Bus-Bars, Strips, Earthwire and Tinned Fuse copper wire.
 Sivramkrishnan, M.—Haji Mansi, 82-86, Abdul Rehman Street, Bombay 2.
 Techno Industrial Co.—107, Sir Vithaldas Chambers, 16, Apollo Street, Fort.
 United Mill Stores (India).—61, Nagdevi Street, Bombay 3.

NON-FERROUS METALWARE MANUFACTURERS

Bombay Brass & Metal Works.—Panjrapole 2nd Street, Bombay 4.
 Eastern Aluminium Works.—60, Bapu Khote Cross Lane, Kika Street, Bombay 3.
 G. K. Kansara.—Kansara Chawl, Bombay 2.
 Gupta Metal Industries Ltd.—Gupta Mills Estate, Reay Road, Darukhana, Bombay 10.
 Kamani Engineering Corporation Ltd.—Kamani Chambers, Nicol Road, Ballard Estate, Bombay 1.
 Kandivil Metal Works, C/o Messrs. Natwarial & Co.—Dhobi Wadi, Thakurdwar, Bombay 2.
 LALLUBHAI AMINGCHAND PRIVATE LTD.—Proprietors, "Dun Aluminium Factory," 225/27, Tardeo Road, Bombay 7. Manufacturers of all Non-Ferrous Metal Wares and Articles. Phone Nos. 41618 and 73226. Grams: "CYCLEBRAND."
 Oriental Metal Pressing Works Private Ltd.—131, Worli, Bombay 18.

PEARL METAL WORKS.—22, Wadi Bunder Road, Masagaoon, Bombay 10. Phone: 73890. Grams: "PEARLWORKS." Manufacturers of "PEARL" Brand Brassware.
 Pitamberdas Lalubhai & Co.—86, Kansara Chawl, Kalbadevi Road, Bombay 2.
 Standard Metal Works Ltd.—17, Falkland Road, Low Level, Bombay 7.
 Tarkar, B. A.—50, Kansara Chawl, Kalbadevi Road, Bombay 2.
 Vajeram Devchand & Bros.—21-22, Chirabazar, Dukerwadi, Bombay.

NOVELTIES

Aurora Toys and Novelties.—"Farimal", Keluskar Road South Shivaji Park, Dadar, Bombay 28.
 Ebrahim Alibhoy & Sons.—260-64, Abdul Rehman Street, Bombay 3. Phone: 53463. Importers and Exporters.
 Excel Process Works.—Manufacturers of Advertising Gift Items, Excel House, Ghodbunder Road, Irla, Vile-Parle, Bombay 24.
 Grand Bazar.—25, Colaba Causeway, Bombay 1.
 Metal Industries.—163, Narayan Dhuru Street, Bombay 2.
 Noble Jewellery Mart.—Capitol Cinema Bldg., Bori Bunder, Bombay 1.
 Salemahomed Padamsee & Co.—141, Chakla Street, P.O. Box 3131, Bombay 3.
 Stewarts Laboratories.—327, Hornby Road, Fort, Bombay 1.

OFFICE EQUIPMENT

Artytoys.—Sir Ratan Tata Road, Tardeo, Bombay 7.
 Bharat Electric and Engineering Corporation.—Free Press Building, Ground Floor, 21, Dalal Street, Fort, Bombay.
 BOMBAY SAFE MANUFACTURING CO.—307-9, Kalbadevi Road, Bombay 2. Phone: 22367 (Office & Showroom), 71589 (Factory). Manufacturers & Dealers of Steel Furniture, Hospital Equipment, etc.
 BOMBAY TYPEWRITING INSTITUTION.—(Recognised by Government), Typewriting Taught, Typewriters & Duplicators Bought, Sold, Repaired & Hired. Type-copying & Duplicating Work Undertaken. Opp. The General Post Office, Bhada Mitra Mandal, Fort Street, Fort, Post Box No. 936, Bombay 1. Phone: 25-2464.
 "EKDAM"—Factory for Time-Saving Office Equipment, National House, 8, Tulloch Road, Behind Regal Cinema, Apollo Bunder, Bombay 1. Phone: 38958. Manufacturers of Steel Furniture, Filing Cabinets, Filing Systems, Card Cabinets, Card Systems, All-Metal Feather-weight, Loose-Leaf Ledgers & Binders. Auxiliary Equipment for Punched-Card-Systems.
 Express Corporation.—Co-operative Insurance Building, 81r Phiroshah Mehta Road, Fort.
 Filing Equipment Co.—Manufacturers of all kinds of Office Files, P. O. Box 4032, Bombay 7.
 General Equipment Merchants, Ltd.—People's Building, Sir Phiroshah Mehta Road, Fort.
 Gestetner Duplicators Ltd.—Construction House, Ballard Estate, Bombay. Phone: 21041.
 Gillanders Arbutnot & Co., Ltd.—16, Queen's Road Estate, Bombay 1.
 HINDUSTAN FABRICS & STORES PRIVATE LTD.—Fulchand Nivas, Chowpatty Sea Face, Bombay 7. Phone: 27108. Grams: "SWAKALA".
 James Manufacturing Co.—407, Kalbadevi Road, Bombay 2. Phone: 22874.
 KHIRA STEEL WORKS PRIVATE LTD.—H.O. & Factory: Ghodbunder Road, Santa Cruz, Bombay 23. Grams: "STEELCASE." Phones: 89002 & 89069. Regd. Office: Khira Bhavan, Sandhurst Bridge, Bombay 7. Grams: "SWAKALA". Phone: 27636. Showroom: Fulchand Nivas, Chowpatty Sea Face, Bombay 7. Grams: "SWAKALA". Phone: 27108.
 KILBURN & CO., PRIVATE LTD.—Gresham Assurance House, Sir Phiroshah Mehta Road, Bombay. Phone: 251908. Grams: "TASCONIUM".
 KORES (INDIA) PRIVATE LIMITED.—Plot No. 10, off Haines Road, Worli, Bombay 18. Phone: 73454 (Three-lines). Grams: "KORESCARO".
 Kulkarni Bros.—388-94, Sheikh Memon Street, Bombay 2.
 Kwik Stationery Mart.—206, Abdul Rehman Street, Bombay 3.
 National Cash Register Co.—Steelcrete House, Backbay Reclamation, Bombay 1.
 National Steel Equipment Co.—Nalgaum Road (Near Spring Mills), Dadar, Bombay 14.

OFFICE EQUIPMENT CO. OF INDIA.—Bombay Mutual Building, 3rd Floor, Sir Phirozshah Mehta Road, P.O. Box No. 712, Bombay 1. Phone: 263424. Grams: "BROWNMAR." Manufacturers of Loose-Leaf Books, Filing System & Steel Equipment.

Prince, H. I. & Son.—9, Lily Court, Churchgate Reclamation, Bombay. Cable: "BRUNSVIGA." Phone: 37441.

REMINGTON RAND OF INDIA LIMITED.—Manufacturers of Remington Rand Business Equipment. Address: Thackersey House, Graham Road, Ballard Estate, Bombay. Phone: 261196 (2 lines). Grams: "REMINGTONS."

Roneo Limited.—39, Bastion Road, Bombay 1.
Steel Age Industries Private Ltd.—Opp. Post Office, Mazagaon, Bombay 10.

Steelmade, Dr. Annie Besant Road, Worli, Bombay 18.
Universal Typewriter Co.—31, Nawab Bldg., 327, Hornby Road, Bombay 1; Phone: 251949.

OIL AND LEATHER CLOTH MANUFACTURERS DEALERS

Bhor Industries Private Ltd.—Ganesh Prasad, 10 Sleater Road, Bombay 7.

DEHAMPUR LEATHER CLOTH CO., LTD.—10, Chowpatty Sea Face, Opp. Tilak Statue, Bombay 7, India. Phone: 40516. Grams: "PUNEM." Manufacturers of P.V.C. Coated Fabrics for Heavy Upholstery.

Dharamshi Ramji.—241, Masjid Bunder Road, Bombay 3.
Gandhi, R. & Co.—Kitchen Garden Lane, Bombay 2.
Hariram Bhawanji Co.—156, Masjid Bunder Road, Bombay 3.
Jivanlal & Company (Estd. 1937).—464, Sardar Valabhbhai Patel Road, Bombay 4.

Kapadia & Co.—19, Sir Phirozshah Mehta Road, Fort, Bombay 1.
Leather Cloth Processors & Printers.—Moghul Lane, Matunga, Bombay 16.

MAMAJI & SON (PRIVATE) LTD., Y.A.—136-38, Sir Ebrahim Rahimtoola Road, Bombay 3. Phone: 71282. Grams: "MA-MAJISON." Importers & Exporters. P.V.C. Leather Cloth, Motor & Carriage Upholstery Materials, Saddlery & Harness goods and all kinds of Felt.

Menty, S. M., & Co.—13, Horniman Circle, Fort, Bombay 1.

NATIONAL LEATHER CLOTH MANUFACTURING CO.—Manufacturers of P.V.C. Leather Cloth, Waterproof Cloth and Bookcloth. 480, Sandhurst Road, Bombay 4. Phone: 71097. Grams: "LEATHERETE."

SELWEL CORPORATION.—Nakhuda Reghay Market, Bombay 3. Dealers in P.V.C. Sheeting, Rexine, Oil Cloth etc.

WESTERN INDIA MANUFACTURERS' AGENCY PRIVATE LTD.—180, R. K. Building, Khetwadi Main Road, Bombay 4. P.O. Box 574, Bombay 1. Phone: 71615. Grams: "ARTLEATHER." Dealers in Leather Cloth, Oil Cloth and Bag Body Building materials, Branches: Calcutta, Delhi & Madras.

OIL BURNERS

Heatly Gresham Ltd.—9, Forbes Street, Bombay 1.
Jacks, William & Co., Ltd.—Hamilton House, Ballard Estate, Bombay 1.

PIONEER EQUIPMENT CO. PRIVATE LTD.—139, Meadows Street, P.O. Box 1908, Bombay 1. Phone: 25-1682. Also at 1, Mangoe Lane, Calcutta 1. Phone: 231611 and 193, Mount Road, Madras 2. Grams: "PIOMETAL." Representing: Kay Engineers, Calcutta for Foundry Lamps, Cupola Lighters, Large pressure Burners for Rail Roads, etc.

OIL ENGINES SPARE PARTS IMPORTERS & DEALERS

Acme Manufacturing Co., Ltd., The.—Construction House, Ballard Estate, Bombay.
Associated Machine & Tool Co.—130, Meadows Street, Fort.
Atul Engineering Co.—49, Apollo Street Fort, Bombay.

B. KUMAR METAL WORKS.—Sitafalwadi, Mount Road, Mazagaon, Bombay 10. Phone: 40384. Grams: "BEKUMAR." Manufacturers of Oil Engines Crank Shafts, Connecting Rods and other spares.

Bharat Industrial Co.—77-79, Nagdevi Cross Lane, Bombay 3.
Brady, W. H., & Co., Ltd.—Churchgate Street, Fort.
Chhaya Trading Co.—Opp. Share Bazar Building, Hamam Street, Fort.
Drewet Chowna & Co.—Lentin Chambers, Meadows Street, Fort, Bombay.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Shree-nivas House, Waudby Road, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi, Bangalore and Secunderabad.

Eastern Electric and Refrigeration Co.—14, Hamam Street, Fort, Bombay.
Engineer, Eruch D., & Co.—Crossby House, Apollo Street, Fort, Bombay.

ESSENTIAL ENGINEERING CO.—11, Botawala Building, Elphinstone Circle, Fort. Phone: 282940. Grams: "ESSENCE." Importers, Exporters, Commission Agents and Manufacturers' Representatives.

General Commercial and Industrial Co.—Vishram Bhuvan, 1st Floor, 41, Kolbhat Street, Bombay 2.

Graves Cotton & Co., Ltd.—Forbes Street, Bombay 1.
Gujarat Industrial Corporation.—22, All Chambers, Tamarind Lane, Fort, Bombay 1.

Hasambhoy Jetha.—Opp. Byculla Goods Depots, Parel Road, Bombay 27.

India Engineering Works.—Opp. Share Bazar Building, Hamam Street, Fort.

Jacks, William & Co.—Hamilton House, Graham Road, Ballard Estate, Fort.

Jayems Engineering Co.—Warden House, Sir Phirozshah Mehta Road, Fort.

Jhala, B. T., & Co.—9, Forbes Street, Fort, Bombay.

Khimandas Jagumal & Sons (Estd. 1910), Sind.—12, Hornby View Building, Gunbow Street, Fort.

Larsen & Toubro Ltd.—I. C. House, Dougall Road, Ballard Estate, Fort.

Mata Lachhmi Company.—Husseni Chambers, Nanabhai Lane, Fort.

Nagree Limited.—Nagree Building, 60, Custom House Road, Fort.

Paramount Industrial Stores.—16, Ropewalk Street, Bombay 1.

Parekh Bros., Ltd.—65, Mahatma Gandhi Road, Fort.

Parry & Co., Ltd.—United India Building, Sir P. M. Road, Fort.

Power Machines Corporation.—31, Forbes Street, Fort.

P. Rai & Co.—105, Apollo Street, Fort.

Radiant Engineering Co.—79, Meadows Street, Bombay 1.

Shah Machine Tools Co.—78, Abdul Rehman Street, Bombay 3.

Sigil (India) Services Ltd.—Ismail Building, 380, Hornby Road, Fort.

Sivramkrishnan, M.—Haji Mansil, 82-86, Abdul Rehman Street, Bombay 3.

Small-Diesels Ltd.—36, Western India House, Sir Phirozshah Mehta Road, Fort.

TALWALKER BROTHERS PRIVATE LTD., W. R.—Lentin Chambers, Dalal Street, Fort, Bombay. Phone No. 30367. Grams: "PUMFEMAMEL."

Usha Textiles and Machinery Corp.—75, Tamarind Lane, Bombay 1.

Volitas Limited.—Ballard Estate, Bombay 1.

OIL EXPELLERS

JAWARMAL GULABCHAND.—12, Rampart Row, Fort, Bombay 1. Phone: 263167. P.O. Box No. 1883. Grams: "MANAGANGA." Ball Bearing and Machinery Merchants and Mfrs. of J. G. Baby Oil Expellers.

OIL MILLS (COMPANIES), IMPORTERS & EXPORTERS

AHMED OOMERBHAY OIL MILLS.—Two Tanks, Bombay 8. P.O. Box No. 4511. Oil Millers, Exporters & Importers. Manufacturers of Vegetable Products, Refined Oils and all kinds of Edible & Non-edible Raw Oils, Oilcakes etc. Phone Nos. 41977 and 73325. Grams: "AHMEDMILLS."

BEHAVNAGAR OIL & CHEMICAL INDUSTRIES PRIVATE LTD.—Sales Office: Bombay Mutual Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Grams: "BOCIL." Phone: 26-1359, Bombay and 223, Bhavnagar. H.O. & Factory: Mahatma Gandhi Road, Bhavnagar. Managing Director: M. Merchant.

Blundell Spence & Co., Ltd.—See Elephant Oil Mills Ltd.
Bombay Oil Industries Pvt. Ltd.—285/287, Narshi Natha Street, Bombay 9.

Cooper & Co.—53, Abdul Rehman Street.

ELEPHANT OIL MILLS PRIVATE LTD.—Rustom Building, Churchgate Street, P.O. Box 663, Bombay. Phone: 251246/7. Grams: "ELUNTRIPP."
Gore, D. G.—31, Mangaldas Road.

GWALIOR OIL MILLS, Bombay.—Linseed oil. Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate, Bombay.

Hindustan Oil Mills.—Nawab Mansion, 22, Gunbow Street, Fort. Grams: "Paultext." Head Office & Works at Ghat Road, Nagpur.

INDU OIL & SOAP CO.—Office: 335, Katha Bazar, Bombay 9. Phone: C/o 20476. Mills: 5-B, Nanaraj Lane, Byculla Bridge, Bombay 27. Phones: 46067 (Mills), 62051 & 63534 (Res.). Grams: "COCOINDU." Manufacturers of guaranteed altered pure coconut oil Kishti and Motor car Brands.

Jamnadas Laljee Oil Mills.—Champsai Bhimji Wadi, Old Anjirwadi, Masagon.

JAYANT OIL MILLS.—13, Sitafalwadi, Masagon, Bombay 10. Phones: 74283 & 74285. Grams: "SWEETOIL." Exporters, Importers, Seeds & Oil Merchants. Specialised in Castor Oil & allied products. Jamnagar Mills; Grain Market, Jamnagar. Phone: 345 (Office); 54 (Res.).

KAMANI OIL MILLS.—365-67, Narsi Natha Street, Katha Bazar, Bombay 9. Phones: 30559 (Shop), 76387 (Mill), 60966, 63401, 62677 (Res.). Grams: "COCOPURE." Mills: Near Gas Co., Lal Baug, Bombay 12. Guaranteed Pure Coconut Oil & Copra Cake Manufacturers. Branch: 735, Shukerwar Peth, Poona 2.

Lokmanya Oil Mills.—Palghar, Dist. Thana. Omedchand Kashiram & Co.—Mudi Bazar, Bombay 3. Premji Haridas & Co.—Bhanushali Chambers, Argyle Road, Bombay 9. Raja Oil Mills.—88, Musjid Bunder Road. Ram Agency.—200, Kazi Syed Street, Bombay 9.

SEREE LAXMI OIL MILLS.—378/380, Narsi Natha Street, Bombay 9. Phone: 39315. Grams: "EMAREN." Sonal Rangnow & Co.—41, Hamam Street, Fort, Bombay. Swastik Oil Mills, Ltd.—Salt Pan Road, Wadala, Bombay 31. Tata Oil Mills, Co., Ltd.—Bombay House, 24, Bruce Street, Fort, Bombay.

Tide Water Oil Co. (India) Ltd.—Nicol Road, Ballard Estate, Bombay.

Wharton, H. W., & Co., Ltd.—339, Hornby Road, Fort.

OIL SEALS

Agra Engineering Co.—84, Apollo Street, Bombay 1.

B. CHOWDHURY & CO.—Indian Globe Chambers, Fort Street, Bombay 1. Phone: 26-3478. Grams: "BISUKHI." Sole Agents for Carl Freudenberg, West Germany.

Kumar Commercial Co.—Nadirshaw Sukhia St., off Cawasji Patel St., Bombay 1.

OILS, OIL CAKES & OILSEEDS

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi. Harchandani Sons.—229, Musjid Bunder Road, Bombay 3. Hind Trading Co.—All Chambers, 78-80, Tamarind Lane, Fort. Hindustan Engineering Co. (Machinery Dept.)—25, Ropewalk Street, Rampart Row, Fort, Bombay.

Kotak & Co.—Navsari Building, Dr. Dadabhai Naoroji Road, Fort, Bombay.

Miriam & Co.—Bell Building, Sir Phirozshah Mehta Road, Fort.

SHIVLAL MOTILAL.—Hansraj Building, 56-60, Masjid Bunder Road, Bombay 3. Oil & Oil Cakes Manufacturers and Exporters; Suppliers of Fertilizers. Phones: 70635 and 61157. Grams: "FATHOMLESS."

Swastik Oil Mills Ltd.—Saltpan Road, Wadala, Bombay 31.

Sorabji Nowroji & Co.—16, Horniman Circle, Fort.

Uttam Lal, V., & Co.—P.O. Box No. 1531, Bombay.

OIL MILLS MACHINERY & OTHER EQUIPMENT IMPORTERS

Atlas Engineering Co.—Crescent Chambers, Tamarind Lane, Fort.

BEARAT INDUSTRIAL CORPORATION.—Manufacturers of Oil Expellers' Spare Parts and Allied Machinery; Petit Compound, Grant Road, Bombay 7. Phone: 41361. Grams: "EXPEL PART."

B. KUMAR METAL WORKS.—Sitafalwadi, Mount Road, Masagon, Bombay 10. Phone: 40384. Grams: "BEKUMAR." Engineers, Manufacturers and Contractors; Specialists in Oil Mill Machinery & Spares.

ESSENTIAL ENGINEERING CO.—11, Botawala Building, Elphinstone Circle, Fort. Grams: "ESSENCE." Phone: 252940. Importers, Exporters, Commission Agents and Manufacturers' Representatives.

Hindustan Engineering Co. (Machinery Dept.)—25, Ropewalk Street, Rampart Row, Fort.

Jayema Engineering Co.—Warden House, Sir Phirozshah Mehta Road, Fort.

Kilburn & Co. Private Ltd.—Gresham Assurance House, Sir Phirozshah Mehta Road, Bombay.

Laxmi Engineering Works.—40, Khetwadi 10th Lane, Bombay 4.

Marshall Sons & Co. (India) Ltd.—Ballard Road, Bombay 1.

Nofco Engineers.—P. O. Box 270, Bombay 1 (India). Cable: "Nofco." Phone: 262452.

Oriental Engineering Co.—25, Forbes Street, Fort, Bombay 1.

Paramount Industrial Stores.—15, Ropewalk Street, Bombay 1.

Volitas Limited, Ballard Estate, Bombay 1.

Western India Engineering Co.—Signal Hill Avenue, Sewree, Bombay 15.

OLD JEWELLERY BUYERS

CHUNILAL & CO.—17-19, Dhanji Street, Bombay 3. Phone: 29991.

OPTICAL GOODS MFRS., & DEALERS

MARVIN & CO.—3, Modi Chambers, Kennedy Bridge, Bombay 4. Phone: 40445. Grams: "VINMAR." Factory: Pipe Road, Kuria. Manufacturers of Optical Hinges—Side Wires & Metal Frames.

MONTEK CORPORATION.—Yusuf Bldg., Mahatma Gandhi Road, Fort, Bombay 1. Manufacturers of Spectacle Frames, Sun-Glasses & Lenses.

OPTICIANS

Artbangle Private Ltd.—204, Dr. Dadabhai Naoroji Road, Bombay 1. Ballwala & Homi Ltd.—365, Hornby Road, Fort.

Bharat Optical Company.—Kalbadevi Road, 366/68, Ibrahim Mansion, Bombay 2.

Darbar Singh & Sons.—166, Hornby Road, Fort.

F. C. Whitten and Co.—227, Hornby Road, Fort, Bombay 1.

Ghaswala, Dr. K. S., L.M.S.—Dr. Ghaswala's Eye Hospital, "Edena," 105, Queen's Road.

Hatim Brothers.—302, Abdul Rehman Street.

Holms-Optics.—Qualified German Sight Testing Opticians, 8, Kiplanade Mansions, Fuller Road, Fort, Bombay 1.

Homi & Co.—Dhootpeshwar Prasad, Girgaum Road, Bombay 4.

Kataria Optical Factory.—104, Clarke Road, Jacob Circle, Bombay 11.

Lawrence & Mayo (India) Ltd.—274, Hornby Road, Fort.

Lund & Blockley.—Sassoon Institute Building, 150, Mahatma Gandhi Road, Fort.

Mansukhlal & Co.—356, Kalbadevi Road.

Patson Ocularium.—2, Regal Cinema Building, Apollo Pier Road, Fort, Bombay 1.

Patel, Dr. V. K., F.S.C.O., D.O., M.O. (Jena, Germany).—2, Regal Cinema Building, Apollo Pier Road, Fort, Bombay 1.

Phillips & Co.—Waterloo Mansion, Mayo Road, Fort.

PHIROZE M. DASTOOR & CO.—Next to Eastern Bank Ltd., opp. Flora Fountain, 378, Hornby Road, Fort.

P. S. SHIRODEKAR & SONS.—Ranade Road, Dadar.

R. C. GHOSE & SONS.—329-B, Kalbadevi Road, Bombay 2. Phone: 30530. H.O.: Calcutta. Sole Agents for Bausch and Lomb's Ophthalmic Products (U.S.A.).

REMEDIOS OPTICIANS.—Oculists and Opticians. 255, Dr. Dadabhai Naoroji Road (Hornby Road), Fort, Bombay. Phone: 263336.

TAKANDAS H. KATARIA.—Showroom: 323-325, Abdul Rehman Street, Bombay 3.

OVENS (HOT AIR)

GROVERS PRIVATE LTD.—Shed No. 3, Opp. Gwallier Palace, Dr. Annie Beasant Road, Worli, Bombay 18. Phone: 73248. Grams: "IFCACO." Manufacturers of Ovens, Hot Air and Vacuum Dryers.

OVERHEAD LINE MATERIALS.

EVERGREEN CORPORATION.—Gopal Nivas, Lohar Street, P.O. Box No. 2733, Bombay 2. Phone: 20691. Grams: "IMPTUBE." Electrical Poles, Stay Rods, Wires, High and Low Tension Insulators, Joints, Arms and other Electrical Goods.

OXYGEN AND GAS FACTORIES

Bombay Gas Co., Ltd.—Empire House, 214, Dr. Dadabhai Naoroji Road (Hornby Road).

Chapman & Co., K.—Opp. Marwari Vidyalaya, Sandhurst Road.

Indian Oxygen Ltd., The.—(Ghatkopar (Bombay-Agra Road), Bombay. Phone: 67941 (4 lines). Grams: "INDOXCO".

Lightfoot Ice & Cold Storage Co.—Hansraj Lane, Byculla Bridge.

Sirdar Carbolic Gas Co., Ltd.—Connaught Road, Masagon.

PACKING

Artytoys.—Sir Ratan Tata Road, Tardeo, Bombay 7.

Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.

DEHREIN & CO.—Lakhani Bldg., 34, Cawasji Patel Street, Fort, Bombay. Phone: 252767. Art Printers and Manufacturers of Cardboard Boxes, Cartons, Labels, Wrappers, Folding Boxes and packing Materials.

JAYANT PAPER BOX FACTORY.—People's Building, Sir Phirozshah Mehta Road, Fort, Bombay 1. Phone: 262805. Grams: "FIBREBOX." Manufacturers of Single face Corrugated Paper Rolls, Double face Corrugated Boards and Containers, Wrappers, Liners, Cartons, round and fancy cosmetic boxes and packing requisites. Factory: Jayant House, Ball Bazar, Andheri, Agra Road, Kurla. Phone: 67424.

Jaydip & Co.—Sambava Chambers, Sir Phirozshah Mehta Road, Fort, Bombay.

KADRI PAPER BOX FACTORY.—Noor Mansi, Mohamedali Road, Bombay 3. Phone: 21656. Plain and Fancy boxes of every size & description with Printing if required and Cardboard Tubes for Calendars.

LESLIE, E., & CO.—Botawalla Building 7-10, Horniman Circle, Fort, Bombay. Professional Packers, Customs Licensed Shipping, Forwarding, Passenger Insurance & Warehousing Agents. Phone: 25540. Grams: "RITTA."

MANIAR BROS.—6th Duncan Road Cross Lane, Bombay 8. Phone: 41718. Grams: "RACOF." Suppliers of paper Shavings (Trimmings) used in packing Wooden or Cardboard Boxes & Cases.

New Jack Printing Works.—Seksaria Mills Compound, Globe Mills Passage, off DeLisle Road, Bombay 13. Phones: 60042-43. Grams: "NEWJAKPRES."

New Pack Industries.—Lotus House, 33A, Marine Lines, Bombay 1. Packers (India) Co.—Packing Consultants and Packing Material Suppliers. Manufacturers' Representatives. 34-38, Hamam Street, Fort. Phone: 252019. Tel. Address: "Packwell."

Reliance Trading Co.—25-47, Lohar Street, Bombay 2.

Ryland Paper Box Manufacturing Co.—Box Manufacturers and Carton Boxes manufacturers, Timberware Compound, near Paradise Talkies, Lady Jamshedji Road, Mahim, Bombay 16.

Standard Paper Box Manufacturing Co.—51, Mangaldas Road, Lohar Street, Bombay 2.

PACKING CASES

Artytoys.—Sir Ratan Tata Road, Tardeo, Bombay 7.
Brijmohan Banwarilal.—61, Reay Road, Mazagaon, Bombay 10.

GODSE & COMPANY.—Sitaram Bldg., Palton Road, Bombay 1. Phone: 261892. Manufacturers of Wooden Boxes to Customers' requirements.

GULAMALLI SUJAUDIN & CO.—18/26, Sarang Street, Bombay 3. Phone: 28782. Leading Manufacturers of Wooden Boxes.

Indian Commercial Agency.—Regd. Office: Nasir Palace, opp. Dockyard Railway Station, Mazagaon, Bombay 10.

Northern India Timber Corp.—63, Reay Road Bombay 10.

Packers (India) Co.—34-38, Hamam Street, Fort, Bombay.

Plastic Extruders Private Ltd.—204, Dr. Dadabhai Naoroji Rd., Fort, Bombay.

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Cooverji Hormusji & Sons, N.—298, Wadia Bldg., Chitra Bazar, Girgaum Road, Bombay 2. Phone: 39910.

DAVAR, N. CO.—Syndicate Bank Building, Sir Phirozshah Mehta Road, Bombay. Phone: 26-1880. Interior Decorators and Painting Contractors. Show Room: Hampton Court, Wedhouse Road, Colaba, Bombay 5.

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Bakubhai Ambalal Private Ltd.—Wittet Road, Bombay 1.

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Adamally Kikabhai Rangwala.—300, Shaik Memon Street, Bombay 8.

Addisons Paints & Chemicals Ltd.—Husur Gardens, Sembiam, Madras 11. Distributors for Bombay, Maharashtra and Saurashtra: Messrs. Amzel Ltd., Lotus House, Marine Lines, Bombay.

Advance Paints Ltd.—125, Meadows Street, Fort.

Ahmed Moosa Motiwala & Sons.—Tank Road, Parel.

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Akbarally Sharfally Zaveri.—25, Ebrahim Rahimtoola Road, Bombay 3.

AMIRUDIN SHALESHOY TYEBJEE & SONS.—Shale Building, 2nd Floor, Bank Street, Fort, Bombay 1. Phone: 252982. Grams: "PILOTACE."

Amritlal & Co., Ltd.—Sprott Road, Ballard Estate, Fort.

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COOPER & CO.—53, Abdul Rehman Street, Bombay 3. Phone: 20768. Grams: "COOPEROL." Manufacturers of Paints, Enamels, Varnishes, Distempers, Emulsion Paints & Industrial Finishes.

Corbon Dry Colour Works.—115, Nagdevi Street, Bombay 3.

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Elphinstone Paint & Colour Mfg. Co.—50, Elphinstone Road, Bombay 13. Phone: 62970. Grams: "EPCO." Manufacturers of high class "EPCO" brand enamel paints, stiff paints, oil bound distemper, varnishes, etc.

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Goolamally Dawoodbhoy & Co.—23, Mangaldas Road, Princess Street, Bombay No. 2. Phone No. 30423.

Great Eastern Trading Co.—107, Cowasji Patel Street, Fort.

Hardcastle, Wand & Co., Ltd.—Alice Building, Hornby Road, Fort. Herman & Mohatta, B. R., Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort.

Holmes & Co., Ltd.—Alice Buildings, Hornby Road, Fort.

Imperial Chemical Industries (India), Ltd.—Imperial Chemical House, Dougall Road, Ballard Estate.

INDIA HARDWARE & CHEMICAL CO.—11, Bank Street, Fort, Bombay 1. Phone: 254158. Grams: "YARAZZAQ." Sole Agents for "SOLAR" Paints manufactured by the Solar Paint & Varnish Mfg. Co., Calcutta.

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Jenson & Nicholson (India), Ltd.—Mackinnon Mackenzie Building, Ballard Estate, Bombay.

Kalapi Colour Trading Co.—42, Dadaysheth Aglary Lane, near G.T. High School, Bombay 2.

Kanthawala, N., & Co.—77, Meadows Street, Fort.

KAPADIA BROTHERS.—81, Abdul Rehman Street, Bombay 3. Phone: 29108. Grams: "DECORATORS". Paint Merchants & Painting Contractors. Chief Stockists of 'Noble Paints.'

MACFARLANE & CO., LTD.—34, Lamington Road (North), Bombay 6.

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MAGANLAL JETHALAL & CO.—126, Nagdevi Street, Bombay 3. Phone: 23804. Estd. 1916. Importers and Dealers in Paints, Varnishes and Artist's Brushes, Ultramarine Blue, "Fluoresco" and Fluorescent Colours. Stockists of E. O. M. Products.

Mahomedbhoy Abdulhusein & Bros.—Opp. Ram Mandir, Nagdevi Street.

MARVIN & CO.—3, Modi Chambers, Kennedy Bridge, Bombay 4. Phone: 40448. Grams: "VINMAR". Stockists of 'Duce', 'Dulux', 'Nocol Paints & Thinners'.

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MERCURY PAINTS & VARNISHES PRIVATE LTD.—Cadell Road, Agar Bazar, Bombay 28. Phones: 63707 & 63898. Grams: "GUARANTEED." Bombay. Manufacturers of best quality Paints, Varnishes, Enamels, etc., etc., for industry and home "Mercury Brand."

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National India Engineering Co., Ltd.—7-10, Elphinstone Circle, Fort.

Nazarally Mulla Jivaji & Co.—116, Masjid Bunder Road.

Nazarally Samsuddin & Sons.—283, Sheikh Memon Street.

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New Mahaluxmi Oil Mills.—37, Frere Road, Bombay 9.

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Palloni, M., & Co.—87, Abdul Rehman Street.

PARAMOUNT PAINT INDUSTRIES.—Jyoti Studio, Kennedy Bridge, Bombay 1. Factory: Andheri-Kurla Road, Bombay 41. Phone: 86762. Manufacturers of Paints, Enamels, Varnishes Oils and Industrial Stoving Enamels etc.

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Shivji Lavji & Co.—133, Khadak.

STAR PAINT & OIL INDUSTRIES.—Crescent Chambers, Tamarind Lane, Bombay 1. Mfrs. of Industrial & Marine Paints & Synthetic Enamels. Specialists in "SILVO" Aluminium Paint: General purpose, Roof-top, High Temperature Heat Resisting upto 1000° F. & Rubberex Rubber Paint (For Chemical Resisting). Grams: "STARPAINT." Phone No. 253493.

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Turner, Morrison & Co., Ltd.—16, Bank Street.

UNITED COLOUR COMPANY.—(Mfg. Divn. Ramson Paint Mfg. Corp.). Manufacturers of 'RAMSON' Nitrocellulose Lacquers, Synthetic Enamels, Industrial Finishes and Auxiliaries. Kastur Nivas, 26/A, French Road, Bombay 7. Phone: 73862. Grams: 'STEPONIT'. Factory at Thana. Phone: 64/1122, Thana.

Wakefield, C. C., & Co., Ltd.—Walkeshwar Road, Malabar Hill, Bombay.

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WILLIAM JACKS & CO., LTD.—Hamilton House, Graham Road, Ballard Estate, Bombay. Manufacturers of quality Paints, Varnishes, Enamels, Distempers, Cellulose Lacquers and Industrial Finishes.

ZENITH VARNISH WORKS (ESTD. 1927).—11, Dhobi Street (Near Zakaria Masjid), Bombay 3. Phone: 30089.

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Akbarally Sharafally Zaveri.—25, Ibrahim Rahimtulla Road, Bombay No. 3.

Ambalal Dharamchand & Co.—1, Essaji Street, Vadgadi, Bombay 3. Phone No. 32541.

Amritlal, K., & Co.—27-29, Mirza Street, Parsi Galli.

Arvinda Trading Co., Ltd.—105, Apollo Street, Fort.

Asiatic Paper Company.—56, Sutar Chawl, Bombay 2.

ASOK BROTHERS PRIVATE LTD.—104, Apollo Street, Fort. Phone: 254339. Grams: "ASOKBROS". Importers of all sorts of Paper and Boards.

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Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Bombay 1.

Bansil Dhar Kapoor & Sons.—73-75, Mirza Street, 3rd Floor, Bombay 3.

Beardsell, W. A., & Co., Ltd.—15-16, Sir Phirozshah Mehta Road, Fort.

Bharat Paper Mart.—51, Sutar Chawl, Bombay 2.

Bhargava & Co., K. C.—P. Box No. 10, Bombay 1.

Bombay Stationery Mart.—7-A, Sir Phirozshah Mehta Road, Fort.

Bombay Trading Co.—"Dhun-Nur," Sir Phirozshah Mehta Road, Fort.

Bombay United Agencies, Ltd.—21, Western India House, Sir Phirozshah Mehta Road Fort.

Cama, Norton, & Co.—23, Meadows Street, Fort.

Chalasani & Co.—Noble Chambers, Parsi Bazar Street, Fort.

CHAMPAKLAL LALWANI & COMPANY.—Dealers in all kinds Indian & Foreign Papers & Metals and Exporters of Iron and Manganese Ore. 31, Mirza Street, Bombay 3. Phone: 22103. Grams: "OREMINES."

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Chitmanlal & Co.—33/42, Shamsett Street, Bombay.

CHITMANLAL PAPER COMPANY.—Importers of High Grade Papers, Boards and Mill Representatives, Bombay Mutual Building, Dr. Dadabhai Naoroji Road, Fort. Grams: "SELECTION." Phones: 263232 and 68280 (Residence).

Crystal Stationery Mart.—109, Dhanji Street, Bombay 3.

C. T. Mehta Bros.—Noble Chambers, Parsi Bazar Street, Fort, Bombay 1.

Deccan Paper Mart.—52, Mirza Street.

Dhanjil Paper Corporation, The.—P. O. Box No. 1134, Bombay.

Dharia, B., & Co.—Sutar Chawl, Bombay 2.

DICKINSON JOHN & CO., LTD.—Kumta Street, Fort. Paper Makers, Manufacturing Stationers and Printing Material Merchants. Phone: 26-3386 (2 Lines). Grams: "LIONBRAND."

Dilaj & Co.—20, Hamam Street, Fort.

EAST INDIA PAPER CO.—People's Building, Sir Phirozshah Mehta Road, Fort, Bombay 1. Phones: 282301 & 284068. Grams: "INDIAPRINT". Importers of all varieties of papers—Sole distributors of the BALLARPUR Paper & Strawboard Mills Ltd., for Bombay, Bengal & Assam and of "WISDOM" Exercise Books for Bombay, Mysore & whole of South India—Distributors for Bombay of the Nepa Mills. Branches at: Calcutta, Ahmedabad & Poona.

EAST & WEST TRADING CO., THE.—Advani Chambers, 4th Floor, Sir Phirozshah Mehta Road, Fort, Bombay 1 (India). Grams: "BARRAGE." Phone: 264067-68-69. Sole Prop.: T. J. Lalvani. Branches: 232, Govindappa Naicken Street, G. T. Madras. Grams: "COLORPRINT." Phone: 58273.

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Elof Hansson Agency Ltd.—Adelphi House, 3, Queen's Road, Bombay.

Empire Traders.—Stationers, Printers & Paper Merchants, 18, Hassan Chambers, Parsi Bazar Street, Fort.

Fatehi Bros.—General Paper Merchants, 191, Abdul Rehman Street, Post Box No. 8049, Bombay 3.

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FINLAY, JAMES & CO., LTD.—Chartered Bank Bldg., Mahatma Gandhi Road, Fort, Bombay 1.

FRIENDS PAPER STORES.—299, Abdul Rehman Street, Opp. Safe Bank Ltd., Bombay 3. Phone: Office: C/o 20343 and Factory: 28078. Grams: "AZADPAPER."

GANDHI, R. K., & CO. (Estd. 1930).—Aga Khan Building, Dalal Street, Fort, Bombay. Phone: 255684. Grams: "BOARD-PAPER." Agents for Messrs. Storm & Bull Ltd., Oslo, Norway. Indent Orders for all kinds of Paper and Boards invited. Stockists of Indian made Velvet Papers in different Colours.

GEORGE F. HITCHMAN.—Waterloo Mansion, Opp. Regal Cinema, Bombay 1. Phone: 36173. Grams: "INDOPAPER." Manufacturers' Representatives: 1. Parsons & Whittemore Ltd., London; 2. Aktiebolaget Stamma, Stockholm; 3. T. Yamada & Co. Ltd., Kobe, Japan; 4. Foh Lee Co. Ltd., Shanghai, China.

Gets Bros. & Co.—Western India House, Sir Phirozshah Mehta Road, Fort.

Great Eastern Trading Co.—107, Cawasji Patel Street, Fort.

Hardcastle, Waud & Co., Ltd.—Alice Building, Hornby Road.

Haveliwala Paper Mart.—"Zainab House," 34-36, Mirza Street, Bombay 3.

HIMATLAL & CO.—Importers and Manufacturers' Representatives. Representing in India. The Nationalised Paper Industries of German Democratic Republic. Head Office: 28, Noble Chambers, Parsi Bazar Street, Fort. Phone Nos. 258683 and Residence: 61896. Grams: "HIMSHAH." Branches: Calcutta and Madras.

Hoosain & Bros., M. A.—Lakshmi Building, Sir Phiroozshah Mehta Road, Fort.

India Paper Corporation.—64, Sutar Chawl, Bombay 2.

INDSAL (INDIA) PRIVATE LIMITED.—2, Mherwan Bldg., Sir Phiroozshah Mehta Road, Fort. Cables: "INDSAL." Phone: 253421.

INDULAL & CO.—Motilal Mansion, 11/45, Tamarind Lane, Bombay. Phone: 256455. Grams: "USHA." Agents for Meerut Strawboards Mills, Meerut. Branch: Kapasia Bazar, Ahmedabad.

International Impex Corporation.—18, Motilal Jamnadas Building, 64, Sutar Chawl, Bombay 2. Phone: 23566. Grams: "INTIMEX-COR."

International Paper Co.—26, People's Building, Sir Phiroozshah Mehta Road, Fort.

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Laxmi Commercial Co.—44, Mirza St., 1st Floor, Bombay 3. Grams: "LAXMIPAPER." Importers & Paper Merchants.

MAEVI & COMPANY.—Nawab Building, 4th Floor, 327, Heraby Road, Fort, Bombay. Phone: 253235.

Mahesh Paper Mart.—56-58, Dhunji Street, 2nd Aglary Lane, Bombay 3. All kinds of Paper, Boards & Printing Trade Accessories. Grams: "MANTHAN." Phone: 27691.

MAHOMEDALLY HEBATBOY & CO.—15, Mirza Street, Bombay 3. Dealers in all kinds of Indian Papers, Stationery and Strawboard, Printing Inks, etc. Phone: 22324. Grams: "TAHERI."

MAKERS PRIVATE LTD.—59, Forbes Street, Fort, Bombay 1. Phone: 253090. Grams: "LARGEFIELD."

MANUKHLAL SUKHLAL & CO. (Estd. 1923)—Ghoga Street, Fort, Bombay. Direct Importers of Paper, Boards and Stationery. Phone No. 254242. Grams: "PADDY."

Model Art Printery Ltd.—4, Nanabhai Lane, off Churchgate Street, Fort.

MOHANLAL & CO.—56, Sutar Chawl, Bombay 2. Phone: 27831. Grams: "MILLPAPER." Paper and all sorts of Boards Merchants.

Mohamedali Abdulhussein.—83, Mirza Street, Bombay 3. Phone: 27536. Grams: "Mohsein."

MULTANI PAPER MART.—302, Kalbadevi Road, Bombay 2. Shop: 29, Sutar Chawl, Bombay 2. Phones: 34576 & 23708. Grams: "HEASIN."

NATVERLAL & BROS.—40, Sutar Chawl, Bombay 2. Phone: 36602. Grams: "GILLETTE." Dealers in Tissue Papers, Kraft Papers, etc.

Navyug Paper Stores.—120, Dhunji Street, Bombay.

New India Stationery Mart.—9, Humnum Street, Fort.

Noble Paper Mart.—Hassan Chambers, Parsee Bazar Street, Fort, Bombay.

Noble Stationery Mart.—Parsee Bazaar Street, Fort, Bombay.

N. V. Kelkar & Co.—1st Floor, Sardar Griha, Bombay 2.

Ochavial & Bros.—62, Sutar Chawl.

Oriental Paper Co.—Windor Chambers, Cowasji Patel Street, Fort.

PARDIWALA PAPER MART.—322, Parsi Bazar, Fort. Phone: 251444. Grams: "PAPERMART." The Popular House for Paper, Boards, Inks, Printing Materials and Book Binding Cloth.

Patel, B. K., & Co.—106, Medows Street, Fort.

Patel Paper Mart.—Kanbai Bhuvan, opp. Hira Bang, Kandewadi.

Pavri Sons & Co.—95-97, Bazar Gate Street, Fort.

Phulchand & D. Sethis & Co.—38, Marwadi Bazar, Bombay 2.

P. KIRPALANI & CO.—Bulakidas Building, 11, Vithaldas Road, Bombay 2. Phone: 20497. Grams: "CROMOPAPER." Direct Importers & Stockists of Paper & Boards.

Prabhat Trading Company.—Vithal Sayana Building No. 2, Lohar Chawl, Bombay 2.

Pratul Paper Mart.—54, Sutar Chawl, Bombay 2.

PRANLADRAI DALMIA & SONS.—51, Podar Chambers, Parsee Bazar Street, Fort, Bombay 1. Phones: 253113 & 255167. Grams: "PANQUICK." Authorised distributors for paper & boards Manufactured by Rothas Industries Ltd., Dalmianagar.

PROVINCIAL PAPER CO.—Jawahar Mansion, Thakurdwar Road, Bombay 2. Phone: 26302. Grams: "BOTTOM-RATE." Importers—Papers—Boards, etc.

Ratilal P. Mehta & Co.—65, Sutar Chawl, Bombay 2.

R. B. Shrivastani & Co.—73, Bombay Mutual Building, Hornby Road, Fort, Bombay 1.

R. Gulamhussein & Bros.—41-43, Mirza Street, Parsi Gully.

R. Kantilal & Co.—Zaveri Bhuvan, 2nd Aglary Lane, Parsi Gully, Bombay 3.

ROHITKUMAR & CO.—272, Sheikh Memon Street, Hira Bldg., Zaveri Bazar, Bombay 2. Phone: 26345. Grams: "CELLPHONE." Stockists of Paper, Boards and all kinds of Packing Papers.

Rowlandson Bros. (Estd. 1927).—Podar Chambers, Parsee Bazar Street, Fort, Bombay.

ROYAL PAPER STORES.—Maple Bldg., 187-89, Abdul Rehman Street, Bombay 3. Grams: "ROSTOPAPER."

S. Kumar & Co.—People's Buildings, Sir Phiroozshah Mehta Road, Fort, Bombay 1.

Sales Corporation.—110/112, Dhanji Street, Bombay 3. Phone: 21589. Grams: "SALESCO."

SCANFENNIA PAPER CO. (BOMBAY) PRIVATE LTD.—53/57 Lakshmi Bldg., Sir Phiroozshah Mehta Road, Bombay 1. Phone: 261931. Grams: "FINSKAN."

SHAH BROTHERS.—81, Mint Road, Bombay 1. Phone: 263257. Grams: "VARSHITA." Manufacturers' Representatives for Newsprint-Papers-Gray Boards.

Shah & Company.—108, New Citizen Bank House, Palton Road, Bombay.

Shambhulal A. Shah & Co.—Podar Chambers, Parsi Bazar Street, Fort.

Shantilal Shah & Co.—Bombay Mutual Annexe, 17, Gunbow Street, Fort.

Shree Trading Co.—250, Girgaum Road, Bombay 4.

SIDDHO MAL & SONS.—49, Sutar Chawl, Bombay 2. Phone: 39477 (Office), 241845 (Res.). Grams: "REALART." Importers of Paper, Boards and Stationery. H.O.: Delhi 6.

SOUTHERN INDIA TRADING CORPORATION.—Himalaya House, Hornby Road, Bombay 1. Phone: 261028. Grams: "SOUTRADES." Dealers in Papers, Boards, Piece-goods and Empty Gunny bags.

Spicers (Export), Ltd.—Imperial Chambers, Wilson Road, Ballard Estate.

Standard Paper Co.—72-74, Sutar Chawl.

Subodh Indent Agency.—44, Kumar Villas, Mangalwadi, Girgaum.

Sultanali Mohamadali (Estd. 1895).—148, Sarang Street, Bombay 3.

SUPERIOR STATIONERY MART PRIVATE LTD.—117, Medows Street, Fort. Phone: 25-2396. Grams: "LOVELINESS." Printers and Paper Merchants.

Swastik Paper Mart.—54, Sutar Chawl, Bombay 2. Telephone: 24461 and 72516. Grams: "NETWETT."

United Company.—Peerbhoy Building, 89, Princess Street, Bombay 2. Phone: 26449. Grams: "Typedaler."

United Corporation.—National Indian Life Building, 59, Forbes Street, Fort.

Van Reekum Paper, Ltd.—Shale Building, Bank Street, Fort.

Variety Paper Co.—Maher House, 15, Cowasji Patel Street, Fort, Bombay.

Vasiralli Ltd.—Prospect Chambers, Hornby Road, Fort.

WIGGINS TRAPE & ALEX. FINE (EXPORT) LTD.—Agents in Bombay for Charles Morgan & Co., Ltd., Paper Merchants, Kamani Chambers, Nicoll Road. Telegrams: "WINCHMORE." Phone No. 261622.

Yacoub Ahmed Brothers.—Topiwala Mansion, Mohamedalli Road.

PAPER (WASTE)

MANIAR BROS.—6th Duncan Road Cross Lane, Bombay 8. Phone: 41718. Grams: "REOOF." Dealers in Waste paper, Press cuttings, old Records (Account-Bill books, Letter Files and documents to be destroyed) and all other paper Industry Raw Materials.

P. CARLTON & CO.—Calcutta National Bank Building, 26A, Sir Phirozshah Mehta Road, Bombay 1. Phone: Office: 261889.

V. K. Stevens & Co.—12th Lane, Khetwadi, Bombay 4.

PEARLS (SIMULATED) MANUFACTURERS

GOLDFILLED MERCANTILE CO.—Premier Manufacturers of Simulated Pearls, Glass Beads and Costume Jewellery. 15, Easton Road, Fort, Bombay. Phones: Office: 261768 & 265323; Factory: 26279. Grams: "GOLDFILLER."

PERFORATED METAL SHEETS MFRS.

HARIHARCHANDRA & CO., JALIWALA—233, Abdul Rehman Street (opp. Sutar Chawl), Bombay 3. Manufacturers of Perforated Metal Sheets of all kinds, and Stockists of MAX-WELD Fabrics, Expanded Metals, Wire Netting of all kinds. On Govt., Railway & Municipal Lists. Grams: "HARIJALI."

S. MEHTA & CO.—Knees Chambers, Carnac Road, Bombay 1. Phone: 28-3061. Grams: "DUTYBOUND." Wire Netting and Perforated Metals and Stainless Steel Wire Nettings and Monel Metal Wire Nettings; Importers, Exporters and Merchants.

PERFUMERS & PERFUMERY RAW MATERIALS

Ahmed, D., & Sons.—Toher Mansion, 10-A, Nepean Sea Road, Bombay 26.

Akbarally Ebrahimji Pharmacy & Department Stores.—45/47, Veer Nariman Road, Bombay.

A. Hami Bros.—3, Commercial Chambers, Masjid Bunder Road, Bombay 3.

Allwyns Private Ltd.—92-94, Ardeshir Dady Street, Vithalbai Patel Road, Bombay 4.

Anand & Co.—Nanjee Building, 4th Floor, 17, Horniman Circle, Bombay 1.

Anil Trading Co.—Sharaf Mansion, 32, Princess Street, Bombay 2.

AROMATIC PRODUCTS & CHEMICALS PRIVATE LTD.—42, Prospect Chambers Annex, Dr. Dadabhai Naoroji Road, Fort. Phone: 283151. Grams: "DISCOVERY." Stockists of Imported Perfumery, Raw Materials and Manufacturers of Perfume Compounds.

B. C. Patel & Co.—Devkaran Mansion, Princess Street, Bombay 2.

Bhagat & Sons.—21-23, Shamset Street, Bombay 2.

Bhalchandra Upasani.—338, Samuel Street, P.B. No. 3268, Bombay 3.

Bombay Agarbatti Co.—Simplex Building, Pawwalla Street, near Krishna Cinema, Bombay 4.

Bombay Chemicals Private Ltd.—129, Mahatma Gandhi Road, Bombay 1.

Bombay Perfumery Co.—Devkaran Mansion, Princess Street.

CALCUTTA ESSENCE SUPPLY CO.—Mulchand Mansion, 1st Floor, Princess Street, Bombay 2. Grams: "SUPRALUX." Phone: 23623. Dealers & Importers of Essential Oils, Aromatic Chemicals & Perfumery Compounds. Agents for Industrial Perfumes Private Ltd., for Bombay State (Except Bombay City) and West Bengal including Calcutta.

Chavannes & Co., Private Ltd.—P.B. No. 552, Mercantile Chambers, Graham Road, Ballard Estate, Bombay 1.

Chimanlal Maganlal & Co.—4, Mangaldas Road, Princess Street, Bombay 2.

Chunilal Prabhudas & Co., (Bombay) Private Ltd.—211-12, Himalaya House, Palton Road, Bombay 1.

Colaba Drug Stores.—Nandam Manil, Colaba Road, Bombay 5.

Coryse-Salome, Paris.—Regal Building, Apollo Bunder.

Dalai Bros.—74, Swadeshi Market, Kalbadevi Road, Bombay 2.

DAVAR, M. C. & CO.—143, Princess Street, Bombay 2. Aromatic Chemicals, Essential Oils and perfumery materials. Agents for Esrolite Ltd. (Flora), Switzerland.

D. D. Shah & Co.—Annes Chambers Annex, Carnac Road, Bombay 1.

Derby & Co.—P. B. Press Building, 299, Frere Road, Fort.

D. G. Gore.—31, Mangaldas Road, Princess Street, Bombay 2.

East Asiatic Co. (India) Private Ltd.—Wavell House, Graham Road, Ballard Estate, Bombay 1.

Eastern Aromatics.—105, Hindu Colony, 4th Road, Dadar, Bombay 14.

Hamdar Trading Co.—Devkaran Mansion, 63, Princess Street, Bombay 2.

Ethical Products (India) Private Ltd.—Advani Chambers, Sir Phirozshah Mehta Road, Bombay 1.

Eve Fabrics Private Ltd.—Indu House, Dougall Road, Ballard Estate, Bombay.

Fedoo Private Ltd.—Mafatal House, Backbay Reclamation, Bombay 1.

Foreign Scent Supplying Syndicate.—Santa Cruz, Bombay 23.

F. W. Pollack & Co.—11, Oak Lane, Fort, Bombay 1.

General Import Co. (India).—Keshav Baug, 102, Princess Street, Bombay 2.

Gore, D. G.—31, Mangaldas Road, Bombay 2.

Grand Bazar.—25, Colaba Causeway, Bombay 1.

Gujarat Essence Mart.—Keshav Baug, 25, Princess Street, Bombay 2.

Gulab Singh Johrimal.—62-62A, Marwari Bazar, Bombay 2.

G. P. Patel & Co.—Mansoor Building, 98, Princess Street, Bombay 2.

Gupta & Co.—Shroff Mansion, Princess Street, Bombay 2. Manufacturing Perfumers. H. O.: Sadar Bazar, Delhi. Branch: 2-66, Ezra Street, Calcutta 1.

Hami & Co.—Perfumers. Cutlery Market, Jumma Masjid, Bombay 2.

Harrison & Co.—168-170, Cumballa Hill.

Hasanali Kamroodini.—10, Shamset Street, Chippi Chawl, Bombay 2.

Hira, P. H., & Co.—18-20, Princess Street, Bombay 2. Phone: 31299. Grams: "PERFUMES."

H. K. Dyer, C/o Keshavaji Jamnadas.—Tankahal Bhuvan, 3rd Floor, Kalbadevi Road, Bombay 2.

H. M. Zakaria & Bros.—Perfumers, 299, East Sandhurst Road, Bombay 3.

Ina Trading Co.—35, Vithaldas Road, Princess Street, Bombay 2.

International Import Export Co.—Kytawala Building, Elphinstone Circle, Churchgate Street, Bombay 1.

INDUSTRIAL PERFUMERS PRIVATE LTD.—Head Office: 3rd Floor, Army & Navy Bldg., Mahatma Gandhi Road, Bombay 1. Phone: 255226/9 Extn. 3 & 4. Factory: Ray Bunder Road (Tata Oil Mills Compound), Sewri, Bombay 18. Phone: 73331. Manufacturers of Aromatic Chemicals and Perfumery Compounds.

Jayantilal & Co., B.—15, Mangaldas Road, Princess Street, Bombay 2.

J. L. Morison Son & Jones (India) Ltd.—Contractor Bldg., Ballard Estate, Bombay.

Kalapi Store.—53-56, Swadeshi Market, Kalbadevi Road, Bombay 2.

Kapadia & Co.—Bell Building, Sir Phirozshah Mehta Road, Bombay 1.

K. H. Dhamdhare.—Devkaran Mansion, 45-47, Princess Street, Bombay 2.

Madon, M. T., & Co.—The "Corner-shop", 346, Abdul Rehman Street.

Madon, Sons & Co.—Madon Mansion, 67, Hughes Road, Bombay 7.

Manek Chemical Company.—Bhadaran Nagar, Ghodbunder Road, Malad, Bombay.

Manilal Motichand Kanani & Co.—Dawawalla Building, Princess Street, Bombay 2.

M. B. Thakkar.—105, Princess Street, Bombay 2.

M. C. Davar & Co.—Sai Bhuvan, 148, Princess Street, Bombay 1.

M. D. Patel & Co.—Devkaran Mansion, Princess Street, 1st Floor, Block No. 1, Bombay 2.

Mehta Nariman & Co.—"K" Building, Fort Street, Bombay 1.

Mercantile Essential Oil Co.—5, Mint Road, Fort, Bombay 1.

M. M. Khambhatwala, C/o C. Narottam & Co.—Mangaldas Road, Bombay 2.

Mohanlal Roshanlal & Co.—119, Kalbadevi Road, Bombay 2.

M. B. Mody.—Mangaldas Building, Mangaldas Road, Bombay 2.

Mysore Products Ltd.—191, Princess Street, Bombay 2.

Mysore Sugandhi Dhoop Factory.—Post Box No. 3178, Masjid Bunder Road, Bombay 3.

"Nanjis."—206/208, Carnac Road, Bombay 2.

Naarden Chemical Works (India) Private Ltd.—Sevna House, 84, Annie Besant Road, Worli, Bombay 18.

Narendra & Co.—Bansilal Mansion, 11, Bruce Street, Fort.

National Overseas Corporation.—105, Princess Street, 2nd Floor, Bombay 2.

National Trading Co.—Reay House, Hornby Road.

National Trading Co.—190-191, Mangaldas Road, Bombay 2.

N. Chimanlal & Co.—5th Cavel Cross Lane, Gaiwadi (Kalbadevi), P.B. No. 2574, Bombay 2.

N. B. Shah & Company.—Mulchand Mansion, Princess Street, Bombay 2.

New India Aromatic Co.—Devkaran Mansion, No. 3, 45-17, Princess Street, Bombay 2.

Otto Manz.—14, Hamam Street, P.O. Box 1550, Bombay 1.

Patanwala, Ltd.—182-84, Abdul Rehman Street.

P. Chunilal & Co.—Mulchand Mansion, 2nd Floor, Princess Street, Bombay 2.

Pearline (Paris).—Rahman Building, Vir Nariman Street, Fort.

P. Muncherji & Co.—10, Hamam Street, Bombay 1.

Purbottam Laxmichand.—Bulakhidas Building, Princess Street, Bombay 2.

Rayon Industries.—Shree Hari Nivas, 20, Gowalia Tank Road, Bombay 26.

R. H. Mody & Co.—8, Khanderao Wadi, 1st Floor, Kalbadevi Road, Bombay 2.
 R. K. Shapurji & Co.—Prospect Chambers, 319, Hornby Road, Bombay 1.
 Royal General Supply Agency, The.—Bode Chawl, Princess Street, Bombay 2.
 R. Randow.—Kitab Mahal, Hornby Road, Bombay 1.
 Sepulchre Brothers (India) Private Ltd.—Import Dept., Taj Building, Hornby Road, Bombay 1.
 S. G. Kothari & Co.—88-90, Abdul Rehman Street, Bombay 2.
 S. H. KELKAR & CO. PRIVATE LTD.—36, Mangaldas Road, Bombay 2. Phone: 29130. Grams: "SACHEWORKS." Dadar, Bombay. Manufacturers of Essential Oils, Aromatic Chemicals, and 'COBRA' Brand Perfumes.
 SIKRI BROTHERS.—79-E, Princess Street, Bombay No. 2. Phone No. 33494. Grams: "OILMAN".
 S. Javeri & Co.—Devkaran Mansion, Block No. 3, 3rd Floor, Princess Street, Bombay 2.
 S. Parth & Co.—7, Chandra Mahal, Girgaum, Bombay 2.
 Synafor Company.—Sharaf Mansion, 32, Princess Street, Bombay 2.
 Trading Co. Late Hegt. & Co., Ltd.—Indu House, Dougall Road, Ballard Estate, Bombay 1.
 T. T. Krishnamachari & Co.—Co-operative Insurance Building, 5th Floor, Sir P. M. Road, Bombay 1.
 Tata Oil Mills Company Ltd.—Bombay House, Bruce Street, Bombay.
 V. Harkishandas & Co.—Sharaf Mansion, 32, Princess Street, Bombay 2.
 Voltas Limited.—Graham Road, Ballard Estate, Bombay 1.
 Vrajlal, B. & Co.—28, Princess Street.
 Well Company.—Stadium House, 2nd Floor, Veer Nariman Road, Bombay 1.

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PEST CONTROL (INDIA) PRIVATE LTD.—36, Yusuf Bldg., Mahatma Gandhi Road, Fort, Bombay 1. Phone: 252060. Grams: "PESTCIL". Consulting Entomologists, Termite Controls, Disinfection & Fumigation Service. Member, National Pest Control Association Inc. U.S.A. & Entomological Society of India.

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TAHIRA INDUSTRIES (INDIA) PRIVATE LTD.—33, Queen's Road, Bombay 2. Phone: 34060. Grams: "TAHIRA." Tokheim Petrol Pumps and Hand Pumps, Service Station Equipment, Special Pumps for Acids and Chemicals, Oil Line Pipe, Valves and Fittings, Rubber Hoses, Wire Ropes, Chains, Packings & Jointings.

PETROLEUM & OIL COMPANIES

Andrew Yule & Co. Ltd.—32, Nicol Road, Ballard Estate, Bombay.
 Balmer Lawrie & Co. Ltd.—5, Graham Road, Ballard Estate, Bombay.
 Burmah-Shell Oil Storage and Distributing Co. of India Ltd.—Burmah-Shell House, Currimbhoy Road, Ballard Estate, Bombay.
 CALTEX (INDIA) LIMITED.—Caltex House, Ballard Road, Ballard Estate.
 GULF OIL (INDIA) PRIVATE LIMITED.—Steelcrete House, 3, Dinsha Wacha Road, Bombay 1. Importers and Distributors of High Grade Lubricants.
 Indo-Burma Petroleum Co. Ltd.—Allahabad Bank Building, Apollo Street, Fort, Bombay.
 INTERNATIONAL LUBRICANTS PRIVATE LTD.—Court House, Dhobi Talao, Bombay 2. Phone: 29109. Grams: "LUBRICANTS." Bombay and 12-A, Ashutosh Mukerjee Road, Calcutta 20. Grams: "VISCOSITY" Calcutta. Importers of High grade Motor Oils, Lubricating Oils & Petroleum Jellies.
 Standard-Vacuum Oil Co.—Stanvac Building, 17, Jamshedji Tata Road, Bombay 1.
 Wakefield, C. C. & Co. Ltd.—White House, 91, Walkeshwar Road, Bombay 6.
 WESTERN INDIA OIL DISTRIBUTING CO., LTD.—Ellice Building, Hornby Road, Fort. Branch: Madras.

PETROLEUM PRODUCTS

M. F. JOSHI.—133, Princess Street, Bombay 2. Wholesale Dealers in Drugs and Petroleum Products. Speciality "DE-COTA" Brand.
 SUDAN TRADING CO.—Dhan-Nur, Phirozshah Mehta Road, Bombay 1. Phone: Office: 262766. Resi.: 62069. Grams: "VANJOBA."

PETROLEUM PRODUCTS MACHINERY

ASSOCIATED COMMERCIAL & MANUFACTURING ENTERPRISES PRIVATE LTD.—Jammabhoomi Chambers, Fort Street, P.O. Box No. 1895, Bombay 1. Phone: 26-2891. Grams: "ACMELEIM." Manufacturers of hand operated Dispensing Pumps, Quick Acting Valves, Pressure Vacuum Valves, Lube Oil Dispensing Pumps and all types of Fittings for Oil Industry.

PHARMACEUTICALS

ABBOTT LABORATORIES (INDIA) PRIVATE LTD.—Manufacturing Pharmaceutical Chemists, Jehangir Building, Mahatma Gandhi Road, Fort. G.P.O. Box No. 1334, Bombay. Phone No. 284282. Grams: "ABBOTTLAB." Madras Depot: Ebrahim Mansion, 3rd Floor, 3, Errabala Chetty Street, P.O. 1824, Madras 1. Grams: "ABBOTTLAB." Madras. Calcutta Depot: 6/1, Lindsay Street, Calcutta 16. Grams: "ABBOTTLAB." Phone: 233907.

Alambic Chemical Works Co., Ltd., Baroda.—Distributors in Bombay: Alambic Distributors Ltd., Lakshmi Building, Sir Phirozshah Mehta Road, Fort. Phone No. 26605.

AMRUTANJAN LIMITED.—249, Frere Road, Fort, Bombay. Phone: 261673. Grams: "AMRUTANJAN." Head Office: Madras. Other Branches: Calcutta and Delhi. Manufacturers of Amrutnanjan Pain Balm, Ring Worm Ointment, and Inhalers.

Anglo-Thal Corporation Ltd.—Ewart House, Bruce Street, Bombay 1.
 Asian Drug Corporation.—Podar Chambers, Parsi Bazar Street, Fort.
 Asiatic Pharmaceutical and Chemical Corp.—19, Bank Street, Fort, Bombay. Phone: 32478.
 Associated Agencies (Bombay).—47, Podar Chambers, Parsi Bazar Street, Fort.

ATUL DRUG HOUSE.—85, Annie Besant Road, Worli, Bombay 18. Phone: 34545. Grams: "ATULDRUG." Sole Agents and Manufacturers in India for:—Laboratories VIFOR S. A., Geneva, Switzerland; Laboratoires ROUDE, Paris, France; Laboratories RICHTER, London, Milan & Mexico; Laboratories, ARCHIFAR, Milan, Italy; COMTECK Laboratories, Bombay, India.

B-TEX OINTMENT MFG. CO.—24, Bapu Khote Street, Corner of Nul Bazar, Bombay 3. Manufacturers of B-Tex Ointment Remedy for Skin Diseases.

B.A. & Brothers.—98, Princess Street, Bombay 2.

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 Bhukhanvala & Sons.—Medows House, Medows Street, Fort.

BIOLOGICAL PRODUCTS (PRIVATE) LTD.—Commerce House, Medows Street, Fort, Bombay 1. Phone: 254140.
 Bock, F., & Co.—Shale Building, Bank Street, Fort.

BOMBAY TABLET MANUFACTURING CO.—Sales Depot, 175, Old Post Office Lane, Mangaldas Market, Mangaldas Road, Bombay 2. Grams: "SACCHARIN." Factory: Tablet House, opp. Rly. Station, Goregaon East, Bombay. Manufacturers of Pharmaceutical Products.

British Drug Houses (India) Private Ltd.—Imperial Chemical House, Ballard Estate, Fort.

CAMA, NORTON & CO.—Cama Chambers, 23, Medows Street, Fort. Phone: 255354. Grams: "CAMANORTON."

CASTOPHENE MANUFACTURING CO.—Manufacturers of Fine Household Remedies such as Castophene Laxative, Caprin, Grippe Mixture, Cough Syrups and Tablets, Ointments etc. 88, Dr. Annie Besant Road, Worli, Bombay 18. Phone: 32466. Grams: "CASTOPHENE." Branch at Delhi 6, and Agencies throughout India.

CHARAK BHANDAR.—Head Office, Sales Depot & Clinic, at Kapoor Mansion, 49, Hughes Road, Bombay 7. Phone: 42998. Grams: "FIRST". (1) Branch & Clinic: at Navadhan Bhuvan, Dhanji Street, Mumbai, Bombay 3. Pharmaceutical Manufacturers of Ayurvedic Pharmacopoeial Medicines, Specialties & Specific remedies.

CHEMICAL, INDUSTRIAL & PHARMACEUTICAL LABORATORIES, LTD. (CIPLA).—299, Bellasis Road, Byculla. Phones: 78211, 78212 and 78213.

CHEMIDYE TRADING CO., LTD.—Kamner Building, Cawasji Patel Street, Fort, Bombay 1. Phone: 251034.

CHEMO-PHARMA LABORATORIES LTD.—Manufacturers of Ethical Pharmaceuticals and Fine Chemicals. Office: 75, Dr. Annie Besant Road, Worli, Bombay 18. Phone: 76952. Factory: Plot No. C.S. 215, Sewri, Bombay 15. Phone: 63231. Grams: "CHEMOLAB." Managing Agents: Nadekari & Co.—Gool Mansion, Homji Street, Fort.

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DEY'S MEDICAL STORES PRIVATE LTD.—Manufacturers and Exclusive distributors for American Cyanamid Company, Fine Chemical Division, New York; G. Zambon & Co., S.p.A., Vicenza, Italy; Continental Pharma, S.A., Brussels, Belgium; Winthrop Products, London & New York; BYK-Gulden, Lomborg, Germany. Head Office: 6/2B, Lindsay Street, Calcutta, 16. Bombay Office: Himalaya House, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Delhi Office: 2/3619, Fais Bazar, Darya Ganj, Delhi 7. Madras Office: 290, Linghi Chetty Street, Madras 1.

DUMEX PRIVATE LTD.—Manufacturers and Importers of Pharmaceuticals, Baby Food and Baby Soap, Wavell House, Graham Road, Ballard Estate, Bombay 1. Phone: 26-2711. Grams: "DUMEX."

DR. BHALCHANDRA LABORATORY.—215, Charni Road, Girgaum, Bombay 4. Phone: 27221. Grams: "BHALLAB." Manufacturers of High Quality Pharmaceuticals and Ethical Specialties.

EAST ASIATIC CO. (INDIA) PRIVATE LTD. THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711, (8 lines). Offices at Madras, Calcutta, New Delhi.

Evans Medical Supplies (India) Ltd.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

FAIRDEAL CORPORATION (PRIVATE) LTD., THE.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort. Phone: 263593, Pharmaceutical Laboratories. 142-49, Ghodbunder Road, Jogeshwari, Bombay 42. Phone: 86408. Branch: Laha Paint House, 7, Chittaranjan Avenue, Calcutta 13. Phone: 23-3157.

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GEOFFREY MANNERS & CO., PRIVATE LTD.—Mfg. Chemists, Importers, Distributors & Manufacturers of Pharmaceutical Products. Head Office: Magnet House, Dougall Road, Ballard Estate, Bombay. Phone Nos. 26-1361-2-3, Branch Office and Sales Depot: Cadell Road, Dadar, Bombay. Phone No. 61225. Factory: Hattersley Mills Estate, Bombay-Agra Road, Ghatkopar, Bombay. Phones: 67414 and 67060. Branches: Calcutta, Delhi, Madras, Bangalore and Gauhati.

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 Dhanukhlal & Co.—Ganeshwadi, Mulji Jetha Market, Bombay 2.
 Dhanvantrai C., & Co.—Champa Gulli, Bombay 2.
 Dharamsi Mathuradas & Co.—Ghadial Gully, Mulji Jetha Market, Bombay 2.
 Dharamsi Ramji.—Swadeshi Market, Radha Gulli, Bombay 2.
 Dharamsi Ranchhodas & Co.—Navi Gulli, Mulji Jetha Market, Bombay 2.
 Dhirajlal Hirjee.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
 Dhirajlal S. Shah & Co.—Navi Gulli, Mulji Jetha Market, Bombay 2.
 Dhirajlal Vrajil & Co.—Champa Gulli, Bombay 2.
 Dillipkumar & Co.—Ghadial Gully, Mulji Jetha Market, Bombay 2.
 Dineshchandra & Co.—Pragraj Gulli, Mulji Jetha Market, Bombay 2.
 Doctor C., & Co. Ltd.—12, Bruce Street, Fort, Bombay 1.
 Doshi A. M., & Co.—Chandra Chowk, 2nd Gulli, Mulji Jetha Market, Bombay 2.
 D. P. Bros.—Lakhmida Market, 1st Gulli, Bombay 2.
 Dwarakadas & Co.—Gaumukh Gulli, Mulji Jetha Market, Bombay 2.
 Dwarakadas Keshavlal & Co.—86, Sugar Chawl, Bombay 2.
 Dwarakadas Meghji (Private) Ltd.—Swadeshi Market, Bombay 2.
 Fajalbai & Tulsidas.—Sheikh Memon Street, Bombay 2.
 Faranaram Chatrabhuj & Co.—Mangaldas Market, 5th Gulli, Bombay 2.
 Fulchand Odhavji & Co.—Chandra Chowk, 5th Gulli, Mulji Jetha Market, Bombay 2.
 Ganesh Dyeing & Printing Works.—Bombay Cotton Mill Compound, Kala Chowki, Bombay 12.
 Ganesh Gangaram & Sons.—Kashna Chowk, Mulji Jetha Market, Bombay 2.
 Ganeshhanker & Co.—10/12, Thakeral Building, Old Hanuman Gulli, Bombay 2.
 G. H. Bros. & Co.—Lakhmida Market, 1st Gulli, Bombay 2.
 Ganshyamdas K., & Co.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
 Girharlal Khusaldas & Co.—Narayan Chowk, Mulji Jetha Market, Bombay 2.
 Girharlal Navnitlal & Co.—Govind Chowk, Mulji Jetha Market, Bombay 2.
 Gobhai M. N., & Co.—Building No. 505, Kalbadevi Road, Bombay 2.
 Gokuldas & Co. Ltd.—Building No. 453/457, Kalbadevi Road, Bombay 2.
 Gokulesh Cloth Co.—Office Gulli, Mulji Jetha Market, Bombay 2.
 Gordhan P., & Co.—Sheikh Memon Street, Bombay 2.
 Gordhandas Amratlal & Co.—Building No. 28, Champa Gulli, Bombay 2.
 Gore & Co.—Fort, Bombay 1.
 Govindji & Sons.—Narayan Chowk, Mulji Jetha Market, Bombay 2.
 Govindram Hasanand & Co.—Chandra Chowk, 3rd Gulli, Mulji Jetha Market, Bombay 2.
 Great India Investment Co. Ltd., The.—70/72, Bombay Mutual Building, Fort, Bombay 1.
 Gunvantrai Chunilal & Co.—Lakhmida Market, 2nd Gulli, Bombay 2.
 Hajimusa T. S., & Co.—Karim Building, Mahamadali Road, Bombay 3.
 Hansraj Tricumdass.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
 Haridas N., & Co.—Ghadial Gully, Mulji Jetha Market, Bombay 2.
 Harshkumar Jamnadas & Co.—Lakhmida Market, 2nd Gulli, Bombay 2.
 Harilal Kantilal & Co.—Swadeshi Market, Radha Gulli, Bombay 2.
 Harischandra Ratilal & Co.—Gordhan Gulli, Mulji Jetha Market, Bombay 2.
 Harjivan L., & Co.—Narayan Chowk, Mulji Jetha Market, Bombay 2.
 Harjivandas Gordhandas & Co.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
 Harkishandas Mohanlal & Co.—Vithalwadi, Bombay 2.
 Harukhlal, J., & Co.—Lakhmida Market, 2nd Gulli, Bombay 2.
 Hasumukhlal & Bros.—Navi Gulli, Mulji Jetha Market, Bombay 2.
 Hasumukhlal & Co.—Navi Gulli, Mulji Jetha Market, Bombay 2.
 Hasumukhlal & Co.—Chikhali Gulli, Mulji Jetha Market, Bombay 2.
 Himatlal Rapulal & Co.—Navi Gulli, Mulji Jetha Market, Bombay 2.
 Himatlal, H., & Co.—Sunder Chowk, Mulji Jetha Market, Bombay 2.
 Hind Commercial Co. Ltd., The.—Building No. 72, Champa Gulli, Bombay 2.
 Hirchand Gopalji & Co.—Pragraj Gulli, Mulji Jetha Market, Bombay 2.
 Hiralal Ramanlal & Co.—Champa Gulli, Bombay 2.
 Hiralal Harakhchand & Co.—129, Bazar Gate Street, Fort, Bombay 1.
 H. Vallamamad H. Jamal.—Noormahamed Noss, 223, Ali Cottage, Chakala Street, Bombay 3.
 H. V. & Co.—Kashnara Gulli, Mulji Jetha Market, Bombay 2.
 Ibrahim Haji Elyas & Sons.—Building No. 65, Chakala Street, Bombay 3.
 Inasu, C. L.—Building No. 418, 2nd Floor, Kalbadevi Road, Bombay 2.
 Indravand Chunilal & Co.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
 Ishwarlal & Co.—9, Amar Nivas, Prarthana Samaj, Vithalbhai Patel Road, Bombay 4.
 Jagdish & Co.—Champa Gulli, Bombay 2.
 Jagjivan Pragji & Co.—Mangaldas Market, 5th Gulli, Bombay 2.
 Jagjivan Uttamchand & Co.—No. 45-47, 1st Floor, Bazar Gate Street, Fort, Bombay 1.
 Jamnadas, D., & Co.—Mangaldas Market, New Gulli, Bombay 2.
 Jamnadas, R., & Co.—Kashnara Gulli, Mulji Jetha Market, Bombay 2.

Jamnadas Brothers.—37, Sutar Bazar, Tambakanta, Bombay 3.
 Jamnadas Bros.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
 Jamnadas Narandas Bros.—Parrottam Nivas, 3rd Floor, Block No. 20, Dadysheeth Agriy Lane, Kalbadevi, Bombay 2.
 Jashvantlal Dhanukhlal & Co.—Champa Gulli, Bombay 2.
 Javerilal & Bros.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
 Jawaharlal Shobhasingh & Co.—Gaumukh Gulli, Mulji Jetha Market, Bombay 2.
 Jayantilal Haridas.—Lakhmidas Market, 1st Gulli, Bombay 2.
 Jayantilal Bros.—Vaghvadi, Kalbadevi Road, Bombay 2.
 Jayantilal Chhotalal & Co.—Shyam Bhuvan, 4th Floor, Chira Bazar, Gander Park, Thakurdwar, Bombay 4.
 Jayantilal Nanalal.—Ghadial Gulli, Mulji Jetha Market, Bombay 2.
 Jayantkumar & Co.—Dwarakesh Gulli, Mulji Jetha Market, Bombay 2.
 Jayant & Co.—Swadeshi Market, Maniar Gulli, Bombay 2.
 Jaynarayan & Co.—Krashnaraj Gulli, Mulji Jetha Market, Bombay 2.
 Jaybharat Mills Cloth Shop.—Gordhan Gulli, Mulji Jetha Market, Bombay 2.
 Jaysinh Morarji & Co.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
 Jashwantlal & Co.—Sir Vithaldas Gulli, Mulji Jetha Market, Bombay 2.
 Jechand, N., & Co.—Champa Gulli, Bombay 2.
 Jesukhlal & Co.—Swadeshi Market, New Gulli, Bombay 2.
 Jethabhai Khatau & Co.—Krashna Chowk, Mulji Jetha Market, Bombay 2.
 Jethalal V. Dave & Co.—Building No. 205, Masjid Bunder, Bombay 3.
 Jitendrakumar & Co.—82, 3rd Bhoiwada, Bhuleshwar, Bombay 2.
 Jitendra & Co.—Chandra Chowk (4th Gulli), Mulji Jetha Market, Bombay 2.
 Jivandas Bhanji & Co.—Dwarakesh Gulli, Mulji Jetha Market, Bombay 2.
 Jivandas Dayalji & Co.—Govind Gulli, Mulji Jetha Market, Bombay 2.
 Jivandas Jamnadas & Co.—Chandra Chowk, (3rd Gulli), Mulji Jetha Market, Bombay 2.
 Joshi & Mandali.—220, Charni Road, Bombay 4.
 Jupiter Mills Cloth Shop.—Gordhan Gulli, Mulji Jetha Market, Bombay 2.
 Kajaria, R., & Co.—Mangaldas Market, New Gulli, Bombay 2.
 Kakubhai & Co.—Lakhmidas Market, 1st Gulli, Bombay 2.
 Kanayalal Navnitlal & Co.—Sir Vithaldas Gulli, Mulji Jetha Market, Bombay 2.
 Kantilal & Co.—Chandra Chowk (1st Gulli), Mulji Jetha Market, Bombay 2.
 Kantilal Raichand & Co.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
 Kantilal Vithaldas & Co.—Ganeshwadi, Mulji Jetha Market, Bombay 2.
 Kapad Traders Co.—Champa Gulli, Bombay 2.
 Karasia Textile Trading Co.—Silver Mansion, 2nd Floor, 45, Dhanji Street, Bombay.
 Karsandas Premji & Sons.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
 Kathiawar Textile Mills.—Chhipi Chawl, Bombay 2.
 Kavasji Mancherji Kapadia & Sons.—Chhipi Chawl, Bombay 2.
 Keshavlal Maganlal & Co.—Madhavji Dayal's Building, Old Hanuman Gulli, Bombay 2.
 Keshavlal & Co.—Sheikh Memon Street, Bombay 2.
 Kikabhai, J., & Sons.—Chikhal Gulli, Mulji Jetha Market, Bombay 2.
 Kimatrai, J., & Co.—Bamanji Master Road, Princess Street, Bombay 2.
 Krashnalal Gordhandas & Co., C/o Messrs. Bhaichand Rugnath & Co.—Narayan Chowk, Mulji Jetha Market, Bombay 2.
 Krashnakumar Jethabhai & Co.—Champa Gulli, Bombay 2.
 Kripaldas & Co.—Sir Vithaldas Gulli, Mulji Jetha Market, Bombay 2.
 Krushna, S., & Co.—Building No. 30/32, Champa Gulli, Bombay 2.
 Kumarpal, K., & Co.—Navi Gulli, Mulji Jetha Market, Bombay 2.
 Lakhani & Co.—Building No. 12, Champa Gulli, Bombay 2.
 Lalitkumar Mulraj Khatau & Co.—Bhangwadi, Kalbadevi Road, Bombay 2.
 Lalubhai, V., & Co.—Champa Gulli, Bombay 2.
 Laxminarayan Mansukhlal & Co.—Govind Chowk, Mulji Jetha Market, Bombay 2.
 Madhavji, D., & Sons.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
 Madhavsingh, J., & Co.—Krashna Chowk, Mulji Jetha Market, Bombay 2.
 Madhavji Thakeral & Sons.—Govind Chowk, Mulji Jetha Market, Bombay 2.
 Madhusudan Gordhandas.—Ganeshwadi, Mulji Jetha Market, Bombay 2.
 Madhusudan Kalyanji.—Krashna Chowk, Mulji Jetha Market, Bombay 2.
 Madhukar Upendrakumar Co.—Building No. 98-100, Champa Gulli, Bombay 2.
 Maganlal Umaji.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
 Mahavir Silk Mills.—Chhipi Chawl, Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
 Mahendrakumar, K., & Co.—Lakhmidas Market, 3rd Gulli, Bombay 2.
 Mahendrakumar Bros. (Private) Ltd.—20, Lawyers Chambers, Lohar Chawl, Bombay 2.
 Mahendralal, B.—Dwarakesh Gulli, Mulji Jetha Market, Bombay 2.
 Mahendralal Mansukhlal.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
 Mangaldas Jeshangbhai & Bros.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.

Mangaldas Lalubhai & Co.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
 Manharlal Kanayalal & Co.—Sunder Chowk, Mulji Jetha Market, Bombay 2.
 Manilal Anandji & Co.—Lakhmidas Market, 1st Gulli, Bombay 2.
 Manilal Gordhandas & Co.—Gordhan Gulli, Mulji Jetha Market, Bombay 2.
 Manilal Mulji, D., & Co.—Sir Vithaldas Gulli, Mulji Jetha Market, Bombay 2.
 Manilal Keshavji & Co.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
 Mansukhlal, L., & Co.—Govind Chowk, Mulji Jetha Market, Bombay 2.
 Mansukhran, N., & Co.—Office Gulli, Mulji Jetha Market, Bombay 2.
 Mansukhlal, R. M., & Co.—Gordhan Gulli, Mulji Jetha Market, Bombay 2.
 Mathuradas Natverlal & Co.—Dadar Gulli, Mulji Jetha Market, Bombay 2.
 Mehta, H. P., & Co.—Swadeshi Market, New Gulli, Bombay 2.
 Mehta, J. P., & Co.—Ganeshwadi, Mulji Jetha Market, Bombay 2.
 Mehta Parekh & Co.—Building No. 98-100, Champa Gulli, Bombay 2.
 Minis, K. M., & Co.—Jai Chambers, Charni Road, Bombay 4.
 Mohanlal & Sons.—Building No. 78-84, Champa Gulli, Bombay 2.
 Mohanlal Gokaldas & Co.—Umakant Mansion, Dabholkar Wadi, Kalbadevi Road, Bombay 2.
 Mohanlal Maganlal.—Chandra Chowk (6th Gulli), Mulji Jetha Market, Bombay 2.
 Mohanlal Vallabhdas & Co.—Pragraj Gulli, Mulji Jetha Market, Bombay 2.
 Motilal Kanchanlal & Co.—Sir Vithaldas Gulli, Mulji Jetha Market, Bombay 2.
 Morarji & Sons Private Ltd.—Building No. 259, Kalbadevi Road, Bombay 2.
 Morarji Vandarvan & Co.—Krashna Chowk, Mulji Jetha Market, Bombay 2.
 Morarji Velji & Sons.—Govind Chowk, Mulji Jetha Market, Bombay 2.
 Mukul, R., & Co.—Champa Gulli, Bombay 2.
 Mulchand & Co.—Chandra Chowk, (3rd Gulli), Mulji Jetha Market, Bombay 2.
 Mulchand Hirachand & Sons.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
 Mulchand Vimalchand & Co.—Govind Chowk, Mulji Jetha Market, Bombay 2.
 Mulji Jetha & Co.—Vithalwadi, Bombay 2.
 Nagin Bros.—Lakhmidas Market, 2nd Gulli, Bombay 2.
 Nagindas, B., & Co.—Narayan Chowk, Mulji Jetha Market, Bombay 2.
 Nagindas, D., & Co.—Govind Gulli, Mulji Jetha Market, Bombay 2.
 Naginlal, S., & Co.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
 Nansal Amarchand.—Ghadial Gulli, Mulji Jetha Market, Bombay 2.
 Nanchand Mulchand & Co.—Office Gulli, Mulji Jetha Market, Bombay 2.
 Nandlal & Bros.—Pragraj Gulli, Mulji Jetha Market, Bombay 2.
 Nandlal & Co.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
 Nandlal, P., & Co.—Swadeshi Market, Radha Gulli, Bombay 2.
 Nandlal Ladhabhai & Co.—Ghadial Gulli, Mulji Jetha Market, Bombay 2.
 Narandas, H. B., & Co.—Chandra Chowk (5th Gulli), Mulji Jetha Market, Bombay 2.
 Narbheram, R., Co.—Pragraj Gulli, Mulji Jetha Market, Bombay 2.
 Narendra & Co.—Krashnaraj Gulli, Mulji Jetha Market, Bombay 2.
 Narandas Maneklal & Co.—Dadar Gulli, Mulji Jetha Market, Bombay 2.
 Narottandas Chimanlal & Co. Ltd.—Dadar Gulli, Mulji Jetha Market, Bombay 2.
 Narottandas Nanchand & Co.—Dadar Gulli, Mulji Jetha Market, Bombay 2.
 Narottam Hanaraj.—Swadeshi Market, New Gulli, Bombay 2.
 Nashar, D. M., & Co. Ltd.—Manek Chamber, 1st Marine Lines, Bombay 1.
 Naridas, D., & Co.—Dadar Gulli, Mulji Jetha Market, Bombay 2.
 Nathalal Jamnadas.—Building No. 360, 2nd Floor, Kalbadevi Road, Bombay 2.
 Natverlal Chunilal & Co.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
 Nautamlal Zaverchand & Co.—Gaumukh Gulli, Mulji Jetha Market, Bombay 2.
 Navalchand, P., & Co.—Chandra Chowk (2nd Gulli), Mulji Jetha Market, Bombay 2.
 Navinchandra Bipinkumar & Co.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
 Navinchandra & Co.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
 Navnitlal & Co.—185, Mulji Jetha Building, Princess Street, Bombay 2.
 Navnitlal, M., & Co.—Swadeshi Market, Radha Gulli, Bombay 2.
 Near East Trading Co. (India), The.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
 Nemechand, M., & Bros.—Building No. 381E, 1st Floor, Kalbadevi Road, Bombay 2.

New Bombay Dyeing & Printing Works, The.—153/155, C. P. Tank, Vithalbhaji Patel Road, Bombay 4.
 New Rajpur Mills Co. Ltd., The.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
 New Textile Ltd., The.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
 Niranjan, P., & Co.—Sunder Chowk, Mulji Jetha Market, Bombay 2.
 N. M. Bros.—Vithalsayna Building, Lohar Chawl, Bombay 2.
 Non, B. C., & Bros.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
 Nyalchand Ratanji & Co.—Ghadial Gulli, Mulji Jetha Market, Bombay 2.
 Ochhavi & Sons.—Krashnaraj Gulli, Mulji Jetha Market, Bombay 2.
 Omkarmal & Co.—Goraj Gulli, Mulji Jetha Market, Bombay 2.
 Pendse, L., & Co.—196, Charni Road, Bombay 4.
 Parekh Bros.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
 Parikh, P. J., & Co.—Vithalwadi, Bombay 2.
 Parsottam Govindji & Sons.—Krashna Chowk, Mulji Jetha Market, Bombay 2.
 Parsottam Jannadas & Co.—Govind Chowk, Mulji Jetha Market, Bombay 2.
 Parsottam Lalji.—Ghadial Gulli, Mulji Jetha Market, Bombay 2.
 Parsottam Surchand & Co.—Mangaldas Road, Bombay 2.
 Patel Ghanshyamdas & Co.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
 Patil Brothers.—Karsandas Mulji Building, Old Hanuman Gulli, Bombay 2.
 Pioneer Piecegoods Co.—Goraj Gulli, Mulji Jetha Market, Bombay 2.
 Popatlal Juthabhai.—Lakhmidas Market, 3rd Gulli, Bombay 2.
 Prabhodhchandra & Co.—Ghadial Gulli, Mulji Jetha Market, Bombay 2.
 Prabhodhchandra Himatlal & Co.—Dadar Gulli, Mulji Jetha Market, Bombay 2.
 Prabhat Patel Depot.—Champa Gulli, Bombay 2.
 Prabhat Thread Co.—33, Dukkhar Wadi, Chitra Bazar, Gazder Park, Thakurdwar, Bombay 4.
 Prabhudas Vrajilal.—Goraj Gulli, Mulji Jetha Market, Bombay 2.
 Prabhulal, P., & Co.—Whiteaway Laidlaw Building, 2nd Floor, Hornby Road, Fort, Bombay 1.
 Pragas Mathuradas Bombay Private Ltd.—28/30, Anantwadi, Bhuleshwar, Bombay 2.
 Praggi, J., & Co.—Lakhmidas Market, 1st Gulli, Bombay 2.
 Pratapsinh Karansinh & Co.—Shop No. 10, Chandra Chowk, Mulji Jetha Market, Bombay 2.
 Pratapsinh & Co.—Dwarkanesh Gulli, Mulji Jetha Market, Bombay 2.
 Pravin Brothers.—145, Kavel Street, Kalbadevi Road, Bombay 2.
 Pravinchandra, M., & Co.—Ghadial Gulli, Mulji Jetha Market, Bombay 2.
 Premchand Gomaji Sons & Co.—Vithalwadi, Bombay 2.
 Premchand Kachrabhai & Co.—Champa Gulli, Bombay 2.
 Premji Khushal & Co.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
 Radheshyam Shambhunath.—Chandra Chowk (6th Gulli), Mulji Jetha Market, Bombay 2.
 Raghunath & Co.—Govind Gulli, Mulji Jetha Market, Bombay 2.
 Raghunath & Co.—Champa Gulli, Bombay 2.
 Raghunath Ramchandra Samant & Bros.—Champa Gulli, Bombay 2.
 Rajnikant Bros.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
 Rajiv & Co.—Sir Vithaldas Gulli, Mulji Jetha Market, Bombay 2.
 Ramanlal Ratilal & Co.—Chandra Chowk (2nd Gulli), Mulji Jetha Market, Bombay 2.
 Ramesh & Co.—Girilla Building, Champa Gulli, Bombay 2.
 Rameshchandra & Co.—Vithalwadi, Bombay 2.
 Rameshchandra Jannadas & Co.—Krashnaraj Gulli, Mulji Jetha Market, Bombay 2.
 Rameshchandra Kantilal & Co.—Chikhali Gulli, Mulji Jetha Market, Bombay 2.
 Rameshkumar & Brothers.—Vithalbhaji Patel Road, Bombay 4.
 Rameshkumar Dawda & Co.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
 Ramnarain Morarji & Co.—Building No. 20, Vithalwadi, Bombay 2.
 Ramniklal & Bros.—Ghadial Gulli, Mulji Jetha Market, Bombay 2.
 Ramniklal Bhikhabhai & Co.—Gaumukh Gulli, Mulji Jetha Market, Bombay 2.
 Ramniklal Chhotalal.—Navi Gulli, Mulji Jetha Market, Bombay 2.
 Ranchhodhas, B., & Co.—Narayan Chowk, Mulji Jetha Market, Bombay 2.
 Ranchhodhas Bhanji & Co.—Pragraj Gulli, Mulji Jetha Market, Bombay 2.
 Ranjitsinh Dharamaji.—Building No. 105/107, Old Hanuman Gulli, Bombay 2.
 Rasiklal & Co.—Krashnaraj Gulli, Mulji Jetha Market, Bombay 2.
 Rasiklal & Co.—Building No. 30, Ramwadi, Kalbadevi Road, Bombay 2.
 Rasiklal Chandrakant & Co.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
 Rasiklal & Co.—Office Gulli, Mulji Jetha Market, Bombay 2.
 Rasiklal Jethalal & Co.—Dadar Gulli, Mulji Jetha Market, Bombay 2.
 Rasiklal Nagindas & Co.—Dadar Gulli, Mulji Jetha Market, Bombay 2.
 Rasiklal Manilal & Co.—Chandra Chowk (4th Gulli), Mulji Jetha Market, Bombay 2.
 Ratansi Gopalji.—Sir Vithaldas Gulli, Mulji Jetha Market, Bombay 2.
 Ratilal Harilal & Co.—Building No. 261, Masjid Bunder, Bombay 3.

Ratilal Kantilal & Co.—63/65, Cathedral Street, Bhuleshwar, Bombay 2.
 Ratilal, K., & Co.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
 Sameshwar, V. D., & Co.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
 Sanghvi Bros.—29, Bhangwadi, Kalbadevi Road, Bombay 2.
 Sanghvi Mody & Co.—Lentin Chambers, Dalal Street, Fort, Bombay.
 Sarabhai, M., & Sons.—Office Gulli, Mulji Jetha Market, Bombay 2.
 Saralal Laxmichand (Textile).—Sheikh Memon Street, Bombay 2.
 Shah & Co.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
 Shah, N. M., & Co.—Lakhmidas Market, 1st Gulli, Bombay 2.
 Shah, N. M., & Co.—Navi Gulli, Mulji Jetha Market, Bombay 2.
 Shah, S. B., & Co.—Lakhmidas Market, 2nd Gulli, Bombay 2.
 Shashikant Jaysant & Co.—Navi Gulli, Mulji Jetha Market, Bombay 2.
 Shamaldas, N. V., & Co.—Chandra Chowk (8th Gulli), Mulji Jetha Market, Bombay 2.
 Shantilal & Co.—Lakhmidas Market, 3rd Gulli, Bombay 2.
 Shantilal Chhotalal & Co.—Shyam Bhuvan, 3rd Floor, Chitra Bazar, Gazder Park, Thakurdwar, Bombay 4.
 Shantilal Kalidas & Bros.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
 Shantilal Manilal & Co.—Mangaldas Market, 2nd Gulli, Bombay 2.
 Shantilal Parshottamdas & Co.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
 Shantilal Vithaldas & Co.—1st Floor, Lakhmidas Market, 3rd Gulli, Bombay 2.
 Shapurji & Co.—Sir Vithaldas Gulli, Mulji Jetha Market, Bombay 2.
 Shashikant & Brothers (India) Ltd.—Building No. 52, Dadysheeth Agiary Lane, Kalbadevi Road, Bombay 2.
 Sheth & Co.—Building No. 72, Champa Gulli, Bombay 2.
 Sheth Brothers & Co.—165, Dr. Viegas Street, Kalbadevi Road, Bombay 2.
 Shroekant Textile.—New Citizen Bank Building, 2nd Floor, Falton Road, Carnac Road, Bombay.
 Shree Krashna Agency.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
 Shree Ram Mills Cloth Shop.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
 Sunderdas Shreechand.—Building No. 117/119, Old Hanuman Gulli, Bombay 2.
 Sunderdas Thakerah & Bros.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
 Surajmal & Sons Ltd.—Vithalwadi, Bombay 2.
 Surat Cotton Spg. & Wvg. Mills Co. Ltd., Govind Gulli, Mulji Jetha Market, Bombay 2.
 Suresh & Co.—Champa Gulli, Bombay 2.
 Sureshbhai & Co.—Chandra Chowk (8th Gulli), Mulji Jetha Market, Bombay 2.
 Surendra Rasiklal & Co.—Krashnaraj Gulli, Mulji Jetha Market, Bombay 2.
 Surendra Somalal & Co.—Chikhali Gulli, Mulji Jetha Market, Bombay 2.
 Suryakant Jannadas.—Champa Gulli, Bombay 2.
 Suryakant, K., & Co.—Pragraj Gulli, Mulji Jetha Market, Bombay 2.
 Sushilkumar & Co., C/o Messrs Ramniklal Bhikhabhai & Co.—Govind Chowk, Mulji Jetha Market, Bombay 2.
 Tayabramad Haji Musa & Co.—Karim Building, Mohamadali Road, Bombay 3.
 Textile Trading Co.—Great Social Building, Sir P. Mehta Road, Fort, Bombay 1.
 Thakeral Mulji & Co.—Krashna Chowk, Mulji Jetha Market, Bombay 2.
 Thakkar, M. R., & Co.—Lakhmidas Market, 1st Gulli, Bombay 2.
 Thana Stores.—Building No. 72, Champa Gulli, Bombay 2.
 Tribhawan Nemchand & Co.—67, Bazar Gate Street, Fort, Bombay 1.
 Tulsidas Mohanlal & Co.—Daya Mandir, Masjid Bunder, Bombay 3.
 Tulsidas V. Patel.—Swadeshi Market, New Gulli, Bombay 2.
 Udhavdas Mulchand.—Krashna Chowk, Mulji Jetha Market, Bombay 2.
 Vadilal Limited.—Champa Gulli, Bombay 2.
 Vadilal Kashidas Ltd.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
 Vadilal Vrajilal & Co.—186, Pirbhai Mansion 2, Princess Street, Bombay 2.
 Vallabhdas, J., & Co.—Chikhali Gulli, Mulji Jetha Market, Bombay 2.
 Vallabhram, N., & Co.—Lakhmidas Market, 2nd Gulli, Bombay 2.
 Vallabhdas Mathuradas & Co.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
 Vallabhdas Madhavji & Co.—Gaumukh Gulli, Mulji Jetha Market, Bombay 2.
 Vallabhdas Mohanlal & Co.—Ghia Building, 1st Floor, Princess Street, Bombay 2.
 Varjivandas Padamsi & Co.—Govind Gulli, Mulji Jetha Market, Bombay 2.
 Vasani, K., & Co.—Goraj Gulli, Mulji Jetha Market, Bombay 2.
 Vasanji & Co. Private Ltd.—Building No. 259, Kalbadevi Road, Bombay 2.
 Vasantkumar Natverial & Co.—Lakhmidas Market, 1st Gulli, Bombay 2.
 Vasantral, N., & Co.—Building No. 30, Champa Gulli, Bombay 2.
 Vasantral Nagji & Co.—Thakeral Gopalji Building, Old Hanuman Gulli, Bombay 2.

Vasantlal, J., & Co.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
 Vashanji Lalji & Sons.—Building No. 103, 2nd Floor, Princess Street, Bombay 2.
 Vaspdev Manilal & Co.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
 Vijaykumar & Co.—Ganeshwadi, Mulji Jetha Market, Bombay 2.
 Vikas Ltd.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
 Vinayak Bros.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
 Vinaychandra Durlabhdas & Co.—Building No. 67, Tambakanta, Bombay 3.
 Vinaychand & Co.—Chhipi Chawl, Bombay 2.
 Vinaykant Trading Co.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
 Vinodrai & Co.—Sir Vithaldas Gulli, Mulji Jetha Market, Bombay 2.
 Vinodchandra & Co.—Pragraj Gulli, Mulji Jetha Market, Bombay 2.
 Vlahvnath Bhagwanji.—Chandra Chowk (6th Gulli), Mulji Jetha Market, Bombay 2.
 Vithaldas, C., & Co.—Parekh Building, Old Hanuman Gulli, Bombay 2.
 Vithaldas & Co. Ltd.—No. 16-18, Cross Lane, Champa Gulli, Bombay 2.
 Vithaldas Vashanji.—Ghadial Gulli, Mulji Jetha Market, Bombay 2.
 Vithaldas Vishram & Sons.—Ghadial Gulli, Mulji Jetha Market, Bombay 2.
 Yarn Trading Co.—95, Tambakanta, Bombay 3.
 Zaveri Bhagwanji Premchand.—Chikhal Gulli, Mulji Jetha Market, Bombay 2.
 Zaveri Hemchand Zaverchand.—Sancha Gulli, Mulji Jetha Market, Bombay 2.

PINE OIL

PRABHAT GENERAL AGENCIES.—198, Kalbadevi Road, Bombay 2. Phone: 20389. Grams: "EXPANSION."

PIPES AND FITTINGS MERCHANTS

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 29990. Grams: "ALERTDEAL."
Abdulkusein Escofaly Contractor.—91-93, Bapu Khote Street, Bombay 3.
Abdullahabai Faisulabhai Ltd.—Khokha Bazar, Bombay 3.
Adamji Lookmanji & Co.—Bahimtoola House, Homji Street, Fort.
ADVANCE TUBE CO.—99, Nagdevi Street, Bombay 3. Phone: 30822. Grams: "ELBOWS."
A. G. KARIMJI CALCUTTAWALE.—Pipes Fittings and Sanitarywares, 82/84, Gulabwadi, Kika Street, Bombay 4. Phone: 73636. Grams: "SANITARY."
Allied Trading Co.—39, Nagdevi Street, Bombay 3.
A. Vallabhdas & Sons.—37, Nagdevi Street, Bombay 3.
ASGARALI NURUDDIN & CO.—75, Nagdevi Street, Bombay 3. Phone: 22609.
Baboolal & Brothers.—113, Nagdevi Street, Bombay 3.
Badrudin Hasanali & Co.—43, Gulabwadi, Kika Street, Bombay 4.
Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.
BRATHENA, B. N., & CO.—100, Nagdevi Street, Bombay 3. Stockists of Copper, Brass, Galvanized and Steam Pipes and Fittings, Asbestos Goods, Flax Fire Hose, G.M. and C.I. Valves and Cocks, etc. Phone: 23155. Grams: "TEENAZ."
Bombay Burma Hardware Store.—125, Nagdevi Street, Bombay 3.
BOMBAY TUBE AND HARDWARE MART PRIVATE LIMITED, THE.—284, Nagdevi Street, Bombay 3. Phone: 23004. Importers, Stockists and Dealers of Pipes, Tubes and Fittings, Valves, Gauges, Thermometers, Boiler Plants, Pumps, Tubes and Instruments, Air Compressors, Motors, Steam Traps, Textile and Industrial Machinery, Packing and Jointings. Agents for TRACTA Ball and Roller Bearing Extractors, STANWIN and SHACKLETON Rotary Gear Pumps for Viscous Liquids, Alkali, Acids, Oils, etc. and for L&CO Pipe Bending Machinery.
Brady, W. H., & Co., Ltd.—Royal Insurance Building, Churchgate Street, Fort.
C. RASIKLAL & CO.—267, Masjid Bunder Road, Bombay 3. Phone: 30691. Grams: "GRASSHOPPER."
Calcutta Iron & Steel Co. Ltd.—68/D, Mohamedali Road, Bombay 3.
Central Tool & Equipment Co.—32, Sarang Street, Bombay 3.
Chandulal Narandas.—96, Kika Street, Bombay 4.
Chhabildas & Co.—78-A, Abdul Rahman Street.
CHHABILDAS & BROS.—Government & Railway Contractors, 163, Narayan Dhuru Street, Bombay 3. Phone: 34890. Grams: "SCREWBOOK."
CITADEL TRADING CO.—Branch: 94, Narayan Dhuru Street, Bombay 3. Phone: 30911. Grams: "MALLEABLE." H.O. Calcutta. Malleable Iron & Cast Iron Pipes, Pipe-Fittings and Sanitary Goods & Hardware Merchants.

CRESCENT TRADING CO.—48, Bhaipala Lane, Bombay 3. Phone: 29040. Grams: "WATERMETER." Stockists of pipes, fittings, valves, Cocks for Water, Steam and Air, C.I. Sluice Valves, Fire Fighting equipment and Boiler fittings.
C. R. Contractor & Co.—82, Nagdevi Cross Lane, Bombay 3.
CROWN SANITARY SUPPLIERS.—9, 1st Cooper Street, Bombay 3. Phone: 42804. Grams: "FLUEPIPE." Largest Stockists of Sanitaryware, Pipe Fittings and Commission Agents.
Daulatram Ratanji & Company.—208, Nagdevi Street, Bombay No. 3.
Doshi Brothers & Co.—77, Meadows Street, Fort.
EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi.
EASTERN TUBE & HARDWARE MART.—123, Narayan Dhuru Street, Bombay 3. Phone: 30959.
ESUFALLY ADAMI & CO. (ESTD. 1885).—134, Nagdevi Street, Bombay 3. Phones: 30775; Residence: 36141. Grams: "TRAVELLER." Burmah-Shell Agents for Madhya Pradesh.
Fakhrudin Noorbhai & Co.—105, Kika Street, Bombay 4.
Fidahusein Hasanali.—46, Gulabwadi, Kika Street, Bombay 4.
Gannon, Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.
Garlick & Co. Private Ltd.—Haines Road, Jacob Circle.
General Tube Ltd., The.—142-44, Nagdevi Street, Bombay 3.
Gin Stores Co.—76, Nagdevi Cross Lane, Bombay 3.
Globe Store Co., The.—Sitaram Building, near Crawford Market, Hornby Road.
Gokaldas Shivlal & Co.—76, Kika Street, Bombay 4.
GOVARDHANDAS, P. A.—140, Nagdevi Street, Bombay 3. Phone: 30812. Grams: "WHEELVALVE". Manufacturers and Suppliers of Brass, Gun-metal, Cast Iron, Valves & Cocks, G.I., W.I., M.S. Pipes and Fittings, Cast Iron Pipes, Specials, Rainwater Fittings Water Meters, Sanitary, Laboratory Fittings, Flushing Cisterns, Bolts & Nuts and Tube Well Accessories etc.
HATIMBHOY GOOLAMHUSEIN & BROS.—(Estd. 1894), 193-A, Nagdevi Street, Bombay 3. Phone: 20782. Grams: "FITTINGS."
Heptoola Noorudin & Co.—162-64, Nagdevi Street, Bombay 3.
Herman & Mohatta, B. R., Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort.
HINDUSTAN TOOLS & ENGINEERING CO.—Post Box No. 2311, 133, Princess Street, Bombay 2. Phone: 20991. Manufacturers of Stainless Steel Bolts, Nuts & Fittings for Chemical Laboratories.
Hindustan Tube Company.—168, Nagdevi Cross Lane, Bombay 3.
Hiralal Gokaldas Dalal & Co.—45, Nagdevi Cross Lane, Bombay 3.
I.C.I. (India) Private Ltd.—P. B. No. 310, Bombay 1.
Indian Pipe Fittings Co.—158-60, Narayan Dhuru Street, Bombay 3.
Indo Bombay Trading Co.—34, Nagdevi Street, Bombay 3.
Jafferjee Hussanally & Sons.—68, Nagdevi Street, Bombay 3.
Jashwantlal Manecklal & Co.—40, Churchgate Street, Fort.
Jayantilal & Brothers.—39, Bibijan Street, Nagdevi, Bombay 3.
JAYANTILAL GOKALDAS & SONS.—232, Masjid Bunder Road, Bombay 3. Phones: 30995 (Office) and 68850 (Res.). Stockists of Galvanized Pipes & Fittings, Cast Iron Rainwater & Soil Pipes & Fittings, Cast Iron Spigot & Socket Pipes, Special Fittings Brass BIE Cocks and Stop cocks, Sanitarywares and Sanitary Fittings, Gunmetal wheel valves and Gate Valves, Lead Pipes and Lead Traps, Stoneware Pipes & Fittings, Cast Iron Manhole Covers & Gratings.
J. Champaklal & Co.—44, Nagdevi Cross Lane, Bombay 3.
JIVRAJ & VRAJLAL.—122, Nagdevi Street, Bombay 3. Phone: 30136. Grams: "SANPIPEES."
Joishi & Co.—207, Kumbharwada 6th Lane, Golpitha, Bombay 4.
Kamlashankar P. Joshi.—72/80, Nagdevi Cross Lane.
K. Chimanlal & Co.—107-A, Nagdevi Street, Bombay 3.
K. S. Parikh & Co.—40, Hararwalla Building, Golpitha, Bombay 4.
KESHWALLAL LALOOSHAH.—87-91, Dhanji Street, Bombay 3. Phone: 22551. Grams: "FLANGES." Largest Stockists of galvanized and black Pipes, Class A.B. & C. in all sizes, Gal & Black Pipe Fittings, G.M. & C.I. Valves & Cocks are available from large ready stocks.
Kooverji Devahi & Co.—164, Lohar Street.
Kutch Sanitary & Plumbing Works.—Matunga, Bombay 19.
Machine Tools & Implements.—24, Nagdevi Cross Lane, Bombay 3.
Mangaldas Ranchhodhas & Co.—Iron Market, Carnac Bunder, Bombay 9. Phone: 29884.
Maganlal Pranlal & Sons.—105, Nagdevi Street, Bombay 3. Phone: 23015. Grams: "Armpipe" Pipe Fittings, Sanitary Wares & Mill Gin Stores.

Mashruwala, O. M., & Co.—172-74, Nagdevi Street, Bombay 3.
McKenzie Ltd.—Sewri.

MENTA NANAVATI & CO.—86, Narayan Dhuru Street, Bombay 3. Phone: 39548. Grams: "REDJOINT."

MERVYN & SPITAM.—Manufacturers of Pipe-Fittings, 51, Nakhoda Street, Pydhonie, Bombay 3. Phone: 73681. Grams: "MERSFIT." Works: 4, Ghodbunder Road, Malad (West), Bombay. Phone: 84219.

M. N. PADIA & CO.—70, Kika Street (Gulawadi), Bombay 4. Phone: 72363.

M. J. PATEL & CO.—46, Nagdevi Street, Bombay 3. Phone: 39183. Grams: "REDTEE". Direct Importers & Stockists. G. I. & Steam Pipes, Boiler Tubes & Valves, C. I. Pipes & Specials. Asbestos Goods, Engineering Stores & Factory Requisites.

MODERN TUBE & SANITARY STORES.—48, Nagdevi Street, Bombay 3. Phone: 28104 Office; 73174 Resl. Grams: "MORTUBE." Largest Stockists of Cast Iron Pipes & Fittings and Brass Cocks. Sole Agents for "585" C.I. Flushing Cisterns.

MODY BROTHERS & CO.—25, Nagdevi Cross Lane, Bombay 3. Phone: 30958. Grams: "MODIBROSCO." Muljibhai Chhotalal & Co.—70-78, Nagdevi Street, Bombay 3.

NAGDEVI TOOL-STEEL MART.—186-88, Nagdevi Street, Bombay 3. Phone: 23058. Grams: "TENDERERS."

NANALAL AMBALAL & CO. (ESTD. 1917).—69, Nagdevi Street, Bombay 3. Phone: 28784. Grams: "VILVALEIRO." Regional Sole Distributors for (1) Stoneware, Glazed Pipes manufactured by the Perfect Pottery Co., Ltd., Jabalpur and (2) Parry's "EID" brand Sanitaryware. Leading wholesalers of Galvanised Iron, Cast Iron, Asbestos Cement Pipes and Fittings and Sanitaryware.

National Hardware & Stores Supply Co.—Post Box 3146, Bombay 3. Phone: 33462. Grams: "REQUISITES."

NATIONAL SANITARY ENGINEERING CO.—88-90, Kika Street, (Gulawadi), Bombay 4. Phone: 76360. Stockists of all kinds of Pipe Fittings, Brass Cocks and G.M. Valves, Water Meters, Drainage and Sanitary Materials available in Wholesale & Retail.

NAYAK TRADING CO.—151, Sarang Street, Bombay 3. Phone: 23548. Our Specialities: Gun Metal wheel valves with renewable Nickel Seat & Disc for High Pressure Steam & Cast Iron valves of every description.

NECET TRADING CORPORATION PRIVATE LTD.—94, Nagdevi Street, Bombay 3. Grams: "NECETPIPES." Cast Iron 1/2 & Double-Flanged Pipes, Specials, Sluice Valves, G.I. Pipes, Fittings and G.M. Valves available in large stock.

New India Hardware Mart.—152, Narayan Dhuru Street, Bombay 3.
New India Pipes Ltd.—60, Bhajipala Lane, Bombay 3.

N. MOHANLAL & CO.—124, Nagdevi Street, Bombay 3. Phone: 27548. Grams: "JEPBELT."

Noble Tube Co.—141, Nagdevi Street, Bombay 3.

NOMANBHAI

ABDEALLI & COMPANY

96-98, Nagdevi Street - Bombay 3

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Phone :
22620

Grams :
"INTEGRITY"

Galvd. Black Pipes,
Tubes, Wire Rope,
Gun Metal Fittings,
Pipe Fittings, Brass
Cocks, Asbestos
Goods, etc.

NOOROODIN SHAIKADAM & CO.—159, Nagdevi Street, Bombay 3. Phone: 23694.

NOWROJI N. VAKIL & CO.—Shahru Castle, Mohamedalli Road, Bombay 3. Phone: 22803. Head Office and Factory at Naroda Road, Ahmedabad. Manufacturers of Stoneware, Drainage Pipes & Fittings, Fire Bricks and Clay & Crockery.

PANALAL MOHANLAL & CO.—89, Nagdevi Street, Bombay 3. Direct Importers of Copper, Brass, Galvanised Black Steam Pipes, Fittings and Gun Metal Fittings & Valves. Phone: 30211.

PATEL BROTHERS & CO.—41, Nagdevi Cross Lane, Bombay 3. Phone: 20606. Grams: "HASTY". Importers of Copper, Brass, Galvanised & black steam pipe fittings & Gunmetal fittings & Valves.

RADIANT ELECTRIC & MACHINERY CO.—Vithaldas Chambers, Bruce Street, Bombay 1. Phone: 255297. Cast Iron Pipes & Pipe Fittings, Valves, Water Meters, Laying of Pipes and Hydrant line undertaken to approved specification (on Bombay Fire Insurance Association approved list); Centrifugal Pumps and Pumping Sets all types, Steam Pumps, Hydrant Pumps, Drills, Grinders and portable tools, Band Saws, Power Hammers.

Ranade & Partners.—Bombay Mutual Annexe, Gunbow Street, Bombay.

Ranpal & Son.—436, Shradhanand Road, Bombay 19. Sanitary Wares and Pipe Fittings Merchants.

R. Babulal & Co.—163, Nagdevi Cross Lane, Bombay 3.

ROYAL HARDWARE MART.—108, Nagdevi Street, Bombay 3. Phone: 38621. Grams: "MANILAROF."

Royal Tube Corporation.—94, Nagdevi Street, Bombay 3.

Shah Machine Tools Co.—75, Abdul Rehman St., Bombay 3.

SHAH PATEL & CO.—109-111, Nagdevi Street, Bombay 3. Phones: 20709 and 39977. Grams: "LUCKYCHAP." Agents for C.I. Pipes and Specials up to 48" dia. Stockists of G.I. and M. S. Pipes & Fittings.

SHARMAN SONS.—46, Nagdevi Street, Bombay 3. Phone: 20589. G.I. Pipes & Fittings, Armoured Hose & Rubber Pipes, Gunmetal Cocks & Valves etc.

Sheth Stores Trading Co.—85-87, Nagdevi Street, Bombay 3.

Sivramkrishnan, M.—Haji Manzil, 82-86, Abdul Rehman Street, Bombay 3.

S. SEVANTILAL & CO.—246, Masjid Bunder Road, Bombay 3. Grams: "SEVANTICO." Mill Gin Stores, Pipe-Fittings, Hardware & Engineering Tools Merchants.

STANDARD PIPES & FITTINGS CO.—93-A, Nagdevi Street, Bombay 3. Grams: "STANDPIPE." Phone: 23444. Importers & Stockists of Pipes & Fittings, Sanitary Wares, Hardware & Mill Stores.

Standard Trading Co.—Vithal Sayana Building No. 2, 43-75, Lohar Street, Bombay 2.

Steel Industries of Hindustan Ltd.—Magazine Street, Darukhana, Bombay 10.

TALIB & CO.—Talib House, 104, Nagdevi Street, Bombay 3. Phone No. 27977. Grams: "TALIBCO." Pipes, Fittings & General Hardware Merchants.

TEXTOL TUBE CO.—P.B. No. 3271, 8, Nagdevi Street, Bombay 3. Grams: "TEXTOL."

TEAKORLAL & CO.—47, Nagdevi Cross Lane, Bombay 3. Phone: 20488. Grams: "PIPEWARE."

TIRATHRAM KASHMIRILAL.—89, Nagdevi Cross Lane, Bombay 3. Phone: 30041 (Ext. 18). Grams: "GIRDERS". Specialists in Casing boring Pipes.

TRADE (INDIA) CORPORATION.—88, Mohamedalli Road, P.O. Box No. 3231. Grams: "TINDICO." Dealers in Water and Steam Pipes and Fittings, Cocks & Valves, Flexible tubes, Seamless Steel boiler Tubes, Steam packing and jointings.

Trivedi, S. G.—90, Nagdevi Street, Bombay 3.

TUBE TOOLS AND HARDWARE MART.—94, Nagdevi Street, Bombay 3. Phone: 39648. Grams: "EVERJOY."

UNION TUBE & HARDWARE MART.—84-86, Nagdevi Cross Lane, Bombay 3. Phone: 39011. Grams: "UNIONTUBE."

UNITED MILL STORE (INDIA), ESTD. 1943.—43, Dhanji Street, Aglary Cross Lane, P.O. Box No. 3856, Bombay 3. Phone: 30431. Grams: "SUREWIN." On Govt., Railway & Municipal Lists. Importers of Pipes, Fittings, Mill Gin Stores and Hardware.

United Tube & Hardware Co.—146, Nagdevi Street.

Vadlal & Co., C.—40, Nagdevi Cross Lane, Bombay 3.

VASUDEV & COMPANY.—48, Bibijan Street, Bombay 3. Phone: 20677. Grams: "VASU METALS."

Venus Trading Co.—122, Barbhai Moholla, Narayan Dhuru Street, Bombay 3. Phone: 32147.

Victoria Sanitary Stores.—54, 3rd Bhoiwada, Bhuleshwar, Bombay 2.
Vinubhai Chandulal & Co.—85, Nagdevi Street, Bombay 3.

PLASTIC MACHINERY MFRS.

BRIMCO PLASTIC MACHINERY CORPORATION.—Bombay, Thermoplastic Extruders, Injection moulding machines, etc. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

PLASTIC MOULD MANUFACTURERS

PLASTIC DIES COMPANY.—Opp. Pashabhai Patel & Co., Ltd., Kolwada, Sion, Bombay 22. Phone: 61005. Engineers and Tool Makers. (High class finish and reliable materials) Specialists in plastic & all sorts of moulding Dies, Engravers & Die Sinks.

PLASTIC TUBINGS

AMRATLAL CHHAGANLAL & CO.—143, Nagdevi Street, Bombay 3. Phone: 29008. Grams: "EKADASHI." Dealing in Suction, Delivery, & Fire Hoses; Surgical, Rubber & Plastic Tubings & Sheetings.

PLASTICS

Abdul Kayam Esufally & Bros.—103, Abdul Rehman Street, Bombay 3.

ALLIED TRADERS (INDIA).—169, Masjid Bunder Road, Bombay 3. Phone: C/o 38830. Grams: "SEAT PLAST." Wholesale & Retail Dealers of Polystyrene, Polyethylene Acetate and all Plastics Raw Materials.

AMAR PLASTIC INDUSTRIES.—Queen's Mansion, Bastion Road, Bombay 1. Phone: 261402. Grams: "RUMTREE." Manufacturers of Plastic Inflated toys, Models, Advertising Gifts, Banners, Stickers, etc.

Artbangles Private Limited.—204, Dr. Dadabhai Naoroji Road, Fort. Associated Agencies (Bombay).—47, Podar Chambers, Parsoo Bazar Street.

Aurora Toys & Novelties.—"Parimal", Keluskar Road South, Shivaji Park, Dadar, Bombay 28.

BAKER BROTHERS.—31, C.P. Tank Road, Bombay 4. Phone: 72821. Grams: "BAKERCOLOR." Suppliers of Plastic Lacquer and Chemicals for "FLEXIBLE" and Solid Plastic Products.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort. **Bhagwandas Chhatrabhai & Co.**—20, Hamam Street, Fort.

BOMBAY AGENCY.—5, Ramnani Mansion, Behind Metro Cinema, Dhobi Talao, Bombay 1. Phones: Office: 242041; Res.: 71774; Godown: 38117; Factory: 73450. Sole Agents for Bombay Plastic Industries. Mfrs. of B.P.I. brand plastic articles.

BRIGHT BROS. PRIVATE LTD.—156-A, Tardeo Road, Bombay 7. Grams: "BRIGHTS." Phones: 77454 & 77455. Mfrs. of quality Plastic Articles for Home, Industry, Office and Gift advertising.

Chhimanlal Patel & Co.—174, Hornby Road, Fort.

CIBA DYES PRIVATE LTD.—Royal Insurance Bldg., Jamshedji Tata Road, Churchgate Reclamation, Bombay 1. Phone: 37184, 37185, 37186 and 37187. Post Box 479.

DILRANJAN PLASTIC CORPORATION.—10, Churchgate Street, Fort, Bombay 1. Show-rooms: 52, Abdul Rehman Street, Bombay 3. Phone: 252527. Grams: "DILIPRINT." Manufacturers of Plastic Complimentary & Stationery Articles and Plastic and Rubber Rainwear.

Dominion Plastic Industries.—(A Garware Concern), Chowpatty Chambers, Sandhurst Bridge, Bombay 7. Phone: 32801-2. Grams: "GARWARECAR."

EBRAHIM ALLIBHOY & SONS (ESTD. 1934).—Importers and Exporters. 280-84, Abdul Rehman Street, Bombay 3. Phone: 38863.

EMBI DESAI & CO.—Office: Dadyseth House, Cawasji Patel Street, Fort, Post Box 1116, Bombay 1. Phone: 253082 & 253772. Depot: 108, Ardeskhir Dady Street, Near C. P. Tank, Bombay 4. Phone: 73741. Process Works: 51, Bhandari Street, Near Round Temple, Bombay 4. Factory: Patel Estate, Goregaon (East), Bombay. Phone: 84363. Workshop: 8A, Dhobi Wadi, Seti M. N. Charities Compound, Thakurdar Road, Bombay 2. Phone: 29827. Ahmedabad Office: Jayabhuvan, Inside Balahannan, Ahmedabad. Grams: "ASWINCO." Phone: 28182.

GREAT INDIA PLASTICS.—4, Swastik Chambers, Carnac Road, Bombay 1. Factory: Goregaon (East). Phone: 84294. Manufacturers of "POLYETHYLENE", bags, Tubings, Rolls, Soap cases & Combs etc.

Hardcastle, Waud & Co., Ltd.—Alice Building, Hornby Road, Fort.

HINDUSTAN PLASTICS LTD.—Podar Chambers, Fort, Bombay 1. Telephone No. 289261. Telegrams: "ELECTRA." Manufacturers of JAY BUTTONS, NYLON combs, Industrial and Electrical accessories, advertising, display and decorative items, household articles such as Combs, Bowls, Soap Boxes, Toys, etc. Factory: Suparibaug Road, Parel T.T., Bombay 12. Phone: 63621.

Imperial Chemical Industries (India) Private Ltd.—Imperial Chemical House, Dougall Road, Ballard Estate.

Indian Plastics Ltd.—Factory and Head Office at Kandivli, Ghodbunder Road, Palsar Bridge (Western Rly.), Bombay.

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Factory 'TIPCO', MALAD

Phones :
Office 253035
Factory 84157

Industrial Plastics & Machinery Co.—Vithal Sayana Building No. 1, Lohar Street, Bombay 2.

Iwacom Private Limited.—204, Dr. Dadabhai Naoroji Road, Fort, Bombay.

JAGDEH DESAI & CO.—13, Gunbow Street, Fort, Bombay. Grams: "ALLNOVEL." Phone: 264352. Plastic Dealers and Manufacturers of "Exchequer" Stitchless Products.

Jai Hind Plastic & Rubber Industries.—Universal Nut Bolt Factory Compound, Tardeo Bridge (Lower), Near Diana Cinema, Bombay 7. **Jawhar & Co.**—29-31, Dhanji Street, Bombay 3.

J. J. Jhaveri Ltd.—Sir Vithaldas Chambers, Apollo Street, Fort. **Kapadia & Co.**—19, Sir Phiroozshah Mehta Road, Fort, Bombay 1. **Kisco India.**—315, New Charni Road, Bombay 4.

Kosmek Private Ltd.—Cecil Court, Lansdowne Road, Apollo Bunder, Bombay 1.

Maganlal N. Manir.—63, 3rd Bhoiwada.

MAMAJI & SON (PRIVATE) LTD., Y.A.—136-38, Sir Ebrahim Rahimtulla Road, Bombay 3. Phone: 71262. Grams: "MA-MAJISON." Importers & Exporters, P.V.C. Leather Cloth, Motor & Carriage Upholstery Materials, Saddlery & Harness goods and all kinds of Felt.

MARVIN & CO.—3, Modi Chambers, Kennedy Bridge, Bombay 4. Phone: 40448. Grams: "VINMAR." Mfrs. of Plastic Toys & Utility Articles.

MAY & BAKER (INDIA) PRIVATE LTD.—Karimjee House, Sir Phiroozshah Mehta Road, Fort, Bombay 1. Branches: Calcutta, Gauhati, Madras and New Delhi.

M. Daldas & Sons.—190, Princess Street, Bombay 2.

MONSANTO CHEMICALS OF INDIA PRIVATE LTD.—Wakefield House, Sprott Road, Ballard Estate, Bombay 1. Phone: 26-2624. Grams: "MONSANTO," Bombay. Branch Offices: Monsanto Chemicals of India Private Ltd., The Exchange, 5, Mission Row, 2nd Floor, Calcutta 1. (2) Monsanto Chemicals of India Private Ltd., 3/8, Ajmeri Gate Extn. Scheme, Near Turkman Gate, New Delhi.

MOTCO PLASTICS (T. MOTANDAS & CO.).—Manufacturers of Plastic Advertising Gifts and Novelties, Calendars, Paper Weights, Key Chains, Paper Cutters, Calculators, Pocket & Table Diaries, Sign Boards, Files, Balloons and many other items, 1st Marine Street near Metro, Bombay 1. Phone: 242716. Grams: "MOTANCOY."

NATIONAL CARBON COMPANY (INDIA) LTD.—Kasturi Bldg., Jamshedji Tata Road, Bombay 1. Phone: 37684. Grams: "UNICARBIDE." For Polyethylenes, Polyvinyl Chloride, Resins & Compounds.

Newpack Industries.—Lotus House, 33A, Marine Lines, Bombay 1.

NOBLE PLASTIC WORKS.—22, Mangesh Senoy Street, Fort, Bombay. Phone: 261172. Grams: "ROLLEDGOLD." Manufacturers of Plastic Umbrella Handles.

Norinco Ltd.—P.O. Box 871, Bombay 1.

Plastic Extruders Private Ltd.—204, Dr. Dadabhai Naoroji Road, Fort.

POLYCHEM LIMITED.—Manufacturers of Polystyrene Plastic Moulding Material, 45/47, Apollo Street, Bombay 1. Phones: 254299, 251301. Grams: "POLYCHEMIC."

POLYMER CORPORATION.—Manufacturers & Painters of 'HIPACK' brand Polyethylene bags and Liners, Tubular Film & Sheeting. The only manufacturers of Treated Polythene Film. 70, Kansara Chawl, Kalbadevi Road, Bombay 2. Phone: Office: 78487 & Factory 84131. Grams: "WALKAL."

PREST-O-LITE.—104, Ghodbunder Road, Santa-Cruz, Bombay 3. Phone: 28197. 217, Cutlery Bazar, Janikar Street, Bombay 3. Manufacturers of Combs, Toys, Utility & Industrial Articles.

R. L. Bros. & Co.—4th Floor, "Dhan-Nur", Sir Phirozshah Mehta Road, Fort.

R. F. Shah & Co.—12, Bell Lane, Fort.

Rubako Industries.—Behramji Mansion, Sir Phirozshah Mehta Road, Fort.

SELWEL CORPORATION.—Nakhuda Roghay Market, 8, Nagdevi Street, Bombay 3. Dealers in Plastic & Polythene Pipes, Tubes, Sheets and Film, etc.

Sonal Rangnow & Co.—41, Hamam Street, Fort.

SRINIVAS BROTHERS PRIVATE LTD.—24-B Hamam Street, Fort, Bombay. Phone: Office: 252009. Res.: 63768. Grams: "PLASMOULD." Managing Director: J. N. Iyer. Sole Agents for B.I.P. Chemicals Ltd., London for U. F. Moulding Powders and Resins and East Anglia Plastics Ltd., London for Cellulose Acetate Moulding Powder; Rattanchand Hargas Rai Plastics Private Ltd., 54, Industrial Area, Faridabad for Presrite Urea Formaldehyde Moulding Powder.

Sunder Mehta & Co.—413G, Vasantwadi, Kalbadevi Road, Bombay 2. Toldas, T.—Botawala Building, 51, Picket Road, Bombay 2. Trading Co., L. R.—Navari Chambers, opp. Lloyds Bank, Fort.

TRINITY INDUSTRIAL CORPORATION.—Khandelwal Bhavan, 166, (Hornby Road) Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone: 281150. Grams: "PIVISIWELD." Manufacturers & Dealers of Plastics Sheetings, Business Advertising Gifts, Polyethylene Packagings & Penguin Brand Plastic Rainwear, etc.

United Corporation.—National Indian Life Building, 59, Forbes Street, Fort.

United Cottage Industries.—Near Central Bank of India Ltd., Abdul Rehman Street, Bombay 3.

Vibha Industries.—Arches 2-3-4 under Mahalaxmi Bridge, opp. Race Course, Bombay 11.

VIJAY BAKELITE TRADING CO.—70/72, Chakla Street, Bombay 3. Grams: "BESTCAP." Manufacturers & Distributors of all kinds of Caps and Stoppers made of Plastic, Alkathene, Bakelite and Rubber.

PLAYING CARD MANUFACTURERS

LAXMI OFFSET AND PRINTING WORKS.—23, Goa Street, Ballard Estate, Bombay 1. Phone: 263147.

METRO PLAYING CARD CO.—Bellasis Road, Byculla Club Compound, Bombay 8. Phone: 75353. Grams: "METROFFSET." Quality playing cards manufacturers.

Pavri Sons & Co.—93-97, Basargate Street, Fort.

POPULAR FINE ART LITHO WORKS.—Suryodaya Mill Compound, Tardeo, Bombay 7. Phone: 42471. Grams: "GOOLNAR."

Sahu Printers Ltd.—15/A, Elphinstone Circle, Fort, Bombay.

S. G. Kothari & Co.—88-90, Abdul Rehman Street, Bombay 3.

Sharda Paper Box Mfg. Co.—Motisha's Chawl, Gangadas Hall, Sheikh Memon Street, Bombay 2.

PLYWOOD MANUFACTURERS AND DEALERS

Abdoolally Noorbhoy.—122, Abdul Rehman Street, Bombay 3.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

Bawa Glass Co.—Hatan Building, Nagdevi Street, Bombay 3.

Bhimjee Poonja, C., & Sons.—20, Khoka Bazar, Bombay 3.

Bharoomal & Co.—70, Abdul Rehman Street, Bombay 3.

C. Bhimjee Poonaja & Sons.—78, Abdul Rehman Street, on Govt. & Railway 1st. Phones: 26163 & 22365. Grams: "Fencing."

Excel Importers.—89, Princess Street, Bombay 2.

Expanded Metal Depot.—91-98, Expanded Metal House, Abdul Rehman Street.

FAKRUDDIN & CO.—43, Abdul Rehman Street, Post Box No. 3066, Bombay 3. Phone No. 34834. Grams: "EX-METAL."

Gets (India) Ltd.—Western India House, Sir Phirozshah Mehta Road, Fort.

INDIAN PLYWOOD MANUFACTURING CO. PRIVATE LTD.—9, Wallace Street, Fort, Bombay 1.

Kantilal Sanghvi & Co.—Mharwan Building, Sir Phirozshah Mehta Road.

Karimji Ebrahimji Arsiwala.—118-20, Abdul Rehman Street, Bombay 3.

Keshowdas Hassanand Karachiwala.—256, Masjid Bunder Road, Bombay 3.

Mahomedally Valji Arsiwala.—76, Abdul Rehman Street, opp. State Bank, Bombay 3.

MENTA & CO.—35, Abdul Rehman Street, Pydhonie, Bombay 3. Phone: 22394. Grams: "QUALIFIED." Dealers & Stockists of Plywood, Teak Plywood, Block Boards and Decorative Boards, Hardboard, Insulation Board and Tempered Masonite Sheets, etc. Expanded Metal and all sorts of Wire nettings.

Marker, S. D., & Co.—Small Building, 381, Hornby Road.

MAHOMEDALLY VALIJI ARSIWALA.—76, Abdul Rehman Street, Bombay 3. Phone: 38400. Dealers in all kinds of Plywood, Teakwood, Furniture Wood and also folding chairs.

Mody & Co., R. E.—Rasy Road, Tank Bunder, Bombay 10.

NASH & CO.—103, Abdul Rehman Street, Bombay 3. Govt. & Rly. Contractors and also Dealers in Plywood, Expanded Metal, Galvanised Brass, Copper Wire-nettings, Plain Zinc Sheets, Perforated Brass, Copper Zinc Sheets, Welded Mesh Green Wire-nettings, Asbestos Cement Sheets, Plain Corrugated Veneer Plywood, Masonite, Presswood, Woven Wire Fence and Wire-netting, Decorative Plywood for furniture as a Teak, Mahogany, Walnut in all sizes and thickness. Phone: 34968.

National Glass House.—Showroom: 72 Abdul Rehman Street, opp. State Bank, Bombay 3. Head Office: 108, Undira Street, Chokli Mohalla, Bombay 8.

National Hardware & Stores Supply Co.—30, Khoka Bazar, Sarang Street, Bombay 3.

Phoenix Plywood Depot.—Prospect Chambers Annexe, Hornby Road, Fort.

Premier Glass Traders.—74/78, Dhanji Street, Bombay 3.

Shah & Co., Jaliwala.—"Jaynivas," 86, Abdul Rehman Street, near Pydhonie, corner of Butar Bazar, Bombay 3.

Tek Trading Corporation.—139, Abdul Rehman Street, Bombay 3.

Yusufali Goolamhussen Arsiwala.—105, Abdul Rehman Street, Bombay 3.

POLYTHENE BAGS & SHEETS

NATIONAL PAPER BAG CO.—168, Bhimpura, Chinch Bunder, Bombay 9. Phone: 34846. Grams: "PAPERBAG."

Newpack Industries.—Lotus House, 33A, Marine Lines, Bombay 1.

TRIBHOVAN NEMCHAND & CO.—51, Basargate Street, Fort, Bombay 1. Estd. 1911. Phone: 262261. Grams: "HONEY-MOON."

PORCELAINWARE

C. P. Doshi & Co.—Bombay Mutual Building, Hornby Road, Fort.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay 1. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi.

M. Daldas & Sons.—190, Princess Street.

National Scientific Instruments Co.—257, Frere Road, Fort, Bombay 1.

Nowroji N. Vakil & Co.—Branch at Shahru Castle, Mohamedalli Road, Bombay No. 3.

Phillips & Co.—Waterloo Mansions, Mayo Road, Fort.

Scientific Instrument Co., Ltd.—Navari Building, 240, Hornby Road, Fort.

United Potteries & Glassware Mart.—Noble Chambers, Parni Bazar Street, Fort.

POSTAL FRANKING MACHINES

KILBURN & CO. PRIVATE LTD.—Graham Assurance House, Phirozshah Mehta Road, Bombay. Phone: 251908. Grams: "TASCONIUM."

Ronco Limited.—89, Bastion Road, Bombay 1.

PRECISION DIAGNOSTIC INSTRUMENTS MFRS

NATIONAL SURGICAL INSTRUMENT COMPANY.—Office & Works: 301, Rames Road, Worli, Bombay 18. Phone: 40640.

PRECISION TOOLS

- SHARAT ENGINEERING STORES.**—113, Nagdevi Street, Bombay 3. Grams: "UNIONTOOLS."
- INDUSTRIAL MILL GIN STORES.**—Industrial House, 81-83, Nagdevi Cross Lane, Bombay 3. Grams: "WIREGOODS." Direct Importers of Metal working and Precision Tools, Mill Gin Stores and Hardware Merchants.
- Jayant Engineering & Mill Stores.—Industrial House, Nagdevi Cross Lane, Bombay 3.
- RASIKLAL SHAH & CO.**—83, Narayan Dhura Street, Bombay 3. Grams: "PRECISION." Engineering Stores, Mill Stores, General Hardware Merchants & Precision Tools.
- SUNDERLAL & SONS.**—11, Narayan Dhura Cross Lane, Bombay 3. Phone: 22847. Grams: "ALLWRENCH." Engineering, Precision & Metal Cutting Tools, Ball Bearings, Hardware & Mill Gin Stores Merchants.

PRESENTATION ARTICLES

- Abdul Kayum Kbrahim (Estd. 1902).—64, Mohamedalli Road, Bombay 3. Phone: 81279.
- BRIGHT BROS. PRIVATE LTD.**—156-B, Tardeo Road, Bombay 7. Grams: "BRIBOS." Phone: 77454/55. Specialists in Plastic Gift Advertising Novelties.
- CHITMANLAL MANCHAND & CO.**—Silverwares, Antiques, Presentation Articles, Engine-turned Silverware. Central Government's Certified Valuers. Show Room:—Opp. Opera House, New Queen's Road. Phone: 30321. Grams: "PLATINUM."
- Datta Industries.—Sitaram Bldg., Dadabhai Naoroji Road, Fort, Bombay.
- EBRAHIM ALLIBHOY AND SONS (ESTD. 1934).**—Importers and Exporters, 280-84, Abdul Rehman Street, Bombay 3. Phone: 38863.
- Evans Fraser & Co. (India) Ltd.—Fort House, Hornby Road, Fort, Gasdar Ltd.—Taj Mahal Hotel, Bombay.
- Grand Bazar.—25, Colaba Causeway, Bombay 1.
- Hornby Fountain Pea Depot.—204, Hornby Road, Fort.
- Jagatiani, M. K., & Sons.—Moolji Jetha Market, Ganeshwadi, First Floor, Shaikh Memon Street.
- Jhaveri & Co., Gordhandas K.—Oomrigar Building, opp. Crawford Market.
- Jhaveri Bros. & Co. Ltd. (Established 1914).—Novelties and Gift Specialists. Three showrooms in the City. (1) 345, Abdul Rehman Street, Near Crawford Market, (2) Metro Cinema Building, Dhobi Talao, (3) Meadows Street, Near Flora Fountain, Phone: 22096 (For all Branches). Grams: "GIFTS".
- Kashmir Govt. Arts Emporium.—Sir P. M. Road, Bombay 1.
- Lalit Jewellery Mart.—435, Lamington Road, near Opera House.
- L. R. Trading Co.—Navsari Chambers, opp. Lloyds Bank, Outram Road, Fort.
- Lund & Blockley Ltd.—150, Mahatma Gandhi Road, Fort, Bombay.
- Madhusudan & Co.—94, 3rd Bhoiwada, Bombay 2.
- Mappin & Webb, Ltd.—Central Bank Building, Mahatma Gandhi Road, Fort.
- Marine Sports.—101, 1st Marine Street, Dhobi Talao, Bombay 2.
- MOTCO PLASTICS (T. Motandas & Co.).**—1st Marine Street, near Metro Cinema, Bombay 1. Phone: 242716. Grams: "MOTANCOY." Manufacturers of Plastic Advertising Gifts and Novelties, Calendars, Paper Weights, Key Chains, Paper Cutters, Calculators, Pocket & Table Diaries, Signboards, Files, Balloons, and many other items.
- Motilal, M. Shah & Co.—Opp. Crawford Market, Bombay.
- NAROTAMDAS BHAV (ESTD. 1864).**—Jewellers, Specialists in Presentation and all possible novelty articles. Lamington Road, Bombay No. 4. Phone: 71433. Grams: "DASHAROTAM." Branch at: Shaikh Memon Street, Bombay. Phone: 20568.
- Noble Jewellery Mart.—Capital Cinema Bldg., Borl Bunder, Bombay 1.
- Noble Trading Co.—Kermani Building, Sir Phirozsha Mehta Road, Bombay 1. Phone: 252717. Grams: "GIFTEXPERT". P.O. Box 885; Manufacturers of all kinds of Presentation articles.
- Novelties, The.—Hughes Road, Bombay.
- Onward Trading Co.—263, Carnae Road, opp. Goculdas Hospital, Bombay 2.
- Railship Stores.—39, Meadows Street, Fort.
- Roopchand Punjab Jeweller.—French Bridge, opp. Opera House, Bombay 4.
- Ruby & Co.—Opera House, Bombay No. 4.
- Shahani Bros.—160, Hornby Road, Fort, Bombay.
- Sharada Novelty House.—96, 3rd Bhoiwada, Bombay 2.
- Sharda Stores.—Swadeshi Markets, Kalbadevi Road, Bombay 2.
- Shewakram & Sons (Jewellers).—815-817, Prospect Chambers, Hornby Road, Fort.

- S. G. Kothari & Co.—88-90, Abdul Rehman Street, Bombay 2.
- Spencer & Co., Ltd.—Forjett Street, Bombay 2.
- Sunder Mehta & Co.—418D, Vasantwadi, Kalbadevi Road, Bombay 2.
- United Cottage Industries.—Near Central Bank of India Ltd., Abdul Rehman Street, Bombay 3.
- Weldon Jewellers Ltd.—Baria Building, opp. Crawford Market, Bombay 3.

ZEPHYR LEATHER WORKS.—1st Floor, Sethna Bldg., Kitchen Garden Lane, Shaikh Memon Street, Bombay 2. Manufacturers of all sorts of Leather goods, Plastic Presentation Novelties.

PRESS CUTTING SERVICE

ALL INDIA PRESS CUTTING SERVICE.—G.P.O. Box 1107, D-2, Amerchand Mansion, 16, Mayo Road, Bombay 1.

PRESSURE STOVES

- Anglo-Oriental Light Co.—Peerbhoy Building, 89, Princess Street, Bombay 2.
- Eastern Lights Company.—78, Lohar Chawl, Bombay 2.
- Elliott Waud & Hill Private Ltd.—Lakshmi Bldg., Sir P. M. Road, Bombay 1.
- K. R. Mehta & Bros.—Lohar Chawl, Shreeji Bhuvan, 2nd Floor, Bombay 2.
- L. C. Trading Co.—62, Lohar Chawl, Bombay 2.
- Light House.—51, Kitchen Garden Lane, Shreeji Bhuvan, Bombay 2.
- POCHEE, C.S., & SON (ESTD. 1884).**—886, Chitra Bazar, Girgaum Road, Bombay 2. Phone: 30415. Grams: "GASMANTLES." Government & Railway Suppliers, Manufacturers of Pochee Incandescent Lanterns, Mantles, Regal Stoves & Blow Lamps & Industrial Heating Appliances.
- Racek, F., & Co.—Lohar Street, Bombay 2.
- Salemahomed Padamsee & Co.—141, Chakla Street, P.O. Box 8131, Bombay 3.
- Shah, H. T., & Co.—Ahmed Building, Golpitha, Bombay 4.

PRESSURE & VACUUM GAUGES

- Evergreen Corporation.—Gopal Nivas, P.O. Box 2733, Bombay 2. Phone: 20891. Grams: "IMPTUBE." English Borden's Boiler Pressure, Vacuum, Hydraulic, Compound, Altitude and 'U' shape Syphons & Gauge Cocks.

PRINTING PRESS MATERIAL MACHINERY

- Batilbol & Co.—Engineers & Machinery Importers, Head Office: Forbes Street, Fort, Bombay. Phone No. 255451-55. Grams: "BATLIBOICO." Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore and Vijayvada. Associates: Bangalore and Secunderabad.
- Bombay Letter Foundry Ltd.—7/A, Nikadwary Lane, Kandewadi, Girgaum.
- CAMA, NORTON & CO.**—Cama Chambers, 23, Meadows Street, Fort. Phone: 253354. Grams: "CAMANORTON."
- Desai Brothers.—80, 90, Omrigar Bldg., Lohar Chawl, Bombay 2. Litho inks mfrs.
- DICKINSON, JOHN & CO., LTD.**—Kampta Street, Fort. Paper Makers, Manufacturing Stationers and Printing Material Merchants. Phone: 26-3386 (Two lines). Grams: "LION-BRAND."
- EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.**—Sole Agents for Northern, Southern and Central India for Original Heidelberg Printing Machinery, Shreenivas House, Waudby Road, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Bangalore, Secunderabad and New Delhi.
- Gujarat Trading Syndicate.—India House (Opp. G.P.O.), Fort Street, Fort, Bombay 1. Phone: 261248. Grams: "GUTRASY."
- Gujarati Type Foundry.—196-B, Galwadi, Girgaum, Bombay 4.
- GUNVANTRAY & COMPANY.**—Crescent Chambers, 1st Floor, Room No. 2, Tamarind Lane, Fort, Bombay 1. Grams: "GUNARAYCO." Importers and Dealers in Letter Press, Litho, Offset, Process Machines, Materials, Spare Parts and Rubber Rollers.
- HARDCASTLE, WAUD & CO., PRIVATE LTD.**—Alice Buildings, Dr. Dadabhai Naoroji Road, Fort, Bombay 1.
- Home Industries Corporation.—38-42, Shamset Street, Bombay 2.
- Indo-European Machinery Co.—Sambava Chambers, Sir Phirozshah Mehta Road, Fort.
- International Paper Co.—26, People's Building, Sir Phirozshah Mehta Road, Fort.

MANUBEHI, SONS & CO.—Manu Mansion, 16, Custom House Road, Fort, Bombay 1. Phone : 25-1028. Grams : "SUN-FLAMES."

Printing Machinery Co.—Annes Chambers, Mistry Estates, Carnac Road, Bombay.

Printing Materials Store.—80, Princess Street, Bombay 2.

Rawlandson Bros. (Estd. 1927).—Parsee Bazar Street, Fort.

Subodh Indent Agency.—44, Kumavillas, Mangalwadi, Girgaum.

Voltas Ltd.—19, Graham Road, Ballard Estate.

Yeshanand & Co.—Podar Chambers, Parsi Bazar Street, Fort.

PRINTING PRESSES

Ahura Printing Press.—Lentin Chambers, Dalal Street, Fort.

Ajmal Printing Press.—Princess Building, J. J. Hospital.

Albert Printing Works.—Podar Chambers, Parsi Bazar Street, Fort.

Alliance Art Printing Works.—17, Benham Hall Lane.

Amrut Sagar Press.—54-58, Sheikh Memon Street.

APPEAL PRINTING PRESS.—129, Meadows Street, Bombay 1. Phone : 252639. Specialists in printing Memorandum and Articles of Associations and Appeal Paper Books.

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ASHOK PRINTING WORKS.—(Commercial Printers), 22, A, Parsee Bazar Street, Fort, Bombay. Phone : 255342.

Associated Advertisers & Printers Ltd.—505, Arthur Road, Tardeo, Bombay 7.

Bombay Calendar Co.—44, Cawasji Patel Street, Bombay.

Bombay Chronicle Press.—Red House, Parsi Bazar Street, Elphinstone Circle.

Bombay Letter Foundry Ltd.—7-A, Nickadwary Lane, Kandewadi, Bombay 4.

Bombay Printing Works.—Podar Chambers, Parsi Bazar Street, Fort.

Bombay Samachar Press.—Parsi Bazar Street, Elphinstone Circle.

Bowen Press.—Sambaya Chambers, 2nd Floor, Sir Phiroozshah Mehta Road, Fort.

CARAVAN PRESS.—Prospect Chambers Annexe, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone : 254374.

Caslon Printing Works.—Grahams Building, 74, Homji Street, Fort.

Caxton Printing Works.—Frere Road.

Central Printing Works.—Lalgar Chambers, Tamarind Lane, Fort.

COMMERCIAL PRINTERS & STATIONERS.—40, Bank Street, Fort, Bombay 1. Phone : 251762.

Commercial Printing Press Private Ltd.—34/38, Bank Street, Bombay 1.

COMMERCIAL STATIONERY & PRINTING MART, THE.—18-20, Cawasji Patel Street, Fort. Phone : 253175. Grams : "NOSHIR," Bombay.

Competition Press.—Dwarkanadas Building, Benham Hall Lane.

CROWN ELECTRIC PRINTING WORKS.—111-A, Mahatma Gandhi Road, Fort, Bombay 1. Phone : 251437. Fine Art Printers, Bookbinders, Calendar Manufacturers.

Crystal Stationery Mart.—109, Dhanji Street, Bombay 3.

DICKINSON JOHN & CO.—Kumta Street, Fort. Paper Makers, Manufacturing Stationers and Printing Material Merchants. Phone : 26-3386 (Two lines). Grams : "LION-BRAND."

Evergreen Syndicate.—19, Hamam Street, Fort.

Examiner Press.—Meadows Street, Fort.

Ferlsons.—Quality Printers, Rahimtoola House, Homji Street, Fort, Bombay.

FORT BOMBAY STATIONERY DEPOT.—(Estd. 1873), B.S.D. Printing Works, Podar Chambers, Parsi Bazar Street, Fort, Bombay. Phone : 252439. Stationery, Printing, Bookbinding, Drawing and Artists; Materials and Die Printing.

Fort Office Printing Press.—94, Mint Road, Fort.

G.B.C. PRINTING WORKS.—Dessa House, Gunbow Street, Fort, Bombay.

Gangadhar Printing Press.—Haroon Rangari Chawl, near Western Rly. Station, Dadar.

Gem Printing Works.—Marine Chambers, Marine Lines.

GLOBE PRINTING WORKS.—Opp. Minerva Talkies, 165, Lamington Road.

Government Central Press.—Gardens, Charni Road.

Gutenberg Printing & Commercial Co., Ltd.—Raja Bahadur Banskil Motilal Mansion, Apollo Street, Fort.

Hind Printing Works.—Opposite Kandewadi B.E.S.T. Sub-station, Girgaum.

IDEAL PRINTERS PRIVATE LIMITED, THE.—Office: Bell Building, Sir Phiroozshah Mehta Road, Bombay. Phone : 253626. Works Unit No. 2, Asok Press, Zandu Pharmacy Compound, Gokhale Road, South, Bombay 28. Phone : 61976.

India Printing Works.—9, Bakehouse Lane, Fort.

Industrial Press.—9, Bastion Road, Fort.

Ismail Printing Press.—Bhimpura, Dongri Street.

Jaiprakash Printing Press.—191-93, Samuel Street, Khoja Gully, Bombay 9.

Jam-e-Jamshed Printing Press.—Ballard House, Mangalore Street, Fort.

Jawahir Printing Press.—12, Kesowji Nalk Road, Bombay 9.

Jawahir Printing Press.—234-36, Parsi Natha Street.

Kagzi Electric Printing Works.—Pydhonie Road, Khadak.

Kaiser-i-Hind Printing Press.—Old Sassoon Building, Elphinstone Circle, Fort.

Karnatak Art Printing Works.—Prospect Chambers Annexe, Hornby Road, Fort.

Karnatak Printing Press.—Karnatak House, Chitra Bazar, Bombay 2.

Kothari Printing Press.—67, Apollo Street, Fort.

Lal Printing Press.—302, Kalbadevi Road.

Lalit Printing Press.—Shantinath Jain Temple Building, Pydhonie, Bombay 8.

LAXMI OFFSET & PRINTING WORKS.—23, Goa Street, Ballard Estate, Bombay 1. Phone : 263147.

LEADERS' PRESS PRIVATE LTD.—(Props. of British India Press); 108, Love Lane, Mazagon, Bombay 10. Phone : 75334-35. Grams : "PRINDBIND." Letterpress, Litho & Offset Printers. Specialists in Books, Diaries, Calendars, Cartons, Labels, etc.

Liberty Printing Works.—40, Police Court Lane, Bombay 1; Phone : 261152. Typographers in English, Hindi, Marathi, Gujarathi, Tamil, Telugu, Malayalam, Kanarese, Bengali, Assamese, Oriya, Urdu and Sindhi.

Lotus Art Printery.—7, Prospect Chambers, Hornby Road, Fort.

Marban, J. B., & Co., Ltd.—Ballard House, Fort.

Mebasser Printing Works.—Laxmi Building, Ballard Road.

Mehta Printing Press.—73-77, Meadows Street, Fort.

Mekda Corporation.—407, Kalbadevi Road, Bombay 2.

METRO PRINTING & LITHO WORKS.—275-279, Bellasis Road, Omar Jamal's Compound, Bombay 8. Phone : 78352. Grams : "METROFFSET." Quality Printers & Lithographers.

Metro Printing Press.—East & West Building, 49, Apollo Street.

Minerva Printing Press.—31, British Hotel Lane, Fort.

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Stereos, Matrices, Plastic Duplicates & from Colour Transparencies to any size under expert supervision of Mr POONAWALA

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MODEL ART PRINTERY PRIVATE LTD.—Quality Printers.
4, Nanabhai Lane, Fort, Bombay. Phone: 252725.

MODERN STATIONERY & PRINTING WORKS (ESTD. 1941).—Sole Proprietor: Nasserhussein Kaderbhai, Bombay Mutual Annexe, 1st Floor, 17, Gunbow Street, Fort. Phone: 251986.

Motee Printing Works.—6, Lal Chimney, Lamington Road (North), Bombay 11.

Multiprint.—242-244, Bellasis Road, Byculla, Bombay.

Navyug Printing Press.—Portuguese Church Street, Dadar.

Nesbit Printing Works.—6-A, Nesbit Road (East), Bombay 10.

New Anand Sagar Printing Press.—204, Samuel Street, Vadgadi.

New Apollo Printing Works.—129, Medows Street, Fort.

New Era Printing Press.—7, Chowpatty Road.

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Box and Carton Making...**

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New Manohar Press.—Printers and Box-makers, Angrewadi, Vithalbhai Patel Road, Bombay 4. Tel.: 27754. Proprietor: Shri S. D. Shirodkar. Manager: Shri S. S. Kakodkar, B.A.

Nirnaya Sagar Press & Jawaji Dadaji Type Foundry.—26-28, Kolbhat Street, Bombay 2.

NOBLE PRINTING PRESS.—Multicolour Printers & Box Makers. 17, Noble Chambers, Ghoga Street, Fort, Bombay 1. Phone: 252949.

PAPER ART INDUSTRIES.—Noble Chambers, Parsee Bazar Street, Fort, Bombay 1. Printers & Box Manufacturers.

PARAMOUNT PRINTING PRESS.—Lentin Chambers, Dalal Street, Fort, Bombay 1. Telephone No. 252731.

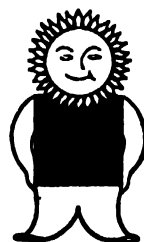
PHILPRESS.—Printers, Printing House, 28 D, Police Court Lane, Fort, Bombay 1. Phone: 251775. Grams: "PRINT-MORE."

Phoenix Printing Works.—Great Western Building, Apollo Street, Fort. Phone: 23568.

POPULAR PRESS (BOMBAY) PRIVATE LTD.—29, Tardeo Road, Bombay 7. Phone: 75420.

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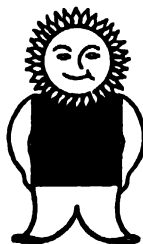
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Lyra (India) Co.—Mustafa Building, Sir Phirozshah Mehta Road, Fort.

Mazumdar & Co.—Opp. Krishna Cinema, Tribhuvan Road, Bombay 4.

METRO MUSICS.—545, Kalbadevi Tram Junction, Dhobitalao, Bombay 2. Phone: 23775. Grams: "METMUSICS." Distributors for METZ (German) Radios & "TRIOTRON" Radio parts & Valves.

Monitor Radios.—24, New Queen's Road, Opp. Roxy Talkies, Bombay 4.

Motwane (Private) Ltd., Incorporating Chicago Telephone & Radio Co. Private Ltd. (Estd. 1909). 127, Mahatma Gandhi Road, P. B. No. 1312, Fort, Bombay.

Murphy Radio of India Ltd.—Dr. Shirodkar Road, off Hospital Avenue, Parel, Bombay.

National Education and Information Films Ltd.—National House, Tulloch Road, Apollo Bunder, Bombay.

National EKO Radio & Engineering Co. Ltd.—Ewart House, Bruce Street, Fort, Bombay.

National Radio Corporation.—141, Chukla Street, Bombay No. 3.

N. D. Kooka & Co.—13/19, Meadows Street, Fort, Bombay 1.

Paradise Radio Electric & Engineering Co.—Opp. Swimming Bath, 39, Seaface, Chowpatty, Bombay.

Parakh & Sons.—483, Kalbadevi Road, Bombay 2.

Paramount Engineering Co.—Fort Chambers, Hamam Street, Fort.

PARIRAM & CO.—85, Pedar Chambers, Parsee Bazar Street, Fort, Bombay. Phone: 254289. Grams: "REKAM."

Photophone Equipments Ltd.—0, Marine Lines, Bombay.

PRATAP RADIO HOUSE.—208, Hira Mahal, Station Road, Wadala, Bombay 31. G. E. C. Radio Authorised Dealers.

Precious Electric Co.—Yusuf Building, Churchgate Street, Fort.

Radio Services.—417-21, Lamington Road, next to Powells Ltd., Bombay No. 4.

RADIOCRAFTERS, THE.—Radio and Sound Engineers, Land Mansion, opp. Charni Road Station, 21-C-D, Queen's Road. Phone No. 43006.

RADSOUND.—Sukh Sagar, Hughes Road, Bombay 7. Authorised Dealers for National-Ekco Radios, Murphy-Richards Appliances & Mfrs. of High Fidelity Amplifiers & Ampligrams. Guaranteed Servicing of Radios & Appliances undertaken under personal supervision of U.K. trained Engineers.

Ragavji & Co.—427, Kalbadevi Road, Bombay 2.

RAJA RADIO CO.—379/81, Lamington Road, Bombay 7. Estd. 1935. Phone: 70568. Importers & Mfrs. of Radio & Radio Spare Parts. H o Bombay Clearing Agency. Prop.: Dwarkadas & Co., Clearing Agents: 384-M., Dabholkar Wadi, Kalbadevi Road, Bombay 2. Estd. 1920.

Rex Radio Amplifier & Cinema Service.—23, Kennedy Bridge, near Opera House.

Rhythm House Private Ltd.—40, Rampart Row, Bombay.

SPEETMAN ELECTRIC & RADIO CO.—11A, New Queen's Road, Bombay. Phone: 70886. Dealers in G.E.C., HCEC & Amstel Radios. Also Record Changers.

STANDARD RADIO CO., THE.—26, New Queen's Road, Opp. Roxy Talkies, Bombay. Phone: 30791. Grams: "STANRAD-CO." Sole Distributors: "Thankar Radios" for the States of Bombay & M.P. Special Dealers for Philips Radios.

Star Radio Service.—Dhivandivala House, Gowalla Tank.

Star Radio & Engineers Ltd.—Parekh House, New Queen's Road, Bombay.

Sundaral, C. & Co.—Manhar Building, 189, Lohar Chawl, Bombay 2.

Super Radio Corporation.—33, Hussain House, Parel, Bombay 12.

Super Simplex Radio Co.—10, Harinivas, Lady Jamshedji Road, Bombay 28.

Supreme Electrical Engineering Co., Ltd.—Lady Jamshedji Road, Mahim, Bombay 16.

Surendra Trading Corporation.—159-2, Khetwadi Back Road, Bombay 4.

Talati, A. M., & Co.—Esmal Building, Hornby Road.

TELEFLUTE RADIO AGENCY.—Homji Street, off Sir Phirozshah Mehta Road, Fort, Bombay. Phone: 253358. Authorised dealers for Philips Radios & Appliances.

Unique Trading Corporation.—Mustafa Building, Sir Phirozshah Mehta Road, Fort.

United Engineering Corporation.—Datoobhoy Building, 5, New Queen's Road.

United Radio Service.—Padhy de Wadi, Bhawanji Shanker Road, Dadar.

Universal Radio Co.—6, Rance Building, Parthana Sama, Bombay 4.

Vinsar Radio Electric Co.—Hassan Chambers, 1st Floor, Parsee Bazar Street, Fort. Phone: 26184.

Washington Radio Service.—Parekh House, New Queen's Road.

West End Radio.—385, Kalbadevi Road.

WESTERN AGENCIES' CO.—421, Lamington Road, Bombay 4. Phone: 71051. Grams: "WESTCOY". Branches: Bangalore & Delhi. Engineers, Importers & Wholesalers of Radio Components. P. A. Equipment, Electric Appliances, Telecommunication Equipment, Manufacturers of "WACO" Radios, Amplifiers, Intercoms, Tape Recorders, Transformers, Chokes and Radio Cabinets.

RADIOS & COMPONENT PARTS MANUFACTURERS

DOMINION RADIOS.—15, New Queen's Road, Bombay 4. Phone: 20993. Grams: "DOMIRA." Importers and distributors of all makes of Radios, Components and P.A. Equipments.

MULCHANDANI ELECTRICAL & RADIO INDUSTRIES PRIVATE LTD.—Manufacturers of Bush Radios, Components and Hunt capacitors, Sukh Sagar, Sandhurst Bridge, Hughes Road, Bombay 7. Phone: 74546. Grams: "MUL-RAIN."

RAILWAY SIGNALLING EQUIPMENT

GREAT WESTERN ENGINEERING WORKS.—Sea View, 1st Pasta Lane, Colaba, Bombay 5. Phone: 36016. Grams: "GREWENWORK." Structural & Mechanical Engineers and Contractors, Tank & Railway Equipment Mfrs. & Suppliers.



19, Arab Lane, Corner Grant Road, Bombay 8

Manufacturers of :

Railway Signalling Equipment & Lamps, Marine Navigation Lamps (Kerosine & Electric), i.e. Ship Lamps

Stockists of :

Railway and Road Traffic Signalling Lenses, Roundels and other glasses.

Grams : "RAILAMP"

RATING SURVEYORS

ARAS & ARAS.—Rating Surveyors and Municipal Tax Consultants, 24, Dalal Street, Bombay 1.

RAYON (RAW MATERIALS)

Batlibol & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No. 255451-55. Grams : "BATLIBOLCO". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore and Vijayvada. Associates: Bangalore and Secunderabad.

RAYON MACHINERY SUPPLIERS

DOBSON & BARLOW (RAYON PLANTS) PRIVATE LTD.—3rd Floor, Stadium House, Veer Nariman Road, Bombay 1. Suppliers of Complete plants for the production of Continuous Filament Viscose Rayon, Staple Fibre and Transparent Paper.

RAZOR BLADES MFRS.

EDALJI KERAWALLA & CO.—Baria Bldg., 1st Floor, Opp. Crawford Market, Bombay 3. Phone : 23641. Grams : "KERAWALLA". Apollo Razor Blades manufactured in India under the Licence from Apollo-Werke, Solingen, Germany.

READYMADE CLOTHES

Cawnpore Mills Depot.—"Churchgate House", Churchgate Street, Fort, Bombay.

Kapadia Bros.—Kalyanji Building No. 8, Kandewadi, Bombay 4. Karnatak Concerns Ltd.—197, Shivaji Park, Bombay 28.

Khosla & Co., L. C.—39, Prospect Chambers Annexe, Hornby Road, Fort.

"Nanjia."—206-209, Carnac Road, Bombay 2.

Railship Stores.—30, Meadows Street, Fort, Bombay.

WEAR (INDIA) PRIVATE LTD.—4th Floor, Jan Mansion, Sir Phirozshah Mehta Road, Fort, Bombay 1. Grams : "READYWEAR." Sole Distributors (Bombay) for SAMSONS DRESSES.

Weldon Shop.—Oomrigar Building, opp. Crawford Market, Bombay 3.

RECTIFIERS

KAYCEE INDUSTRIES LTD.—Kamari Chambers, Nicol Road, Ballard Estate, Bombay 1. Phone : 262757. Grams : "KAYCEE." Sole Selling Agents for Westinghouse Electroplating, Anodizing Rectifier Equipments Manufactured by Hind Rectifiers (Private) Ltd., Bombay.

REFRACTORIES

DATSON RAVIRAJ & CO. (PRIVATE) LTD.—43, Tamarind Lane, Fort. Phone : 264433. Grams : "DATNARE."

JONES, J. D., & CO. (BOMBAY) PRIVATE LTD.—Rustom Building, Veer Nariman Street, Fort, Bombay. Phone : 263520. Grams : "MICA."

REFRIGERATORS (DOMESTIC)

Blue Star Engineering Co.—Kasturi Building, J. Tata Road, Bombay 1.

Bombay Gas Co., Ltd.—214, Hornby Road, Fort.

Ceylon Traders Corporation—21, Forbes Street, Fort.

Choles Radios.—Opp. Royal Opera House, Bombay 4.

Craftsman Electronic Corporation Ltd.—Alice Building, Hornby Road, Bombay.

Eastern Electric & Refrigeration Co.—14, Hamam Street, Fort. Eastern Radio and Refrigeration Co.—8, Beaumont Chambers, Meadows Street, Fort.

Economic Electric Co. Ltd.—Jall Road (East), Dongri, Bombay 9.

FREEZALL.—Tribhuvan Road, Bombay 4.

Gramophone Co., Ltd.—Universal Fire & General Insurance Co.'s Building, Sir Phirozshah Mehta Road, Fort.

Mangharam & Co.—Jan Mansion, Sir Phirozshah Mehta Road, Fort. Marks & Gilbert.—Darabshaw House, Douglas Road, Ballard Estate, Fort.

McKenzie Ltd.—Sewri.

Modern Electric Corporation.—P.O. Box 20, Bombay 1. Phone : 262120.

Modern Traders.—Post Box No. 1344, Bombay.

PARBHAM & CO.—65, Podar Chambers, Parsee Bazar Street, Fort, Bombay. Phone : 254289. Grams : "REKAM."

RADIOCRAFTERS, THE.—Refrigeration Engineers, Land Mansion, opp. Charai Road Station, 21-C-D, Queen's Road, Bombay. Phone : 23006.

Refrigeration & Appliances Co. Private Ltd.—Pravin Court, 95, Queen's Road, Bombay. Phone No. 242577. Grams : "REFRIGIANCES".

Rhythm House Ltd.—40, Rampart Row, Fort, Bombay 1.

Spencer & Co. Ltd.—Spencers Building, Fortjett Street, Bombay 26.

STAR FREEZ INDUSTRIES.—95, Marine Drive, Parijat, Bombay 2. Phone : 241332. Refrigeration and Air-conditioning Engineers, undertake installation and overhauling work of Air-conditioning plants and manufacturing & repairs of Refrigerators, Water Coolers, Ice-cream Freezers, Cold Storage Rooms, etc.

United Motors (India) Ltd.—Hughes Road, Bombay.

RENT COLLECTORS

PROPERTIES & ESTATES MANAGEMENT PRIVATE LTD.—11, Bank Street, Bombay 1. Rent Collectors, Trustees, Executors, Consultants, Advisers and Painting & Decorating Contractors.

REPRESENTATIVES (MANUFACTURERS)

Acme Agencies.—20, Hamam Street, Fort.

Advani Brothers, H. B.—251, Hornby Road, Fort.

Advani, G. V., & Co.—Prospect Chambers, Hornby Road, Fort.

Advani & Co., Ltd., J. B.—Advani Chambers, Top Floor, Sir Phirozshah Mehta Road, Fort.

Ahmed Ebrahim Bros.—88, Chukla Street, Bombay 3.

Akbarally Ebrahimji.—38/C, Cowasji Patel Street, Fort, Bombay. Grams : "Tussibar."

Akmo Trading Company.—111, Bhandari-Chukla Street.

Allied Publishers & Stationery Manufacturers, Ltd.—15, Graham Road, Ballard Estate.

Almeida, J. C.—National Insee. Building, 27, Bastion Road, Fort.

Art Metal Works (Est'd. 1882).—Office and Factory : 100, Foras Road, near Municipal Workshop, Bombay 8.

Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.

Ashar, R. D.—10, Bruce Street, Fort.

Asbok Brothers.—327, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

Asian Drug Corporation.—Podar Chambers, Parai Bazar Street, Fort. Associated Agencies (Bombay).—47, Podar Chambers, Parai Bazar Street, Fort.

Associated Corporation of Industries (India) Ltd.—Commerce House, Currimbhoy Road, Ballard Estate.

Automobile Co., Ltd.—41, Queen's Road, Bombay 2.

Bakshi Ram & Co.—129, Modi Street, Fort.

Batlibol, C. J., & Co.—319, Hornby Road, Fort.

Beardsell, W. A., & Co., Ltd.—Dhan-Nur Building, Sir Phirozshah Mehta Road, Fort.

Bhagwandas Chhatrabhai & Co.—20, Hamam Street, Fort.

Bhoglal & Company, R.—261/263, Hornby Road, Fort.

Birkmyre Brothers Ltd.—12, Rampart Row, Fort.

Bock, F., & Co.—Shale Building, Bank Street, Fort, Bombay.

Brady, W. H., & Co., Ltd.—Royal Insurance Building, Churchgate Street, Fort.

British Engineering Co.—105, Apollo Street, Fort.

Budhabhoy Noorbhoy & Co.—190, Abdul Rehman Street.

Byramji, T., & Co.—Central Bank Building, Mahatma Gandhi Road, Fort.

Cambata Industries Private Ltd.—Cambata Building, 42, Queen's Road, Bombay 1.
 Central Trading Co.—81, Cowasji Patel Street, Fort.
 Chavannes & Co., Ltd.—Mercantile Chambers, Graham Road, Ballard Estate.
 Chemicals and Machinery Ltd.—Hamam House, Hamam Street, Fort.
 Chemols Supply Co.—6th Floor, People's Building, Sir Phirozshah Mehta Road, Fort.
 Chimanlal Desai & Co.—Gool Mansion, Homji Street, Fort.
 Choksi, H., & Co.—106, Medows Street, Fort.
 Chotani Electric & Engineering Co. Ltd.—57, Apollo Street, Fort, Bombay.
 Corn Products Co. (India), Ltd.—Shreenivas House, Waudby Road, Fort.
 Cotton & General Produce Agency.—Sassoon Building, 141, Mahatma Gandhi Road, Fort.
 Craftman Electronic Corporation Ltd.—Alice Building, Hornby Road, Bombay.
 Dalilchi Bussan Kalsha Ltd.—4th Floor, Navsari Chambers, Outram Road, Fort, Bombay. Phones: 261667 and 262148. Grams: "DAITIBUSAN".
 Dalil B. Shroff & Co.—361, Dr. Dadabhai Nauroji Road. Phone: 21465.
 Dann-Decker Company.—People's Building, Sir Phirozshah Mehta Road, Fort.
 Deeth & Co., W. H.—P. O. Box 320, Bombay 1.
 Deevjan Agencies.—42, Prospect Chambers Annexe, Hornby Road, Fort.
 Denis Malcolm & Co., Ltd.—Kumud House, 267, Dr. Dadabhai Nauroji Road, Fort, Bombay.
 Derby & Co.—P. B. Press Building, 299, Frere Road, Fort.
 Dewan Raj Kumar.—78, Podar Chambers, Parli Bazar Street, Fort.
 Dhani Ram & Sons.—236, Masjid Bunder Road.
 Diarvi Trading Co.—78, Apollo Street, Fort.
 Dila & Co.—20, Hamam Street, Fort.
 Dinanath Sons.—466, Kalbadevi Road, Bombay 2.
 Doodal Limited.—Maifatal House, Backbay Reclamation, Bombay 1.
 Drewet Chowna & Co.—Lentin Chambers, Medows Street, Fort.
 Dubash Freres & Co.—Victoria Building, Parsee Bazar Street, Fort.
 Duncan Stratton & Co., Ltd.—5, Bank Street, Fort.
 Dulerai & Co.—22, Apollo Street, Fort.
 Dwarkadas & Sons Ltd.—Mehta House, 89, Apollo Street, Fort, Bombay.
 Engineer, Eruch D., & Co.—Crossby House, Apollo Street, Fort, Bombay.
 Express Corporation.—Co-operative Insurance Building, Sir Phirozshah Mehta Road, Fort.
 Fairdeal Corporation Ltd., The.—Lakhami Building, Sir Phirozshah Mehta Road, Fort.
 Fazalbhoy Ltd.—16, New Queen's Road, Bombay 4.
 Fell, K. M. (Successors to L. A. Bund).—Gresham Assurance House, Sir Phirozshah Mehta Road, Fort, Bombay.
 Fereshaw, L., & Co.—Shirin Mansion, Sleater Road, Bombay 7.
 Fleming Shaw & Co., Ltd.—Sorab House, 235, Hornby Road, Fort.
 Fortes, Forbes, Campbell & Co. Private Ltd.—Forbes Building, Home Street, Fort.
 Francis Klein & Co. (Bombay) Ltd.—Shale Building, Bank Street, Fort, Bombay.
 Gaytee and Company.—Janmabhoomi Chambers, Fort Street, Fort. Grams: "IMPENG." Phone: 32449.
 Gillanders Arbuthnot & Co., Ltd.—16, Queen's Road Estate, Bombay.
 Gladwyn & Co.—Powwala Building, 251, Hornby Road, Fort.
 Hallen, L. J., & Co.—275, Princess Street, Bombay 2.
 Harbanslal & Co.—Bell Building, Sir Phirozshah Mehta Road, Fort.
 Hardacre & Co., J.—Himalaya House, Palton Road, Bombay 1.
 Hardcastle, Waud & Co., Ltd.—Alice Building, Hornby Road, Fort.
 Heatley and Gresham Ltd.—9, Forbes Street, Fort.
 Hindustan Corporation Ltd.—Kermani Building, Sir Phirozshah Mehta Road, Fort.
 Hukumchand Chanderbhan.—1st Floor, Hira Building, opp. Crawford Market, Carnac Road.
 Indo-African Exporters.—Round Building, Kalbadevi Road, Bombay 2.
 Indo Bobbins & Textiles Co., Ltd.—10, Bruce Street, Fort, Bombay 1.
 Industrial Stores Co.—Seksaria Chambers, 139, Medows Street, Fort.
 Industries Service Corporation.—11, Bruce Street, Fort, Bombay.
 Iron & Hardware (India) Co.—Nagdevi Cross Lane.
 Jagkumar & Co.—Prospect Chamber Annexe, 317-21, Hornby Road, Fort.
 Jashwantlal Manecklal & Co.—40, Churchgate Street, Fort.
 Jayant Traders.—275, Frere Road, Fort.
 Jayens Engineering Co.—Warden House, Sir Phirozshah Mehta Road, Fort.
 Jhaveri Brothers.—149, Shroff Bazar, Bombay 2.
 J. L. Khemani & Co.—190, Princess Street, Bombay 2.
 Kanakia Corporation.—163, Nagdevi Cross Lane, Bombay 3.
 Keshavil Talakhchand.—India House, opp. G.P.O., Fort, Bombay. Phone: 32363. Grams: "CHANDRODAY".
 Khatrullah, G. D.—108, Apollo Street, Fort.
 Khatun Valabhdas & Co.—Indian Globe Chambers, Fort Street, Bombay 1.
 Lachmandas Ramchand.—98, Nagdevi Cross Lane, Bombay 3.

LATHAM ABERCROMBIE & CO. PRIVATE LTD.—Forbes Bldg., Home Street, Fort, Bombay.
 Laxmi Commercial Agency.—16, Apollo Street, Fort.
 Leories Trading Co.—23, Hamam Street, Fort, Bombay.
 Maharsahtra Leather Works.—Opp. Dadar Station (Western Rly.), Bombay 14.
 Mahindra & Mahindra Ltd.—Gateway Building, Apollo Bunder.
 Mangaldas & Sons.—Lentin Chambers, Dalai Street, Fort.
 Marshall Sons & Co. (India) Ltd.—Marshall Building, Ballard Estate, Fort.
 Marby Sons & Co.—"R" 3, Nowroz Baug, Lal Baug, Bombay 12.
 Mata Lachhmi Co.—Russell Chambers, Nanabhai Lane, Fort.
 Mill Factors Corporation.—Advani Chambers, Sir Phirozshah Mehta Road, Fort.
 Modak Agency.—Janmabhoomi Chambers, Fort Street, Fort.
 Modern Trading Corporation.—79-81, Medows Street, Fort.
 Muller & Phipps (India) Ltd.—Queen's Mansions, Baiton Road, Fort.
 Narendra & Co.—Banisilal Mansion, 11, Bruce Street, Fort.
 New Associated Commercial Enterprises, Ltd.—166, Hornby Road, Fort.
 Niranjan (India) Corporation.—Wakefield House, 16, Sprott Road, Ballard Estate.
 Oomedchand Kashiram & Co.—Mudi Bazar, Bombay 3.
 Ormerods (India) Ltd.—Bank of Baroda Building, Apollo Street, Fort, P.O. Box No. 410.
 Paramount (India) Ltd.—Kermani Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.
 Parry & Co., Ltd.—United India Building, Sir Phirozshah Mehta Road, Fort.
 Parsee Trading Co.—Vithal Sayana Building No. 2, Lohar Chawl, Bombay 2.
 Photophone Equipments Ltd.—9, Marine Lines, Bombay.
 Pioneer Consolidated Co. of India, Ltd.—Botawalla Building, 11-13, Elphinstone Circle, Fort.
 Plastic & Industrial Corporation Private Ltd.—Amar Building, Sir Phirozshah Mehta Road, Fort.
 P. P. Corporation Ltd.—Hamam House, Hamam Street, Fort.
 Prabhulal N. Anandwala.—43, Tamarind Lane, Fort.
 P. R. Patel & Co. Ltd.—Mherwan Building, Sir Phirozshah Mehta Road, Fort.
 Prince, H. L., & Sons.—9, Lily Court, Churchgate Reclamation, Bombay. Phone: 37441. Cable: "BRUNSVIGA".
 Purushottamdas, A. H.—36, Lentin Chambers, Dalai Street, Fort.
 Raj, H., & Co.—98, Princess Street, Bombay 2.
 Raj-Der-Kar & Co.—Commisariat Building, Hornby Road, Fort.
 Ratanal Morarji Ltd.—Prospect Chambers, 317-21, Hornby Road, Fort.
 R. C. H. Barar & Co.—239, Abdul Rehman Street, Bombay 3.
 Refrigeration & Appliances Co. Private Ltd.—Pravin Court, 95, Queen's Road, Bombay 1.
 R. L. Bros. & Co.—4th Floor, "Dhun-Nur", Sir Phirozshah Mehta Road, Fort.
 Roberts McLean & Co. Private Ltd.—Ilaco House, Sir Phirozshah Mehta Road, Fort.
 Sarabhai & Co.—Western India House, Sir Phirozshah Mehta Road, Fort.
 Scientific Instrument Co., Ltd.—Navsari Building, 240, Hornby Road, Fort.
 Sethlons Ltd.—12, Rampart Row, Fort.
 Sethy, M., & Co.—29, Ismail Building, 351, Hornby Road, Fort.
 Shandas, B., & Co.—121, Himalaya House, Palton Road, Bombay 1.
 Shanker Singh & Co.—10/10A, Nanabhai Lane, Bombay.
 Shapurji, R. K., & Co.—Prospect Chambers, 319, Hornby Road, Fort.
 Shroff & Co., Dalil B.—361, Hornby Road, Fort.
 Siqueira & Sons.—121, Fort Street, Fort.
 Sivramakrishnan, M.—Hazi Manzil, 82-86, Abdul Rehman Street, Bombay 3.
 Somani & Company Ltd.—Mehta Building, Medows Street, Fort, Bombay.
 Sorabji Khursedji & Co.—Calicut Street, Ballard Estate. Phone: 30562. Grams: "Alyshap".
 Speciality Traders Ltd.—Imperial Chambers, Wilson Road, Ballard Estate.
 Subodh Indent Agency.—44, Kumar Villas, Mangalvadi, Girgaum, Bombay 4.
 Stoessel, W. R., & Co.—63, New Marine Lines, Fort. Grams: "ENTIRENESS".
 Sunder Mehta & Co.—413G, Vasant Wadi, Kalbadevi Road, Bombay 2.
 Turner Hoare & Co. Ltd.—Gateway Building, Apollo Bunder, Fort, Bombay.
 Unisals (India) Ltd.—27-33, Medows Street, Fort, Bombay.
 Utommal & Asudamal & Co.—Bombay Mutual Annexe, Gunbow Street, Fort.
 Valab & Co., M.—Podar Chambers, Parsee Bazar Street, Fort.
 Vasi Bros. & Co.—Topiwala Mansion, Mahomedally Road, Bombay 3.
 Vaziralli Ltd.—Prospect Chambers, Hornby Road, Fort.
 Vikram Padamsey & Co.—Rustom Building, 29, Veer Nariman Road, Fort.
 Volkart Brothers.—19, Graham Road, Ballard Estate, Bombay.

Ward, Thos. W. (India) Ltd.—Marshall Building, Ballard Road, Fort.
Watanmal Boolchand.—P.O. Box 2283, 534, Kalbadevi Road,
Bombay 2.

Western India Engineering Corp. Ltd.—Cama Chambers, 23, Medows
Street, Fort.

Western Mercantile Co.—33-38, Western India House, Sir Phirozshah
Mehta Road, Fort.

William Jacks & Co., Ltd.—Hamilton House, Ballard Estate, Fort.
Williams, G., & Co. Private Ltd.—Steelcrete House, Backbay Recla-
mation, Bombay 1.

Y. M. Pathare & Company.—Post Box 1428, 41, Medows Street,
Bombay 1. Phone: 24415.

Yacob Ahmed Bros.—Topiwalla Mansion, Mahomedally Road.

Yesbanand & Co.—Podar Chambers, Parsee Bazar Street, Fort.

RESPIRATORS (DUST PROTECTION) MFRS.

**VISEWA BHARATI TRADING CO.—14, Kumpia Street, Ballard
Estate, Post Box No. 1082, Bombay 1. Phone: 244555.
Grams: "VISEACO." Branch: G.P.O. Box 2628, Calcutta 1.
Mfrs. of Industrial Safety Equipments, such as Goggles,
Gloves, Dust Masks, Gas Protection Respirators, Aprons,
etc.**

RICE MERCHANTS

Abdul Sakur Umar Sahigara & Co.—Haji Habib Building, Koliwada,
Mandvi, Bombay 3.

A. H. Bhiwandiwalla & Co.—93-95, Kazi Syed Street, Bombay 3.
Anandji Bhojraj & Co.—116, New Chinch Bunder Road, Bombay 9.

Atul Krishna Dutt.—1, Russel Street, Bombay 9.

Baldeoram Saligram Private Ltd.—307-309, Kalbadevi Road,
Bombay 2.

Bhalil Hargovind & Co.—250, Bhat Bazar.

Bhawaji Murji & Co.—220, Narsi Natha Street, Bombay 9.

Bhpatray Chandulal & Co.—75, Javeri Bazar, Bombay 2.

Bhpatray Kallidas & Co.—195, Samuel Street, Bombay 9.

Canji Dwarkadas.—45-47, Modi Street, Bombay 1.

Chhaganlal Tribhuwandas & Co.—104-14, Frere Road, Bombay 9.

Chandulal Kantilal.—725, Cotton Exchange Building, Bombay 2.

Chandulal Mohanlal.—3, Kumbhar Tukda, Ram Building, Bombay 4.

Chaterbhoy Naranji.—108, New Chinch Bunder Road, Bombay 9.

Chunilal Ambalal Patel.—116, Keshavji Naik Road, Bombay 9.

D. H. Bharmal & Co.—27, Chinch Bunder Road, Bombay 9.

Damji Champshi & Co.—Bhat Bazar, Bombay 9.

Damji Devraji & Co.—246, Bhat Bazar, Bombay 9.

Damji Ranaji & Co.—116, New Chinch Bunder Road, Bombay 9.

Damji Shamji & Co.—Ardeshir Mansion, Bhat Bazar, Bombay 9.

Devchand Gulabchand.—195, Khoja Galli Naka, Bombay 3.

Devji Khetsey & Co.—116, New Chinch Bunder, Bombay 9.

Devji Murji.—New Chinch Bunder Road, Bombay 9.

Devji Tokersey & Co.—30, Manordas Street, Bombay 1.

Devdayal Tulshiram.—Tulshiram Gupta Mill, Reay Road,
Bombay 10.

Devji Dharamshi & Co.—116, New Chinch Bunder, Bombay 9.

Dharamshi Lalji.—305, Kharek Bazar, Bombay 3.

Doongersi Ganpat & Co.—220-231, Bhat Bazar, Bombay 9.

Dwarkadas & Co. Ltd.—Rajmahal, Bhuleswar, Bombay 2.

Ibrahim Yusuf Zainal Alireza.—Sitaram Building, 'D' Block, 3rd
Floor, Bombay 1.

Excellent Mercantile Bureau.—27, Chinch Bunder, Bombay 9.

Galla Warehousing & Co.—20, Bhat Bazar, Bombay 9.

Girish M. Katira.—118, Kalbadevi, Bombay 2.

Govindji Bharmal & Co.—77, Olive Road, Dana Bunder, Bombay 9.

Hasham Premji.—5, Ghoga Street, Bombay 1.

Harakhchand Vishanji & Co.—246, Bhat Bazar, Bombay 9.

Hareesh & Co.—116, New Chinch Bunder, Bombay 3.

Hathibhai Bulakhidas.—86, Masjid Bunder, Bombay 3.

Hemchand Premji & Co.—7, Keshavji Naik Road, Bombay 9.

Hirji Gelabhai & Bros.—Gaya Building, Masjid Bunder, Bombay 3.

Hirjee Ladhahai & Co.—116, New Chinch Bunder, Bombay 9.

Indo-Asiatic Export & Import Corp.—468, Kalbadevi, Bombay 2.

J. Nagindas & Co.—36, Kazi Syed Street, Bombay 2.

J. Prabhudas & Co.—25, Dabda Galli, Masjid Bunder Road,
Bombay 3.

Jamnadas Jivram & Co.—229, Kariyana Bazar, 1st Floor, Bombay 3.

Jayantilal Hanaraj & Co.—220, Bhat Bazar, Bombay 9.

Jayantilal Vishanji & Co.—19, Chinch Bunder, Bombay 9.

Jiwani Lalubhai & Co.—Jakeria Building, Sherif Dewaji Street,
Bombay 3.

Kancharia Mohanrao & Bros.—43, Princess Street, Bombay 2.

Kanji Morarji Thacker.—235-87, Narsi Natha Street, Bombay 9.

Kanji Velji.—74-76, Khand Bazar, Bombay 3.

Khetshi Chaterbhui & Co.—9, Chinch Bunder Road, Bombay 9.

Khimji Poonja & Co.—19-21, Dalal Street, Bombay 1.

Khimji Ranchhodas.—Chandra Bhuvan, Narsi Natha Street,
Bombay 9.

Kishorchandra & Co.—34, Shri Ram Market, Bombay 3.

Kurpal Harsey & Co.—116, New Chinch Bunder, Bombay 9.

Kusumchandra Kirtikumar.—118, New Chinch Bunder, Bombay 9.

Lalji Devji & Co.—254, Bhat Bazar, Bombay 9.

Lalji Poonshi & Co.—3, Chinch Bunder, Bombay 9.

Manohar & Co.—229-31, Bhat Bazar, Bombay 9.

Manordas Hinnatal.—104-114, Sugar Market, Bombay 9.

Mansukhlal Bhavanji & Co.—278, Narsi Natha Street, Bombay 9.

Murji Devahi & Co.—116, New Chinch Bunder, Bombay 9.

Nagindas Mulji & Co.—35, Esaji Street, Bombay 3.

Nanji Hirji & Co.—112, New Chinch Bunder, Bombay 9.

Nanji Shamji & Co.—116, New Chinch Bunder, Bombay 9.

Odhavji Shivji Joshi.—233-35, Bhat Bazar, Bombay 9.

Parekh & Co.—104-40, Sugar Market, Bombay 9.

Parasram Parumal & Co.—104-114, Frere Road, Bombay 9.

Pasu Anand & Co.—4, Chinch Bunder, Bombay 9.

Poonja Thakersey & Co.—116, New Chinch Bunder, Bombay 9.

Popatlal Dalpatlal & Co.—28, Moodi Bazar, Bombay 3.

Premji Haridas & Co.—168, Argyle Road, Bansall Chamber,
Bombay 9.

Premji Karabhai Thaker.—72, Kalyan Street, Bombay 9.

Premji Pragji Dharamshi.—263, Samuel Street, Vadgadi, Bombay 3.

Purushottam Surchand.—126-34, Argyle Road, Bombay 9.

Ranchhodas Jethabhai & Co.—262-270, Narsi Natha Street,
Bombay 9.

Rashiklal Chunilal & Co.—105, Samuel Street, Bombay 3.

Ratanishi Murji.—3, Chinch Bunder Road, Bombay 9.

Ravjibhai Dahyabhai & Co.—109A, Old Hanuman Galli, Princess
Street, Bombay 2.

Ravji Javerchand & Co.—75, Javeri Bazar, Bombay 2.

Rawji Dhanji & Co.—21, Chinch Bunder Road, Bombay 9.

Saurashtra Trading Co.—137-141, Samuel Street, 2nd Floor,
Bombay 9.

Shamji Rawji & Co.—116, New Chinch Bunder Road, Bombay 9.

Shamji Velji & Co.—228, Narsi Natha Street, Bombay 9.

Shantilal Bros.—77, Olive Road, Dana Bunder, Bombay 9.

Shantilal Hirji & Co.—110, Chinch Bunder Road, Bombay 9.

Shantilal Karamshi & Co.—69, Frere Road, Sugar Market, Bombay 9.

Shantilal Khimji.—Gaya Building, Bombay 3.

Shankerini Rasiklal.—Diamond Building, Lohar Chawli, Bombay 2.

Shivlal Deshal & Sons.—70, New Stock Exchange Building,
Bombay 1.

Talakhshi Ramji & Co.—229-31, Bhat Bazar, Bombay 9.

Tarachand Doongershi & Co.—224, Bhat Bazar, Bombay 9.

The Motipur Sugar Factory Ltd.—164-66, Kambekar Street,
Bombay 3.

Unlaskanker Ramji & Co.—Bayan Grain Market, 'K' Galli,
Bombay 9.

Valabdas Jeram & Co.—285, Narsi Natha Street, Bombay 9.

Vasantilal Govindji & Co.—384, Kalbadevi Road, Bombay 2.

Vasantkumar Virji & Co.—21, Keshavji Naik Road, Bombay 9.

Velji Lakhamshi & Co.—83, Olive Road, Dana Bunder, Bombay 9.

Velji Rawji & Co.—12-14, Kazi Syed Street, Bombay 3.

Virji Dahya & Co.—116, New Chinch Bunder Road, Bombay 9.

Virji Devji & Co.—168, Dongri Street, Bombay 9.

Vishanji Ladhahai.—113, New Chinch Bunder, Bombay 9.

Vradhichand Shamji & Co.—Dana Bunder, 'E' Galli, Bombay 9.

ROAD ASPHALTING ACCESSORIES

**EVERGREEN CORPORATION.—Gopal Nivas, Lohar Chawli,
P.O. Box No. 2733, Bombay 2. Phone: 20891. Grams: "IMP-
TUBE." Aprons, Gloves, Helmets, Road Rollers Spray
Buckets, Ghamellas, Hammers; and other Iron implements.**

ROAD BUILDING CONTRACTORS

**NATIONAL ASPHALT PRODUCTS & CONSTRUCTION CO.—
Dhan-Nur, Sir Phirozshah Mehta Road, Bombay 1. Phone:
261793. Grams: "NASHASALT."**

ROAD BUILDING MACHINERY

Associated Machine & Tool Co.—130, Medows Street, Fort.

Palmer Lawrie & Co., Ltd.—Ballard Estate, Bombay 1.

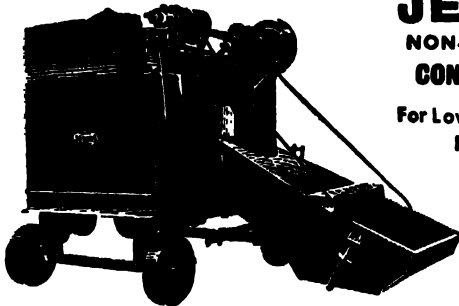
Choksi, H., & Co.—106, Medows Street, Fort.

**EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—
Shreevivas House, Wadhy Road, Bombay. Phone: 26-2711
(6 lines). Offices at Madras, Calcutta, New Delhi,
Bangalore and Secunderabad.**

Great Western Engineering Works.—"Sea View," 1st Pasta Lane,
Colaba, Bombay 5.

Greaves Cotton & Co., Ltd.—Forbes Street, Bombay 1.

Jacks, William & Co. Ltd.—Hamilton House, Graham Road, Ballard
Estate, Fort.



JESONS

NON-TILTING TYPE CONCRETE MIXER

For Lower Maintenance
Fast Mixing cycle
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Easy to handle
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GEAR & CHAIN
SYSTEM OF DRIVE
Approx. output
280 cu. ft. per hour

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Killick, Nixon & Co., Ltd.—Home Street, Fort, Bombay 1.
Larsen & Toubro Ltd.—1, C. House, Dougall Road, Ballard Estate, Fort.
Lusob Trading Co.—Bell Building, Sir Phirozshah Mehta Road, Fort.

MILLERS' TIMBER & TRADING CO., LTD.—Victoria House, Victoria Road, Bombay 27.

Tropical Engineering Co.—27, Forbes St., Fort, Bombay 1. Grams: "TROPENCO." Importers of and Stockists in Electric Motors, Generating Sets, Turbines, Locomotives, Stone Crushers, Road Rollers etc.

Voltas Limited.—19, Graham Road, Ballard Estate.
Ward, Thos., W. (India) Ltd.—Marshall's Building, Ballard Road, Fort.

ROLLING SHUTTERS MANUFACTURERS

BOMBAY ROLLING SHUTTERS.—Manufacturers of Rolling Shutters, Steel Windows, Grills, etc. Mansukh Nivas, 2nd Floor, 168, Khetwadi Back Road, Bombay 4. Grams: "STEEL-FRAME." Factory: Vihar Road, Saki Naka, Kurla, Bombay 37.

National Engineering Works.—Khed Gully, Bombay 28.
Shaparia Dock & Steel Co., Ltd.—Sewri Fort Road, Bombay 15.
Standard Rolling Shutters & Engineering Works.—37, A.B.E. Parel Road (Cross Lane), Bombay 12.

SHUBHDWAR ROLLING SHUTTERS & ENGINEERING CO.—208, Commerce House, Meadows Street, Fort, Bombay. Phone: 254065. Grams: "SHUBHROLL." Manufacturers of Steel and Aluminium Rolling Shutters, Window grills, Collapsible gates and all types of steel fabrication Works, Silver tipped electrical Contacts and Dealers in machinery.

SWASTIK ROLLING SHUTTERS & ENGINEERING WORKS.—Opp. C. Rly. Station, Bombay 12. Phone: 62041. Grams: "SWASTIKROL."

Yahya & Co.—123, Abdul Rehman Street, Bombay 3.

ROOFING MATERIALS

WILLIAM JACKS & CO. LTD.—Hamilton House, Graham Road, Ballard Estate, Bombay. Sole Distributors for India, Tar & Bitumen Products, Calcutta. Roofing felts, Fabrics, leak-stop Compositions, bitumen emulsions and bituminous Paints; Also Sole Distributors for Pegasus Indian Textiles; cement waterproofers, concrete hardeners and Acid alkali resisting cement.

ROOF WATERPROOFING

SHARAT ASPHALT INDUSTRIES.—23, People's Bldg., Sir Phirozshah Mehta Road, Bombay 1. Phone: 264067. Specialists in Roof Waterproofing, Asphalt Roads, Bituminous Industrial Tiles etc.

Cole, R. A., Private Ltd.—22, Apollo Street, Bombay 1. Phone: 251617/8. Grams: "DERAC." Waterproofing Specialists. Manufacturers of the dual-purpose Thermocole which insulates as it waterproofs.

GLADSTONE LYALL & CO., LTD.—Bharat Nagar, 342, Grant Road, Bombay 7. Phone: 76039. Grams: "GLADSWYLL." Bombay Manager: A. V. Ryan; Head Office: 4, Fairlie Place, Calcutta.

SHALIMAR TAR PRODUCTS (1935) LTD.—16, Bank Street, Fort, Bombay 1. Phone: 252185. Grams: "TARSTIL." Specialists in Roof Waterproofing, Damp-proofing, Flooring, Decking, Canal Linings, etc. Contracts executed under guarantee.

ROPERIES

Adamally Sons Ltd.—277, Nagdevi Street, Bombay 8.

ADAMJI KADERBHOY.—Post Box No. 5046, 337, Katha Bazar, Bombay 9. Tel. No. 39085. Grams: "RAJKOTWALA." Manufacturers and Stockists of Cordage, Manila Coir, Hemp & Cotton Ropes. Approved Contractors to Govt., Rlys. and Steamship Companies. Exporters of Coir Products. Selling Agents for: The Ganges Rope Co., Ltd., Calcutta.

Apex Traders.—Advani Chambers, Sir Phirozshah Mehta Road, Fort.
CHANDULAL & CO., KATHAWALLA.—11, Kani Sayed Street, Bombay 9. Grams: "CORDCOIR." Phone: 71298.

Fatabhai, K. S., & Co.—129, Nagdevi Street, Bombay 3.

G. J. Rassiwalla Rope Factory.—44, Clara Road, Byculla, Bombay. Phone: 40481. Grams: "ROPE-TAPE."

G. J. RASSIWALLA ROPE FACTORY.—Factory: 44, Clara Road, Bombay 8. Shop: 6-7, Maskati House, Mohamedali Road, Bombay 3. Phones: 40481, 22153. Grams: "ROPE-TAPE."

GUJRAT ROPE FACTORY THE.—57/59/61, Bhajipala Lane, Bombay 3.

Mohamedbhoy, H., & Co.—114-116, Bhajipala Lane, Bombay 3

OCHRAVAL CHHOTALAL & CO.—207-209, Nagdevi Street, Bombay 3. (Phone: office 34644; Residence 29648). Grams: "KACHERIA." Bombay. Manufacturers and dealers in all kinds of Cotton, Hemp, Manila & Sisal Ropes, Linedori, Bandings, Twines, Tapes, Newars, Webbing, & Wicks etc.

Pranji Haridas & Co.—Bhanusali Chambers, 168, Argyle Road, Bombay 9.

RASIWALLA & CO., M. M. A.—17, Janjikar Street, Huseinbhai Building, Mandvi, Bombay 3. Phone: 29850. Grams: "TWIST." Manufacturers of Cotton Ropes, Thread and Twine, and Dealing in Fish Hooks and Hemp Twine, Plastic Fishing Lines and Sail Needles.

Star Rope Works, The.—87, Sun Mill Road, Lower Parel, Bombay 13.
Talib & Co.—Talib House, 104, Nagdevi Street, Bombay 3.

THANA TEXTILE ROPE WORKS.—"Sun Brand" Pink Fly Cotton Rope Manufacturers and Merchants. Crescent Chambers, Tamarind Lane, Fort, Bombay. Works: Bombay-Agra Road, Thana (C.R.). Phone: 251853. Grams: "ROPE-DRIVE."

Thanawala & Co., M. J.—47-49, Forbes Street, Fort.

Thanawala, B., & Sons, Ltd.—47, Tamarind Lane, Fort.

ROSIN AND TURPENTINE

BOMBAY ROSIN CORPORATION.—181, Samuel Street, Mandvi, Bombay 9. Phone: 251902. Grams: "CHANDU-MEWA." Sole selling Agents of the Himachal Government Rosin & Turpentine Factory.

Kirtikumar Chandulal & Co.—313, Samuel Street, Vadgali, Bombay.

EMPEE CORPORATION PRIVATE LTD.—Dadyseth House, 44, Cawasji Patel Street, Fort. Grams: "ROSTURP." Phone: 251902.

PRABHAT GENERAL AGENCIES.—195, Kalbadevi Road, Bombay 2. Phone: 20359. Grams: "EXPANSION."

RUBBER GOODS MANUFACTURERS

Alfa Rubber Co.—59, Forbes Street, Bombay 1. Phone: 254825.

Apex Traders.—Advani Chambers, Sir Phirozshah Mehta Road, Fort
Arco Agencies.—Ham House, Gunbow Street, Fort, Bombay 1.

ASSOCIATED RUBBER INDUSTRIES LTD.—Union Bank Bldg., 4th Floor, Apollo Street, Bombay 1. Phone: 254637. Grams: "RUBBERWORK." Manufacturers of Rubber Products for automobile assemblers, Rubber & Ebonite parts, Moulded, Extruded Rubber goods, Rubber Soled Canvas Footwear, Synthetic Rubber Cots & aprons and Dipped dated goods such as Surgeon Gloves, etc.

Cosmos India Rubber Works, Ltd.—7, Homji Street, Fort.

DIAL RUBBER WORKS.—Factory: Goregaon East, Bombay S.D., Sales Office: 12/14, Champa Galli, Zaveri Bazar, Bombay 2. Manufacturers of Acid & Alkali Proof Rubber Hand Gloves, Foot Mortem Gloves, Surgeon's Gloves, Canvased lined gloves and Rubber Aprons. Grams: "QUOTATION." Phone: 38891.

Dunlop Rubber Co. (India) Ltd.—Dunlop House, Hughes Road.

EBRAHIM ALLIHOY & SONS (ESTD. 1934).—Importers and Exporters. 260-64, Abdul Rehman Street, Bombay 3. Phone: 38863.

Empire Industrial Works.—Warden House, Sir Phirozshah Mehta Road, Fort.

Excelcor Commercial Corporation.—243, Abdul Rehman Street, Bombay 3. Grams: "BIGSALES." Phone: 26463.

Ghia, B. L.—Behramji Mansion, Sir Phirozshah Mehta Road, Fort. Great Eastern Trading Co.—107, Cawasji Patel Street, Fort.

Harivadan S. Dholabhai.—21A, West View, 10th Khetwadi, Bombay 4. Suppliers of Rubber Stamps, Blocks, Cinema Slides and Embossing Dyes.

HIND RUBBER INDUSTRIES PRIVATE LTD.—Suryodaya Mills Compound, Tardeo, Bombay 7. Phone: 41800. Grams: "HINDRUBBER." Manufacturers of Moulded and extruded rubber goods such as Bicycle Pedal Rubbers, Brake Rubbers, Seat Covers, Reflectors; Solid Tyres and Rubber Accessories for Tricycles & Perambulators; Solid Tyres for Trolleys, Complete Trolley Wheels; Complete Bicycle Pedals and various industrial rubber goods required by Railways, Mills, Power Houses, etc. Managing Director: Shri Shankar-al G. Jhanjhanwalla.

I.C.I. (India) Private Ltd.—P. B. No. 310, Bombay 1.

Industrial Store Agency.—50, Forbes Street, Fort.

International Rubber & General Industries Ltd.—Alkarim Mansil, 2nd Floor, Palton Road, Bombay 1. Grams: "INRUGIN."

Jai Hind Rubber Products, Ltd.—391F, Grant Road, Bombay 7.

KAMAL RUBBER WORKS PRIVATE LTD.—71, New Citizen Bank House, Palton Road, Bombay 1. Phone: 262775. Grams: "GUBBARA." Factory: Mahul Road, Chembur. Manufacturers of Highclass rubber balloons, toys etc.



Manufacturers of

"COMET" Brand Quality Rubber Goods
such as Hot water Bags ● Ice Bags ● Breast
Pumps ● Electrical Insulated Wires ● Cables
Rubber Erasers ● Enema Tubes ● Nipple
Shields ● "President" Brand Hot
water Bottles.

KANTILAL CHHOTAL & CO.,

22, Babu Genu Road, Princess Street, Bombay-2

Phone: 39630

Grams: "COMETBAG"

Kapadia Brothers.—Kalan Building No. 3, Kandewadi, Bombay 4.
Klabore Rubber Industries.—Suryodaya Mills Compound, Tardeo, Bombay 7.

KORULA RUBBER CO. PRIVATE LTD.—Manufacturers of Latex Foam Cushions, Telecord Cables, Automobile parts, Rubber Lined Tanks, Industrial Rubber Goods, Gloves & Gumboots & Pharmaceutical Rubber Goods. 249, Worli, Bombay 18. Phone: 41950. Grams: "ZIRCON," Bombay.

Merchant Bros.—151, Nagdevi Street.

MODAK RUBBER PRODUCTS PRIVATE LTD.—Managing Directors: Shri K. V. Modak & Dr. K. N. Modak. Registered Office & Factory: Verma's Building, Colanjee Hill Road, Sewree, Bombay 18. Phone: 62139. Grams: "MODRUB." Manufacturers of all types of Industrial & Pharmaceutical moulded and extruded Rubber goods to specification in natural & Synthetic Rubber. Also manufacturers of Automobile and Railway requirements.

ORIENTAL RUBBER INDUSTRIES PRIVATE LTD.—United Bank of India Bldg., 6th Floor, Sir Phirozshah Mehta Road, Bombay 1. Factory: Agra Road, Bhandup, Bombay 40. Phone: (Factory) 67340. Grams: "ORIENRUBBER." Bombay 1. Manufacturers of Rubber Transmission Conveyors, Beltings, Hose Pipes, Sheetings and all kinds of Mechanical & Moulded Rubber goods.

PREMIER RUBBER & CABLE INDUSTRIES.—Jamal Building, 211, Nagdevi Street, Bombay 3. Phone: 38551. Grams: "RUBERGOODS." Manufacturers of quality Rubber Goods such as 'PREMIER' Cycle and Rickshaw Tyres and 'PREMEX' Tubes, Rubber Hose Pipes (Delivery & Suction), Petrol and Oil resisting Hose Pipes, Rubberised Texture Cloth, Rubber Beltings, Moulded and extruded articles.

ROYAL HARDWARE MART.—108, Nagdevi Street, Bombay) Phone: 38821. Grams: "MANILAROPK."

RUBBER INDUSTRIES (INDIA).—Works at Kuria Road, Andheri. Phone: 86214. Office: 243, Abdul Rehman Street, Bombay 3. Grams: "HOLYTRADE", Bombay. Phone: 39096.

SLEWEL CORPORATION.—Nakhuda Raghay Market, 8, Nagdevi Street, Bombay 3. Dealers in Rubber Hoses, tubes, solid insertion sheets, etc.

SORABJI D. DARUWALLA.—Round Building, Kalbadevi Road. Sole Agents: East India Rubber Works Ltd., Calcutta. Manufacturers of all kinds of Rubber Goods, Ebonite Sheets and Rods, Moulded Rubber goods. Direct Importers of Surgical, Mechanical and Technical Rubber Goods. Phone: 30348. Grams: "REDCROWN."

Standard Rubber Corporation, The.—81, Esplanade Mansion, Mahatma Gandhi Road, Fort, Bombay.

Supreme Industries Ltd.—Sewree Cross Road, Wadala, Bombay.

THE HINDUSTAN TYRES PRIVATE LTD.—Manufacturers of all kinds of Rubber and Ebonite Goods and Retreaders of Tyres, Lamington Road (North), opp. Agripada Police Station, Bombay 11. Phone: 42821. Grams: "TYRES."

U.S. Trading Co.—P. O. Box No. 1212, Fort.

VIJAY BAKELITE TRADING CO.—70/72, Chakia Street, Bombay 3. Grams: "BESTCAP." Manufacturers & Distributors of all kinds of Caps and Stoppers made of Rubber, Bakelite, Alkathene & Plastics.

VITHAL MAHADEO & CO., (ESTD. 1923).—109, Nagdevi Street, Bombay 3. Suppliers to Mills & Factories. Manufacturers of Industrial Rubber, Fibre, Ebonite & Leather goods. Specialists in Boiler Asbestos Rings, Leather-Ram Rings & Leather Buckets.

West India Company.—Behramji Mansion, Sir Phirozshah Mehta Road, Fort.

RUBBER STAMP MAKERS

Ghaies, G. J., & Co.—Ramchandra Building, Tram Terminus, Girgaum.

Goonanath, P.—Nana Shankar Seth's Wadi, Girgaum Road, Thakurdwar.

Kotkar, M. B., Bros.—373, Girgaum Road, Thakurdwar.

MANKAME BROTHERS.—Rubber Stamp Manufacturers, Engravers and Die-Stakers, 408, Kalbadevi Road, Bombay 2. Phone: 23960. Grams: "SCULPSIT."

Masani & Co.—91, Meadows Street, Fort.

Stewarts Laboratories.—327, Hornby Road, Fort.

Thacker & Co. Ltd.—18-20, Rampart Row, Fort.

Young India Stationery Mart.—43, Ghoga Street, Fort.

SADDLERS AND HARNESS MAKERS

Elgin Leatherwares, Ltd.—Nawab Building, 327, Hornby Road, opp. Thos. Cook & Son, Fort, Bombay.

Kamrudin Adamjee & Co.—135, Bhendi Bazar.

MAMAJI & SON (PRIVATE) LTD., Y.A.—136-38, Sir Ebrahim Rahimtulla Road, Bombay 3. Phone: 71262. Grams: "MA-MAJEON." Importers & Exporters; P.V.C. Leather Cloth, Motor & Carriage Upholstery Materials, Saddlery & Harness goods & all kinds of Felt.

SAFETY WEAR FOR INDUSTRIAL WORKERS

VISHWA BHARATI TRADING CO.—14, Kampta Street, Ballard Estate, Post Box No. 1082, Bombay 1. Phone: 244555. Grams: "VIBHACO." Branch: G.P.O. Box 2688, Calcutta 1. Mfrs. of Industrial Safety Equipments, such as Goggles, Gloves, Dust Masks, Gas Protection Respirators, Aprons, etc.

SAFETY MATCHES

HASANALLY, A.—163, Mohamadali Road, Bombay 3. Grams: "FORTRAD." Agents: Hind Matches Ltd., Manufacturers of Safety Matches.

Western India Match Co., Ltd.—Indian Mercantile Chambers, Nicol Road, Ballard Estate, Bombay.

SAFFRON MERCHANTS

KHOSLA KESERWALA.—70, Masjid Bunder Road, Mandvi, Bombay 3. Grams: "KHOSLAROS." Phone: 73532. Sole Importers of "Ramala" Brand 100 per cent pure and best selected Saffron from Spain having largest nett sales in India. Wholesale and Retail merchants.

SALT MERCHANTS

BEIWANDIWALLA & CO., E. M. D. E.—363, Chira Bazar, Bombay No. 2.

ORIENTAL SALT TRADING CO.—207, Samuel Street, Bombay 3. Manufacturers and Suppliers of Common Salt to Industrial Concerns and Retail and Wholesale Dealers.
Prabhulal L. Pandya & Co.—11, Bank Street, Fort.

SAND, STONE AND CHUNAM MERCHANTS

Atmaram Bros.—Thakurdwar Mortar Mill, 340, Girgaum Road and Duncan Road.

Bharat Pulverising Mills.—Narayan Dhuru Street, Bombay 3.
Fauzuddin Ibrahim Chunawala.—Near Water Pipe, Chinch Bunder.
Haji Adam Haji Abba & Co.—Reti Bunder, Masagaon.
Haji Umer Haji Musa.—Near Police Station, Pydhonie.
Harilal Tribhovandas & Bros.—161, Panjrapole Road.
Hasnam Joosab.—291-A, Duncan Road.
Industrial Minerals & Chemical Co.—125, Narayan Dhuru Street, Bombay 3.
Laxmi Mortar Mills.—Portuguese Church Street, Dadar.
Mohantal Jamnadas & Sons.—Opp. Mohan Building, Girgaum.
Nenshi Monji.—123, Mahatma Gandhi Road, Bombay 1.
Pavri, Kavasjee Bhicaji.—10, Transvaal Terrace, Falkland Road.
Stone Supplying Co. Ltd.—494, Duncan Road, Bombay 14.
Talyabi Mortar Mills.—10, Underia Street, Chokey Moholla.
Tansukhlal Ratilal & Co.—15, 2nd Sutar Gali, Null Bazar.
Wagle & Sons.—Opp. Congress House, Girgaum Back Road.
Yusuf Dada Chunawala & Co.—84, Bapu Khote Street, Bombay 3.

SANDALWOOD MERCHANTS

Bharucha, A. K., & Co.—202, Bora Bazar Street, Fort.
Eduji Rustonji Sukhadwala.—266, Thakurdwar, Bombay 2.
Mysore Products, Ltd.—191, Princess Street.
Sorabji Nowroji & Co.—16, Horniman Circle, Fort.
Sukhadwala, Maneckbaba Hormasji.—Opp. Wadia's Fire Temple, 607, Girgaum Road.
Wardens (Mysore) Ltd.—378, Karanjia Building, Grant Road.

SANITARY ENGINEERS

Adamally Sons Ltd.—277, Nagdevi Street, Bombay 3.
Advance Tube Co.—99, Nagdevi Street, Bombay 3.
A. G. Karimji Calcuttawalla.—82/84, Gulalwadi, Kika Street, Bombay 4. Phone: 73636. Grams: "SANITARY."
AQUA SANITATION CO.—56, Mint Road, Fort, Bombay. Phone: 263614.
Badrudin Hasanali & Co.—43, Gulalwadi, Kika Street.
Balsara & Co.—41-45, Meadows Street, Fort.
B. RAMBOAT & CO. PRIVATE LTD.—56, Gowalia Tank Road, Bombay 26. Phone: 41917. Grams: "PILLARTAP."
Bhatbena & Co.—Patel's Bungalow, 187, opp. Grant Road Railway Station (Up).
Bhatbena, B. N., & Co.—100, Nagdevi Street, Bombay 3.
Bhole & Co.—Near Fire Temple, Junction of Queen's Road & Thakurdwar Road.
Burjor Framji & Co.—Marine Mansion, Marine Lines, Off Queen's Road.
CHANDULAL VORA & CO.—(Licensed Plumbers), 61, Kika Street, Gulalwadi, Bombay 4. Phone: 73531.
CHIMANLAL VADILAL & CO.—Sanitary Engineers & Building Contractors, 473, Falkland Road, opp. 2nd Carpenter Lane, Bombay 4. Phone: 42671.
Chunilal Parikh & Co.—478, Duncan Road, Bombay 4.
COOVERJI NORMUSJI & SONS, N.—(Est'd. 1895), 596, Wadia Building, Chira Bazar, Girgaum Road, Bombay 2. Phone: 39919. Specialists in Domestic Hot & Cold Water and Gas installations, Plumbing Works, Drainage Works, Sewage Disposal, Building Repairs, Painting Works and Mosaic Dammering Works.
Dhamankar, W., & Co.—196A, Girgaum Road, Bombay 4.
Esoofally Dawoodbhai.—18, Doctor Street, Dhanwadi Moholla.
Esoofally Adamji & Co.—134, Nagdevi Street.
Fidaali Rajabali.—165, Hill Road, Bandra.

FIDAHUSEIN HASANALI.—(Licensed Plumber), 48, Kika Street, Gulalwadi, Bombay 4. Phone: 72385.

Gagrat & Co.—160, Nagdevi Street.
Gannon, Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.
Godbole Bros.—10L-103, Mugbhat Street, Girgaum.

JAFFERJEE HUSSONALLY & SONS.—(Licensed Plumbers), 66, Nagdevi Street, Bombay 3. Phone: 20459.

Jashwantlal Manecklal & Co.—40, Vir Nariman Street, Fort.
Keshavlal Lalooobhai.—87-89, Parai Gali, Dhanji Street.
Khambati, G. L.—Hararwalla Building, 5, Ardeshr Dady Street, Sandhurst Road, Bombay 4.

M. N. PADIA & CO.—70, Kika Street (Gulalwadi), Bombay 4. Phone: 72383.

MARKER, S. D., & CO. PRIVATE LTD. (ESTD. 1901).—381, Dr. Dadabhai Naoroji Road, Fort, Bombay. Phone: 253236. Grams: "MARKERCOY." Branches at: New Delhi, Chandigarh and Srinagar. Sanitary Engineers & Contractors. Specialists in Domestic Plumbing, Hot & Cold Water supply, Drainage & Sewage disposal.

Mavani, B., & Co.—187, opp. Grant Road Station (East), Bombay 7.
Mino Cawasji Press, L. S. E.—Sanitary Engineer, Hamal Wadi, Dhobi Talao.

Mistry, P. M., & Co.—43, Tamba Kanta, Pydhonie.
Mohomedbhai Esoofally Nulwalla.—78, Bapu Khote Street, Jambl Moholla, Null Bazar, Bombay 3.

Nanalal Ambalal & Co.—69, Nagdevi Street, Bombay 3.
Nanalal Pandya & Co.—302, Angrewada, Kalbadevi Road.
National Engineering Co.—103, Nagdevi Street.
National Sanitary Engineering Co.—68-90, Kika Street, Bombay 4. Phone: 76360.

NEW INDIA SANITATION COMPANY.—Central Bank Building, 3rd Floor, Fort, Bombay. Phone: 284122. Grams: "NISC." Sanitary Engineers, Licensed Plumbers, Contractors and Hot Water Specialists.

Patankar, R. A., & Co.—Madhav Wadi, Naigaum Cross Road, Dadar.
Parikh Brothers.—12, Elphinstone Circle, Bombay 1.
Pawar, B., & Co.—Near Madhav Baug, 102, Ardeshr Dady Street, Press Cowasji Dinshaw.—Hamal Wadi, Dhobi Talao, Bombay 2.

R. MOOLCHAND & CO.—44, Nagdevi Cross Lane, Bombay 3. Direct Importers, Sanitary Wares, Tiles, Bath Tubs, Fancy Bath-Room Fittings. Grams: "POTTERY." Phone: 34207.

Ratilal & Co.—Madhavji Thakarey Building, Picket Cross Road.
Richardson & Cruddas.—Byculla Ironworks, Byculla.

RINA COMPANY.—Betawalla Bldg., 7/10, Horniman Circle, Fort, Bombay 1. Grams: "RINA TILES."

Simpson, D. R., & Co.—33, Gamdevi Road, Grant Road, Bombay 7.
United Tube & Hardware Co.—146, Nagdevi Street, Bombay 3.
Victoria Sanitary Stores.—54, 3rd Bhoiwada, Bhuleshwar, Bombay 2.
Vidya Sanitary Works.—16-24, Lohar Chawli, Bombay 2.
Y. M. Pathare and Company.—P. Box 1428, 41, Meadows Street, Bombay. Phone: 24415.

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Abdulsein Esoofally Contractor.—91-93, Bapu Khote Street, Bombay 3.

ADVANCE TUBE CO.—99, Nagdevi Street, Bombay 3. Phone: 30522. Grams: "ELBOWS".

A. G. KARIMJI CALCUTTAWALLA.—Pipes, Fittings and Sanitarywares, 82/84, Gulalwadi, Kika Street, Bombay 4. Phone: 73636. Grams: "SANITARY."

Armstrong Smith Private Ltd.—Gresham Assurance House, Sir Phirozshah Mehta Road, Bombay 1.

ASGARALI NURUDDIN & CO.—85, Nagdevi Street, Bombay 3. Phone: 22609.

Badrudin Hasanali & Co.—43, Gulalwadi, Kika Street, Bombay 4.

BALSARA & CO. PRIVATE LTD.—43, Meadows Street, Bombay 1. Phone: 252481. Grams: "JALCOORUSCO."

Batilbol, C. J., & Co.—319, Hornby Road, Fort.
Bharucha & Co.—129, Esplanade Mansions, Mahatma Gandhi Road, Bombay.

BOMBAY BUILDING MATERIALS TRADING CO.—73, Meadows Street, Fort, Bombay 1. Phone: 283042. Grams: "BIL-MAT."

Bombay Potteries & Tiles Ltd.—Pipe Road, Kurla, Bombay.
Bombay Sanitaryware Association.—Jerroo Building, 1st Floor, 137, Mahatma Gandhi Road, Bombay 1.
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C. Bhojilal & Co.—Hanuman Building, Behind Reserve Bank, Elphinstone Circle, Fort.

C. Tribhovandas & Co.—11, Green Street, Bombay 1.
Chunilal Parikh & Co.—478, Duncan Road, Bombay 4.
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F. J. Rehman & Co.—5, Bank Street, Bombay 1.
Garlick & Co.—Haines Road, Jacob Circle.
Geo. Service & Co.—Byculla Iron Works, Parel Road, Bombay 8.
Gigabhai, K., & Sons.—8-10, Green Street, Fort, Bombay.
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Hindustan Tube Company.—103, Nagdevi Street, Bombay 3.
India House.—Prop.: Rajabali Gulamali, 85, Nagdevi Street, Bombay 3.

Jashwantlal Manecklal & Co.—40, Vir Nariman Street, Fort.
J. Champaklal & Co.—44, Nagdevi Cross Lane, Bombay 3.

JAYANTILAL GOKALDAS & SONS.—232, Masjid Bunder Road, Bombay 3. Phone: 39895 (Office), 62650 (Res.). Stockists of galvanised Pipes & Fittings, Cast Iron Rainwater & Soil Pipes & Fittings, Cast Iron Spigot & Socket Pipes, Special Fittings, Brass BIB Cocks & Stop Cocks; Sanitary wares and Sanitary Fittings, Gunmetal wheel valves & Gate Valves; Lead Pipes & Lead traps, Stoneware Pipes & Fittings, Cast Iron Manhole Covers & gratings.

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K. Chimanlal & Co.—107-A, Nagdevi Street, Bombay 3.
Maganlal Pranlal & Sons.—105, Nagdevi Street, Bombay 3.
Marker, S. D. & Co., Ltd.—381, Hornby Road, Fort.

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P. S. Parekh & Co.—108, Nagdevi Street, Bombay 3.
Raval & Co.—21, Bank Street, Bombay 1.
Richardson & Cruddas Ltd. Byculla Iron Works, Parel Road, Bombay 8.

R. MOOLCHAND & CO.—44, Nagdevi Cross Lane, Bombay 3. Direct Importers, Sanitarywares, Tiles, Bath Tubs, Fancy Bathroom Fittings. Grams: "POTTERY." Phone: 34207.

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Sahni & Co., K. L.—Central Bank Building, 3rd Floor, Fort.
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Sajan & Co.—18, Custom House Road, Fort, Bombay.
Shah, A. H., & Co., Ltd.—Jan Mansion, Sir Phirozshah Mehta Road, Fort.

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Grand Woodworks & Saw Mills.—Connaught Cross Road, Ghorupdeo.
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Millar's Timber & Trading Co., Ltd.—Victoria House, Victoria Road, Mazagaon.

Sunderdas Saw Mills.—Opp. Reay Road Station, Bombay 10.

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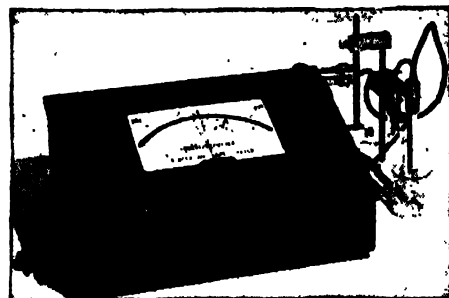
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 Kahlilakumar Das.—94, Swadeshi Market, Kalbadevi Road, Bombay 2.
 Kulin Industries.—12-13, Swadeshi Market, Kalbadevi.
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Ropes, Wire Ropes &
Wire Rope Accessories,
Wire Rope Blocks for
Ship's derrick & Indus-
trial Purposes.
Makers of Cargo Lifting
Gears upto 100 tons.
Safe Working Load.

Approved Stockists of
M/s. Imperial Chemical
Industries (India) P. Ltd.,
for ALFLOC BOILER
WATER TREATMENT &
LISAPOL-N Detergent.

Mashruwala, C. M., & Co.—172-74, Nagdevi Street, Bombay 3.
Mohsinbhai Dawoodbhai.—171-73, Nagdevi Street, Bombay 3.
Molobhoy, & Sons.—281, Nagdevi Street, Bombay 3.
National Hardware & Stores Supply Co.—Post Box 3146, Bombay 3.
Phone: 33162. Grams: "REQUISITES."
New India Hardware Mart.—152, Narayan Dhuru Street, Bombay 3.
Nomanbhoy Abdeally & Co.—96-98, Nagdevi Street.
NOOROODIN SHAIKEDAM & CO.—189, Nagdevi Street,
Bombay 3. Phone: 23894.
Ochhaviyal, R., & Co.—86, Nagdevi Street, Bombay 3.
Reliance Trading Co.—25/47, Lohar Street, Bombay 3.
Sally, T. A., & Brothers (India).—20, Sarang Street, Bombay 3.
SALEBHOY TYEBHOY & CO.—Tyebji Building, 93, Nagdevi
Street, Bombay 3. Phone: 38558. Grams: "DIPCOWORKS."
Shipchandlers, Paints and Hardware Merchants and Naval
Stores Suppliers.
SHALEBHOY TYEBJEE & SONS.—(Estd. 1840), 12, Bruce
St., Fort, Bombay 1. Phone: 282357. Grams: "ROTATOR."
TALIS & CO.—Talib House, 104, Nagdevi Street, Bombay 3.
Phone: 21972. Grams: "TALISCO." Pipes, Fittings &
General Hardware Merchants.
Textile Store & Hardware Mart.—32, Bibijan Lane, Nagdevi Street.
The Standard Trading Co.—Vithal Sayana Building No. 2, Lohar
Street, Bombay 2. Phone: 32274. Grams: "Digvijay."
United Tube & Hardware Co.—146, Nagdevi Street, Bombay 3.
Vasi, Shums & Co., Ltd.—Vasi Building, 165-67, Nagdevi Street.
Vishwa Bharati Trading Co.—14, Kumbha Street, Ballard Estate,
Bombay 1.
Y. M. Pathare and Company.—Post Box 1428, 41, Medows Street,
Bombay 1. Phone: 24415.
Zaveri, C. A., & Co.—44, Abdul Rahman Street.

SHIPPING AGENTS

ABRAHAM, D., & SONS PRIVATE LTD.—Eagles Building,
Sprott Road, Ballard Estate, Fort.
Amar Clearing Agency.—Dabhokar Wadi, 384A, Kalbadevi Road,
Bombay 2. Phone: 28930.
Anchor Line Ltd.—Ballard Estate, Bombay 1.
Currimbhoy Laljee Bajun & Co.—"Brightlands," Lansdowne Road,
Apollo Bunder, Bombay 1.
Chinubhai Kalidass & Bros.—19/21, Hamam St., Fort, Bombay.
DEWAN, L., & SON.—Nanabhai Mansion, Sir Phiroozshah
Mehra Road, Fort. Phones: 261341 and 263469. Cable:
"RAILCUMBER."
Express Transport Private Ltd.—Western India House, Sir P. M.
Road, Bombay 1.
FINLAY JAMES & CO., LTD.—Chartered Bank Building,
Mahatma Gandhi Road, Fort, Bombay 1.
Forbes, Forbes Campbell & Co. Private Ltd.—Forbes Bldg., Home
Street, Bombay 1.
Killick, Nixon & Co. Ltd.—Killick House, Home Street, Bombay 1.
LESLIE, E., & CO.—Motawalla Bldg., 7-10, Hornsman Circle,
Fort. Shipping, Clearing, Forwarding, Passenger and
Insurance Agents. Phone: 253440. Grams: "LITTA."
Lionel Edwards Ltd.—Nicol Road, Ballard Estate, Bombay.
M. Dharamdas & Co.—Mahta House, Calicut Street, Ballard Estate,
Bombay. Phone: 33225. Clearing, Forwarding & Shipping
Agents.
Manilal Patel & Co.—Kamer Building, 38, Cawasji Patel Street,
Bombay.
Marine Transport Co. Private Ltd.—Sprott Road, Ballard Estate,
Bombay.
Narottam & Perera Ltd.—Scindia House, Dougall Road, Ballard
Estate, Bombay.

New Dholera Shipping & Trading Co. Ltd.—Bombay Mutual Build-
ing, 293, Hornby Road, Bombay 1.

SHAMALJI P. SHANGHVI.—Bharucha Bldg., 1st Floor, 174,
Princess Street, Bombay 2. Phone: 23596. Licensed Shipping,
Clearing, Forwarding Agents & Freight Brokers.

SHREERAM SHIPPING SERVICE (PRIVATE) LTD.—Exporters,
Importers, Shipping, Clearing, Forwarding and Steamer
Agents. Grams: "SHREERAM." Phone: 610. Harbour Road,
Visakhapatnam (India). Managing Agents: Rai Bahadur
Shreeram Religious & Charitable Trust, P. O. Tumsar (B.S.).

Turner Morrison & Co. Ltd.—16, Bank Street, Bombay 1.
Volkart Brothers—Graham Road, Ballard Estate, Bombay 1.
Wallem & Co. (India) Ltd.—India House, Fort Street, Fort,
Bombay 1.

SHOE MAKING MACHINERY AND MATERIALS

ELIAS INTERNATIONAL TRADING CO.—Sales Dept., 73,
Bhaji Pata Lane, Bombay 3. Phone: 30907. Grams: "IRON-
PROOF." Largest Importers and Stockists of all kinds of
Hardware, Nails and Shoe Materials namely bifurcated
Rivets, Tingles, Tacks, Hobnails, Protector Studs, Panel
Pins, etc.

E. PEEBHOY & SONS.—Prop.: Indian Durries Emporium,
Shahru Castle, 64, Mohamedali Road, Bombay 3. Phone:
23806. Grams: "INDIAWEAVE".

GOWARDHANLAL SETHI & SONS.—159, Narayan Dhuru
Street, Bombay 3. Phone: 30041 (Ext. 17). Grams:
"MATERIAL." Specialists in Shoe-eyelets, Rivetbuttons,
bifurcated Rivets, Tingles, Tacks, Hobnails, Heel tips,
Sofasprings.

SIGNBOARD PAINTERS

Athavias, N. A. (Estd. 1921).—Lamington Chambers, Lamington
Road, opp. West End Cinema, Bombay 4.

Bright Bros. Private Ltd.—150-A, Tardeo Road, Bombay 7. Grams:
"BRIBOS." Manufacturers of Plastic Signboards, Speculator
of other Advertising Novelties.

Gawade Art Service.—233, Hazargate Street, Fort.
Goonanath, P.—Nana Shankar Sethi's Wadi, Girgaum Road,
Thakurdwar.

Kotkar, M. B., Brothers.—373, Girgaum Road, Thakurdwar.
More, S. & Co.—34-38, Hamam Street, Fort.

Nagool Bros.—104, Mint Road, Fort.
Pioneer Trading Co., The.—Kanti Bhuvan, Parel, Bombay 12.

SILK & ART SILK MILLS AND FACTORIES

A. A. Patel Wvg. Factory.—Bhiwandi (Dist. Thana).
Abdul Samad Haji Lal Muhamed Wvg. Factory.—Bhiwandi (Dist.
Thana).

Adarsh Textile Industries Private Ltd.—Agra Road, Bhiwandi
(Dist. Thana).

Aleli & Co., Private Ltd.—Agra Road, Vikhroli, Bombay 40.

Alliance Silk Mills.—Atlas Mills Compound, Reay Road, Bombay 10.
Allied Silk Mills.—C/o Hassamal Dalamal, New Silk Bazar, P.O.
Box 2236, Bombay 2.

Amar Silk Mills.—New Islam Mills Compound, Currey Road,
Bombay 3.

Amarchand Silk Mills.—6 A, Bruce Street, Sir Vithaldas Chambers,
Fort, Bombay 1.

Amar Jyoti Silk Mills.—Nizampura, Bhiwandi (Dist. Thana).

AMBIKA SILK MILLS CO. LTD., THE.—11-12, Haines Road,
Mahalaxmi, Bombay 13. Mg. Agents: Maganlal Bhag-
wandas & Co., Mills at Haines Road, Mahalaxmi, Bombay
13. Office on Mill premises. Phone: 42852. Grams: "QUA-
LITYFAB". Manufacturers of Rayon and Nylon Piece-
goods.

Amrit Silk Mills, Shroff Wadi, Mount Road, Mazagaon, Bombay 10.
Anil Textile Mills Private Ltd.—22, Lamington Road (North),
Lal Chimney, Bombay 11.

Anis Silk Mills.—Saudagar Moholla, Bhiwandi (Dist. Thana).

Arun Silk Mills.—Umakant Mansion, 2nd Floor, 384, Kalbadev
Road, Bombay 2.

Asha Silk Mills Private Ltd.—Agra Road, Vikhroli, Bombay.

Ashar Silk Mills.—Sonari Road, Vile Parle (East), Bombay 24.

Ashok Silk Mills.—144, Dharavi Road, Slon, Bombay 17.

Asian Rayon Mills.—New Islam Mills Compound, Curry Road,
Bombay 13.

B. M. K. Industries Private Ltd.—Kalina Road, Old Kuria,
Bombay 37.

Bajaj Textile Mills Private Ltd.—39, Champagalli, New Silk Market,
Bombay 2.

Balgopal Silk Mills.—13-D, Dhaku Parbhu Wadi, Gorpudeo, Maza-
gaon, Bombay 10.

Bharat Silk Mills Private Ltd.—Opp. Kurmuri Village, Agra Road, Kurla, Bombay.

Bharat Textiles.—480, Kalbadevi Road, P.O. Box 2320, Bombay 2.

Bhimanath Silk Mills.—64, Chikal (Galli, M. J. Market, Bombay 2.

Bhiwandi Textile Works.—Samad Mills Compound, Kumbharwada, Bhiwandi (Dist. Thana).

Bipin Silk Mills Co., Private Ltd.—12, Dadar Road, Kasturchand Mills Compound, Dadar, Bombay 14.

Bishen Silk Mills.—Agra Road, Bhandup (Central Rly.).

Bombay Silk Mills Ltd.—Industrial Estate, Lalbaug, Bombay 12.

Bombay Textile Mills.—Suryodaya Mills Compound, Tardeo Road, Bombay 7.

Bradbury Mills Ltd.—C/o Messrs. Ramnarayan Sons Ltd., Imperial Bank Bldg., Bank Street, Fort, Bombay 1.

Cadell Wvg. Mills Co., Private Ltd.—400, Cadell Road, Bombay 28.

Calico Industrial Engineers.—Sone Baug, Chakala, Andheri (B.S.D.).

Central Wvg. & Mfg. Co.—Swastik Mills Compound, Ferguson Road, Lower Parel, Bombay 13.

Champaklal & Bros.—Sayee Bhuvan, 143, Princess Street, Bombay 2.

Choltram's Silk Mills.—Gandhi Mansion, New Silk Market, Bombay 2.

Chokshi Silk Mills.—61-63, Shamset Road, 1st Floor, Chhipi Chawl, Zaveri Bazar, Bombay 2.

C. & J. Silk Mills.—Nehru Road, Vile Parle, Bombay. Phone: 26793. Manufacturers of Georgetown and Nicon.

D. V. Industries.—Bhau Saheb Desai Wadi, Bhavani Shankar Road, Dadar, Bombay 28.

Dinesh Silk Industries Private Ltd.—Bombay-Agra Road, Bhandup (C.R.) (Dist. Thana).

Eldee Velvet & Silk Mills, Private Ltd.—Opp. Bawala Mosque, DeLisle Road, Parel, Bombay 13.

Eesardas Silk Mills.—Agra Road, Bhandup (C. Rly.), (Dist. Thana).

Ganga Silk Mills.—C/o Satish Trading Co., Old Hanuman Lane, Parekh Building, 2nd Floor, Bombay 2.

Gautam Silk Mills.—Ishwarbhai Patel's Estate, Goregaon, Bombay.

Harchand Textile Mills Private Ltd.—Agra Road, Vikhroli, Bombay 40.

Hazari Silk Mills.—Kasara-Basin Road, Darukhana Mazagaon, Bombay 10.

Hidayatullah Textile Works.—Samad Mills Compound, Kumbharwada, Bhiwandi, (Dist. Thana).

Hind Silk Mills Private Ltd.—1st Floor, Dahanukar Building, Kalbadevi, Bombay 2.

Indianese Silk Mill Co., The.—Sewri Cross Road, Wadala, Bombay 15.

Ismail Khasshal Wvg. Factory.—Thana Road, Bhiwandi (Dist. Thana).

J. L. Gokani Mills.—Opp. Dak Bungalow, Bhiwandi (Dist. Thana).

Jagdamba Fabrics Wvg. Works.—Perubaug, Goregaon (East), Bombay.

Jagmohan Silk Mills Private Ltd.—9, Silk House, 1st Floor, Hamalwadi, Bombay 2.

Jaljabas Rayon.—Jai Hind Silk Mills, Opp. Hattersley Mills, Agra Road, Ghatkopar.

Jaleem Wvg. Mills.—Village Road, Kurla.

Jasmine Mills Private Ltd.—Mahim, Bombay 16.

Jyoti Silk Mills.—C/o Vanmalidas Zaverchand, 418, Kalbadevi Road, Bombay 2.

Kala Silk Factory.—Ganesh Wadi, Ganesh Building, Bombay 2.

Kamala Mills Ltd.—45-47, Apollo Street, Fort, Bombay 1.

Kapoor Wvg. Works.—Jambulwadi, Kalbadevi Road, Bombay 2.

Kathlawar Textile Mills.—C/o Hasamukh & Co., 58, Chhipi Chawl, Bombay 2.

Khatan Silk Mills Private Ltd.—St. Mary's Road, Mazagaon, Bombay 10.

Khetan Industries Ltd.—Khetan Bhuvan, 198, Jamsedji Tata Road, Churchgate Reclamation, Bombay 1.

Khetani Textile Industries, Private Ltd.—105/107, Bazar Ward, Old Kurla, Bombay.

Kiran Silk Mills Private Ltd.—Kasturchand Mills Compound Dadar, Bombay 14.

Kothari Silk Mills.—Atlas Mill Compound, Reay Road, Bombay 10.

Kum Kum Silk Mills.—60, Chhipi Chawl, Shamset Street, Zaveri Bazar, Bombay 2.

Lahoti Wvg. Mills.—Kalyan Road, Bhiwandi (Dist. Thana).

Lajja Silk Mills.—Khatav Nivas, Jambulwadi, Kalbadevi, Bombay 2.

Liberty Silk Mills Private Ltd.—106/107, Bazar Ward, Kurla.

Lotus Silk Mills.—Kumbharwada, Bhiwandi, (Dist. Thana).

M. K. Gupta Wvg. Mills.—Behind Electric Power House, Bhiwandi (Dist. Thana).

Madan Mohan Dyeing, Printing & Silk Mills.—419 D, Joshi Wadi, Kalbadevi Road, Bombay 2.

Mahajan Silk Mills.—3A, Dadaji Dhakjee Bldg., Dr. Annie Besant Road, Worli, Bombay 18.

Maharaj Silk Mills.—Qasdar House, Dhobi Talao, Bombay 2.

Mahavir Silk Mills.—64, Chhipi Chawl, Opp. M. J. Market, Bombay 2.

Manhar Mills Private Ltd.—Framji Petit Mills Compound, Reay Road, Bombay 10.

Model Silk Mills.—Suryodaya Mills Compound, Tardeo, Bombay 7.

Modern Textile Mills.—Opp. 155, D. D. Chawl, Worli, Bombay 18.

Mohanlal Silk Mills.—Atlas Mills Compound, Reay Road, Bombay 10.

Moon Silk Mills.—Suryodaya Mills Compound, Tardeo, Bombay 7.

Mukund Silk Mills.—Bombay Cotton Mills Compound, Kalachowki Road, Parel, Bombay 12.

Narayan Silk Mills Ltd.—34, Nesbit Road, Mazagaon, Bombay 10.

Narendra Silk Mills.—Atlas Mills Compound, Reay Road, Bombay 10.

NATIONAL ART SILK MILLS PRIVATE LTD., THE.—Old Kasturchand Mills Compound, Dadar, Bombay 28. Phones: 60440 & 61080. Manufacturers of High Class Rayon Fabrics.

National Industrial Works.—Falconji's Chawl, Sussex Road, Bombay 27.

National Rayon Mills.—Mogro, Off Nagardas Road, Andheri (East).

Nehru Silk Mills.—Mathuradas Mills Compound, Lower Parel, Bombay 13.

New Era Fabrics, Private Ltd.—Mogal Lane, Tulsi Pipe Road, Bombay 16.

New Hindustan Silk Mills.—Narayan Nagar, Agra Road, Ghatkopar, Bombay.

New India Rayon Mills Co., Private Ltd.—Mathuradas Mills Compound, Lower Parel, Bombay 13.

New India Textiles.—Block No. 12, Suryodaya Mills Compound, Tardeo, Bombay 7.

New Kaiser-i-Hind Spg. & Wvg. Co., Ltd.—J. K. Building, Dougall Road, Ballard Estate, Bombay 1.

New Mahalaxmi Silk Mills Private Ltd.—Mathuradas Mills Compound, Lower Parel, Bombay 13.

New Oriental Silk Mills Private Ltd.—2nd Floor, New Silk Market, Bombay 2.

New Parbhat Silk Mills.—C/o Messrs. Valliram Sons, New Silk Bazar, Kalbadevi Road, Bombay 2.

New Santosh Silk Mills.—Mahakali Chawl, 2nd Floor, Pydhoni, Bombay 3.

New Shah Silk Mills Private Ltd.—88, Khed Gully, Gokhale Road (South), Dadar, Bombay 28.

New Sun Mills Co., Private Ltd.—Sun Mills Road, Lower Parel, Bombay 13.

New Vinod Silk Mills Private Ltd.—12, Dadar Road, Dadar, Bombay 14.

Nitin Silk Mills.—67, Tambakanta 2nd Floor, Bombay 3.

Novelty Silk Mills.—Ghodbunder Road, Dahisar (W. Rly.), Bombay.

Nutan Silk Mills.—379, Arthur Road, Bombay 11.

Orkay Industries Private Ltd.—(Subhash Silk Mills Dept.), 40, Central Bldg., Bomanji Master Road, Bombay 2.

Panalal Silk Mills Private Ltd.—Atlas Mills Compound, Reay Road, Bombay 10.

Panalal Silk Mills Private Ltd. No. 2.—Bombay Cotton Mills Compound, Kalachowki Road, Parel, Bombay 12.

Paragon Textile Mills.—Opp. Century Mills, Off Globe Mills' Passage, Worli, Bombay 13.

Parekh Silk Mills.—Paranjape Scheme Plot B, Sonari Road, Vile Parle (East), Bombay 24.

Parsharam Karwa Mills.—Hafsan Ali, Bhiwandi (Dist. Thana).

Paru Silk Mills.—73-75, Sutar Chawl, Bombay 2.

Phoenix Mills Ltd.—C/o Ramnarain Sons Ltd., Imperial Bank Building, Bank Street, Fort, Bombay 1.

Pratap Silk Mills.—C/o Lalubhai Pittamber, New Silk Market, Bombay 2.

Raghuvanshi Mills Ltd.—11-12, Jhaines Road, Mahalaxmi, Bombay 13.

Rahath Silk Mills.—Worli, Bombay 13.

Raja Industries Private Ltd.—Parsee Panchayat Road, Andheri (East), (B.S.D.), Bombay.

Rajkamal Silk Mills.—34-42, Nesbit Road, Mazagaon, Bombay 10.

Rajaratna Silk Mills.—20, Navroji Seth Street, Thakurdiwar, Bombay 2.

Ramkrishna Silk Mills.—529, Kalbadevi Road, Bombay 2.

Ramlal Silk Mills.—Plot No. 106, Sion Road, Near Koliwada Rly. Station, Bombay 22.

Ramzan Naboo Wvg. Factory Bengalpura.—Bhiwandi (Dist. Thana).

Raval Textiles.—Nagardas Road, Andheri (East), Bombay.

Ravi Industries Ltd.—68, Chhipi Chawl, 1st Floor, Zaveri Bazar, Bombay 2.

Rayon Textile Mfg. Co.—771, Mogul Lane, Matunga, Bombay 16.

Rayon Wvg. Works.—Block 7-A, Suryodaya Mills' Compound, Tardeo, Bombay 7.

Reham Textile Mills Private Ltd.—61, Government Gate Road, Lower Parel, Bombay 12.

Sadhana Textile Mills Private Ltd.—Off Globe Mills Passage, Worli, Bombay 18.

Samarth Eng. & Wvg. Co., Ltd.—Gandhi Mansion, New Silk Market, Bombay 2.

Samraat Silk Mills.—Agra Road, Vikhroli, P.O. Bhandup, Bombay.

Saraswati Silk Mills.—1-5, Mount Road, Mazagaon, Bombay 10.

Saroj Silk Mills.—Atlas Mills Compound, Reay Road, Bombay 10.

Sarvodaya Silk Mills.—Agra Road, Old Kurla, Bombay.

Sawoon & Alliance Silk Mills, Co., Ltd.—Podar Chambers, Parsee Bazar St., Fort, Bombay.

Saudagar Textile Works.—Saudagar Mohala, Bhiwandi (Dist. Thana).

Saurashtra Silk Mills.—C/o Kantilal Manilal Kamdar, 36, Bhangwadi F Block, 1st Floor, Room No. 17, Kalbadevi, Bombay 2.
 Secunder Sari Mills Bhiwandi.—(Dist. Thana).
 Sekarsi Silk Mills.—C/o Sekarsia Cotton Mills Ltd., Sekarsia Chambers, 139, Medows Street, Fort, Bombay 1.
 Shakuntala Silk Mills Private Ltd.—Bombay Cotton Mills Estate, Kalachowki Road, Lalbaug, Bombay 12.
 Shanghai Mills Private Ltd.—Great Social Bldg., 3rd Floor, Sir P.M. Road, Bombay 1.
 Shanti Rayon Mills.—Tokershi Jivraj Road, Bombay 15.
 Sharada Silk Mills Private Ltd.—Dahanukar Bldg., 2nd Floor, New Silk Market, Bombay 2.
 Shree Ambika Tape Mfg. Co.—2nd Floor, Hanuman Bldg., Tambakanta, Pydhoni, Bombay 3.
 Shree Central Silk Mills.—Premji Bhimji, Sir Vithaldas Gally, M. J. Market, Bombay 2.
 Shree Hanuman Silk Mills.—Near Powai Cross Road, Agra Road, Vikhroli, Bombay.
 Shree Laxmi Silk Mills.—12, Dadar Road, Dadar, Bombay 14.
 Shree Mohan Dyeing, Ptg. & Wvg. Mills.—Gandhi Mansion, New Silk Bazar, Bombay 2.
 Shree Navyug Wvg. & Ptg. Mills.—C/o Popatlal, Mulchand & Co., Dharamraj Galli, M. J. Market, Bombay 2.
 Shree Samrath Textile Industries.—Fergusson Road, Lower Parel, Bombay 13.
 Shree Shakti Mills Ltd.—Podar Chambers, Parsee Bazar Street, Fort, Bombay 1.
 Shree Shakti Mills Ltd. No. 2.—Podar Chambers, Parsee Bazar Street, Fort, Bombay 1.
 Shree Shanti Silk Mills.—Lal Chimney Compound, 32F, Lamington Road (North), Bombay.
 Shree Shanti Textile Mills Private Ltd.—Agra Road, Ghatkopar, Bombay 39.
 Siddharth Silk Mills.—Sunder Baug, Agra Road, Near Kurmuri Road, Kurla, Bombay.
 Simplex Silk Mills.—Agra Road, Kurla.
 Standard Mills Co., Ltd.—29, Churchgate Street, Fort, Bombay 1.
 Suryakant Textile Mills.—Building No. 15, Bhuleshwar, Doka Galli, Bombay 2.
 Swan Textiles.—Bhiwandi (Dist. Thana).
 Tarun Silk Mills.—Yakub Road, Bhiwandi (Dist. Thana).
 United Rayon Mills, Private Ltd.—Near Elphinstone Bridge, Parel Tank Road, Parel, Bombay.
 V. R. Textile Industries.—New Chawl Street, Bhiwandi (Dist. Thana).
 Venus Silk Mills.—Suryodaya Mills Compound, Tardeo, Bombay 7.
 Vijay Silk Mills.—Atlas Mills Compound, Reay Road, Masagaon.
 Vikram Industries.—Bhanu Saleb Desai's Wadi, Bhavani Shankar Road, Dadar, Bombay 28.
 Vinod Silk Mills.—Kasturchand Mills Estate, Tulsi Pipe Road, Dadar.
 Vipul Silk Mills.—Ganesh Godown No. 15, Tank Bunder Road, Reay Road, Bombay 10.
 Vishnu Silk Mills Private Ltd.—49-55, Apollo Street, Fort, Bombay.
 Zaveri Rayon & Silk Mills Ltd.—Darabshaw House, Ballard Road, Bombay 1.

SILK MILL MACHINERY & STORES SUPPLIERS

JAYANT MENTA & CO.—19/21, Mamam Street, Fort, Bombay 1. Phone: 252063. Grams: "ROHIT". Branch at Bazarpath, Bhiwandi, Dist. Thana. Silk Mill Stores and Machinery Specialists. Importers and Manufacturers of Textile Mill Machinery and Stores.

SIZING MATERIALS

Adarsha Trading Corporation.—Ismael Building, 2nd Floor, Room No. 9-H, 381, Hornby Road, Fort, Bombay.
 AMRUTLAL BHURABHAI & CO.—P.O. Box No. 2379, Anand Bhawan, Princess Street, Bombay 2. Phone: 27773. Grams: "CHEMDRUGS." Direct Importers and Dealers of all kinds of Chemicals, Drugs and Sizing materials.
 Apex Traders.—Advani Chambers, Sir Phirozshah Mehta Road, Fort, Bombay.
 Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.
 Associated Agencies (Bombay).—47, Podar Chambers, Parsi Bazar Street, Fort.
 Bhogdial & Co.—7-10, Elphinstone Circle, Botawalla Building, Fort.
 Brady, W. H., & Co., Ltd.—Royal Insurance Building, Churchgate Street, Fort.
 C. Patel & Co.—70, Podar Chambers, Fort.
 Corn Products Co. (India), Ltd.—Shreenivas House, Waudby Road, Fort.
 C. M. VORA & CO.—160, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone: 261609. Grams: "CHEMOMOVORA." Importers & Dealers in Sizing Materials and Dyeing Chemicals.

Dandekar Company.—Bombay Mutual Annexe, 17, Gunbow Street, Fort, Bombay 1.
 Daver, B. F., & Co.—Appa Bang Building, 41, Queen's Road.
 Dhirren & Co.—Lakhani Building, 34, Cawasji Patel Street, Fort.
 Express Trading Corporation.—Fateh Mansil, opp. Opera House, Bombay 4.
 Gannon, Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.
 General Industrial Chemicals.—Beaumont Chambers, 27/33, Medows Street, Fort.
 General Textile Stores Ltd.—Beaumont Chambers, 27/33, Medows Street, Fort.
 Hardcastle, Waud & Co. Private Ltd.—Alice Building, Hornby Road, Fort.
 Herman & Mohatta, B. R., Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort.
 Imperial Chemical Industries (India), Ltd.—Imperial Chemical House, Douglal Road, Ballard Estate.
 Indo-British Chemical Co.—Raja Bahadur Mansion, 11, Tamarind Lane, Fort.
 Industrial Minerals and Chemical Co.—25, Narayan Dhuru Street, Bombay 3.
 Industrial Trading Agency.—Tamarind House, Tamarind Lane, Fort, Bombay. Phone: 31782. (Heakis, Reeds, Wire heakis and Shuttles).
 Javeri Traders.—Lakhmi Building, 34, Cawasji Patel Street, Fort, Bombay.
 Kirtikumar & Co.—80, Bhandari Street, Mandvi, Bombay 3. Phone: 20583. Grams: "LALITKIRTI."
 Kirtikumar Chandulal & Co.—313, Samuel Street, Vadgadi, Bombay.
 Lalitkumar & Co.—86, Kazi Sayed Street, Bombay 3.
 Latham Abercrombie & Co., Private Ltd.—Forbes Building, Home Street, Fort.

MAIZE STARCH PRODUCTS CORPORATION.—32, Apollo Street, Fort. Dealers in Sizing Materials and Industrial Chemicals. Phone: 252715. Grams: "MAESTARCH."

Mehta, J. H., & Co.—106-8, Bazargate Street, Fort.
 Mehta, Sanghvi & Co.—303, Samuel Street, Vadgadi, Bombay 3.
 Nanavati & Co., Ltd.—16, Apollo Street, Fort.

NATIONAL TRADING COMPANY, THE.—Manufacturers, Importers & Distributors of Sizing & Finishing Materials and Allied Auxiliaries. 263, Dr. Dadabhai Naoroji Road, P.O. Box 155, Bombay 1. Phone: 263149. Grams: "BHARAT." Branches: Ahmedabad, Calcutta, Coimbatore and Delhi.

Poonjilal, Jehangir J. M.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort.
 Pravin Brothers & Co.—37, Bora Bazar Street, Bombay 1.
 Premji Haridas & Co.—Bhanushali Chambers, Argyle Road, Bombay 9.
 Rasiklal & Co., Ltd.—60-62, Princess Street, P. B. No. 2228, Bombay.
 Sheth, S. C., & Co., Ltd.—Raja Bahadur Mansion, 14, Hamam Street, Fort.
 Shree Krishna Trading Co., Ltd.—11, Alli Chambers, Tamarind Lane, Fort.
 Sizing Materials Co., Ltd.—Jeroo Building, 137, Mahatma Gandhi Road, Fort.
 Standard Pulverising Co.—Atlas Mills Compound, Reay Road, Bombay 10.
 Waghji Lakhmadas & Co.—206, Samuel Street, Vadgadi.

SOAP FACTORIES

Allwyns Ltd.—92-94, Ardeshtir Dady Street.
 Auxitex.—177-179, Lamington Cross Roads and Calcutta National Bank Buildings, Sir Phirozshah Mehta Road, Fort.
 Baghdad Soap Factory.—43, Foras Road.
BOMBAY SOAP FACTORY.—10, Ripon Road Cross Lane, P. B. No. 4506, Bombay 3. India's Premier Oil Millers, Soap Manufacturers & Perfumers. Phone: 77221 and 77222. Grams: "BOSFA."
 Chemical Engineering Corporation.—22, Apollo Street, Fort.
 Empire Industrial Works.—Warden House, Sir Phirozshah Mehta Road, Fort.
 Kosma Laboratories.—Allahabad Bank Building, Apollo Street, Fort.
 Lachhmandas & Co.—21, Chinch Bunder, Bombay 9.
 Mehta Soap Works.—118-D, Valpakhadli, Masagaon Road, Bombay 9.
 Mira Chemical Works.—Chinchpokli Cross Lane, Parel.
 Patang Brand Soap Factory.—380, Shankarset Bungalow, Girgaum Road.
 Patanwala, Ltd.—182-84, Abdul Rehman Street.
 Pearl Products Co., Ltd.—9, Kurla-Kirol Industrial Area, New Agra Road, Kurla.

RELIEF & SADHNA SOAP SYNDICATE.—Near Nair Hospital, Lamington Road (North), Bombay 8. Phone: 71559. Grams: "RELIEF SOAP." Manufacturers of "SADHNA" Brand High Class Washing Soap, Sadhna Soap grains, etc.
Saraf Oil Mills Co., Ltd.—325, Kalbadevi Road, Bombay 2.
Swantik Oil Mills Ltd.—Saltpan Road, Wadala, Bombay 31.
Scientific Soap Works.—Hargovind Desai's Wadi, Bhuleshwar.
Simplex Chemical Co.—103-C, Chhaktewadi, Tardeo.
Tata Oil Mills Co., Ltd.—Bombay House, Bruce Street, Fort.

SOAP MACHINERY MFRS. AND IMPORTERS

Larsen & Toubro Ltd.—I. C. House, Dougall Road, Ballard Estate, Fort.
MUNSHI & CO., PRIVATE LTD.—181-83, Bapu Khete Street, Bombay 3. Phone: 73886. Grams: "SPECIALDIE."
Parekh Bros., Ltd.—65, Mahatma Gandhi Road, Fort.

SOLDERING & BRAZING EQUIPMENTS

VISHWA BHARATI TRADING CO.—14, Kumbha Street, Ballard Estate, Post Box No. 1052, Bombay 1. Phone: 244555. Grams: "VINECO." Branch: G.P.O. Box 2688, Calcutta 1. Manufacturers of all kinds of Metals, Welding, Brazing & Soldering requirements.

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COMMERCIAL SOLVENTS CORPORATION.—Indian Globe Chambers, 4th Floor, Fort Street, Bombay 1. Phone: 243446. Grams: "SOLVO."

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SIMSON & CO.—Karim Chambers, 42, Mamam St., Bombay 1. Phone: Office—254941; Factory—24314. Grams: "CHEM-PAINT." Manufacturers of Ethyl Acetate Thinners & Industrial Solvents.

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Ama Private Ltd.—Hornby Road, Fort, Bombay.
Chicago Radio & Telephone Co. Ltd.—127, Mahatma Gandhi Road, Fort.
General Radio and Appliances Ltd.—16, New Queen's Road, Bombay 4.
National Education and Information Films Ltd.—National House, Tulloch Road, Apollo Bunder, Bombay. Grams: "Edufilms."
Patel (India) Ltd.—Kitab Mahal, Hornby Road, Fort, Bombay.
Western Agencies' Co.—421, Lamington Road, Bombay 4.

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GATTEE & CO.—Jannabhoomi Chambers, Fort Street, Bombay. Grams: "IMPENG." Phone: 26-3449.

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Bhanushali Brothers Ltd.—Bhanushali Chambers, 168, Argyle Road, Bombay 9.
Bombay Hing Supply Co.—Hanaraj Karamsi Building, 66, Musjid Bunder Road.
Bombay Trading Co.—Dhunj-Nur, Sir Phirozshah Mehta Road, Fort.
Champaklal Morarji & Co.—193, Samuel Street, Vadgadi, Bombay 9.
Damji Marji & Co.—177, Khoja Gulli, Mandvi, Bombay 9.
Dinshaw, V. N., & Co.—84, New Barden Gali, Vadgadi, Bombay 3.
Dubash Freres & Co.—Victoria Building, Parsi Bazar Street, Fort.
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Ebrahim Manji & Co.—49, Pydhownie Road, Khadak, Bombay 9.
Gandhi Sons Ltd.—232, Samuel Street, Vadgadi, Bombay 3.
Gopaljee & Co.—218, Samuel Street, Vadgadi.
Gorakham Gokulchand (Estd. 1891).—Choksi Chambers, Zaveri Bazar, Bombay 2.
Govindji Padamshi.—317, Narsi Natha Street, Kharek Bazar, Mandvi, Bombay 9.
Govindji Ratanji.—84, Mirchi Street, Vadgadi.
Gulabchand Nathalal & Co.—45, Mirchi Lane, Bombay 3.
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Hemani Bros.—Wassiamull Building, Grant Road.
Husein Mulla Virjee & Co.—Sheriff Hasam Building, Khoja Mohalla, Bombay 9.

Jehangir C. Masalawalla.—C. P. Tank Bus Stand, Vithalbhai Patel Road.

Jehangir J. M. Poonjiajee.—Byramjee Mansion, Sir Phirozshah Mehta Road, Fort.

Kanji Morarji.—285-87, Narsi Natha Street, Bombay 9.
Kikabhai Gulamhusen.—210, Samuel Street, Vadgadi, Mandvi.
Lakhmichand Vasanji & Co.—239, Samuel Street, Vadgadi.
Laljee Godhu & Co.—213, Samuel Street, Vadgadi.

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M. Dikdas & Sons.—190, Princess Street.

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Narotandas Harivalabhdas.—80, Khand Bazar, Mandvi.

New India Hing Supplying Co.—215-217, Samuel Street.

Pavri, J. K.—10, Karim Chambers, Hamam Street, Fort.

Premji Haridas & Co.—Bhanushali Building, 168, Argyle Road, Bombay 9.

Ram Agency.—200, Kasi Sayad Street, Bombay 9.

Ratanishi Assaria & Co.—240-42, Narsi Natha Street, Katha Bazar, Bombay 9.

Shah & Co.—108, New Citizen Bank House, Falton Road, Bombay 1.

Somnath Motiram.—306, Kharek Bazar, Bombay 9.

Sudan Trading Co.—Dhunj-Nur, Sir Phirozshah Mehta Road, Fort.

VALLENDAS TEJPAL.—219, Vadgadi, Bombay 3. Phone: 23478. Grams: "BATTLEMENT."

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Vasantlal Vadilal & Co.—215-17, Samuel Street, Vadgadi, Bombay 3.

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Waghji Lakhmidas & Co.—206, Samuel Street, Vadgadi.

Y. K. Sampat & Co.—352-54, Katha Bazar, Bombay 9.

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ALFA SPORTS.—Metro House, Dhobi Talao, Bombay 1. Phone: 242549. Grams: "ALFASPORTS." Specialists in Sports and Games, Presentation Articles, Swimwear and Athletics.

Artytoys.—Sir Ratan Tata Road, Tardeo, Bombay 7.

Austin Sports Co.—Byculla Bridge, Bombay.

BOMBAY SPORTS.—Dhobi Talao, Bombay 2. Phone: 39845. Dealers in Sport and Educational Toys. Stockists of Elastic Knee Caps, Anklets, Abdominal Belts & Stockings.

Bombay Sports Depot.—Jer Mahal Estate, Dhobi Talao.

D. D. SHARMA & CO.—Dhobi Talao Junction, Fort, Bombay 1. Grams: "INDOORGAME." Phone: 241623. Manufacturers, Importers and Exporters of High Class Sporting Goods. Bankers: Bank of Mysore Ltd., Sole Distributors for "Test" Cricket Balls, Sharma's "TOURNAMENT" Shuttlecocks and "Sunder" Ping Pong Bats and Tables. By appointment to General K. M. Cariappa, ex-C-in-C. (India) Army. Sole Prop.: D. N. Mehta, Major T.E.

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J. L. Morrison Son & Jones (India) Ltd.—Ballard Estate, Bombay 1.
Jhaveri Bros. & Co. (Estd. 1914).—345, Abdul Rehman Street, near Crawford Market.

Jhaveri Sports & Gifts.—Jer Mahal, Dhobi Talao, Bombay 2.

Kapur, A. N., & Co.—Court House, Dhobi Talao, Bombay 2.

Mahomedally Noorbhoy.—244-246, Abdul Rehman Street.

Marine Sports.—101, 1st Marine Street, Bombay 2.

Nadkarni & Co.—Ava Chambers, next to Metro Cinema, Dhobi Talao.

PIONEER SPORTS (INDIA) PRIVATE LTD.—Dhobi Talao, Bombay 2. Phone: 39257. Grams: "SPORTSMAN." Manufacturers, Exporters and Dealers in all Sports goods. Factories at Jullundur. Branches at New Delhi, Calcutta, Madras & Secunderabad and Hyderabad.

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Oriental Collectors' Club.—42, Churchgate Street, Fort.

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Javeri Traders.—P.O. Box No. 1977, Lakshmi Building, 34, Cawasji Patel Street, Fort, Bombay.
 Lalitkumar & Co.—86, Kazi Sayed Street, Bombay 3.
 Maize Starch Products Corporation.—20, Apollo Street, Bombay 1.
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Masda Printers.—Next to Bharat Tiles Ltd., 32, Apollo Street, Fort. **Masumdar & Co.**—Opp. Kriahna Cinema, Tribhuvan Road, Bombay 4. **Minerwa Stationery Mart.**—32, Apollo Street, opp. Allahabad Bank, Fort.

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MODERN STATIONERY & PRINTING WORKS (ESTD. 1941).—Sole Proprietor: Nazeerhussein Kaderbhai, Bombay Mutual Annexe, 1st Floor, 17, Gunbow Street, Fort. Phone: 261986.

Mohamedali Abdulhussein.—83, Mirza Street, Bombay 3.

NATIONAL STATIONERY STORES.—Stationers, Printers and Government Contractors, Podar Chambers, 12/A, Store Lane, Fort, Bombay. Godown: 23, Parsee Bazar Street, Fort. Phone: 253416. Grams: "SERVITRUE."

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ROWLANDSON BROS. (Estd. 1927).—Parsee Bazar Street, Fort, Bombay 1. Stationers, Printers, Paper Merchants, Dealers in Drawing Materials and Surveying Instruments. Account Book Manufacturers, Engravers, Relief Stampers. Rubber Stamp makers, State and Railway Contractors and General Order Suppliers. Phone: 251107 (Office), 264661 (Res.). Grams: "TELLTRUE."

S. M. SONI & BROTHERS (Regd.).—84, Abdul Rehman Street, Bombay 3. Phone: 27633. Grams: "DURALONPEN." Wholesale Stationers, Paper Merchants, Direct Importers, Government Contractors, Commercial Printers, Office Requisites, Typewriter and Duplicator Accessories, Drawing, Surveying and Engineering Materials Suppliers; Mfrs. of Writing Pads, Files, Envelopes, Punching Machines, Account Books, Rubber Stamp, etc. of all sorts.

Salebhoj, E. & Co.—19, Mangaldas Road, Princess Street.

Sanghani & Co.—178-80, Abdul Rehman Street.

Sayer & Sanghavi.—Kalam Kutir, 211-19, Frere Road, Fort, Bombay. **Shreeman & Co.**—Podar Chambers, 109, Parsi Bazar Street, Fort.

SIGMAN & CO.—Himalaya House, Palton Road, Bombay 1. Grams: "GOLDNIB." Phone: 26-2792. Sole Distributors for 'X Keys' Pins & Clips. Stockists of Winsor & Newton's Artists Brushes.

Social Stationery Mart.—Victoria Building, Parsee Bazar Street, Fort.

Surabji Nowroji & Co.—Horniman Circle, Fort.

Standard Stationery Mart.—Rahimtoola House, Hornji Street, Fort. **Stela Equipments.**—327, Nawab Building, Hornby Road, Fort.

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Swastik Traders.—282, Pannalal Terraces, Lamington Road, Grant Road.

Taher T. Thingna.—73, Nagdevi Street, Bombay 3.

Taraporevala, D. B., Sons & Co.—210, Hornby Road, Fort.

Taraporevala, Phiroze & Kaikhushru, F. D. B.—Kitab Mahal, 188-190, Hornby Road, Fort.

Thacker & Co., Ltd.—Rampart Row, Fort.

"TIMES OF INDIA."—Hornby Road, Fort.

Trading Co., L. K.—Navsari Chambers, opp. Lloyds Bank, Fort.

Union Printing Works.—Jan Mansion, Sir Phirozshah Mehta Road, Fort.

United Commercial Co.—48, Mangaldas Building, 1, Princess Street.

Universal Stationery Mart.—Podar Chambers, Parsi Bazar Street, Fort.

Universal Stationery Mart.—Graham Building, 109, Parsi Bazar Street, Fort.

Universal Trading Corporation, The.—Usuf Building, Mahatma Gandhi Road, Fort.

Venus Stationery Co.—Haasan Chambers, Fort.

V. Prabha & Co.—476, Sandhurst Road, Bombay 4.

Young India Stationery Mart.—43, Ghoga Street, Fort.

STEAM TRAPS AND VALVES

BOMBAY METAL & ALLOYS MFG. CO. PRIVATE LTD.—Manufacturers of "G. G." Brand Steam, Gate and Wheel Valves. Off Magazine Street, P.O. Box 6210, Bombay 10. Phones: 76104, 76105 and 76106. Grams: "BOMALLOY." (Crescent Trading Co.—48, Bhajipala Lane, Bombay 3.

JIVRAJ & VRAJLAL.—122, Nagdevi Street, Bombay 3. Phone: 30138. Grams: "SANPIPES."

KILBURN & CO. PRIVATE LTD.—Gresham Assurance House, Phirozshah Mehta Road, Fort, Bombay 1. Phone: 251908. Grams: "TASCONIUM."

MEHTA NANAVATI & CO.—96, Narayan Dhuru Street, Bombay 3. Phone: 39548. Grams: "REDJOINT."

MODY BROTHERS & CO.—25, Nagdevi Cross Lane, Bombay 3. Phone: 30658. Grams: "MODIBROSCO."

STEAMSHIP COMPANIES

Ambica Steam Navigation Co. Ltd.—Prospect Chambers, Dr. Dadabhai Naorji Road, Fort, Bombay 1.

Anchor Line Ltd.—Wakefield House, Sprott Road, Ballard Estate.

Bharat Line Ltd.—Bharat House, Apollo Street, Fort, Bombay 1.

Bombay Steam Navigation Co. (1953) Private Ltd.—100, Frere Road, Bombay.

Gill Amin & Co. Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.
 Great Eastern Shipping Co. Ltd.—Royal Insurance Buildings, 14, Jamshedji Tata Road, Churchgate Reclamation, Bombay 1.
 Kamal Shipping Co. (Private) Ltd.—Scindia House, Ballard Estate, Bombay.
 Killick, Nixon & Co. Private Ltd.—Killick House, Home Street, Fort, Mackinnon Mackenzie & Co.—Ballard Road, Ballard Estate.
 Malabar Steamship Co. Ltd.—Bombay Mutual Building, Dr. Dadabhai Naoroji Road, Fort, Bombay 1.
 Merchant Steam Navigation Co. (Private) Ltd.—Gaumikh Bhuvan, Masjid Bridge, Bombay 9.
 National Steamship Co. Ltd.—Bombay Mutual Building, Dr. Dadabhai Naoroji Road, Fort, Bombay 1.
 New Dholera Steamships Ltd.—Bombay Mutual Building, Dr. Dadabhai Naoroji Road, Fort, Bombay 1.
 Scindia Steam Navigation Co. Ltd.—Scindia House, Ballard Estate, Bombay 1.

SOUTH EAST ASIA SHIPPING CO. (PRIVATE) LTD.—Himalaya House, Dadabhai Naoroji Road, Fort, Bombay 1. Phone: 262682-3. Grams: "SOEASIA." Ship Owners, Regular Cargo Service—Indian Coast.

VICTORY NAVIGATION CO. LTD.—Pharmed House, 141, Fort Street, Post Box No. 875, Fort, Bombay 1. Phones: 264566, 264516. Grams: "VICTORLINE."

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Alnalex Ltd.—9, Wallace Street, Bombay 1.

ASSOCIATED STEEL & TOOL CORPORATION, THE.—3, Central Bank Bldg., 4th Floor, Flora Fountain, Fort, Bombay 1. Phone No. 251953. Suppliers of High Speed Steel, Hot Die Steel, High Carbon and High Chrome Steel, Oil Hardening and Non-Shrinking Steel, Carbon Tool Steel, Nickel Chrome Steel, Stainless Steel Rods and Sheets, Bright Drawn Bars, Round, Square, Flat, Hexagon and Octagon.
 F. Lock & Co., Ltd.—Shale Building, Bank Street, Bombay 1.
 Guest, Keen, Williams Ltd.—Ballard Estate, Bombay 1.

MODY BROTHERS & CO.—25, Nagdevi Cross Lane, Bombay 3. Phone: 30958. Grams: "MODIBROSCO."
 Richardson & Cruddas Ltd.—Byculla, Bombay 8.

STAHLUNION COMPANY LIMITED, THE.—India House, 4th Floor, Fort Street, Bombay 1. Telegraphic Address: "MARCASTEEL." Bombay. Steel Materials and Engineering Products of all kinds. Branch Office: Calcutta.

United Steel Co. (India) Private Ltd.—Himalaya House, Palton Road, Bombay 1.

STEEL CASTINGS MACHINE

GAYTEE & CO.—Jannabhooni Chambers, Fort Street, Fort, Bombay. Grams: "IMPENG." Phone: 26-3449.

STEEL FILES

Desai Brothers.—80/90, Omrigar Bldg., Lohar Chawl, Bombay 2.

KIRTILAL NANALAL & CO.—54, Bibijan Street (Bharbhai Mohalla), Bombay 3. Phone: 27587. Grams: "CHAIN-BLOCK."

MODY BROTHERS & CO.—25, Nagdevi Cross Lane, Bombay 3. Phone: 30958. Grams: "MODIBROSCO."

NAVINCHANDRA KRUSCHAND & CO.—Industrial House, 51/53, Nagdevi Cross Lane, Bombay 3. Phone: Res. 241755. Files & Hardware Merchants. Authorised Sub-Dealer for JK "Sunflower" Brand Steel Files.

PREMIER MACHINE TOOLS CO.—41, Bibijan Street, Nagdevi Bombay 3. Direct Importers & Stockists of Steel Files.

REPUTE ENGINEERING CO.—165, Narayan Dhuru Street, Bombay 3. Phone: 26140. Grams: "REPUTENGCO." Files & Hardware Merchants. Authorised Dealers: John Baker & Sons (India) Files.

SEAH & BROTHERS.—234, Nagdevi Street, Bombay 3. Phone: 38797. Grams: "STEELGRIPS." Authorised Distributors for JK Sunflower brand files.

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BOMBAY SAFE MANUFACTURING CO.—307-9, Kalbadevi Road, Bombay 2. Phones: 22367 (Office & Showroom), 71589 (Factory). Manufacturers and Dealers of Steel Furniture, Hospital Equipment, etc.

E. PEERBHAY & SONS.—Prop. Indian Durrles Emporium. 64, Shabru Castle, Mohamedali Road, Bombay 3. Phone: 23806. Grams: "INDIAWEAVE."

HINDUSTAN FABRICS & STORES PRIVATE LTD.—Fulchand Nivas, Chowpatty Sea Face, Bombay 7. Grams: "SWAKALA." Phone: 27108.

KANTILAL & CO.—Jalkwala, 38-40, Abdul Rahman Street, Bombay 3. Phone: 23944. Grams: "GRILLGATE." Manufacturers of Collapsible Doors, Rolling Shutters, Compound Gates, Railings, Grills, Steel Cots & Hospital Furniture.

KHIRA STEEL WORKS PRIVATE LTD.—H.O. & Factory: Ghodbunder Road, Santa Cruz, Bombay 23. Grams: "STEELCASE." Phones: 89002 & 89569. Regd. Office: Khira Bhavan, Sandhurst Bridge, Bombay 7. Grams: "SWAKALA." Phone: 27636. Show-room: Fulchand Nivas, Chowpatty Sea Face, Bombay 7. Grams: "SWAKALA." Phone: 27108.

National Steel Equipment Co.—Naigaum Road, Dadar, Bombay 14.
 Roneo Limited.—39, Bastion Road, Bombay.
 Steelmade.—Dr. Annie Besant Road, Worli, Bombay 18.

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BOMBAY TUBES & POLES CO.—Manufacturers of Electric Tubular Poles (on Government & Municipal List). Darukhana, Masagan, Bombay 10. Phone: 40300. Grams: "TUBESPOLES."

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Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate Bombay.

METALS PRIVATE LTD.—289, Dr. Dadabhai Naoroji Road, Bombay 1. Grams: "TRUMETAL."

Richardson & Cruddas Ltd.—Byculla Iron Works, Parel Road, Bombay 8.

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CASSINATH M. B. EDULJEE SONS.—17, Bastion Road, Fort. Phone: 261657.

Chokshi, H., & Co.—106, Meadows Street, Fort.
 Cawasji Behramji & Co.—City Ice Building, 298, Basargate Street, Fort, Bombay.

Cowanjee Eduljee's Sons.—Elphinstone Circle, Fort.
 Darashaw B. Cursetjee's Sons.—Darashaw House, Ballard Road.
 Eastern Bunkers, Ltd.—Scindia House, Dougall Road, Ballard Estate.

Eastern Bunkers (Burma) Ltd.—Scindia House, Dougall Road, Ballard Estate.

Ferns Ships Supply Company.—Post Box No. 1508, Wakefield House, Ballard Estate, Bombay 1.

Hill, Son & Dinshaw Ltd.—Marshall's Bldg., Ballard Road, Bombay 1.
 Kanji Jadhavji & Co.—Masjid Bridge, Mandvi.

Maneckji & Jamshedji Company.—Ahmed Building, Gunpowder Road, Masagan Tram Terminus, Bombay 10.

New Dholera Shipping & Trading Co. Ltd.—293, Dr. Dadabhai Naoroji Road, Bombay 1.

NAROTTAM & PEREIRA PRIVATE LTD.—Scindia House, Dougall Road, Ballard Estate. Phone: 26-2461. Grams: "JALATHARO."

Patel, D. C., & Co.—268, Bazar Gate Street, Fort.
 Purnhotamdas Madhavani & Co. Ltd.—Regd. Office: Botawalla Building, 8, Horniman Circle, P.O. Box No. 274, Bombay.
 Ruttonjee Bomanjee & Co.—60, Forbes Street.

S. Dalal & Co.—1/5, Thacomal House, Banaji Street, Fort, Bombay.
 Shalebhoy Tyebjee & Sons.—12, Bruce Street, Bombay 1.
 Sharp, R., & Sons.—Kaiser-Hind Building, Ballard Estate.
 Shrivax O. Cambata & Co. Private Ltd.—Cambata Building, 101, Queen's Road, Back Bay Reclamation.
 Sorabji Pestonji & Co.—106, Apollo Street, Fort.
 Tookaram Hariba & Sons, R. H.—Sadguru Sadan, 15, Babulnath Road, Bombay 7.

STRAW-BOARDS

Abdullahbai Fidally & Co.—24, Sutar Chawl, Bombay 2.
 Advani, J. B., & Co. Ltd.—Advani Chambers, Sir Phirozshah Mehta Road, Fort.
 Ambalal Dharamchand & Co.—1, Esaji Street, Vadgadi, Bombay 3.
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 B. N. Trivedi & Co.—13, Hamam Street, Fort.
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 India Paper Corporation.—64, Sutar Chawl, Bombay 2.
 International Paper Co.—26, People's Bldg., Sir Phirozshah Mehta Road, Fort.

Javeri Traders.—P.O. Box No. 1977, 34, Cawasji Patel Street, Fort.
 Jayantilal J. Gandhi & Co.—45, Mint Road, near G. P. O., Fort.

Kanthawala, N., & Co.—77, Meadows Street, Fort.
 Kikabhoy Chandabhoy.—33-35, Mangaldas Road, Bombay 2.
 Mansukhlal Sukhlal & Co.—Ghoga Street, Fort.

Mahomedally Hebatbhoy & Co.—15, Mirza Street, Bombay 3.

Mohanlal & Co.—56, Sutar Chawl, Bombay 2.

Pardiwala Paper Mart.—32/A, Parsi Bazar Street, Fort, Bombay.

Patel, B. K., & Co.—106, Meadows Street, Fort.

Prabhat Trading Company.—Vithal Sayana Building No. 2, Lohar Chawl, Bombay 2.

Shantilal Shah & Co.—Bombay Mutual Annexe, 17, Gunbow Street, Fort.

Siddho Mal & Sons.—49, Sutar Chawl, Bombay 2. Phone: 39477.

Sivramakrishnan, M.—Hazi Manzil, 82-86, Abdul Rehman Street, Bombay 3.

United Import Co., The.—87-89, Mahomedalli Road.

Universal Trading Corporation, The.—43, Mahatma Gandhi Road, Fort.

Yeshanand & Co.—Grahams Building, Parsi Bazar Street, Fort.

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- Abdul Shakur Umar.—Sahigara & Co.—Haji Habib Bldg., Koliwada, Bombay 3.
- Amratlal Mohanlal & Co.—104-114, Frere Road, Bombay 9.
- Arvindkumar Satischandra, C/o Jayantilal Jagjivandas & Co.—104-114, Frere Road, Bombay 9.
- Arunkumar Khimji & Co.—311, Kharek Bazar, Bombay 9.
- African Trading Co. Ltd. The.—81, Kazi Saiyed Street, Bombay 3.
- Asiatic Electric Trading Co.—46-48, Lohar Chawl, Bombay 2.
- Bhajanlal Lachmandas Menda.—104-114, Frere Road, Bombay 9.
- Bharti Trading Co.—90-92, Kazi Syed Street, Bombay 3.
- Bhupatral Kalidas & Co.—195, Samuel Street, Bombay 9.
- Bharat Soft Sugar Co.—120, Kazi Saiyed Street, Bombay 3.
- Bhairamal Prahladrai.—226, Kalbadevi Road, Bombay 2.
- Bhivraj Devichand.—331, Kalbadevi Road, 3rd Floor, Bombay 2.
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- Chhannal Vadilal.—44, Vithalbhai Patel Road, Bombay 4.
- Chandulal Kanjibhai.—86, Dondat Street, Masjid Bunder Road, Bombay 3.
- Chandulal Mohanlal.—Ram Bldg., 2nd Floor, Bhuleshwar, Kumbhar Wada, Bombay 4.
- Chandulal Kantilal.—722, Cotton Exchange Bldg., Kalbadevi, Bombay 2.
- Chandulal Rameshwardas.—Mani Mahal, 4th Floor, 353, Kalbadevi Road, Bombay 2.
- Chhmanlal Punjalal.—29, 3rd Bholwada, Bhuleshwar, Bombay 2.
- Chinubhai Ambalal & Co.—104-114, Frere Road, Bombay 9.
- Chunilal Bhagwandas & Co.—28, Mudi Bazar, Mandvi, Bombay 3.
- Deoji Gokaldas & Co.—Gaya Bldg., Masjid Bunder Road, Bombay 3.
- Dhirajlal Anratlal.—104-114, Frere Road, Bombay 9.
- Dhirajlal Manilal.—104-114, Frere Road, Bombay 9.
- Dinesh Amratlal.—Anand Mahal, Babulnath Road, Bombay 7.
- E. H. Kathawala & Co.—262-270, Bhat Bazar, Bombay 9.
- Girlashanker Revashanker & Co.—104-114, Frere Road, Bombay 9.
- Gokachand Shetty.—54, Brahmanwada Road, Matunga (G.I.P.), Bombay 19.
- Gopalbhai Motiram.—326, Swadeshi Market, 1st Floor, Bombay 2.
- Gordhandas Kirchand & Co.—194, Zaveri Bazar, Bombay 2.
- Gordhandas Ranchhodas.—Shakti Nivas, 287-289, Samuel Street, Bombay 9.
- Gulabray Nathooobhai, C/o Manordas Himatlal.—104-114, Frere Road, Bombay 9.
- Haji Adamji Sons.—91, Mohamedalli Road, Rangoonwalla Bldg. 2nd Floor, Bombay 3.
- Haji Esmail Nurmahomed Co.—Dada Mansil, 3rd Floor, 67-69, Mohamedalli Road, Bombay 3.
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- Haji Siddik Haji Karim Jiya.—104-114, Frere Road, Bombay 9.
- Hansraj Hariram & Co.—Fazalbhoy Bldg., Opp. Flora Fountain, Mahatma Gandhi Road, Bombay 1.
- Haridas Vihram & Co.—91, Kazi Saiyed Street, Bombay 3.
- Harilal Manmohandas Parekh.—104-114, Frere Road, Bombay 9.
- Hariram Velji & Co.—65-67, Damar Galli, Bombay 9.
- Hemchand Mohanlal & Co.—Javeri, 20, Dhanji Street, Bombay 3.
- Himatlal Dhirajlal & Co.—Laxmi Bldg., 1st Floor, 43, Nagdevi Cross Lane, Bombay 3.
- Himatlal Parshotamdas Parekh.—104-114, Frere Road, Bombay 9.
- Hindustan Sugar Mills, Ltd.—Jehangir Wadia Building, 51, Mahatma Gandhi Road, Fort.
- Hirji Keshavlji Kesarwala.—303, Kharek Bazar, Mandvi, Bombay 9.
- Hollaram Bikhchand & Sons.—387-89, Narsi Natha Street, Katha Bazar, Bombay 9.
- Hussanbhai Jeewanjee.—Currinjee Bldg., Koliwada, Bombay 3.
- Indian Sugar Depot.—Shop No. 4, Mapla Masjid, Khand Bazar, Bombay 3.
- Jagdeoshanker Sharma.—Hamat Building, New Parbhadevi Road.
- Jainnadas Juthabhai & Co.—217, Samuel Street, Bombay 3.
- Jayantilal Jagjivandas & Co.—104-114, Frere Road, Bombay 9.
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- Jethabhai Bhanji & Co.—5, Garibdas Street, Vadgadi, Bombay 3.
- Jethabhai Gopalji & Co.—361, Duncan Road, Bombay 4.
- Jhamandas Thakurdas.—104-114, Frere Road, Bombay 9.
- Jitendrakumar & Co.—232, Vadgadi, Bombay 3.
- Jivanlal Lalubhai.—805, Cotton Exchange Bldg., Kalbadevi Road, Bombay 2.
- Kalidas Harjivan.—195, Khoja Galli, Bombay 9.
- Kanji Velji.—74-76, Kazi Saiyed Street, Bombay 3.
- Kantilal Dahyabhai.—104-114, Frere Road, Bombay 9.
- Kantilal Chhaganlal Zaveri.—Gay Bldg., R. No. 52, 4th Floor, Masjid Bunder Road, Bombay 3.
- Kantilal Maganlal Jhaveri.—192, Zaveri Bazar, Bombay 2.
- Kantilal Vishnudas.—63-65, Cathedral Street, Bombay 2.
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- Keshavlji Dhanji & Co.—Bhalail Bhuvan, 1st Floor, 118, New Chinch Bunder Road, Bombay 9.
- Kesar Sugar Works Ltd., The.—104-114, Frere Road, Bombay 9.
- Kikabhai Gulamhusen.—210, Samuel Street, Vadgadi.
- Kilachand Devchand & Co., Ltd.—45-47, Apollo Street, Fort.
- Kolhapur Sugar Mills Ltd., The.—The United Agencies Ltd. Agents, Imperial Bank Bldg. Annexe, Apollo Street, Bombay 1.
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- Louis Dreyfus & Co.—Nicol Road, Ballard Estate.
- Madhavji Harjibhai & Co.—Station Road, Kalyan.
- Madhukar & Co.—311, Narsi Natha Street, Bombay 9.
- Maganlal Bhagwandas & Co.—104-114, Frere Road, Bombay 9.
- Mahadev Rameshwarlal.—12-14, Parsi Galli, Dhanji Street, Bombay 3.
- Mahendrakumar Sevantilal & Co.—378-80, Narsi Natha Street, Katha Bazar, Bombay 9.
- Mahipatral Jadavji & Co.—79, Masjid Bunder Road, Bombay 3.
- Manharlal Mohanlal Suratwala.—Patel Bldg., 20, Dady Seth Agiari Lane, P.O. Box No. 2482, Bombay 2.
- Manordas Himatlal.—104-114, Frere Road, Bombay 9.
- Manordas Parshotamdas Parekh.—104-114, Frere Road, Bombay 9.
- Manoharal Shersinghdas.—Jai Hind Estate No. 2, Bhuleshwar, Bombay 2.
- Mansukhlal Hathising & Co.—31, Abdul Raheman Street, Bombay 3.
- Motipur Sugar Factory Ltd., The.—164-166, Kambekar Street, Bombay 3.
- Mohanlal Chhaganlal.—Suraj Bhuvan, 2nd Floor, 30, 2nd Bholwada, Bombay 2.
- Mulji Ratanahi & Co.—334, Narsi Natha Street, Bombay 9.
- Nagindas Harjivandas Shah, C/o Harjivandas Dipchand.—Dana Pith, Bhavnagar (Saurashtra).
- Nanjil Shamji & Co.—Ganpat Napu Bldg., 116, New Chinch Bunder Road, Bombay 9.
- Nathalal Bahechardas & Co.—809, Cotton Exchange Bldg., 8th Floor, R. No. 809, Bombay 2.
- National Confectionery Mfg. Co.—263, Samuel Street, Bombay 3.
- Natvarlal Mohanlal & Co.—318, Kharek Bazar, Bombay 9.
- Navnitral Harivallabhdas, C/o Manordas Himatlal.—104-114, Frere Road, Bombay 9.
- Navinchandra Nagardas & Co.—67, Essaji Street, Bombay 3.
- Navinchandra Tulidas, C/o Narottamdas Harivallabhdas.—80, Kazi Saiyed Street, Bombay 3.
- Paira Singh Balkishen.—79, Kazi Saiyed Street, Bombay 3.
- Parekh & Co.—York Building, Hornby Road, Fort.
- Parikh Vrajlal Narandas.—80-84, Moti Bhuvan, Cathedral Street, Bhuleshwar, Bombay 2.
- Pararam Parumal & Co.—Talreja, 104-114, Frere Road, Bombay 9.
- Parsram Ramchand.—Nafees Chambers Annexe, Carnac Road, Bombay 1.
- Patel Bros.—531, Cheera Bazar.
- Patel Sons & Co.—93-97, Bazar Gate Street, Fort.
- Popatlal Dalpatlal & Co.—28, Mudi Bazar, Mandvi, Bombay 3.
- Prabodhan Bhujangilal & Co.—94, Kazi Saiyed Street, Bombay 3.
- Punamchand Motilal.—104-114, Frere Road, Bombay 9.
- Ranchhodas Meghji.—288, Bhat Bazar, Bombay 9.
- R. B. Jessaram Fatechand.—104-114, Frere Road, Bombay 9.
- R. Shantilal.—15, Navi Wadi, 4th Floor, Dady Seth Agiari Lane, Bombay 2.
- Rameshchandra Prabhudas & Co.—104-114, Frere Road, Bombay 9.
- Rampopal Nandikishore.—Bhuleshwar, Jai Hind Bldg. No. 1, Bombay 2.
- Ramniklal Vadilal & Co.—9, Chinch Bunder Road, 1st Floor, Bombay 9.
- Rasiklal Himatlal.—104-114, Frere Road, Bombay 9.
- Ratanahli Assaria & Co.—99-103, Kazi Saiyed Street, Bombay 3.
- Ratanji Virpal & Co.—104-114, Frere Road, Bombay 9.
- Ratilal Bhavan & Co.—136, Kazi Saiyed Street, Bombay 3.
- Ratilal Madanji.—104-114, Frere Road, Bombay 9.
- Rugnath Tricundas.—324, Kharek Bazar, Bombay 9.
- Sankalchand G. Shah & Co. Ltd.—Jianuman Bldg., Tamba Kanta, Pydhonie, Bombay 2.
- Shah Harikundas Jagjivandas.—Mukund Mansion, 105, Vithalbhai Patel Road, Bombay 4.
- Shah Govindji Padamahi.—317, Kharek Bazar, Bombay 9.
- Shah Kantilal Chunilal & Co.—327, Kharek Bazar, Bombay 9.
- Shah Mohanlal Natvarlal Bardoliwalla.—77-79, Vithalwadi, Bombay 2.
- Shah Nagindas Jechand.—118-122, Kazi Saiyed Street, Bombay 3.
- Shah Pravinchandra Bhikhabhai.—Sal Bhuvan, 143, Princess Street, Bombay 2.
- Shah Sevantilal Chunilal & Co.—104-114, Frere Road, Bombay 9.
- Shah Sevantilal Chunilal & Co.—71-73, Essaji Street, Bombay 3.
- Shankerlal Rasiklal.—Diamond Bldg., Lohar Chawl, Bombay 2.
- Shantilal K. Shah & Co.—116, Narayan Dhuru Street, 1st Floor, Bombay 3.
- Shantilal Maganlal Nadiadwala.—Laxmidas Chandaramji Bldg., 229-231, Kariana Bazar, Bombay 3.

Sheodjalma Surajbhan.—11-13, Malharao Wadi, Kalbadevi Road, Bombay 2.
 Shivdanmal Agarwal.—336, Kalbadevi Road, Bombay 2.
 Shival Bhaichand Co.—45-51, Essaji Street, Bombay 3.
 Sind National Sugar Mills Ltd.—B 2, Frere Road, Opp. Sugar Market Limited, Bombay 9.
 Sobhachand Ramnarayan Khatod.—Gresham Building, Mahatma Gandhi Road, Fort.
 Sobhagyaachand & Co.—29, Bhat Bazar, Bombay 9.
 Sugar Shippers & Buyers' Association.—General Assurance Co. Building, Hornby Road, Fort.
 Surajmal Chandrabhan Dakle.—Anand Mahal, Babulnath Road, Bombay 7.
 Swasti Produce Co. Ltd., The.—74-76, Kazi Salyed Street, Bombay 3.
 Swastik Confectionery Works, The.—108, Kazi Salyed Street, Bombay 3.
 Teckchand Lakhmichand.—179, Samuel Street, 2nd Floor, Bombay 9.
 Tha. Jagjivandas Tulsidas Co.—Santokchand Bldg., 4th Floor, 318, Vadgadi, Bombay 3.
 Tha. Jannadas Haridas.—45, Mudi Bazar, Bombay 3.
 Tha. Premji Pragji Dharamshi.—283, Samuel Street, Bombay 3.
 Thakurdas Girdharidas.—382-384, Katha Bazar, Bombay 9.
 Triumfand & Co.—R. No. 406, East India Cotton Assn. Ltd., 4th Floor, Kalbadevi Road, Bombay 2.
 Vachhraj Premchand, Bhulani & Co.—72, Marine Drive, Bombay 1.
 Vashdev Dabral.—104-114, Frere Road, Bombay 9.
 Vasantlal Vadilal & Co.—215-17, Samuel Street, Vadgadi.
 Waghji Lakhmidas & Co.—82, Kazi Salyed Street, Bombay 3.
 Zaverlal Gordhandas.—104-114, Frere Road, Bombay 9.

SUGAR MILL MACHINERY & OTHER REQUIREMENTS SUPPLIERS

"Abco".—30, Sarang Street, Bombay 3. Phone: 39032.
 ANDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 29990. Grams: "ALERTDEAL."
 ADVANCE TUBE CO.—89, Nagdevi Street, Bombay 3. Phone: 30522. Grams: "ELBOWS."
 Asian Textile Engineering Corporation.—Kermani Building, Sir Phirozshah Mehta Road, Fort.
 C. Patel & Co.—70, Podar Chambers, Fort.
 C. RASIKLAL & CO.—267, Masjid Bunder Road, Bombay 3. Phone: 38691. Grams: "GRASSHOPPER."
 Champion Trades Corporation.—9-13, Dalal Street, Fort.
 ESSENTIAL ENGINEERING CO.—11, Betawala Bldg., Elphinstone Circle, Fort. Grams: "ESSENCE." Phone: 252601. Importers, Exporters, Commission Agents and Manufacturers' Representatives.
 Kirtikumar & Co.—80, Bhandari Street, Mandvi, Bombay 3. Grams: "LALITKIRTI."
 National Hardware & Stores Supply Co.—Post Box 3146, Bombay 3. Grams: "REQUISITES."
 Oriental Engineering Co.—25, Forbes Street, Fort, Bombay 1.
 P. Ratilal & Co.—43, Dhanji Street, Bombay 3.
 Pravin Brothers & Co.—37, Bora Bazar Street, Bombay 1.
 Raj-Der-Kar & Co.—Commissionariat Building, Hornby Road, Fort.
 Ramshah Trading Corporation.—17, Nagdevi Street, Bombay 3.
 SHALEKHOTY TYEBJEE & SONS (Est'd. 1840).—12, Bruce Street, Fort, Bombay 1. Phone: 252357. Grams: "ROTATOR."
 Shah Engineering Stores.—88-92, Nagdevi Cross Lane, Bombay 3.
 Vasi Shums & Co. Private Ltd.—165-67, Nagdevi Street, Bombay 3.

SUGAR MILLS

Belapur Company Limited.—Brady House, 12/14, Veer Nariman Road, Fort, Bombay 1.
 Belwandi Sugar Farm Ltd.—Industrial Assurance Building, Churchgate, Fort, Bombay 1.
 Brady, W. H., & Co. Ltd.—Royal Assurance Building, Churchgate Street, Fort.
 GODAVARI SUGAR MILLS LTD., THE.—Fazalbhoy Building, Mahatma Gandhi Road, Fort, Bombay. Phone: 255337-8.
 Hindustan Sugar Mills Ltd.—81, Mahatma Gandhi Road, Fort.
 KESAR SUGAR WORKS LTD.—45/47, Apollo Street, Fort.
 Kolhapur Sugar Mills Ltd.—Fazalbhoy Building, Mahatma Gandhi Road, Bombay 1.
 Kopargaoon Sahakari Sakhar Karkhana Ltd.—Fazalbhoy Building, Mahatma Gandhi Road, Bombay 1.
 Maharashtra Sugar Mills Ltd.—Industrial Assurance Building, Churchgate, Fort, Bombay 1.
 PHALTAN SUGAR WORKS LTD., THE.—Sangli Bank Bldg., 4th Floor, 296, Bazargate Street, Bombay 1. Phone: 253339. Grams: "RISINGSUN."
 Sepulchre Brothers (India) Ltd.—Taj Building, 210, Hornby Road.

SURGICAL INSTRUMENTS & APPLIANCES

Adair Dutt & Co., Ltd.—Calcutta National Bank Building, Sir Phirozshah Mehta Road, Fort.
 Alliance Medical Co.—Dwarkanadas Building, 457, Sandhurst Road, Bombay 4.
 BOMBAY SURGICO MEDICAL AGENCY PRIVATE LTD.—Sharucha Bldg., 182, Princess Street, Bombay 2. Phone: 22202. Grams: "AUTOLITCO." Branch: 113, Chittaranjan Avenue, Calcutta 12. Phone: B.B. 6912. Grams: "GALAXY."
 Bombay Surgical Co.—New Charai Road, Bombay No. 4.
 B. MOHANLAL & CO.—Office: 418, Kalbadevi Road, Show Room: 184, Princess Street, Bombay 2. Phone: 39965. Grams: "NICITICY".
 B. PAREKE & CO.—Head Office: 383, Kalbadevi Road, Bombay. Phone: 34563. Branch: 8A, Peerbhoy Building, Princess Street, Bombay. Phone: 20006. Grams: "GUM-MIWORKS." (On Government Approved List). Direct Importers and Wholesale Dealers in Surgical Rubber Goods, Instruments, Apparatus and Appliances. Sole Distributors in India for: Continental Gummil Werke, Hanover, and Nova Pressmeters and Stethoscopes, Germany. Representatives for India for "PHOENIX" Surgeon and Post Mortem Gloves Manufactured at Bhavnagar.
 CHAPMAN & CO., K.—462, Sandhurst Road, Bombay 4. Phone: 70446. Grams: "TRUSSWORKS." Manufacturers of Hernia Trusses, Abdomen Belts, Deformity Appliances, and Artificial Limbs.
 DANYABHAI & CO., D.—79, Princess Street, Devkaran Mansion, Bombay 2. Phone: 29804. Grams: "ERKA." Dealers in Surgical—Scientific Laboratory Equipment.
 Dawawala Brothers.—102, Girgaum Road, Bombay.
 Eyres, E., & Co.—Bellasis Road, Bombay 8.
 FAIRDEAL SURGICAL CORPORATION.—106, New Citizen Bank House, Falton Road, Bombay 1. Grams: "FOLLLOWER." Phone: 261340. (Surgical Instruments and Hospital Appliances).
 Girdhar Javer & Co.—Devkaran Mansion, Princess Street.
 Gordhandas Desai Private Ltd.—Kermani Building, Sir P. M. Road, Bombay 1.
 Government Medical Stores.—Bellasis Road, Byculla.
 I.C.I. (India) Private Ltd.—P.B. No. 310, Bombay 1.
 IMPERIAL SURGICAL CO. PRIVATE LTD.—"India House," Opp. G.P.O., Fort, Bombay 1. Leading Manufacturers of Aseptic Hospital Furniture and Splints. Importers of Surgical Instruments, Hospital Sundries, Catguts and Ligatures, Dental Instruments, Electro-Medical Equipment, Microscopes, Glassware, Enamelware and Rubber Goods, and Laboratory Furnishers. Grams: "IMPSURGCO." Phone: 26-3468. Branches at: Hazratgunj, Lucknow and Patna.
 Jadavjee Goverdhandas & Co.—58-60, Princess Street, Bombay 2.
 Jagjivandas & Co.—Princess Street, Bombay.
 Jagtiani, J. T.—National House, 6, Tulloch Road, Apollo Bunder, Bombay 1.
 J. L. Morrison Son & Jones (India) Ltd.—Ballard Estate, Bombay 1.
 Kapadia Brothers.—Kalau Building No. 3, Kandewadi, Bombay 4.
 Kantilal Chhotalal & Co.—22, Babu Genu Road, Princess Street, Bombay 2. Phone: 39050. Grams: "COMETRAG"; Manufacturers of "COMET" & "PRESIDENT" brand Hotwater Bags, Ice Bags, Enema Tubings etc.
 Mahomed Hussain & Bros.—106, Kansara Chawl, Kalbadevi, Bombay 2.
 Malgham Bros.—26, Old Custom House Road, Fort.
 Martin & Harris Ltd.—Savoy Chambers, Wallace Street, Fort.
 Modern Traders.—Dwarkanadas Mansion (Entrance Benham Hall Lane), 457, Sandhurst Road, Bombay 4.
 NATIONAL SURGICAL INSTRUMENT COMPANY.—Office & Works: 301, Haines Road, Worli, Bombay 18. Phone: 40540.
 NATIONAL STEEL EQUIPMENT CO.—Naigaum Road (Near Spring Mills), Dadar, Bombay 14. Phone: 61755. Grams: "BEDLOCKER."
 NEW SURGICAL TRADING CO., THE.—Bulakhidas Building, Mangaldas Road, Princess Street, P.O. Box 2321, Bombay 2. Dealers in Surgical Scientific and Laboratory Equipments, Hospital Steel Furniture and Sundries. Tel. No. 36136. Telegrams: "COWORKER."
 Patravali, N. P., & Co.—Fort Chambers, Hamam Street, Fort.
 Phillips & Co.—Waterloo Mansion, Mayo Road, Chemists and Opticians.
 Prem Motwani.—70, Ebrahim Mansion, 366/68, Kalbadevi Road, Bombay 2.
 Rajni Industrial Corporation.—Kitab Mahal, 192, Hornby Road, Fort.
 Reliance Electric & Hardware Stores.—55, Krishna Bhuvan, Lohar Chawl.

Rings Appliances Corporation Ltd.—7/21A, Grants Building, Arthur Bunder Road, Colaba, Bombay 5.
 Scientific Apparatus & Chemical Works Ltd.—Krishna Building, Bori Bunder.
 Scientific & Industrial Supplies Corporation.—Princess Street, Bombay 2.
 Scientific Instrument Co., Ltd., The.—Navsari Building, 240, Hornby Road.
 Shah, M., & Co.—Kanji Mansion, Sandhurst Road, Bombay 4.
 Thomson & Taylor.—119, Mahatma Gandhi Road.
 Universal Supply and Trading Co.—Ismail Building, 381, Hornby Road, Fort.
 Unique Trading Corporation.—51-53, New Hanuman Lane, Princess Street, Bombay 2.
 Valab & Co., M.—Podar Chambers, Parnce Bazar Street, Fort.
 Vaseo Trading Co.—462, Sandhurst Road.
 Whitten, F. C., & Co.—Commissariat Building, 227, Hornby Road, Fort.
ZENITH SURGICAL CO.—206/3C, Mangaldas Bldg., Mangaldas Road, Bombay 2. Grams: "INSTRUMENT". Dealers in Surgical, Scientific & Laboratory Equipment.
 Zill & Co.—Princess Street, Bombay 2.

SURVEYORS

SORABJI, S. K., & CO.—Army & Navy Bldg., Mahatma Gandhi Road, Bombay 1. Phone: 252726. Surveyors, Assessors for Vehicles—Marine Claims.

SURVEYING AND MEASURING INSTRUMENTS

Bombay Stationery Mart.—Sir Phirozshah Mehta Road, Fort.
EVERGREEN CORPORATION.—Gopal Nivas, Lohar Chawl, P.O. Box No. 2733, Bombay 2. Phone: 26691. Grams: "TEMP-TURE." Measuring Tapes, Chains, Reells, Precision Measuring Instruments, Theodolites, Planimeters, Stopwatches, Levels, Compasses & Rulers, etc.
 Gordhandas Desai Private Ltd.—Kernani Bldg., Sir P. M. Road, Bombay 1.
 Lawrence & Mayo (India) Ltd.—274, Hornby Road, Fort.
 Norton & Gregory Ltd. (London).—Office of the Rep., India and Pakistan, "Commerce House," Currimbhoy Road, Ballard Estate, Bombay.
 Pioneer Equipment Co. Private Ltd.—139, Meadows Street, P.O. Box No. 1909, Fort, Bombay 1.
RAY-DER-KAR & CO.—Sadhana Rayen House, Dr. Dadabhai Naoroji Road, Fort, Bombay. For Research Industries. Phone: 262304. Grams: "TECHLAB."
REMEDIOS & SONS.—255, Dr. Dadabhai Naoroji Road, Opp. Lloyds Bank Ltd., Fort, Bombay. Scientific & Surveying Instruments Makers.
 Shah Engineering Stores.—88-92, Nagdevi Cross Lane, Bombay 3.

TABLET MAKING MACHINES

KILBURN & CO. PRIVATE LTD.—Graham Assurance House, Phirozshah Mehta Road, Fort, Bombay 1. Phone: 251906. Grams: "TASCONIUM."

TAILORS, OUTFITTERS AND DRESSMAKERS

Beauforte Ltd.—35, Churchgate Street, Fort.
 Bhatt, T. R., Co.—G. S. Mhaskar Ltd., Lady Jamshedji Road, Dadar, Bombay 14.
 Cawnpore Mills Depot.—Churchgate House, Churchgate Street, Fort.
 Charagh Din & Bros.—Hyder Building, 64, Wodehouse Road.
 Charagh Din & Son.—Linden House, Apollo Bunder.
 Dean & Sons.—Kulsum Terrace, opp. Cusrow Baug, Colaba.
 Dias, A. R., & Bros.—105, Mahatma Gandhi Road, Fort.
 Dias & Bros., J.—173, Princess Street.
 Dias & Co., A. S.—Commissariat Building, Hornby Road, Fort.
 Esquire Limited.—141, Mahatma Gandhi Road, Bombay 1.
 Excelior Drapers, Ltd.—Neptune Building, 170, Hornby Road, Fort.
 Gunasaves & Victor.—"Hampton Court", 125, Wodehouse Road, Bombay 5.
 Ladhahbhai Ravji & Bros.—41, Advani Chambers, Sir Phirozshah Mehta Road, Fort.
 Laffans (India) Ltd.—Rustom Building, Churchgate Street, Fort.
 Lal & Co.—Lansdowne Road, Apollo Bunder.
 Narain & Company.—Opp. Churchgate Station.
 New Lord & Co.—Royal Terrace, 58, Wodehouse Road, Colaba, Bombay 5.

Oxford Tailors.—Majestic Hotel, Colaba Causeway, Fort.
 S. V. Rao & Sons.—Parel, Bombay 12.
 Tropical Tailors.—Waterloo Mansion, Wodehouse Road.

UPPALS & COMPANY.—Indian Merchants' Chamber Building, Churchgate Street Extension, Fort. Phone: 241376. Grams: "UPPALMAK."
 Wassiamull Assomull & Co.—3-A, Churchgate, Fort.

TALLOW IMPORTERS, DEALERS AND MANUFACTURERS

Apex Traders.—Advani Chambers, Sir Phirozshah Mehta Road, Fort.
EAST ASIATIC CO. (INDIA) PRIVATE LTD. THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (3 Lines). Offices at Madras, Calcutta, New Delhi.
EDGAR HANDLEY & CO., PRIVATE LTD.—135, Meadows Street, Fort, Bombay. Phones: 253546 and 252934. Grams: "TROJAN."
 Firoz Trading Co., Private Ltd.—Kamar Bldg., Cowasji Patel Street, Bombay 1.
 General Textile Stores, Ltd.—Beaumont Chambers, 27/33, Meadows Street, Fort.
 Pravin Brothers & Co.—37, Bora Bazar Street, Bombay 1.
 Seth, S. C. & Co., Ltd.—Raja Bahadur Mansion, 14, Hamam Street, Fort.

TANK MANUFACTURERS

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.
SHARAT TANK & STEEL CO. THE.—64, Podar Chambers, Parel Bazar Street, Fort, Bombay. Phone: 252995. Grams: "SEATISCO." Manufacturers of Steel & Stainless Steel Oil & Water Tanks, Chimneys, Pressure Vessels and Industrial Processing Equipment.
 Garlick & Co.—Haines Road, Jacob Circle.
GREAT WESTERN ENGINEERING WORKS.—Sea View, 1st Pasta Lane, Colaba, Bombay 5. Phone: 36016. Grams: "GREWENWORK." Structural & Mechanical Engineers & Contractors. Tank & Railway Equipment Mfrs. & Suppliers.
 Herman & Mohatta Ltd., B. R.—People's Building, Sir Phirozshah Mehta Road, Fort.
 Industrial Machine & Tools Co.—347, Lamington Road, Bombay 7.
 Reliance Trading Co.—25-47, Lohar Street, Bombay 2.
 Richardson & Cruddas.—Byculla Ironworks, Byculla.
 S. S. Engineering Co.—Dhan-Nur Bldg., Sir P.M. Road, Bombay 1.
 Steel Industries of Hindustan Ltd.—Magazine Street, Darukhana, Bombay 10.
 Swastik Rolling Shutters & Engineering Works.—Parel Station Road, Bombay 12.

TANNERS AND TANNERIES

Beltting & Leather Products Association (Division of Gratton & Knight Co.).—8, Motilal Street, Jacob Circle.
 Elgin Leather Wares Ltd.—Nawab Building, 327, Hornby Road, opp. Thos. Cook.
 Fakirmohamed Janmohamed.—Madina Building, Falton Road.
 Lewis & Tylor, Ltd.—Sorab House, 237, Hornby Road.
 Noorbhai Jivaji.—Tyebi Manzil, Bhendy Bazar, near Tram Junction.
 Universal Tanneries Ltd.—Kala-Killa, Dharavi, Bombay 17.
WESTERN INDIA TANNERIES, LTD.—Dharavi, Bombay 17. Manufacturers of all kinds of leather used by Civilian and Textile Industries. Phones: 52621 and 52622. Grams: "EASTKIP."

TANNING MATERIAL DEALERS AND IMPORTERS

Craftsman Electronic Corporation Ltd.—Alice Building, Hornby Road, Bombay.
EDGAR HANDLEY & CO., PRIVATE LTD.—135, Meadows Street, Fort, Bombay. Phones: 253546 and 252934. Grams: "TROJAN."
 Premji Haridas & Co.—Bhanushali Chambers, Argyle Road, Bombay 9.
 Tanning Industries Ltd.—11-B, Noble Chambers, Ghoga Street, Fort.

TAPES & BANDINGS

SUNSHINE TRADERS.—3, Hamam Street, Fort, Bombay. Phone: 251631. (1) Manufacturers of Spindle tapes, Cotton listings, venetian blind tapes, tabular bandings, bundle bandings & Cotton bandings; (2) Manufacturers of Spindle tapes and listings and textile stores suppliers; (3) Manufacturers of Egyptian Cotton tapes and Webbing.



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Eagle Advertising Tape Factory, The.—Eagle Wadi, Kuria (C. Rly.).

EASTERN TAPE MANUFACTURING CO.—Swastik Silk Mills Compound, Fergusson Road, Lower Parel, Bombay 13. Manufacturers of Spindle Tape and Wicks. Phone : 41873.

TARPAULIN

DANESH WATERPROOF MATERIALS PRIVATE LTD.—146, Dongri Street, Bhimpura, Bombay 9. Phone : 70448. Grams : "LORRYCOVER." Manufacturers of any type and size Tarpaulins, Tent, Waterproof bags, Gunny bags, etc.

DHARAMSHI RAMJI.—241, Masjid Bunder Road, Bombay 3. Dealers in Jute & Cotton Canvas, Rubber & Oil Cloth, P.V.C. & Tarpaulin.

DOSSA HARJEE.—257-59, Masjid Bunder Road, P.O. Box No. 3209. Bombay 3. Phone : 20680. Grams : "DOSSANCO". Manufacturers & Suppliers of Tarpaulins, Waterproof Canvas & Gray Canvas.

DWARKADAS VELJI TALPATRIWALA.—P.O. Box 3099, 36, Esaji Street, Vaddadi, Bombay 3. Manufacturers and Stockists of Popular "DUCK" Tarpaulins, Tents, Bituminised Paperlined Double and Single Bags, Gunny Bags, Jute, Twine and Allied Jute Products. Phone : 30932.

Gandhi, R. & Co.—26, Kitchen Garden Lane, Bombay 2.

HARIRAM BHAWANJI CO.—186, Masjid Bunder Road, Bombay 3. Dealers in Tarpaulins, Jute & Cotton Canvas, Rubber, Oil Cloth, P.V.C. Leather Cloth, Hessian Lines Waterproof, Paper Bags, etc. Phone : C/o 76137. Grams : "HARIRAM-CO."

KILBURN & CO., PRIVATE LTD.—Gresham Assurance House, Phiroosshah Mehta Road, Fort, Bombay 1. Phone : 251908. Grams : "TASCONIUM."

Khimji Velji & Co.—82, Dondat Street, Kadak, Bombay 9.

KOOVERJIKARAMSHI TALPATRIWALA.—Ganmukh Bhavan, opp. Masjid Station, Bombay 9. Phone : 28893. Grams : "DUCK CANVAS." Manufacturers of Waterproof Tarpaulins, Cotton & Jute Canvas. Tarpaulins given on hire.

LAHEMICHAND KOOVERJI & CO.—297, Narsi Natha Street, Bombay 9. Phone : 30768. Manufacturers of Waterproof Tarpaulins, any size & colour Tarpaulins given on hire.

MAVJI DEVJI TALPATRIWALA.—285, Narsi Natha Street, Bhat Bazar, Bombay 9. Phone : 22644. Manufacturers of Waterproof Tarpaulin, Cotton and Jute Canvas. Tarpaulin given on hire.

MORARJI PERAJ & CO.—Talpatriwala. All kinds of Waterproof Tarpaulins, given on hire or made to order for sale. 138, Masjid Bunder Road, Near Jakaria Masjid, Bombay 3.

M. V. JOSHI & CO.—31, Isaji Street, Bombay 3. Manufacturers of Tarpaulin and Waterproof Hessian and Alkatane Bags.

PADAMSHI MEGHJI.—Exporters and manufacturers of LION brand waterproof Cotton Canvas, Tarpaulins, Cotton Canvas, Jute Canvas, Hessian Cloth, holdalls, Tents, Kithags, Twine, etc. P. O. Bag No. 3303, 106, Narayan Dhuru Street, Bombay 3. Phone : 23921. Grams : "SAGARDEV." Shalabhoy Tyebjee & Sons.—12, Bruce Street, Bombay 1.

T. LAKHAMSHI LADHA & CO.—Talpatriwala (Estd. 1920), Manufacturers of Waterproof tarpaulins, Dealing in Flex, Jute and Cotton Canvas, hessian, twine, eyelets, etc. Tarpaulins given on hire. 246, Narsi Natha Street, Near Masjid Railway Station, Kharak Bazar, Bombay 9.

TEA AND COFFEE MERCHANTS

AMBER TIPS PRIVATE LTD. (Estd. 1922).—75, New Barden Lane, Mandvi, Bombay 3. Phone : 34684. Grams : "AMBERTIPS." Tea Blenders, Suppliers to Mill Stores, Cantons and Factories. Inquiries for Gift Parcels to U.K. solicited.

Bhagvandas Chhatrabhai & Co.—20, Hamam Street, Fort.

BRANKHARIA BROS.—73, Bazargate Street, P.O. Box 10110, Bombay 1. Phone : 26-2755. Grams : "BRANKHARIA CO." Exporters of Mudis teas; Local Branches : (1) 158, Bazargate Street, (2) 233, Kalbadevi Road; Enquiries for tea Gift Parcel direct from Estate to all over the world solicited.

Bombay Burmah Trading Corp. Ltd.—9, Wallace Street, Fort.
Brooke Bond India, Ltd.—Gresham Assurance House, Sir Phirozshah Mehta Road, P.O. Box 271.

Champaklal Morarji & Co.—193, Samuel Street, Vadgadi, Bombay 9.

Desai Dalal & Co.—Duncan Road, Null Bazar.

Dwarkanadas Sramdas & Co.—233, Jumma Masjid.

Great Western Stores.—Standard Building, Hornby Road.

Himatlal Jamnadas Dani.—Mandvi, New Barden Gully, Bombay 3.

Hiralal Raichand & Co.—85, New Barden Gully.

Impa Tea Corporation.—176, Dongri Street, Bhat Bazar, Bombay 9.

India Coffee & Tea Distributing Co., Ltd.—Prop. of Phillips Coffee and Tea. 53/55, Lakshmi Bldg., Sir Phirozshah Mehta Road, Fort, Bombay. Grams: "TEACOFFEE." Dealers in Tea, Coffee, Raw Rubber, Latex Chemicals and Colours.

J. E. Mody & Sons Coffee Specialists.—164, Hornby Road.

K. R. TAVAKKULI & SONS.—Hararwala Bldg., Colpitha, Bombay 4. Grams: "TAVAKKULI." Phone: 46348. Branch: 86, Meadows Street, Fort, Bombay. Phone: 254963 & 77-79, Shamshet Street, Zaveri Bazar, Bombay 2.

Lipton, Ltd.—Ilaco House, Sir Phirozshah Mehta Road, Fort.

Mehta & Co., F. D.—Standard Building, Hornby Road, Fort.

MODY & COMPANY.—313, Sandhurst Road, Bombay No. 4. Wholesale Tea Merchants and Exporters. Phone No. 70963. Grams: "SAUGEND."

Nathubhai Hirji & Co.—68, New Barden Lane, Mandvi.

Oomrigar & Sons.—80-90, Lohar Chawl Street.

Paradise Tea Co.—Sambava Chambers, Sir Phirozshah Mehta Road, Fort, Bombay.

Phillips & Co.—Waterloo Mansion, Mayo Road.

Polson, Ltd.—Jn. of Belvedere & Dockyard Roads, Bombay 10.

Prabodhan Bhujanglal.—Khimjee Meghji House, Kasaji Street, Vadgadi.

SALDANA'S Tea & Coffee, 26-B, Gunbow Street, Bombay 1. Tel.: 26-2067.

Shah Narotamdas Harjivandas Co. (Estd. 1880).—480, Kalbadevi Road, Bombay 2.

Somnath Motiram.—306, Kharek Bazar, Bombay 9.

Spencer & Co. Ltd.—Spencer's Buildings, Forjett Street, Bombay 26.

Titus George & Co.—45, Palsar Market, Kandivli, Bombay (S.D.).

Vasantlal Vadilal & Co.—215-17, Samuel Street, Vadgadi.

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Eastern Radio & Refrigeration Co.—8, Beaumont Chambers, Meadows Street, Fort.

Hind Industrial & Mercantile Corp. Ltd.—27, New Queen's Road, Bombay 4.

India Traders.—101-B, Girgaum Terrace, Bombay 4.

Super Services (India).—Parekh Building, 18, New Queen's Road, Bombay.

SUPERPHONE INDIA.—Communication Consultants and Contractors; Suppliers of Superphone Inter-Communication Telephones & Accessories for all system. Post Box 3573, 7, New Queen's Road, Bombay. Phone: 27165.

Western Agencies' Co.—421, Lamington Road, Bombay 4.

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ABURA CHEMICAL PRODUCTS PRIVATE LTD.—84, Sion Road, Bombay 22. Manufacturers of Synthetic Detergents, Oil Soluble Emulsifiers, Cation active Finishing Agents and other sizing and finishing Specialities. Mg. Director: S. M. Mistry. Phone: 61294. Grams: "ABURACHEM", Sion, Bombay.

Amritlal & Co., Private Ltd.—Sprott Road, Ballard Estate, Fort.

Anvar Textile Mills Ltd.—Bundeally Building, Sandhurst Road East, Dongri, Bombay 9.

ASAVE MENTA & CO.—24-B, Raja Bahadur Compound, Hamam Street, Fort, Bombay. Phone: 253473. Grams: "ASAMEC." Mill Machineries and Accessories Suppliers. Specialists in Winding Machines and Spares.

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Bakubhai Ambalal Private Ltd.—Wittet Road, Bombay 1.

Bhoglal & Company, B.—261/263, Hornby Road, Fort.

Bhukhanwala & Sons.—Meadows House, Meadows Street, Fort.

Brady, W. H., & Co., Ltd.—Royal Insurance Building, Churchgate Street, Fort.

CHEMIDYE TRADING CO., LTD.—Kamer Building, Cawasji Patel Street, Fort, Bombay 1. Phone: 251034.

CIBA DYES PRIVATE LTD.—Royal Insurance Bldg., Jamshedji Tata Road, Churchgate Reclamation, Bombay 1. Phones: 37184-87. Post Box 479.

C. Patel & Co.—70, Podar Chambers, Fort.

Dhirren & Co.—Lakhani Building, 34, Cawasji Patel Street, Fort, Bombay. Gums, Starches, Oils, Chemicals and Manufacturers of Textile Auxiliaries. Phone: 62620. Grams: "AUXILIARY."

Durga Laboratories.—71, Bhandari Street, Vadgadi, Bombay 3.

EDGAR HENDLEY & CO. PRIVATE LTD.—135, Meadows Street, Fort, Bombay. Phones: 253546 and 252834. Grams: "TROJAN."

Firoz Trading Co. Ltd.—Kamer Building, Cawasji Patel Street, Fort. General Industrial Chemicals.—Beaumont Chambers, 27/28, Meadows Street, Fort.

Greentose Corporation (India).—24-26, Dalal Street, Fort, Bombay.

Harchandani & Sons.—229, Masjid Bunder Road, Bombay 3.

Hardacre & Co., J.—41, Hamam Street, Fort.

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Bombay 12. Stockists of "SWAN" brand Cloth Stamping Paste.

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I.C.I. (India) Private Ltd.—P. B. No. 310, Bombay 1.

Indo-Bobbins & Textile Co., Ltd.—Jan Mansion, Sir Phirozshah Mehta Road, Fort.

INDOKEM PRIVATE LTD.—221, Dadabhai Naoroji Road, Fort, Bombay. Phone: 265151/5.

JAVERI TRADERS.—Lakhani Building, 34, Cawasji Patel Street, Fort, P.O. Box 1977, Bombay 1. Phone: 26787. Importers of Gums, Starches, Chemicals and Manufacturers of Textile Auxiliaries. Factory Phone: 62620.

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Kirtikumar & Co.—80, Bhandari Street, Mandvi, Bombay 3. Phone: 20583. Grams: "LALITKIRTI."

Lalitkumar & Co.—86, Kazisayed Street, Bombay 3.

Lewis & Taylor (India) Ltd.—Sorab House, 237, Dr. Dadabhai Naoroji Road, Bombay.

NATIONAL TRADING COMPANY, THE.—Manufacturers, Importers & Distributors of Sizing & Finishing Materials and Allied Auxiliaries. 263, Dr. Dadabhai Naoroji Road, P.O. Box 158, Bombay 1. Phone: 262149. Grams: "BEARAT." Branches: Ahmedabad, Calcutta, Coimbatore and Delhi. New Hind Engineering Co.—63, Nagdevi Cross Lane, Bombay 3.

ORIENTAL MILL SUPPLY CO. PRIVATE LTD.—29A, AIN Chambers, Dean Lane, Fort. Phone: 252428. Grams: "OMILLCO."

Parekh Bros Ltd.—65, Mahatma Gandhi Road, Fort.

Pestonjee, B. N.—Halcyon Lodge, Vacha Gandhi Road, New Gamdevi, Bombay 7.

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Pioneer Textiles Corporation Ltd.—Lentin Chambers, Dalal Street, Fort.

Pravin Brothers & Co.—37, Bora Bazar Street, Bombay 1.

Sardesai & Company.—14, Mursban Road, opp. New Empire Cinema, Fort.

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Suchin & Co.—85, Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

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Suppliers & Trading (India) Ltd.—79, Meadows Street, Fort.

Textile Machinery Corporation, Ltd.—Annie Besant Road, Bombay 18.

Wallace, J. F., & Co.—Shale Building, 28-32, Bank Street, Fort.

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Altex Private Limited.—147, Esplanade Road, Fort.

Anglo-American Dyestuff Corporation Ltd.—Prospect Chambers, Hornby Road, Fort.

Apollo Engineering Company.—84, Apollo Street, Fort.

Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.

Aspdens Ltd.—Prince's Chambers, Colaba Road, Colaba.

Associated Machine & Tool Co.—180, Meadows Street, Fort.

Autogenous Welding & Repair Co. Private Ltd.—63, Ferguson Road, Bombay 13.

Batilbol & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No. 255451-55.

Grams: "BATILBOICO". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore and Vijayvada. Associates: Bangalore and Secunderabad.

Bharat Electric & Engineering Corporation.—Dalal Street, Bombay 1.

Bracewell Private Ltd.—50/56, Custom House Road, Fort, Bombay.

Brady, W. H., & Co., Ltd.—Royal Insurance Building, Churchgate Street, Fort.

Collinson & Co., Ltd.—Standard Building, Hornby Road, Fort.

Diwari Trading Co.—64, Old Custom House Road, Fort, Bombay.

DUESBERG-BOSSON FILS PRIVATE LTD.—Eruchshaw Building, Dr. Dadabhai Naoroji Road, Fort, Bombay. Phone: 263010. Grams: "DUBOSS."

Duncan Stratton & Co., Ltd.—5, Bank Street, Bombay 1.

EASTERN ENGINEERING CO.—Metropolitan House, Dr. Dadabhai Naoroji Road, Bombay 1. Phone: 261967. Grams: "EASTENG."

EDGAR HANDLEY & CO., PRIVATE LTD.—135, Meadows Street, Fort, Bombay. Phones: 253548 & 252934. Grams: "TROJAN."

Engineering & Agencies Ltd.—Karim Chambers, Hamam Street, Fort.

FRENCH DYES & CHEMICALS (INDIA) PRIVATE LTD.—Adelphi, 3, Queen's Road, Bombay. P.O. Box 1539. Phone: 242131/32. Grams: "FRENCHDYES." Representatives in India for Textile Machinery (Bleaching, Dyeing, Printing and Finishing Machines). Manufactured by S.A.C.M. MULHOUSE (France).

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Gujarat Trading Syndicate.—41, Meadows Street, Fort, Bombay 1. Grams: "GUTRASBY."

Hardacre & Co., J.—41, Hamam Street, Fort.

Hindustan Export & Import Corporation Ltd.—Albert Building, Hornby Road, Fort.

INDIA RAW PRODUCTS SUPPLY CO.—85, AIN Chambers, Tamarind Lane, Fort, Bombay 1. Textile Machinery & Equipment. Phone: 254445. Grams: "KATANKUM."

Indian Commercial Agency.—Regd. Office: Rahimtoola House, 7, Homji Street, Fort.

Industrial Equipment Mfg. Co.—Kasturchand Mills Estate, Bhavani Shankar Road, Dadar, Bombay 28.

Industrial Trading Agency.—Tamarind House, Tamarind Lane, Fort, Bombay. (Healds, Reeds, Wire healds and Shuttles.)

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Laxminarayan Mill Supply Co.—Noble Chambers, 116, Parsi Bazar Street, Fort.

Mahindra & Mahindra Ltd.—Gateway Building, Apollo Bunder, Fort.

Mangaldas Jesingbhai & Co.—49, Tamarind Lane, Fort.

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Mehta Parikh & Co.—45-47, Apollo Street, Fort.

Narotandas Chunilal & Co.—51, Tamarind Lane, Fort, Bombay.

Ormerods (India) Ltd.—Bank of Baroda Building, Apollo Street, Fort, P. O. Box No. 410, Bombay.

Paramount Textile Agency.—45/47, Apollo Street, Fort, Bombay.

Paramount Traders.—Noble Chambers, 1st Floor, Parsi Bazar Street, Fort, Bombay.

Parekh Bros.—Sangli Bank Building, 296, Bazargate Street, Fort, Bombay.

P. & Hart Brothers.—65, Podar Chambers, Parsi Bazar Street, Fort.

Roberts, McLean & Co. Private Ltd.—Ilaco House, Sir Phirozshah Mehta Road, Fort.

RAVI INDUSTRIES PRIVATE LTD.—Founders, Engineers, Textile Machinery and Machine Tool Manufacturers. Office: 68, Shamset Street, Zaveri Bazar Road, Bombay No. 2. Works: Bombay-Agra Road, Thana (C. Rly.). Phone—Office: 39648; Works: 64/1084. Grams: "ROWEMOTORE."

SAURASHTRA ENGINEERING CORPORATION PRIVATE LTD.—Jannabhoosmi Chambers, 29, Fort Street, Bombay 1. Phones: Office: 264941; Factory: 61242. Grams: "SIN-SANATY." Specialists in Textile Dobbies.

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Shree Vijay Trading Corporation.—71/73, Apollo Street, Fort.

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TEXPIN PRIVATE LTD.—110, Meadows Street, Fort, Bombay 1. Phones: 258701, 258702; (Res.) 89097. Grams: "MAX-SPIN."

TEXTILE SUPPLIES SYNDICATE (INDIA) LTD.—India House, 1st Floor, Opp. G.P.O., Bombay. Phone: 26-3564. Grams: "GOODBELT."

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Wallace, J. P., & Co.—Shale Building, 28-32, Bank Street, Fort.

Y. M. Pathare and Company.—Post Box 1428, 41, Meadows Street, Bombay 1. Phone: 24416.

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S. P. MENTA & CO.—29-31, Sindhi Lane, Bombay 4. Phone: (Office) 72159; (Res.) 63420. Grams: "DEANUANT." Manufacturers of Textile Machinery Spare Parts and Card, Ball-bearings, Corah Boxes and Pedestals.

Star Textile Engineering Works Private Ltd.—12, Apollo Street, Bombay 1.

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Aseky & Co., Ltd.—Great Social Building, Sir Phirozshah Mehta Road, Fort, Bombay.

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Bagoomal, R.—57, Churchgate Street, Fort, Bombay. Phone: 34600.
Grams: "SILKLAND."

Bajaj Brothers Ltd.—Round Building, Kalbadevi Road.

Batilbol, C. J., & Co.—319, Hornby Road, Fort.

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Bhagwandas Chattrabhuji & Co.—20, Hamam Street, Fort.

Bhathena & Co., Pirozshah Burjorji.—4-5, Edrus Building, New Charni Road.

Bheroomal Ghanoomall.—Dahanukar Building, Kalbadevi Road, Bombay 2.

Bombay Co., Ltd.—9, Wallace Street, Fort.

Bombay Swadeshi Co-operative Stores Co., Ltd.—Western India House, Sir Phirozshah Mehta Road.

Bulchand Co., L.—Moos Building, 510, Kalbadevi Road, Bombay 2.

Cawnpore Mills Depot.—Churchgate House, Churchgate Street, Fort.

Chotirmal & Co., K. A. J.—Krishna Nivas, New Silk Basar, Bombay 2.

Chinoobhai & Bros., Ltd.—Churchgate House, Churchgate Street, Fort.

Chunilal Mulchand & Co.—Waterloo Mansions, Mayo Road, Fort.

Commercial Traders.—23-25, Old Hanuman Lane, Bombay 2.

David Sassoon, J., & Co., Ltd.—143, Mahatma Gandhi Road.

D. Patel & Co. (Estd. 1916).—Gaumukh Gully, Mulji Jetha Market, Bombay No. 2.

Dubash Freres & Co.—Victoria Building, Paris Bazar Street, Fort.

Dulabhdas Manilal & Co.—New Silk Basar, Kalbadevi.

Durabhaiji & Co., B.—Shri Krishna Nivas, Kalbadevi Road.

Ebrahim Manji & Co.—49, Pydhownie Road, Khadak, Bombay 9.

Emaldas & Sons.—74, Carnac Road, Bombay 2.

Evans Fraser & Co. (India) Ltd.—Fort House, Hornby Road, Fort.

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FORBES FORBES CAMPBELL & CO. PRIVATE LTD.—Forbes Building, Home Street, Fort, Bombay.

Frangji Ardaseer Davar & Sons.—Navsari Chambers, Outram Road, Fort.

Gaganmal Ramchand.—P. O. Box No. 2183, New Silk Basar, Bombay 2.

Gobhai, M. N., & Co.—501, Kalbadevi Road.

Godame Bros.—Buona Casa, Sir Phirozshah Mehta Road, Fort.

Gorakham Gokalchand (Estd. 1891).—Chokai Chambers, Zaveri Basar, Bombay 2.

Gore & Co.—Great Social Building, Sir Phirozshah Mehta Road, Fort, Grand Bazar.—25, Colaba Causeway, Bombay 1.
 Haji Ramali Haji Oomer & Co.—50-56, Chakla Street (Jackeria Masjid), Bombay.
 Haji Janmohamed Moosa.—27-29, Zakaria Bazar, Sheriff Devji Street.
 Harchandani Sons.—229, Masjid Bunder Road, Bombay 3.
 Hasanali Saleh Mahomed & Co.—Bundally Building, Sandhurst Road East, Dongri, Bombay 9.
 Hassamal Bros.—535, Kalbadevi Road, P. O. Box No. 2236, Bombay 2.
 Hassaram & Co., K.—New Silk Bazar, Kalbadevi Road, Bombay 2.
 Hazrat & Co.—Warden House, Sir Phirozshah Mehta Road, Fort.
 Hindustan Fabrics & Stores Ltd.—Foolchand Nivas, Chowpatty Sea Face, Bombay 7.
 Holland-Bombay Trading Co., Ltd.—E. D. Sassoon Building, Dougall Road, Ballard Estate.
 Hoosen, M. A., & Bros.—Lakhami Building, Sir Phirozshah Mehta Road, Fort.
 Hotchand Motumal.—331, Hornby Road, Fort, Bombay.
 Hukamchand Chanderbhan.—1st Floor, Hira Building, opp. Crawford Market, Carnao Road.
 Husein Ebrahim.—75, Mahomedally Road, Bombay 3.
 H. V. M. Moosa Motiwalla & Sons, Ltd.—91, Mahomedalli Road, Bombay 3.
 India Corporation Ltd.—Indian Globe Chambers, Fort Street, Fort, Bombay.
 Indian Art Museum.—Carnao Bridge, Bombay 3.
 Italindia Cotton Co. Ltd.—Indian Globe Chambers, Fort Street, Bombay.
 Jannadas, B.—Mulji Jetha Market, Gaumukh Gully, Bombay 3.
 Jannadas Nanjee Mangrolwala.—83-85, Bazar Gate Street, Fort, Bombay.
 Jassawalla, R. M., & Co.—105, Apollo Street, Fort.
 J. A. Thadani & Co.—People's Building, Sir Phirozshah Mehta Road, Fort.
 Jerandas Naumal.—371, Hornby Road, Fort, Bombay.
 Jewan Bukhsh Mohammed Jan.—99, Chakla Street, Bombay 3.
 Jivandas Bhansji & Co. (Estd. 1925).—Dwarkesh Gully, Mulji Jetha Market, Bombay 2.
 Kala Niketan.—Pravin Court, Queen's Road, Bombay.
 Kanahi Ram Kider Nath.—Vulcan Insurance Bldg., Veer Nariman Road, Bombay 1.
 Kantilal Sanghvi & Co.—Mherwan Building, Sir Phirozshah Mehta Road, Fort. Phones: 28185 & 34261. Grams: "EXPIM."
 Kapadia Trading Co.—Botawalla Building, New Silk Bazar, Kalbadevi Road, Bombay 2.
 Kapur & Sons, Ltd.—Chandra Chowk, 8th Lane, Muljee Jetha Market.
 Karanjia & Co., Ltd.—Sukhadwala Buildings, 172, Hornby Road, Fort.
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 Kavarana Muncherji Heerjibhoy.—New Silk Bazar, opp. Kalbadevi P.O., Kalbadevi.
 Kavarana, R. S., & Co.—635, Mistry Building, Girgaum Road, Dhobi Talao.
 Kedarnath Singhee & Co.—233-34, Sheikh Memon Street, Bombay 2.
 Keshavilal Talakchand (Private) Ltd.—Post Box No. 1472, India House, opp. G.P.O., Bombay. Phone No. 261982. Grams: "CHANDRODAY".
 Kewalram & Bulchand.—Shree Krishna Nivas, Kalbadevi Road, Bombay 2.
 Kidarnath Kishanchand.—106, Meadows Street, Fort, Bombay.
 Kilachand Devchand & Co., Ltd.—45-47, Apollo Street, Fort.
 Kimatral, J., & Co.—Mistry Building, Bomanji Master Road.
 Kirtikumar & Co.—80, Bhandari Street, Mandvi, Bombay 3.
 Kishinchand Chellaram.—Guzdar House, Dhobi Talao.
 Kishinchand & Co. (India).—139, Hornby Road, Fort.
 K. Metharam.—401-3, Kalbadevi Road.
KOTAK & CO.—Navsari Building, Dr. Dadabhai Naoroji Road, Fort, Bombay. Grams: "KOTAKANDCO." Phone Nos. 263331-263332-263333-263334-263335.
 Kros & Co.—Podar Chambers, Parsi Bazar Street, Fort.
 Kumudchandra & Co.—Examiner Press Building, Dalal Street, Fort.
 Kundamal Ramlal.—78/80, New Hanuman Lane, Bombay 2.
 Ladhahbhai Ravji & Bros.—41, Advani Chambers, Sir Phirozshah Mehta Road, Fort.
 L. N. Mehta & Sons.—Laxmi Building, Sir Phirozshah Mehta Road, Fort.
 Madhavdas Ragnathdas & Co.—172, Hornby Road.
 Madhusudan Gordhandas & Co.—Ganeswadi, Mulji Jetha Market, P.O. Box No. 2110, Bombay 2.
 Mahendrakumar & Co.—Central Bank Building, Mahatma Gandhi Road, Fort.
MAHENDRALAL, B.—Dwarkesh Lane, Muljee Jetha Market, Bombay 2. Phone: 34235. Grams: "SELFHELP". Direct Importers of Woollen & Art Silk & Cotton piecegoods.

Mansukhlal Kantilal & Co.—185, Mulji Jetha Building, Princess Street.
 Mohanlal & Co.—Chhotalal Bhuvan, 3rd Floor, Kalbadevi Road, Bombay 2.
 Mohanlal, D., & Co.—Bomanji Master Lane, near Kalbadevi P.O., Bombay 2.
 Mohanlal Goculdas.—Lalsingh Building, opp. Crawford Market.
 Moosa Shariff Sons (Estd. 1933).—77, Mahomedali Road, Bombay 3.
 Morarji Velji & Sons.—7, Kolbhat Street, Post Box No. 2001, Bombay 2.
MUSRY, G. N., PRIVATE LTD.—Canada Building, Home Street, Fort. Phone: 26-1435. Grams: "DANDELION." Importers and Exporters.
 Mysore Silk Depot.—112, Swadeshi Market, Kalbadevi Road, Bombay 2.
 Narandas Girdhardas.—Chandra Chawh Lane, Mulji Jetha Market.
 Navtilal Dayalal.—68, Swadeshi Market, Kalbadevi Road.
 N. M. Brothers Co.—Shreeji Bhuvan, Lohar Chawl, Post Box No. 2163, Bombay.
 Noormohamed Haji Mohamed Mukatey.—Wassianull Building, 184, Masjid Bunder Road, Bombay 3.
 Pansal Silk Mills Ltd.—Atlas Mills Compound, Reay Road, Naza-gaon, Bombay 10.
 Pavri Sons & Co.—93/97, Bazargate Street, Fort.
 Poptal Ghelabhai & Co.—104, Chukla Street, Bombay 3.
 Popular (Imp. & Exp.) Trading Co.—Javeri House, 110, Meadows Street, Bombay 1.
 Pragjee Vandrawan & Co.—Pragaji Lane, Mulji Jetha Market.
 Premechand Trading Ltd.—7, Dhanji Street, Bombay 3.
 P. E. Patel & Co. Ltd.—Mherwan Building, Sir Phirozshah Mehta Road, Fort.
 Purshotam Govindjee & Co.—Mulji Jetha Market.
 Rajai Bros.—Opp. B.E.S.T. & Co., Colaba Causeway.
 Ralli Brothers, Ltd.—21, Ravelin Street.
 Ramchandra Gopal & Co.—Farsi Galli, Dhanji Street.
 Ramdas Khimji Bros.—Warden House, Sir Phirozshah Mehta Road, Fort.
 Ramkisanadas Sagarmal.—Kalyan Bhuvan, 854, Kalbadevi Road.
 Ramkisen & Sons.—Opp. Post Office, Kalbadevi.
 Rangoonwala, H. N.—Rangoonwala Building, 91, Mahomedalli Road.
 Rasiklal Nagindas & Co.—Dadar Galli, 4th Shop, M. J. Market.
 R. Ragoonmal.—57, Churchgate Street, Fort.
 Roop Kala.—Queen's Chambers, Queen's Road, opp. Marine Bridge.
 Roohani D. Nasser & Co.—68/72, Champa Gully, Mulji Jetha Market.
 Rowe & Rowe.—38, Hornby Road, Fort.
 Ruby Trading Co.—Sambava Chambers, Sir Phirozshah Mehta Road, Fort.
 Rylands & Sons (Overseas) Ltd.—Cook's Building, Hornby Road.
 Saleem Hafts & Brothers.—94, Modi Street, Fort.
 Sassoon, E. D., & Co., Ltd.—E. D. Sassoon Building, Ballard Estate.
 Shah Chhaganlal Sevachand.—504, Kalbadevi Road, New Silk Bazar.
 Shah, L. P., & Sons.—Central Building No. 2, New Silk Bazar, opp. Kalbadevi P.O., Bombay 2.
 Shapurji & Co., B. K.—310, Hornby Road, P. B. No. 1065, Fort.
 Shri Laxmi Cloth Trading Co.—135, Zaveri Bazar, Bombay 2.
 Spinner, E., & Co.—8, Tamerind Lane, Fort.
 Sorabji Nowroji & Co.—16, Horniman Circle, Fort, Bombay.
 Standard Trading Agency Ltd.—Seksaria Chambers, 139, Meadows Street, Fort.
 Subodhchandra Poptalal (Estd. 1915).—Exporters & Importers, 223-25, Sheikh Memon Street, Bombay 2.
 Tirathdas Sons.—New Silk Bazar, Kalbadevi Road, Bombay 2.
 Tod & Co.—41, Hamam Street, Fort.
 Tulsiadas V. Patel.—Morarji Goculdas Road, Bombay 2; Kalbadevi Road, Bombay 2. Phone: 21238. Grams: "Vivides".
 Union Industrial Corporation.—5, Parker Building, 10, Cawasji Patel Street, P.B. No. 1179, Bombay 1.
 Utomal & Assudamal Co.—Bombay Mutual Annex, Gunbow Street, Fort.
 Vadilal Vrajilal & Co.—Peerbhoy Building No. 2, 89, Princess Street.
 Valia & Co.—Harganga Mahal, Tram Terminus, Dadar, Bombay 14.
 Valibhai Kamruddin.—101, Abdul Rehman Street, Bombay 3.
 Valiram Sons.—Patel Building, Bomanji Master Road, Kalbadevi.
 Vasi Bros. & Co.—Topiwalla Mansion, Mahomedalli Road.
 Vasudev Girdharilal.—Central Building No. 2, New Silk Bazar, opp. Kalbadevi P.O., Bombay 2.
 Vaswani, D. W.—11, Bharat Bhuvan, New Silk Bazar, 468, Kalbadevi Road, Bombay 2.
VASWANI (INDIA) PRIVATE LTD.—Proprietors of Pohsarnull Brothers (India), 493, Kalbadevi Road, Bombay 2. Phone: 23267. Grams: "VASWATRAD."
 Vaswani, K. D., & Co.—New Silk Bazar, 499, Kalbadevi Road, Bombay 2.
 Volkart Brothers.—19, Graham Road, Ballard Estate.
 Windmere (India) Ltd.—Exporters of Indian Cotton Piecegoods and Yarn, 110, Sir Vithaldas Chambers, 16, Apollo Street, Fort, Bombay. Tel. Address: "WINDNERE."
 Yacoub Ahmed Brothers.—Topiwalla Mansion, Mahomedalli Road.

TEXTILES (HANDLOOM)

INDIAN TEXTILES CO., PRIVATE LTD., THE.—Manufacturers & Exporters of Handwoven Sarees, Brocades, Silks, Cottons, Prints, Woollens, Embroideries, etc. Bombay Office: Taj Mahal Hotel, Bombay 1. Phone: 35771. Grams: "HANDICRAFT." Head Office: Varanasi (U.P.), Phone: 1067. Branches: Great Eastern Hotel, Calcutta, Phone: 231543; Grand Hotel, Calcutta. Ambassadors Hotel, New Delhi, Phone: 45121/10. Grams: "HANDWOVEN" and 13-N, Connaught Circus, New Delhi.

THERMOS FLASK DEALERS

EAGLE VACUUM BOTTLE MFG. CO. PRIVATE LTD.



Manufacturers of

EAGLE BRAND

VACUUM FLASKS

AND REFILLS

Regd. Office:

144-146, Sherrif

Devji (Chakla)

Street, Bombay 3.

Tele: 38150

Management

Tele: 23636

Sales & Accounts

Grams:

REGISTERED TRADE MARK "EAGLEFLASK"

THREAD CUTTING TOOLS

EVERGREEN CORPORATION.—Gopal Nivas, Lohar Chawl, P.O. Box No. 2733, Bombay 2. Phone: 20891. Grams: "TMP-TUBE." U.S.A. & English make B.S.W., B.S.F., M/M & B.A. Taps and Dies, Twist Drills, Reamers, Cutters and other Thread Cutting Tools.

TIMBER MERCHANTS

ABBA GANI & CO.—1-2, Victoria Road, Mazagaon, Bombay 10. Phone: 40785. Grams: "TEAKTIMBER." Merchants & Contractors; Largest Stockists in Bombay of Burmah and Indian Teak, Jungle & Deal wood, Bamboos & Scaffolding Materials on hire and for sale; Owners of Mustafa Saw Mills. Abubakhar Mahmood Khan & Co.—Ghodbunder Road, Andheri. Abdul Gani Abdul Latif.—99, Koliwada, Sewri. Abdulhussein Alilbhai.—Tank Bunder, opp. Reay Road Station, Mazagaon. Aboobakar Mohamed Chhapra & Co.—Islami Bazar, 7, Victoria Road, Byculla. Alimohammed Ahmed & Co.—55, Dontad Street, Khadak, Bombay 9. Amratlal, M., & Co.—Tank Bunder, Reay Road. Andheri Saw Mill & Timber Works.—Ghodbunder Road, Andheri, Bombay. Timber Merchants and Government Contractors. Phone: 86437. Barodawalla, A. S., & Co.—Altamont Road, Cumballa Hill. Bejanji Kerbadji & Sons.—Victoria Road, Tank Bunder. **BEHARAT TIMBER DEALERS.**—Reay Road (Opp. Reay Road Station), Bombay 10. Phone: 40602. Grams: "FIRPINE." Stockists & Direct Importers of HIMALAYAN PINE TIMBERS Deodar, Firpine, Chirpine (used for Textile Accessories in Special quality), Bluepine and Deal wood. Bharat Timber Mart.—Jamli Moholla, Panjrapole. Bombay-Burma Trading Corporation, Ltd.—9, Wallace Street. Bombay Saw Mills Co.—Connaught Cross Lane, Ghorupdeo. Bombay Timber Importing & Landing Co.—148, Middle Colaba. Brijmohan Banwarilal.—61, Reay Road, Mazagaon, Bombay 10. Chunilal Maganlal.—Reay Road, Tank Bunder, Bombay 10. **D. P. CAWASJI & CO.**—Connaught Saw Mill Compound, Dhaku Prabhuwadi, Ghorupdeo, Bombay 10. Tel. Address: "JUNGLEWOOD." Timber Merchants. **DARVESH TIMBER MART.**—83, Victoria Road, Mustafa Bazar, Mazagaon, Bombay 10. Phone: 711219. Grams: "TIM-FLANK." Largest Stockists of Poonwood, Vellopine, Hard jungle wood, White-cedar, Silver-oak, C.P. Teak and also dealers in Burma Teak and Dealwood. **EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.**—Wavel House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi. Famous Ladders Mfg. Co.—18, Khadak, Dontad Street, Bombay 9.

Faramroze & Co.—Reay Road, Bombay 10. Fateh Saw Mill & Timber Works.—61, Islami Curtay Road, Bombay 8. Fatemahomed Osman Parekh & Co.—77, Victoria Road, Byculla. Gilder, S. D. D., & Co.—40, Victoria Road, Byculla. Grand Wood Works & Saw Mill.—Connaught Cross Road, Ghorupdeo. Gulam Hussein Meherally & Co.—Ghorupdeo, Connaught Road, Bombay 10. Haji Ebrahim Haji Omer.—65, New Kazi Street, Bombay 8. Haji Ebrahim Haji Suleman Darvesh & Co.—8, Islami Bazar, Victoria Road. Haji Ebrahim Karim Mohamed & Sons.—64, New Kazi Street. Haji Janmahomed, H. A., & Co.—Tank Bunder, Reay Road, Bombay 10. Hargovindas Shivlal & Co.—Opp. Reay Road Station, Tank Bunder, Bombay 10. **J. HARILAL & CO.**—Tank Bunder, Reay Road, Bombay 10. Phone: 42834. Grams: "FIRWOOD." Stockists of Teak Wood, Fir, Pine, Deal Wood, Chil Pine and jungle wood. Janmahomed Habib.—Mustafa Bazar, Victoria Road, Byculla. Janmahomed Haji Moosa.—Victoria Road, Byculla. Janmahomed Mcledina.—50, Dontad Street, Khadak. Kanti Wood Works.—Office, Saw Mills, Factory: Quay Street, Darukhana, Bombay 10. Kantilal Bhattachand & Co.—Opp. Silk Mill, 68, Victoria Road. Kantilal Ramanlal & Co.—Reay Road, Tank Bunder. Kasam Abdulla & Co.—Victoria Road, Mustafa Bazar, Byculla. Kasi, Ebrahim Dawood.—59, Victoria Road. Khan Bahadur S. R. Mody.—No. 24, Colaba Chambers, Colaba Road. Khar Timber Mart.—132, Ghodbunder Road, Old Khar, Bombay 21: Timber and Bamboo Merchants; Dealers in Timber, Bamboos and Bamboo Mats; Scaffolding materials like Bamboos, Planks, Ladders Munds and Bullies etc. can be had on hire. Kohnoor Timber Mart.—Reay Road, Tank Bunder, Bombay 10. Lalji Dewji Mehta.—Victoria Road, Byculla. Lumber Industries Limited.—Victoria Road, Byculla. **MADHORAM & SONS.**—Forest Contractors, 136, Tank Bunder, Reay Road, Bombay 10. Stockists: Chil Pine, Fir Pine, Shisham Wood, Teak Wood, Jungle Wood, etc. Maganlal Nagardas & Co.—126-B, Victoria Road. Mahomed Janmahomed.—68, Pydhoni Road, Khadak, Bombay 9. Cull on 70663. Scaffolding materials as Bamboos, Bullies, folding ladders, wooden planks, etc. Can be had on hire & sale. Malabar Timber Supplying Co.—Opp. Masina Hospital, Victoria Road, Byculla. McKensies, Ltd.—Sewri. Meherally Saw Mill & Timber Works.—Connaught Road, Ghorupdeo. **MERWANJI KOLLEBHAJI & SONS.**—Victoria Road, Bombay 10. **MILLER'S TIMBER & TRADING CO., LTD.**—Victoria House, Victoria Road, Bombay 27. **MODY, R. E., & CO.**—Timber Merchants, Saw Millers, Railway Contractors and General Commission Agents, Reay Road, Bombay 10. Phone: 41186. Grams: "TIMBERS." Noormahomed Osman.—New Kazi Street. Northern India Timber Corp.—63, Reay Road, Bombay 10. **PAREKH & CO.**—77, Victoria Road, Mustafa Bazar, Bombay 10. Phones: 40782 (Office), 71632 (Res.). Grams: "KAMAL-KING." Timber Merchants, Direct Importers & Exporters. **PATEL & CO.**—99, Victoria Road, Mustafa Bazar, Bombay 10. Phone: 72936. Head Office: Ghorupdeo Road, Bombay 10. Dealers & Stockists of C.P. Teak and Indian Teak Wood in any Length and Size and Round Logs. Patel, P. R., & Co., Ltd.—Mherwan Building, Sir Phirozshah Mehta Road, Fort. Pestonji Jamsaji & Co.—Reay Road, Tank Bunder. **PODAR SAW MILLS.**—61, Reay Road, Bombay 10. Phone: (Office) 42203; (Res.) 60144. Popatlal Parbhudas.—Near Reay Road Station, Tank Bunder. Potia, Fidaalli Mohamedally & Bros.—61, Hussein Lakda Bazar, Bellasis Road. **PROCESSED TIMBER PRODUCTS.**—104, Ghodbunder Road, Chunarbhadi, Santa Cruz (West), Bombay 23. Phone: 88536. Grams: "WOODCRAFT." Timber Engineers & Government Suppliers, Seasoning & Chemical preservation by Pressure Plant Undertaken according to Specification of Indian Standards Institution. Quality Timber Trading Co.—The Bombay Timber Market Ltd., Shop No. 78, Signal Hill Avenue, Reay Road, Bombay 10. Ravishanker P. Acharya.—Reay Road, Tank Bunder. S. D. D. Gilder & Co.—40, Victoria Road, Mazagaon, Bombay 10. Grams: "TREKTOP."

Simplex Timber Mart.—66, Pydhonie Road, Khadak, Bombay 9. Phones: 70663. Grams: "LADDERMAN". Manufacturers of all kinds of Single, Folding, Sliding Extension and Wheeled tower ladders, boat oars and flag poles, etc.

SOORYA TIMBER TRADING CO.—148 50, Victoria Road, Bombay 27. Phone: 42342. Stockists of all kinds of Timber and specialists in Packing wood.

Standard Timber Trading Co.—Islami Bazar, Victoria Road, Byculla, Sunderdas Saw Mills.—Opp. Reay Road Station, Bombay 10.

TEXTILE & TIMBER TRADERS.—Meadows House, Meadows Street, Fort. Phones: 252051 and 252666.

TIMBER PRIVATE LTD.—Quay Street, Mazagaon, Bombay 10. Phone: 42610. Grams: "TIMLIM." Pioneers of Fir and Pinewood & Manufacturers of Wooden Boxes.

Timber Trading Corporation.—Tank Bunder, Reay Road, Bombay 10. **Timber Wood Syndicate.**—All kinds of Timber, Bullies, Mundas, Rafters, Bamboos, etc., available in Big Stock. Ghodbunder Road, Andheri, Bombay 41.

TRAVANCORE TRADING CORPORATION, THE.—R.C. Church Compound, Opp. Tata Mills, Dadar Road, Bombay 14. Phone: 60518.

Trinity Timber Syndicate.—57, Dondat Street, Khadak. **Vaid & Co.**—26, New Kazi Street, Null Bazar.

VALIMOHAMED HAJI AHMED & CO.—146, Victoria Road, Byculla, P.O. Box 6953, Bombay 27. Stockists of Burma & C.P. Teak, Poon & Jungle Wood of all Species & Deal Wood. Phone: 42586. Grams: "WOODPECKER."

Vishnool Ballal & Co.—Opp. Reay Road Station, Bombay 10.

WADIA, S. F., & SONS.—Reay Road, Bombay 10. Phone: 40234. Grams: "TIMBERSALE."

Wallace & Co.—9, Wallace Street.

West Coast Timber & Plywoods.—57, Victoria Road, Mazagaon. **Western Australia State Saw Mills, Perth.**—Agents: Killick, Nixon & Co., Home Street, Fort.

WOOD BOX PRIVATE LTD.—Sion Trombay Road, Chembur, Bombay 38. Phone: 67284; Sole Manufacturers in India of Multi Colour Printed Wooden Packing Cases; Stockists of Fir & Pine Wood.

Zakriya & Dawood Co.—37, Dondat Street, Khadak, Bombay 9.

TIMBER (SEASONING KILNS) AND PRESERVATIVE TREATMENT

PROCESSED TIMBER PRODUCTS.—104, Ghodbunder Road, Chunarhatti, Santa Cruz (West), Bombay 23. Phone: 88536. Grams: "WOODCRAFT." Timber Engineers & Government Suppliers. Seasoning and Chemical preservation by Pressure Plant undertaken according to specification of Indian Standards Institution.

TIN BOX MANUFACTURERS

THE METAL BOX COMPANY OF INDIA LTD.—249, Werli Road, Bombay 18. (For details of Products Manufactured See Page 1000).

TIN PRINTERS & BOX (CONTAINERS) MANUFACTURERS

BOMBAY TIN PRINTERS.—221-223, Thakurdwar Road, Bombay 2. Grams: "LITHOPRINT." Phone: 34587. Manufacturers of Printed Decorative Tin Boxes, Containers (Readymade & made to order), Tin Signs, Seals; Tins made of joints only.

INDIAN METAL CAN MFRS. PRIVATE LTD.—13, Noble Chambers, 116, Parsee Bazar Street, Bombay. Phone: 251603. Grams: "MYRABOLANS." Manufacturers of Tin Containers.

KIV TRADING CO.—17, 1st Farsiwada, Khetwadi, Bombay 4. Phone: 72180.

POYSRA INDUSTRIAL CO. PRIVATE LTD.—Manufacturers of open Top Sanitary Cans for Processed Foodstuffs, Lithographed and Plain Tinplate Containers, Crown Corks, Closures and Experts in Multi-colour Printing on Tinplate and Aluminium for Poster-Advertisements. Messent Road, Sewri, Bombay 15. Phone: 72863. Grams: "SANCANS."

Grams: "METALPRINT"

Phone: { Office: 254416
Factory: 87056

THE METAL PRINTERS COMPANY

Office:

Aga Khan Bldg.,
9, Dalal Street,
P. B. No. 411, Bombay 1

Factory:

Marol Naka,
Andheri-Kurla Road,
Bombay 41

Manufacturers of:

Multicolour Metal
Containers, Showcards,
Posters, Display
Materials, Screwcaps
and Strips in all Shapes
and Description.

New Trinity Metal Works Ltd.—39-43, Nesbit Road, Bombay 10.

SAIFY TIN FACTORY.—Manufacturers of Tin Containers. Upper Duncan Road, Bombay 8. Phone: 42396.

THE ORIENTAL CAN MANUFACTURING CO.—1076, Haines Road, Werli, Bombay 18. Phone: 41185. Manufacturers of Lithographed Tin Containers and Packing Materials.

ZENITH TIN WORKS PRIVATE LTD.—Opp. 1st Enclosure, Race Course, Clerk Road, Mahalaxmi, Bombay 11. Phone: 70375 & 70376. Grams: "ZENITHETINS." Manufacturers of Plain & Lithographed Tin Containers and Collapsible Tubes.

TOBACCO DEALERS AND MANUFACTURERS

Behram Bros.—Oomrigar Building, opp. Crawford Market.

BYRAM & CO.—Wakefield House, 11, Sprett Road, Ballard Estate, Bombay.

Dilaj & Co.—20, Hamam Street, Fort.

Godfrey Phillips (India) Ltd.—Kurla Road, Chakala, Andheri-Greater Bombay.

Golden Tobacco Co.—Tobacco House, Ghodbunder Road, Vile Parle.

Hiralal Panachand Shah.—Office: Jai Hind Estate No. 1, Cathedral Street, Bhuleshwar, Bombay 2.

IMPERIAL TOBACCO COMPANY OF INDIA, LTD., THE.—Factory: P.O. Box No. 8002, Farel, Bombay 12. Phone No. 62521 (3 lines). Tel. Address: "BACCYMAKE."

Khodadad Sheriar & Co.—No. 2, Crawford Market.

Macropolo, D., & Co., Ltd.—Kermani Building, Hornby Road, Fort.

Mooljee Sika & Co.—Patel Road, Bombay 4. Branches at Gondia (M.P.), Darjeeling, Champa (M.P.), Aurangabad (Mushkidabad), Lucknow, Kanpur, Ambala. Head Office: 51, Ezra Street, Calcutta.

Olympia Cigarette Co. & General Stores.—Metro House, Dhibi Talao.

Phillips & Co.—Waterloo Mansion, Mayo Road, Fort.

Pioneer Industrial Tobacco Works.—Imamwada Road, Bombay 9.

Spencer & Co., Ltd.—Spencer's Building, Forgett Street, Bombay 26.

Star Beedi Works.—Keshav Bhuwan, 1st Sutar Gully, Bombay 4.

TOILETRIES

A.V.R.A. & CO.—Lalsing Building, 6, Lehar Chawl, Bombay 2. Phone: 29021. Grams: "AVRA." Manufacturers & Distributors of "REMY" Brand Toiletries such as Snow, Powder, Brilliantine, Hair oil, Soap, etc. Branch: Thambu Chetty Street, Madras 1.

Abdulla A. Baker & Co.—89, Bhajipala Street, Bombay 3.

Akbarally Ebrahimji.—38/c, Cawasji Patel Street, Fort, Bombay. Grams: "Tussibar."

Allmohamed Hussein & Co.—229, Jumma Masjid, Bombay 4.

Bhimjee & Co., Ltd.—11, Elphinstone Circle, Fort.

Budroodin Mahomedally & Sons.—238, Nagdevi Street, Bombay 3.

Chesebrough-Pond's Inc.—(Incorporated in U.S.A. with Limited Liability), 13, Gunbow Street, Fort, Bombay 1.

Derby & Co.—P. B. Press Building, Frere Road, Fort.

Ebrahim Aliibhoy & Sons.—260-64, Abdul Rahman Street, Bombay 3.

Hasanali Kamroodin.—19, Shamsat Street, Bombay 3.

Hebertsons Ltd.—11-13, Elphinstone Circle, Fort.

HIRA, P. E., & CO.—18-30, Princess Street, Bombay 3. Perfumers, Stationers, Cutlery, Chemists & Druggists. Toilet Articles. Phone: 29489. Grams: "PERFUMES." Branches: Calcutta, Madras and Delhi.

I.C.I. (India) Private Ltd.—P.H. No. 310, Bombay 1.

Jadavji, R., & Sons.—Harbour View, Colaba Causeway.

Jhaveri Bros. & Co.—Metro Cinema House, Dhobi Talao.

Komal Manufacturing Chemists, Ltd.—23-36, Imperial Chambers, Ballard Estate, Fort.

Lever Bros. (India) Ltd.—Sewri, Bombay.

Madon, M. T., & Co.—The "Corner-Shop", 346, Abdul Rehman Street, Bombay 3.

Modi Gandevia & Co.—Western India House, Sir Phiroozshah Mehta Road, Fort.

Muhammed Ahmed & Bros.—22, Cutlery Bazar, Bombay 3.

New India General Stores.—33, Meadows Street, Fort, Bombay.

Pearline (Paris).—Rehman Building, Churchgate Street, Fort.

Phillips & Co.—Waterloo Mansions, Mayo Road, Fort.

Smith, Stanistreet & Co., Ltd.—Stan House, Barrack Road, Fort, Bombay 1.

Sultanali Mohamadali (Estd. 1895).—148, Sarang Street, Bombay 3.

Swastik Oil Mills Ltd.—Saltpan Road, Wadala, Bombay 31.

Tata Oil Mills Company Ltd.—Bombay House, Bruce Street, Fort, Bombay.

Universal Perfumery Works, The.—95, Kambekar Street, Bombay 3.

Yacoub Ahmed Bros.—Topiwala Mansion, Mahomedally Road.

TOOL MANUFACTURERS AND MERCHANTS

Abdeally, B. M., & Co.—127, Sarang Street, Bombay 3. Phone: 31790.

Abdool Hossain Jiwajee & Co.—241, Nagdevi Street.

Abdulkhader Shamsuddin & Co.—48, Khoka Bazar, Bombay 3.

Abdullahal Falsullabhai Ltd.—Khoka Bazar, Bombay 3.

Adamally Gulamhusein.—191, Khoka Bazar, Sarang Street, Bombay 3.

Adamally Sons Ltd.—277, Nagdevi Street, Bombay 3.

AGARWAL COMMERCIAL CORPORATION.—35, Bibijan Street, Nagdevi, Bombay 3. Phone: 30041 Ext. 11. Grams: "HACKSAW." Dealers in Hardware, Hand Tools, Precision & Measuring Tools, Metal Working Tools, Portable Electric Tools, Garage Tools, Machine Tools, Lathes, Drilling Machines, Dog Chucks & Hacksaw Blades, Vices, Files, Saws, Chain Pulley Blocks, etc.

Ahmedally Jiwabhai & Co.—86-88, Lohar Chawl, Bombay 2.

Akbarally & Co., F. H.—58, Bhajipala Lane, Bombay 3.

Akbarally Mohamedally & Co.—318, Abdul Rehman Street, Bombay 3.

Alfred Herbert (India) Ltd.—Kaiser-i-Hind Building, Sprott Road, Ballard Estate, Bombay 1.

Asian Textile Engineering Corporation.—Kermani Building, Sir Phiroozshah Mehta Road, Fort.

ASIAN TOOLS & HARDWARE STORES.—33, Pathakwadi, Lohar Chawl, Bombay 2. Phone: 20067. Grams: "ASIAN-TOOLS." Kalbadevi, Stockists in Tools for Carpentry, Smithy, Foundry Fittings, Precision, etc., Suppliers to Navy, Engineering Colleges, Polytechnic Institutes and Industrial Training Institutes.

Asiatic Engineers.—Mehta House, Meadows Street, Fort.

Atlas Engineering Co.—Lalgar Chambers, Tamarind Lane, Fort, Bombay.

Automotive Hardware Corp.—93, Narayan Dhuru Street, Bombay 3.

Balcoolal Kela & Co.—General Assurance Building, Hornby Road, Fort.

Bashimal Kanahyalal.—124, Narayan Dhuru Street, Bombay 3.

Batilbol & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No. 255451-55. Grams: "BATLIBOICO." Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore, and Vijayvada. Associates: Bangalore and Secunderabad.

BEHARAT ENGINEERING STORES.—113, Nagdevi Street, Bombay 3. Grams: "UNIONTOOLS."

Bhasin Brothers.—Court House, 1st Floor, Dhobi Talao, Bombay 3.

Bhogilal & Co., R.—261/263, Hornby Road, Fort, Bombay.

Bombay Steel Corporation.—241, Kumbharwada, opp. 2nd Sutar Lane, Bombay 4.

BOMBAY TOOLS SUPPLYING AGENCY.—50, Nagdevi Cross Lane, Bombay 3. Phone: 20328. Grams: "TERRA-TOOLS."

Cambata Industries Private Ltd.—Cambata Building, 42, Queen's Road, Bombay 1.

C. Bole & Co.—Narayan Dhuru Street, Bombay 3.

C. PAREKH & COMPANY.—103, Bhajipala Lane, Bombay 3. Phones: 22666 (Office), 59067 (Res.). Grams: "CIPEKO." Hardware, Tools and Accessories. Sole Selling Agents for B.T.C. Hand Taps for Bombay State.

Central Machine Tools Agency.—43, Nagdevi Cross Lane, Bombay 3.

Central Tool & Equipment Co.—32, Sarang Street, Bombay 3.

Chandawalla Traders.—321, Vithalbhai Patel Road, Bombay 4.

Champion Trades Corporation.—9-13, Dalal Street, Fort.

Chasman & Co.—Bell Building, Sir Phiroozshah Mehta Road, Fort.

Chokal, H., & Co.—106, Meadows Street, Fort.

Cooper Engineering Ltd.—Construction House, Ballard Estate, Bombay.

C. SETHIA & CO.—59, Forbes Street, Bombay 1. Phone: 251695. Grams: "SUKHLAGAR."

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Khambatta Leather Works.—199, Princess Street, Bombay 2. Kashmiri Govt. Arts Emporium.—Sir P. M. Road, Bombay 1. Raliship Stores.—39, Meadows Street, Fort.

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Niraya Sagar Press & Jawaji Dadaji Type Foundry.—26-28, Kolbhat Street, Bombay 2.

Star Type Foundry.—Anesa Chambers, Carnac Road, Bombay 1.

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ASHOK TYPEWRITERS.—40, Cawasji Patel Street, Savia Chambers, Fort, Bombay 1. Dealers in all kinds of Typewriters. Speciality: Sales, Services, Repairs & Hires.

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General Equipment Merchants Ltd.—People's Building, Sir Phiroze Shah Mehta Road, Fort.

General Typewriters (Bombay) Co.—375, Hornby Road, Fort. Jagmohandas Mangaldas & Co.—Lentin Chambers, Dalal Street. Kerala Industries (India).—Manufacturers of Typewriter Spares. 174, Hornby Road, Fort, Bombay.

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Olympia Typewriters.—Ramchandra Building, Carnac Road.

Premier Typewriter Co.—285, Hornby Road, above Kemp & Co., Fort.

Remington Rand of India Limited.—Manufacturers of Remington Rand Business Equipment. Thackersey House, Graham Road, Ballard Estate, Bombay. Phone: 261196 (2 lines). Grams: "REMINGTONS."

Roneo, Ltd.—Navsari Chambers, 99, Bastion Road, Fort.

Sind Typewriting Co.—242, Abdul Rehman Street.

Standard Typewriting Co.—Cama Building, 257, Hornby Road, Fort.

SUNBEAM CO.—29, Ismail Bldg., 381, Hornby Road, Bombay 1. Phone: 251673. Grams: "TYPEWRITER." Typewriters Bought, Sold, Repaired, Given on Hire.

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Volitas Limited.—19, Graham Road, Ballard Estate, Fort.

Western India Typewriter Co.—General Assurance Building, Hornby Road, Fort.

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Dunlop Rubber Co. (India) Ltd.—Dunlop House, Hughes Road.

Firestone Tyre and Rubber Co. of India Ltd.—Hay Bunder Road, Sewree, Bombay.

Foreign Products Distributing Co.—Ramchandra Mansion, 491, Sandhurst Road.

Goodyear Tyre & Rubber Co. of India Ltd.—7-9, Mathew Road.

India Tyre & Rubber Co. (India) Ltd.—Spencer's Building, Forjett Street, Cumballa Hill, Bombay 26. Phones: 73157-8-9.

Mehta Motor Stores.—Banji Nivas, Sandhurst Road.

New Eastern Traders (India) Private Ltd.—10, AvantiKabai Gokhale Street, Bombay 4.

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Asiatic Umbrella Manufacturing Co.—Dev Karan Mansion, 22, Mangaldas Road, Bombay 2.

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Cawnpore Mills Depot.—Churchgate House, Churchgate Street, Fort.

EBRAHIM CURRIM & SONS.—Rahim Building, Princess Street. Umbrella Merchants & Manufacturers of "STAG" Brand Umbrellas. Tel. No. 22238. Grams: "CANOPY."

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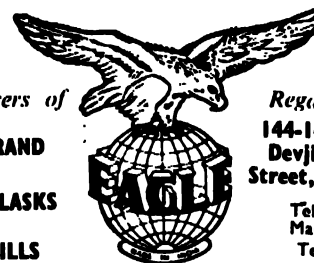
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Grams : "TROJAN."

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Borar Swadeshi Vanaspati.—357, Kalbadevi Road, Bombay 2.

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Bombay 1.

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Ondex (India).—144, Mody Street, Fort, Bombay.

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Diamond Jubilee Washing Company.—Hamam Street, Fort.
Shrahim Alibhai Bros.—15, Sutar Chawl, Bombay 2.

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MANIAR BROS.—6th Duncan Road Cross Lane, Bombay 6. Phone: 41718. Grams: "RAOOF." Dealers in Waste paper, Press cuttings, old Records (Account, Bill books, Letter Files and Documents to be destroyed) and all other Paper Industry Raw Materials.

P. CARLTON & CO.—Calcutta National Bank Bldg., 26-E, Sir Pharooshah Mehta Road, Bombay 1. Phone: Office: 261680.

RUPAREL BROS.—137-139, Kani Sayed Street, Bombay 3. Phone: 23939. Grams: "MANOWEL." Dealers in Waste Paper, Paper Cuttings, Raw Material for Paper Industry.

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ACHARATLAL Z. PAREKH.—272, Masjid Bunder Road, Bombay 3. Grams: "AEEDFI." Direct Importers & Wholesalers of Watches, Timepieces and Clocks. Ask for Price List.

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ALPHA WATCH CO.—Ranade Road, Dadar, Bombay 28. Grams: "CLOCKTICK." Direct Importers & Wholesalers. Sole Agents for **EASTFAIR & JOSEBY.**

Bhagat & Company, L.—Abdul Rehman Street, Bombay 3.

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CHRONILAL CHHAGANLAL (East India Watch Co.)—119, Abdul Rehman Street, Bombay 3. Phone: 23631. Grams: "POSTCARDS." An oldest Importers, Wholesalers and Retail Dealers in Watches, Clocks, Timepieces and Watch Bands. Agents for "Wylex" and "Record" High Grade Swiss Watches.

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Crown Watch Co.—Nanavati Building, 16/18, Abdul Rehman Street, Bombay 3, near Pydhownie.

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D. R. PUNDOLÉ & SONS.—369-371, Dr. Dadabhai Naoroji Road, Fort, Bombay. Sole Manufacturers of "Beaumont" Watches and Clocks and also Agents for "Cyma" Watches.

EASTERN WATCH.—231-3, Heraby Road, Fort. Clocks and Watches, Electric Clocks Specialists. P. O. Box 583. Phone: 261962.

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FAYRE-LEUBA & CO. PRIVATE LTD.—211-219, Dr. Dadabhai Naoroji Road, Fort, P.O. Box 845, BOMBAY. N.E. Corner Dalhousie Square, P.O. Box 474, CALCUTTA. 525, Chandrai Chowk, P.O. Box 2016, DELHI. Telegraphic Address: "FAVRELEUBA." Merchants, Manufacturers, Importers and Distributors—Repairers—Indentors and Commission Agents. Watches and Clocks, Stop Watches, Watchmen's Clocks and Instruments and Allied goods. Representing: Fatak Philippe—Vacheron and Constantin—Jaeger—Le Coultre—L. W. C.—Zenith—Eterna—Favre-Leuba Geneva—Bevet—Sandoz—John Barrel—Jax (alarm timepieces and wall clocks) Favag (electric clock installation). Franklin J. D'Souza & Sons.—26F, Gunbow Street, Fort.

Ganesh Watch Co.—Mayor Building, Tuli Pipe Road, opp. Western Rly. Station, Dadar.

Genrva Watch Co.—97, Abdul Rehman Street, Bombay 3. Grams: "ZEILER."

JAMSHEDJI NOWROJI & CO. PRIVATE LTD.—90, Abdul Rehman Street, Bombay 3. Phone: 29342. Grams: "TIME-HOUSE." Leading Importers, Wholesalers & Retailers of Watches, Clocks & Time-pieces. Agents for German Watch Clearing Machines.

Jawahir Watch Co.—Opp. Western Rly. Station, D'Silva Road, Dadar, Bombay 14.

Jayco Watch Co.—Opp. Crawford Market, Oomrigar Building, Bombay 3.

Jhaveri Bros. & Co.—Meadows Street, Fort.

Jhaveri Watch Co.—62, Abdul Rehman Street, Bombay 3.

Kerala Watch Co.—King Edward Road, Parol, Bombay 12.

KOTHARI WATCH CO.—199A, Princess Street, Bombay 2. Manufacturers' Representatives and Importers of Watches, Timepieces, Clocks and Spare Parts.

LAWRENCE WATCH CO.—Empire Bldg., 180, Dadabhai Naoroji Road, Fort, Bombay 1. Phone: 244318. Grams: "HAIRSPRING." Repairing is our Speciality.

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Maganbhai & Lalubhai.—184-186, Shalkh Memon Street, Bombay 2. Phone: 23785. Grams: "MOTIBUTTON."

MERIDIAN WATCH CO.—269, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone: 263088. Grams: "MERIDIAN." Official Agents for "OMEGA" and "TISSOT" Watches. Nasar Watch Co.—320, Abdul Rehman Street, Bombay 3. Novelties, The.—Hughes Road, Bombay.

ORIENTAL WATCH & GRAMOPHONE CO., THE.—218E, Tuli Pipe Road, Opp. Western Rly. Station, Dadar, Bombay 28. Phone: 62039. Grams: "TIKAM", Bombay-Dadar.

Packard Watch Co.—52-54, Nakhoda Street, near Pydhownie.

Parekh Watch Service.—375-77, Sandhurst Road, Bombay.

Peoples Watch Co. Private Ltd.—177, 179A, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Direct Importers of Watches, Clocks and Alarm Clocks, Spare Parts and Straps. Branch: Rathikatra, Nai Sadak, Delhi. Grams: "SUNDIAL."

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Precision Watch Co., Private Ltd.—127, Abdul Rehman Street, Bombay 3.
Precious Watch.—233, Hornby Road, next to Kemp & Co., Fort.
Pundole Watch Co.—Opp. Lloyds Bank, 269, Hornby Road, Fort. Dealers in Watches, Clocks, Timepieces and Jewellery.
Record Watch Company.—167, Hornby Road, Fort, Bombay.
REPUBLIC WATCH CO.—83, Narayan Dhuru Street, Bombay 3. Grams: "TRADETELL."
Rogers Watch Co.—Prospect Chambers, Hornby Road, Fort, Bombay.
Rolux Watch Company (Eastern) Ltd.—123, Mahatma Gandhi Road, Fort.
SANGEVI WATCH CO.—Khandelwal Bhavan, 170, Dr. Dadabhai Naoroji Road (Hornby Road), Fort, Bombay 1. Phone: 263738. Grams: "DICTATOR." Branch: 47, Abdul Rehman Street, Bombay 3. Phone: 22964. Direct Importers, Wholesalers and Retailers in Watches, Clocks and Timepieces.
Saxonia Watch Co.—Kermani Building, Sir Phirozshah Mehta Road, Fort.
Shakti Watch Co.—48, Abdul Rehman Street, Bombay 3.
SHREE BOMBAY WATCH CO.—160, Dr. Dadabhai Naoroji Road, Bombay 1. Phone: 262694. Grams: "SHRIHOW." Our famous Trade Marks: Shritex, Selecta, Shrihow-Alarm. Sovereign, Clocks—Shriman, Seven Stars, Sundar, Sparrow-Safura, Jaipari.
Sovereign Watch Co.—200, Horn Bazar Street, Bombay 1.
Spencer Watch Co.—Mehta Building, Meadows Street, Fort.
SWISS INDIA WATCH CO.—(Props. : G. Bhagat & Sons), 487, Kalbadevi Road, Bombay 2. Phone: 23732. Grams: "WATCHDEPOT". Direct Importers & Wholesale Dealers in Watches, Clocks & Timepieces.
TIME EQUIPMENT CO.—55, Abdul Rehman Street, P.O. Box 3086, Bombay 3. Manufacturers' Representatives, Importers and Distributors of Watches, Watch parts, Watch makers Tools, Equipment, etc.
Trinity Watch Co.—46A, Abdul Rehman Street, Bombay 3.
Unita Watch Co.—37, Yusuf Building, Mahatma Gandhi Road, Fort.
Vaswani (India) Ltd.—496, Kalbadevi Road, Bombay 2.
VOG & CO.—Empire Building, Dr. Dadabhai Naoroji Road, Bombay 1. Phone: 264108. Grams: "VOGSTRAFS." Manufacturers of quality Watch Straps, Bracelets in Nylon, Stainless Steel & Rolled Gold & Clocks.
WEST END WATCH CO.—49, Mahatma Gandhi Road, P.O. Box No. 504, Fort, Bombay. Watch & Clock Makers, Jewellers & Silversmiths. Tel. Address: "HOROLOGY," Bombay. Phone: 256644.
Wilson Watch Co.—144, Hornby Road, Fort, Bombay. Phone: 261333. Grams: "WILSONTIME".

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GAYTEE & COMPANY.—Janmabhoomi Chambers, Fort Street, Fort, Bombay. Grams: "IMPENG." Phone: 26-3449. Glenfield & Kennedy Ltd.—198, Jamshedji Tata Road, Bombay 1.
JIVRAJ & VRAJLAL.—122, Nagdevi Street, Bombay 3. Phone: 30138. Grams: "SANIPIPES."
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Richardson & Cruddas Ltd.—Byculla, Bombay 8.

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VASI SHUMS & CO. PRIVATE LTD.—165/67, Nagdevi Street, Bombay 3. Phone: 39942. Grams: "WIREROPE." Sole Agents for Bombay State for G.P.I.F. Brand Water Meters. Voltas Ltd.—Ballard Estate, Bombay 1.

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Dossan Harjee.—257-59, Masjid Bunder Road, Bombay 3.
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Gandhi, B. & Co.—26, Kitchen Garden Lane, Bombay 2.

GLADSTONE LYALL & CO., LTD.—Bharat Nagar, 342, Grant Road, Bombay 7. Phone: 76039. Grams: "GLADSWYLL." Bombay Manager: A. V. Ryan. Head Office: 4, Fairlie Place, Calcutta.

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KOOVERJI KARAMSHI TALPATRIWALA—Gaumnakh Bhuvan, opp. Masjid Station, Bombay 9. Phone: 28893. Grams: "DUCK CANVAS." Manufacturers of Waterproof Tarpaulins, Cotton & Jute Canvas. Tarpaulins given on hire.

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HINDUSTAN SCALE CO.—186-188, Janjkar Street, Bombay 3. Direct Importers of COUNTER scales and spring balances. Manufacturers' Representatives. Dealing in all kinds of Scales, Weights, Measurements and Chains in all sizes.

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Batilhol & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No. 255451-55. Grams: "BATLIBOICO." Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore and Vijayvada. Associates: Bangalore and Secunderabad.

Curtis & Co., Ltd.—J.—36-40, Mahalaxmi Bridge Arcade, Bombay 11.

Garlick & Co.—Haines Road, Jacob Circle.

GREAT WESTERN ENGINEERING WORKS.—Sea View, 1st Pasta Lane, Colaba, Bombay 5. Phone: 36016. Grams: "GREWENWORK." Structural & Mechanical Engineers & Contractors. Tank & Railway Equipment Manufacturers & Suppliers.

Himco (India) Private Ltd.—Kurla Road, Andheri, Bombay 41.

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 Kantilal Sanghvi & Co.—Mherwan Building, Sir Phiroosah Mehta Road, Fort.

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GATYEE & COMPANY.—Jannabhooni Chambers, Fort Street, Fort, Bombay. Grams: "IMPENG." Phone: 26-3449.

Himco (India) Private Ltd.—Kurla Road, Andheri, Bombay 41.

James Finlay & Co., Ltd.—Mahatma Gandhi Road, Bombay 1.

JIVRAJ & VRAJLAL.—122, Nagdevi Street, Bombay 3. Phone: 30136. Grams: "SANIPIES."

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ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 29990. Grams: "ALERTDEAL."

Agarwal Commercial Corporation.—35, Bibijan Street, Nagdevi, Bombay 3. Phone: 30041 Extn. 11. Grams: "HACKNAW." Stockists of Engineering Tools, Hardware & Mill (in Stores).

Balilbol & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No. 255451-55. Grams: "BATLIBOICO". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore and Vijayvada. Associates: Bangalore and Secunderabad.

Chokshi & Co.—106, Medows Street, Fort.

Dawson & Co.—24, Parsee Bazar Street, Fort.

DESAI BROTHERS.—80/90, Omrigar Bldg., Lohar Chawl, Bombay 2. Phone: 29258. Grams: "NUTBOLT." Manufacturers of Woodworking Machinery such as Cutters, Knives, Blades for wood-working machines and shearing blades for shearing machines under the Brand "SWAN" and Wood-working Cutters from 18 per cent Tungsten High Speed Steel, etc.

DEWANCHAND NIKKAMALL & CO.—126, Narayan Dhuru Street, Bombay 3. Phone: 20102. Grams: "DHAMI-CHAIN."

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Shreevivas House, Waudby Road, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi, Bangalore, Secunderabad.

Killott Waud & Hill Private Ltd.—Jakhmi Bldg., Sir P. M. Road, Bombay 1.

EVERGREEN CORPORATION.—Gopal Nivas, Lohar Chawl, P.O. Box No. 2733, Bombay 2. Phone: 20891. Grams: "IMPTUBE." Stockists of Carpentry & Blacksmithy Tools & Plants.

Excellent Engineering Co.—11, Botawala Building, Elphinstone Circle, Fort.

Express Commercial Corporation.—Nagdevi Cross Lane, Bombay 3.

GATYEE & COMPANY.—Jannabhooni Chambers, Fort Street, Fort. Phone: 26-3449. Grams: "IMPENG."

Harkishanlal Sonmath & Co.—5, Dhobi Street, Masjid Bunder Road, Bombay 3.

Hemant Tools Trading Co.—33, Bibijan Street, Bombay 3.

HEMCO CORPORATION.—21, Forbes Street, Fort, Bombay 1. Phone: 254237. Grams: "HEMCORP." Importers of Woodworking Machinery, Electric Drills & Grinders, Spray Painting Equipment, Pipe Bending Machines, etc.

James Tool & Hardware Co.—109-11, Nagdevi Street, Bombay 3.

HINDUSTAN ENGINEERING CO.—(Machinery Dept.), 25, Repewalk Street, Rampart Row, Fort, Bombay 1. Telephone: 283583. Grams: "VIDOOALL." Dealers in Imported and Indigenous Bandsaws, Jigsaws, Circularsaws, Jointers, Planers, Spindel Moulders etc.

Hindustan Tools & Hardware Mart.—126, Lohar Chawl, Bombay 2.

HIRALAL & CO.—2, Vitthaladas Road, Near Mangaldas Road, Bombay 2. Phone: 38525. Grams: "WEBSAW." Specialists in saw Mill Stores, Planing knives & cutters.

Janak Engineers.—4th Floor, Lentin Chambers, Dalal Street, Fort. Laxmi Engineering Stores.—154, Kadakia Mansion, Narayan Dhuru Street, Bombay 3.

New India Hardware Mart.—152, Narayan Dhuru Street, Bombay 3.

PRAVIN ENGINEERING CO.—109, Sheikh Memon Street, 1st Floor, Bombay 2. Phone: 20975. Grams: "LOTLUCK." Woodworking Lathes, Bandsaws, Circular Saws, Jigsaws, Sanders, Portable Electric Drills, Thickness Planers, Universal Wood Machines, Mortisers, Grinders, Tools, etc.

RELIABLE ENGINEERING CO.—132, Reay Road, Bombay 10. Manufacturers of all sorts of Woodworking Machineryes, Band Saws, Planers, Sharpeners etc.

Shah Engineering Store.—88-92, Nagdevi Cross Lane, Bombay 3. **Thos. W. Ward (India) Ltd.**—Marshall Building, Ballard Road, Ballard Estate, Fort.

Tirathdas Kotumal.—107, Narayan Dhuru Street, Bombay 3.

WOOL AND HAIR

Beardsell & Co., Ltd., W. A.—"Dhan-Nur", 15/16, Sir Phirozshah Mehta Road, Bombay 1.

Bombay Co., Ltd.—9, Wallace Street, Fort.

Fals & Company.—75, Abdul Rehman Street, Bombay 3.

Hardacre & Co., J.—Himalaya House, Palton Road, Bombay.

Hanahambhoy Aloo Mahomed & Son.—Doshmahomed Building,

Nishanpala Road, Khadak, Bombay 9.

Husein Mussa Virjee & Co.—Sheriff Hasam Building, Khoja Moholla,

Bombay 9.

Mahomedali Esmail.—Stock Exchange Building, Apollo Street, Fort.

Frenji Haridas & Co.—Dhanushali Chambers, Argyle Road,

Bombay 9.

Sethia R. K. (India) Ltd.—Himalaya House, Palton Road, Bombay 1.

Sherali Nanjee.—178, Samuel Street, Vadgadi, Bombay 9.

Shree Krishna Trading Co. Ltd.—11, All Chambers, Meadows Street,

Fort.

WOOLLEN MILLS

Ahmed Abdul Karim Bros. Ltd.—Karim Building, Mohamedally Road, Bombay 3.

Nagpal Woollen Mills.—Darukhana, Reay Road, Mazagaon.

P. Parbhulal & Co. Ltd.—Metropolitan Assurance Building, Hornby

Road, Fort.

Usha Woollen Mills, Ltd., The.—Bhavanishanker Road, Dadar.

WOOLLEN PIECE-GOODS

Ahmed Kbrahim Bros.—88, Chukka Street, Bombay 3.

Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.

Ashay & Co. Ltd.—Great Social Building, Sir Phirozshah Mehta

Road, Fort.

Beardsell, W. A., & Co., Ltd.—15-16, Sir Phirozshah Mehta Road,

Fort.

Cawnpore Mills Depot.—Churchgate House, Churchgate Street, Fort.

Dadani Silk Stores.—24, Landowne Road, near Regal Cinema,

Apollo Bunder.

Eastern Woollen Mills Ltd.—Bhavanishanker Road, Dadar, Bombay.

Godambe Bros.—Buona Cass, Sir Phirozshah Mehta Road, Fort.

GOOLAMALLY HASANJEE (ESTD. 1889).—78, Sheriff Dewjee

Street, Bombay 3. Phone: 30560. Grams: "WARMCLOTH."

Gore & Co.—Great Social Building, Sir Phirozshah Mehta Road,

Fort.

Grand Bazar.—25, Colaba Causeway, Bombay 1.

Hardacre & Co., J.—41, Hanam Street, Fort.

Hasarat & Co.—People's Building, Sir Phirozshah Mehta Road, Fort.

Jagkumar & Co.—Prospect Chambers Annexe, 312/19, Hornby

Road, Fort.

Jivandas Bhausaaji & Co. (Estd. 1925).—Dwarkanesh Galli, Mulji Jetha

Market, Bombay 2.

Jivraj, A. M., & Co.—171, Khoja Moholla, Bombay 9.

Kanshi Ram Kidar Nath.—Vulcan Insurance Bldg., Veer Nariman

Road, Bombay 1.

Kapaldi & Co.—10, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Kidarnath Kishanchand.—106, Meadows Street, Fort, Bombay.

K. Metharam.—490-8, Kalbadevi Road.

Kothari & Sons.—20, Noble Chambers, Parsi Bazar Street, Fort.

Kros & Co.—Podar Chambers, Parsi Bazar Street, Fort.

Madhusudan Gordhandas & Co.—Ganeswadi, Mulji Jetha Market,

P.O. Box 2110, Bombay 2.

MAHENDRALAL, B.—Dwarkanesh Lane, Muljee Jetha Market,

Bombay 2. Phone: 34235. Grams: "SELFHELP". Direct

importers of Woollen & Art Silk & Cotton piece-goods.

M. Mindas & Sons.—190, Princess Street.

Mansukhlal & Co.—Chandra Chowk, 2nd Lane, Mulji Jetha Market, Bombay 2.

P. Parbhulal & Co., Ltd.—Whiteaway Laidlaw Building, Hornby Road, Fort.

P. S. Patel & Co., Ltd.—Mherwan Building, Sir Phirozshah Mehta Road, Fort.

Raymond Woollen Mills Ltd., The.—Thana (C.R.), Bombay.

Roshanali D. Nassur & Co.—68-72, Chhapagalli.

Rowe & Rowe.—381, Hornby Road, Fort.

Sampat Store.—28-30, Swadeshi Market, Kalbadevi Road.

SHARAFALLY LOOKMANJI & SONS (ESTD. 1893).—H.O.:

Chakla Street, Bombay 3. Phone: 30810. Grams: "SARAF-

SO." Branch: 351/53, Sheikh Memon Street, Opp. Mangaldas

Market, Bombay 2.

Shree Krishna Trading Co., Ltd.—11, All Chambers, Tamarind Lane,

Fort.

Valibhai Kamruddin.—101, Abdul Rehman Street, Bombay 3.

V. JAMNADAS & CO.—91-92, Mangaldas Market, 2nd Lane,

Bombay 2. Phone: 26789. Grams: "VIJAWOOL".

Direct Importers, Wholesale & Retail dealers in woollen,

Cotton & Silk Piecegoods.

★ WOOLLEN
SUITINGS
★ TAILORING
★ READYMADE &
★ RAIN COATS

VASHANI & CO.

Opp. V. T. Tram Terminus

148, Dr. D. N. Road, Bombay I

Phone: 262201



Yacoub Ahmed Brothers.—Topiwala Mansion, Mahomedally Road.

WORKSHOP MACHINERY

Agra Engineering Co.—84, Apollo Street, Fort, Bombay 1.

AMRUDIN SHALEBHOY TYEBJEE & SONS.—Shale Bldg.,

2nd Floor, Bank Street, Fort, Bombay. Phone: 252952. Grams:

"PILOTAGE."

EASTERN INDUSTRIAL SYNDICATE.—4, Rutherford Street,

Forbes Street, Bombay 1. Phone: 251919. Grams: "EX-

PLAIN."

HINDUSTAN ENGINEERING CO.—(Machinery Dept.) 25,

Ropewalk Street, Rampart Row, Fort, Bombay 1. Telephone:

253583. Grams: "VIDOOALL". Dealers in Imported and

Indigenous Lathes, Lathe Chucks, Drilling, Hacksaws,

Grinding, Shaping, Shearing Machines and Power Press,

etc.

MARIAN ENGINEERING CO.—7-10, Botawalla Bldg., Horni-

man Circle, Bombay 1. Phone: 252643. Grams: "MECO-

RAILS." Manufacturers & Stockists of Light Railway

Materials, Small Tools, Machine Tools, Hardware, Wheel

Barrows & Portable Electric Tools, etc.

Workshop Engineering & Equipment Co.—30/32, Bhaipala Lane,

Bombay 3.

X-RAY AND ELECTRO-MEDICAL EQUIPMENT

CINE ELECTRONICS.—Tinawalla Bldg., Tribhuvan Road,

Bombay 4. Manufacturers of X-Ray Equipment.

Craftsman Electronic Corporation Ltd.—Alice Building, Hornby

Road, Bombay.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Sole

Agents: Siemens, Reiniger Werke AG. Germany. Shreenivas

House, Waudby Road, Bombay. Phone: 26-2711 (8 Lines).

Offices at Madras, Calcutta, New Delhi, Nagpur, Lucknow,

Bangalore, Secunderabad, Trivandrum.

Fairdeal Corporation Ltd., The.—Lakshmi Building, Sir Phirozshah

Mehta Road, Fort.

Forbes, Forbes Campbell & Co. Private Ltd.—Forbes Building, Home Street, Fort.
 Gordhandas Desai Private Ltd.—Kermani Bldg., Sir P. M. Road, Bombay 1.
 Malgham Bros.—26, Old Custom House Road, Fort.
 Sethlons International Ltd.—12, Rampart Row, Fort.
 SEAN, M., & CO.—Kamji Mansion, Sandhurst Road, Bombay 4.
 Phone : 71834.

X-RAY FILMS AND ACCESSORIES

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Sole Agents : Siemens Reiniger Werke A.G. Germany. Shreevinas House, Waudby Road, Bombay. Phone : 262711 (8 lines). Offices at Madras, Calcutta, New Delhi, Nagpur, Lucknow, Bangalore, Secunderabad, Trivandrum.

ILFORD-SELO (INDIA) PRIVATE LIMITED.—Cook's Building, Dr. Dadabhai Naoroji Road. Branches : Calcutta, Madras, New Delhi.

X-RAY MACHINERY IMPORTERS

Craftsman Electronic Corporation Ltd.—Alice Building, Hornby Road, Bombay.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Sole Agents : Siemens Reiniger Werke A.G. Germany. Shreevinas House, Waudby Road, Bombay. Phone : 262711 (8 lines). Offices at Madras, Calcutta, New Delhi, Nagpur, Lucknow, Bangalore, Secunderabad, Trivandrum.
 Gordhandas Desai Private Ltd., Kermani Bldg., Sir P. M. Road, Bombay, 1.

General Radio & Appliances, Ltd. (Formerly Fasalbhoy Ltd.).—16, New Queen's Road, Bombay 4.

YARN MERCHANTS & EXPORTERS

Ahmed Ebrahim Bros.—88, Chukla Street, Bombay 3.
 Allied Exporters.—Kummud House, 267, Hornby Road, Fort.
 Almeida J. C.—National Insurance Building, 1st Floor, 27, Bastion Road, Bombay.

Anratlal Hiratal & Co.—37-41, New Vora Building, Tambakanta, Bombay 2.

Arthur Import Export Co.—186, Hornby Road, Fort, Bombay. Phone : 33076. Gram : "FABYARN."

Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.
 Asahi Chemical Distributing Company.—National Insurance Building, 1st Floor, 27, Bastion Road, Fort, Bombay. Phone : Office : 263708.

Askay & Co. Ltd.—Great Social Building, Sir Phiroozshah Mehta Road, Fort.

Aspden Ltd.—Prince's Chambers, Colaba Road, Colaba.

Beardsell & Co., Ltd., W. A.—15/16, Sir Phiroozshah Mehta Road, Fort.
 David Sassoon & Co., Ltd.—Maneckji Wadia Building, 127, Mahatma Gandhi Road, Fort.

Eastern Trading Co.—Mahakali Chawl, Pydhonie, Bombay 3.
 Firoz Trading Co. Ltd.—Kamar Building, Cawasji Patel Street, Fort.

Gorakhran Gokalehand (Estd. 1891).—Choksi Chambers, Zaveri Bazar, Bombay 2.

Gore & Co.—Great Social Building, Sir Phiroozshah Mehta Road, Fort.

Gurdial Naraindass & Co.—Patel Building, New Silk Bazar, Bombay 2.

Hardacre & Co., J.—Himalaya House, Palton Road, Bombay 1.

Hazrat & Co.—Warden House, Sir Phiroozshah Mehta Road, Fort.
 Hemandas Dolmal.—56/A, Abdul Rehman St. 1st Floor, Bombay 3.
 Phone : 39959.

Herbertsons Ltd.—11/13, Elphinstone Circle, Fort.

Hindersingh & Co.—38, Abdul Rehman Street, Bombay 3.
 Hind Trading Co.—Ali Chambers, Tamarind Lane, Fort.

Hindustan Export & Import Corp. Ltd.—Albert Building, Hornby Road, Fort.

H. V. M. Moosa Motiwala & Sons, Ltd.—91, Mahomedally Road, Bombay 3.

Italindia Cotton Co., Ltd.—(Estd. 1922), Indian Globe Chambers, Fort Street, Fort, Bombay.

Jay Bharat Yarn Trading Co.—Tambakanta, Pydhonie, Bombay 3.
 Jayashankar Nathalal & Co.—5, Ali Chambers, Tamarind Lane, Fort.

Jehangir J. M. Poonjajee.—Byramjee Mansion, Sir Phiroozshah Mehta Road, Fort.

Kanshi Ram Kidar Nath.—Vulcan Insurance Building, Churchgate Street, Bombay.

Kapadia Trading Co.—Botawalla Building, New Silk Bazar, Kalbadevi Road, Bombay 2.

Kavarana, E. F., & Co.—Botawalla Building, Bomanji Master Road, Bombay 2.

Keshavlji Virji & Co.—3, Elphinstone Circle, Fort.

KESHAVAL TALAKCHAND (PRIVATE) LTD.—India House, Opp. G.P.O., Fort, Bombay 1. Phone : 262934. Grams : "CHANDRODAY." Branches at Ahmedabad, Sholapur, Coimbatore, Madras and Salem. Agencies at London, Manchester and Addis Ababa.

Khurya Company Ltd.—Head Office : Beaumont Chambers, 27/38, Meadows Street, Fort.

Kishinchand & Co. (India).—188, Hornby Road, Fort.

Kotak & Co.—Menkwa Building, Outram Road, Fort.

Kros & Co.—Podar Chambers, Parsi Bazar Street, Fort.

K. Motilal & Co.—Sayee Building, 143, Princess Street, Bombay 2.

Latham Abercrombie & Co. Private Ltd.—Forbes Building, Home Street, Fort.

L. N. Mehta & Sons.—Laxmi Building, Sir Phiroozshah Mehta Road.

Mehta & Co., P. N.—Cook's Building, 324, Hornby Road, Fort.

Madhavai, S., & Co.—Noble Chambers, Parsi Bazar Street, Fort.

Maganlal Parbhudas.—Nakhoda Street, Pydhonie.

Mahendrakumar & Co.—Central Bank Building, Esplanade Road, Fort.

Manekji & Co.—17, Gunbow Street, Fort.

Manubhai Gokaldas.—89, Old Vora Mala, Tambakanta, Bombay 3.

Moosawalla, H. V. M., & Sons, Ltd.—Rangwalia Building, 91, Mahomedally Road, Bombay 3.

Morarji Velji & Sons.—7, Kolbhat Street, Post Box 2001, Bombay 2.

Pannalal Ramdayal Chindak.—153, Princess Street, Bombay 2.

Pavri Sons & Co.—93/97, Basargate Street, Fort.

Pestonjee, B. N.—Halecyon Lodge, Varcha Gandhi Road, New Gamdevi, Bombay 7.

Podar Trading Co., Ltd.—Podar Chambers, Parsi Bazar Street, Fort.

Pralhadbhai Nagarbhai.—386, Linking Road, Khar, Bombay 21.

Ramechand Ambiram.—Above Govind Chowk, M. J. Market, Bombay 2.

Ramdas Khimji Bros.—Warden House, Sir Phiroozshah Mehta Road, Fort.

Ramkisanadas Sagarmal.—Kalyan Bhuvan, 354, Kalbadevi Road.

Rangoonwalla, H. N.—Rangoonwalla Building, 91, Mahomedally Road.

Rattal Dahyabhai Shah.—Hanuman Building, Tambakanta, Pydhonie, Bombay 3.

Sapt Textile Products (India) Ltd.—Sapt Building, Graham Road, Ballard Estate.

SHAMSUNDER KHANNA & SONS PRIVATE LTD.—81, Dadaji Dackjee Bldg., World, Bombay 18. Phone : 75282. Grams : "NYLOCREPE". Importers, Exporters & Agents.

Dealing in Cotton, Rayon & Synthetic Yarns.

Sorabji Nowroji & Co.—16, Horniman Circle, Fort.

Star Rope Works, The.—87, Sun Mill Road, Lower Parel, Bombay 18.

Subodhchandra Popatlal.—(Estd. 1915). Exporters & Importers, 223-25, Sheikh Memon Street, Bombay 2.

Suehn & Co.—65, Lakshmi Building, Sir Phiroozshah Mehta Road, Fort.

Surat Yarn Exchange Co.—141, Princess Street, Bombay 2.

Tavaria Brothers.—Dhun Nur, Sir Phiroozshah Mehta Road, Fort.

Textile Works Ltd.—49-55, Apollo Street, Fort.

Vadilal Vrajilal & Co.—Peerbhoy Building No. 2, 89, Prince's Street, Bombay 2.

Western Link Co.—19, Bank Street, Fort.

Yacoob Ahmed Brothers.—Topiwala Mansion, Mahomedally Road.

Yarn Trading Co.—95, Tamba Kanta, Bombay 3.

ZINC SHEET

Non-Ferrous Metal Refinery.—5, Chintamani Temple Building, 2nd Bhoiwada, Bombay 2.

ZIP FASTENER MFRS.

FLEET FASTENERS (PRIVATE) LTD.—Dahanukar Building, 480, Kalbadevi Road, Bombay 2. Phone : 27-511. Grams : "FLEETFAST". Manufacturers of Fleet—the Quality Zipper.

HOME INDUSTRIES CORPORATION.—64, Commercial Chambers, Masjid Bunder Road, Bombay 3. Phone : 34997. Grams : "DESHEUNAR." Mfrs. of Zip Fasteners of all sizes and lengths.

L. R. TRADING CO.—Manufacturers of 'FLASH' Zip Fasteners, Navsari Chambers, Outram Road, Fort, Bombay 1. P.O. Box 72. Phones : 263141 & 264073. Grams : "SHAKANICO".

MADHU FASTENERS CO.—Manufacturers of Zip Fasteners, Sanghavi Chambers, 27, Ghoga Street, Fort, Bombay. Phones : 253502 (Office), 40634 (Res.).

AHMEDABAD DISTRICT

Headquarters: Ahmedabad.

Talukas or Mahals: Daskroi, Dhandhuka-Ranpur, Dholka, Dehgam, Virangam, City Taluka, Sanand.

A district in Gujarat belonging to the Ahmedabad Division of Bombay State, it lies between North Latitude 23° 23' and 23° 37' and East Longitude 71° 21' and 70° 28'. It is bounded on the north by Mehsana and Sabarkantha Districts, on the west by Zalaud District, on the south by Gohilwad District and on the east by Kaira. The total area of the District is 3,529 sq. miles. The population is 1,085,630. The language spoken is Gujarati.

In the extreme south of the District and also just beyond the northern boundary are a few rocky hills. But between these two points the whole District forms a level plain, gradually rising towards the north and east. The chief physical feature is the river Sabarmati which rises in the north-east, near the extremity of the Aravalli Range and flows towards the south-west falling finally into the Gulf of Cambay.

The District as a whole is open and poorly wooded. The chief trees are mango, sayan, mahua and nim. Many of the trees and shrubs supply food, medicines and material for dyeing and tanning.

The rainfall varies but slightly between the central portions of the District and the outlying tracts. The annual rainfall averages about 80 inches.

The principal towns in the District are besides Ahmedabad, Virangam, Dholka, Daskroi, Dhandhuka, Dholera, Dehgam and Sanand. Dehgam taluka has been selected for development under the village extension services scheme.

The chief food crops are wheat, jowar and bajra and the chief money crop, cotton. The best rice is grown in Daskroi and the next best in Sanand and Dholka. The cotton which has a good staple is mainly grown in the Dhandhuka and Dholka Talukas. In Daskroi and Dholka many garden crops are also grown.

Ahmedabad city which is the second biggest textile centre in India is the only large industrial area in the District. The number of textile mills and factories is about 180 including 71 textile mills with a total number of 2,078,618 spindles and 41,675 looms and employing a daily average number of 1,31,239 workers, as on August 31, 1958. The approximate quantity of cotton consumed in 1958 was 712,856 bales of 392 lbs. per bale. The Employees' State Insurance Scheme for workers and their families has been started since March 1959. Ahmedabad is also a centre of railway communications. One line from Ahmedabad goes south-east to Baroda and Bombay; another goes south to Dholka; a third goes west to Virangam where it joins the Saurashtra railway system; a fourth goes north-east through Parantij; and a fifth north through Palanpur and Ajmer. Ahmedabad has also a number of archaeological landmarks and an international diversionary airport. Ahmedabad's 50-Kilo Watt Broadcasting station is equipped to reach even remote villages in Gujarat, Saurashtra and Kutch.

With the establishment of the Gujarat University, Ahmedabad has become an important educational centre. It has over 21,000 alumni in Gujarat, Saurashtra and Kutch. The Ahmedabad Textile Industry's Research Association is the first institute of its kind in the whole of India. Ahmedabad is linked by air with Bombay, Jaipur, Delhi and Karachi.

The population of Ahmedabad City according to the 1951 census is 788,333. Ahmedabad Corporation was established in 1950.

AHMEDABAD MUNICIPAL CORPORATION

Mayor: Chinubhai Chimanlal.

Ward numbers and the names of members representing those Wards: —

Ward No. 1: Ochanlal S. Talati; Krishnalal T. Desai; Ramniklal S. Inamdar; **Ward No. 2:** Jesingbhai B. Vakil; Martandrai G. Shastri; Ramanlal Vadilal; **Ward No. 3:** Chinubhai Chimanlal Seth (*Mayor*); Chandrakant C. Gandhi; Daudbhai Hasambhai; Narottam Chandulal; Prabodhchandra C. Rawal; **Ward No. 4:** Gulam Mohiuddin; Rajabhai Munshi; Natverlal Nathalal; Narottamdas K. Zaveri; Maneklal N. Patel; Somabhai Chhakadhbhai; **Ward No. 5:** Manubhai H. Palkhiwala; Vishwabandhu P. Desai; Abdulkasim Abdulkadar Kakiwala; Bhagwatiprasad Ranchhodlal; Chimanlal Maneklal; **Ward No. 6:** Punjalal Jethalal; Smt. Kusumben Panachand; Vasudev N. Tripathi; Ishwarlal M. Bhavsar; Samsuddin Gulemnaabi; **Ward No. 7:** Atmaram Lallubhai; Hariprasad N. Vyas; Kantilal L. Parikh; Ganibhai Sultanji; Kasamji Jamajji; **Ward No. 8:** Becharadas V. Chavda; Ranjankumar K. Nanavaty; Ibrahim Rehmanji; Rajnikant Chandulal; **Ward No. 9:** Jayantilal Bhikabhai; Dattabhai Kalidas; Somabhai Lallubhai; **Ward No. 10:** Gemarabhai Ranchhodhbhai; Smt. Pushpavati Kantilal; Mulsingh Dhulaji; Lakhaji K. Thakore; **Ward No. 11:** Ganpatbhai T. Jadhav; Prahladbhai Jijibhai; Madhavilal M. Patel; Mangaji Mathurji; **Ward No. 12:** Ramanlal M. Parmar; Shambhubhai S. Patel; Harilal Ranchhodlal; Budhabhai Chimanlal; Natverlal Chunilal; **Ward No. 13:** Lalbhai Fakirbhai; Jethalal Narasibhai; Jeevanlal Jamnadas; Udasing Dhansing; **Ward No. 14:** Magan M. Parmar; Kantilal N. Patel; Ismailbhai B. Mansuri; Umarbhai Yakubhai; **Ward No. 15:** Virsinh Muljibhai Jadhav; Smt. Kusumben Manilal; Alabaksh Noorbhai; Maganlal Uttamram Vyas.

The civic elections in Ahmedabad are held quadrennially. The first elections were held in March 1952, the second in April 1957.

The electorate of 3,70,000 is divided into 15 wards.

CHAIRMEN OF THE COMMITTEES

Standing Committee: Ramniklal Sundarlal Inamdar; **Recreation and Cultural Committee:** Natverlal Nathalal Vakil; **Refuse and Sewage Committee:** Jesingbhai Bhogilal Vakil; **Health Committee:** Jayantilal Bhikabhai Sheth; **Public Works Committee:** Narottamdas Keshavalal Zaveri; **Town Planning Committee:** Dattabhai Kalidas Patel; **Legal Committee:** Chandrakant C. Gandhi; **Transport Committee:** Narottamdas C. Sheth; **Chairman, School Board:** Krishnalal T. Desai.

ADMINISTRATIVE PERSONNEL

Municipal Commissioner: K. M. Kantawala, B.S.E. (Class I).
Deputy Municipal Commissioners: A. S. Thakore, B.A.; N. H. Thacker, M.Com., LL.M.
Municipal Secretary: M. K. Adhyaru, B.A. (Hons.), L.S.G.D.
Chief Accountant: N. V. Parikh, B.Com.
Town Development Officer: P. J. Patel, B.E. (Civil).
State and City Improvement Officer: J. T. Patel, B.E. (Civil).
City Engineer: M. J. Kakkad, A.M.I.C.E.
Medical Officer of Health: Dr. A. P. Dikshit, M.B.B.S., D.Ph.
Chief Auditor: S. K. Patel, B.Sc.
Maintenance Engineer and P. A. to City Engineer: Manibhai M. Patel, B.E. (Civil), A.M.I.E.
Supdt., Seth Lallubhai Gordhandas Hospital: Dr. J. T. Bhatt, M.D.D., T.M.
Supdt., Sheth Vadilal Sarabhai General Hospital: Dr. M. D. Desai, M.D.
Chief Officer, Fire Brigade: J. K. Munshi, A.G.I.C.D.

EDUCATIONAL INSTITUTIONS

GUJARAT UNIVERSITY

(Ahmedabad)

The Gujarat University is a Teaching and Affiliating University established in 1949 under an act of the State Legislature and incorporated by the Bombay Government in November 1950.

The Affiliated Colleges and Recognised Institutions are:—The H. L. College of Commerce, Navrangpura, Ahmedabad 9; The L. D. Arts College and M.G. Science Institute, Navrangpura, Ahmedabad 9; The L. M. College of Pharmacy, Navrangpura, Ahmedabad 9; The L. D. College of Engineering, Navrangpura, Ahmedabad 9; The Gujarat College, Ellis Bridge, Ahmedabad 6; Sir Lallubhai Shah Law College, Ellis Bridge, Ahmedabad 6; The B. J. Medical College, Asarwa, Ahmedabad 11; The J. & J. College of Science and C. B. Patel Arts Institute, Nadiad; The Petlad College, Petlad; The S. B. Garda College and B. P. Baria Science Institute, Navsari; The M.T.B. College, Athwa Lines, Surat; The K. P. College of Commerce, Athwa Lines, Surat; The Sarvajani Law College, Civil Lines, Surat; The A. N. College, Visnagar, Dist. Mehsana, N. G.; The Samaldas College, Bhavnagar; The Bahauddin College, Junagadh; The Dharmendrasinhji College, Rajkot; The M. J. College of Commerce, Bhavnagar; Lukhdhirji Engineering College, Morvi, Saurashtra; A. G. Teachers' College, Navrangpura, Ahmedabad 9; Darbar Gopaldas Mahavidyalaya, Aliabada (Halar); The Ramji Ravji Lalan College, Bhuj (Kutch); Mahila Maha Vidyalaya, Porbandar; The Jayendrapuri Arts and Science College, Broach; The Ramanand Mahavidyalaya "Shantiladan", Mirzapur Road, Lal Darwaja, Ahmedabad; The Shreyas Arts and Science College, Khajuri Bungalow, Shahibag, Ahmedabad; The St. Xavier's College, Ellis Bridge, Ahmedabad 6; The A. M. Parekh Law College, Rajkot; The M. P. Shah Medical College, Jamnagar; The Rama Graduate Teachers' College, Porbandar; The Balabhai Damodardas Arts College, Sankdi Sheri, Ahmedabad 1; The Sarvodaya Kelavani Mandal Arts College, City Mill Compound, Kankaria Road, Ahmedabad; The B. M. Shah Intermediate Arts College, Bhavnagar; The D. K. V. Arts and Science College, Jamnagar; The M. P. Shah Arts and Science College, Surendranagar; The Sheth H. A. College of Commerce, Ellis Bridge, Ahmedabad 6; The Prakash Arts College, Tilak Road, Ahmedabad 6; The Ayurvedic Mahavidyalaya, Jamnagar; The P. D. Malaviya College of Commerce, Rajkot; Shri Nutan Kelavani Mandal Arts and Science College, Bulsar; Arts College, Dabhol (Dt. Baroda); City Law College, Lal Darwaja, Ahmedabad; O. H. Nazar Ayurved Mahavidyalaya, Surat.

Recognised Institutions :—Sheth Bholabhai Jashingbhai Institute of Learning and Research, Bhadra, Ahmedabad; The Physical Research Laboratory, Navrangpura, Ahmedabad 9; Sheth Vaddal Sarabhai General Hospital and Sheth Chinai Maternity Home, Ellis Bridge, Ahmedabad; The Ahmedabad Textile Industry's Research Association, Navrangpura, Ahmedabad 9; The B. M. Institute of Psychology and Child Development, Ellis Bridge, Ahmedabad.

The Senate ordinarily meets once a year on a date fixed by the Chancellor and at such other times, as may be convened by the Vice-Chancellor. A meeting of the Senate must also be convened on a requisition by twenty-five members of the Senate.

There are eight Faculties, viz., Arts including Education, Science, Technology including Engineering, Agriculture, Law, Medicine, Commerce and Ayurvedic Medicine. The executive powers vest in the Syndicate and the Academic Council is the chief Academic body of the University.

Ordinarily the period of the tenure of office of members of the Senate is five years, and that of the members of the Syndicate and the Academic Council is three years.

Chancellor.—Sri Prakasa, B.A. (Allahabad), B.A., LL.B. (Cantab.), Bar-at-Law.

Vice-Chancellor.—M. P. Desai.

Registrar.—K. C. Parikh, M.A., LL.B.

Dy. Registrar : J. M. Mehta, B.Sc., B.T.

Asstt. Registrar : S. P. Medh, B.A., LL.B.

Librarian.—K. R. Desai.

Accountant.—B. M. Patel, B.Com., A.C.A.

Chief Medical Officer.—K. A. Shah, M.B.B.S.

Director of Physical Education.—V. P. Mehta, B.Sc., Dip. Phy. Ed.

Director, University School of Social Sciences.—B. R. Shenoy, M.A. (Banaras), M.Sc. (Econ.) (Lond.).

Director, University School of Gujarati Language and Literature.—Umashanker J. Joshi, M.A.

Director, University School of Psychology.—Dr. P. H. Prabhu, B.A. (Hons.), LL.B., Ph.D., F.A. (Psy.), A. (U.S.A.).

Deans.—Prin. K. L. Desai, M.A., LL.B., B.A. (Cantab.), Faculty of Arts including Education; Dr. Y. G. Nalk, M.Sc., Ph.D., Faculty of Science; Prin. T. A. Desai, B.Sc. (Eng.), A.M.I.E., M.E.A., Faculty

of Technology including Engineering; H. P. Shukla, B.A., LL.B., Faculty of Law; Dr. N. H. Desai, M.B.B.S. (Bom.) M.D. (Lond.), M.R.C.P. (Lond.), Faculty of Medicine; Prin. S. V. Desai, M.S. (Columbia), Faculty of Commerce; V. V. Valdiya, Faculty of Ayurvedic Medicine.

SENATE

EX-OFFICIO MEMBERS

Sri Prakasa, B.A. (Allahabad), B.A., LL.B. (Cantab.), Bar-at-Law (Chancellor); M. P. Desai (Vice-Chancellor); H. V. Divatia, M.A., LL.B. (Ex-Vice-Chancellor); Vacant (Rector); K. C. Parikh, M.A., LL.B. (Registrar); Mr. Justice J. C. Shah (Nominated by the Chief Justice of Bombay); Hittendra K. Desai, B.A., LL.B. (Minister of Education, Bombay); T. M. Advani, M.A., LL.B. (Vice-Chancellor, University of Bombay); D. G. Karve, M.A. (Vice-Chancellor, Poona University); Dr. J. M. Mehta, (Vice-Chancellor, M. S. University of Baroda); Mr. Justice G. B. Badkha, M.A., LL.B. (Vice-Chancellor, Nagpur Univ., Nagpur); Dr. Premilla V. Thackersey, D. Litt. (Vice-Chancellor, S. N. D. T. Women's University); S. R. Dongerkory, B.A., LL.B. (Vice-Chancellor, Marathwada University); Babubhai J. Patel, B.A., LL.B. (Vice-Chancellor, Sardar Vallabhbhai Vidyapith); Dr. A. G. Pawar, M.A., Ph.D. (Director of Education); T. N. Tolani, B.E. (Mech.), M.I.E. (Ind.), M. R. Nan. I. (Lond.), (Director of Technical Education); Dr. D. P. Sethna, M.B.B.S. (Bom.), L.R.C.P. (Lond.), M.R.C.S. (Eng.) (Surgeon-General); S. P. Mohite, I.A.S. (Director of Agriculture); Dr. M. R. Mandlekar, D.I.C., Ph.D. (Lond.), (Director of Industries); U. N. Mahida, B.E., M.I.E. (Ind.), I.S.E. (Chief Engineer, Govt. of Bombay); R. D. Joshi, M.Sc., A.I.F.C. (Conservator of Forests); Morarji R. Desai (Vice-Chancellor, Gujarat Vidyapith).

Heads of University Departments.—Prof. B. R. Shenoy, M.A. (Banaras), M.Sc. (Econ.) (Lond.) (Director, University School of Social Sciences).

Prof. Umashanker J. Joshi, M.A. (Director, University School of Gujarati Language and Literature).

Dr. P. H. Prabhu, B.A. (Hons.), LL.B., Ph.D., F.A. (Psy.), A. (U.S.A.) (Director, University School of Psychology).

The Principals of affiliated colleges are also ex-officio. For the list of affiliated colleges, see above.

Heads of Recognised Institutions.—R. C. Parikh, B.A. (Hons.); Dr. K. R. Ramanathan, M.A., D.Sc., F.N.I.; Dr. M. D. Desai, M.B., F.R.C.S., M.Ch. (Orth.); Dr. T. S. Subramaniam, D.Sc.; Dr. H. P. Maiti, M.A. (Phil.), M.A. (Psy.).

Class II—Ordinary Members.—(a) (i) Elected by Secondary Teachers of High Schools (4), J. L. Mistry; G. B. Dsa; J. D. Desai, B.Sc., B.T.; D. M. Shah, B.A., LL.B., B.T.; (ii) Elected by Headmasters of High Schools (2), C. C. Shah, M.A., B.T., LL.B.; C. P. Patel, B.A.; (iii) Elected by teachers in the Faculty of Arts including Education (6), V. M. Shah, M.A.; J. S. Jetly, M.A., Ph.D.; C. J. Patel, M.A.; Vishnu-prasad R. Trivedi, M.A.; H. G. Shastri, M.A., Ph.D.; P. G. Mavlankar, M.A.; (b) Elected by teachers in the Faculty of Sciences (6), Dr. Chhotubhai M. Desai, B.Sc., Ph.D.; Dr. Ashvinkumar M. Trivedi, M.Sc. (Bom.), Ph.D. (Edin.); Dr. U. D. Desai, M.Sc., Ph.D.; P. D. Pathak, M.Sc.; Vasudev A. Vyas, M.Sc.; Smt. Hemlata J. Kazi, M.Sc., Ph.D., F.A.I.C. (Lond.); (c) Elected by teachers in the Faculty of Technology including Engineering (4), vacant; P. S. Kalwachwala, B.E. (Civil), A.M.I.E.; M. M. Patel, B.E. (Mech.), B.E. (Civil), A.M.I.E. (India), A.M.E.A. (India); (d) Elected by teachers in the Faculty of Agriculture (2), Vacant; Vacant; (e) Elected by teachers in the Faculty of Law (2), M. S. Pandit, B.A., LL.B.; D. D. Desai, B.A., LL.B.; (f) Elected by teachers in the Faculty of Medicine (4), Dr. Narosh B. Anklesaria, M.B., B.S., M.D.; Dr. Motilal D. Patel, M.B., B.S., F.R.C.S. (Eng.), D.L.O. (Lond.); Dr. A. Daniel Joseph, M.B., B.S., F.C.P.S., M.D.; Dr. C. R. Mehta, M.Sc., Ph.D.; (g) Elected by teachers in the Faculty of Commerce (2), G. R. Desai, M.A.; K. M. Talati, M.A.; Elected by Municipal School Boards of Authorised Municipalities (2), C. C. Desai, B.A., LL.B.; A. B. Pandya; Elected by District School Boards (2), R. N. Shah, B.A., LL.B.; Lallubhai H. Patel, M.A., LL.B.; Elected by the Bombay Legislative Assembly (4), R. T. Maniar, B.A. (Hons.), LL.B.; J. G. Dalal; J. G. Valdiya, B.A., LL.B.; K. V. Mehta; Elected by the Bombay Legislative Council (1), Prabhudas B. Patwari; Elected by the Ahmedabad Millioners Association (1), Sheth Navnitlal S. Shodhan; Elected by the Registered Trade Unions (1), Sonanath P. Dave, B.A., LL.B.; Elected by the Registered Graduates—(i) under the Faculty of Arts including Education (4), Ranganand M. Shah, M.A.; Devendra J. Joshi, M.A.; Smt. Usha K. Munshaw; J. R. Desai; (ii) under the Faculty of Science (2), Yeshwant H. Divan, B.Sc.; Ranjit G. Shastri, B.Sc.; (iii) under the Faculty of Technology including Engineering (2), M. M. Patel, B.E. (Civil), A.M.I.E.; S. S. Divatia, B.E., I.C.E.; (iv) under the Faculty of Agriculture (2), D. J. Jhale, M.Sc. (Agriculture); Y. T. Desai, B.A. (Bom.), M.Sc. (Econ.) (Lond.); (v) under the Faculty of Law (2), Balubhai H. Desai, B.A., LL.B.; Himmatlal P. Shukla, B.A., LL.B.; (vi) under the Faculty of Medicine (2), Dr. Nanubhai R. Desai, M.B.B.S. (Bom.), F.R.C.S. (Eng.); Dr. Jitendra J. Desai, M.B.B.S.; (vii) under the Faculty of Commerce

(2), Ambalal M. Naik, M.Com., LL.B.; Hariprasad V. Vasa, B.Com., LL.B., A.C.A.; *Elected by Donors* (5), B. K. Muzumdar, M.A., B.Com. (Lond.); B. Harivallabhdas; Munubhai C. Patel; Arvindbhai N. Sheth, B.Sc. (Hons.); Shrenikbhai K. Sheth, B.S. (M.I.T., U.S.A.), M.B.A. (Harvard); *Elected by the Ahmedabad Municipal Corporation* (1), K. T. Desai, B.A., LL.B.

Nominated by the Chancellor (20).—Dr. R. M. Parikh, M.S., F.I.C.S.; Jadavbhai Keshavlji Modi, B.A., LL.B.; G. C. Oza, B.A.; Balwantrao Gopalji Mehta, B.A.; Dr. Pranjivan M. Mehta, M.D., M.S., F.C.P.S., F.Y.C.S.; Sheth Kasturbhai Lalbhai; Sheth Amritlal Hargovandas, B.A., LL.B.; Popatlal G. Shah, M.A., B.Sc.; T. M. Desai, B.A.; Dr. Vikram A. Sarabhai, Ph.D.; Dr. Bhaskar B. Patel, M.D., M.R.C.P., T.D.D.; Muldas B. Valshya; Vallabhbhai Vaidya; N. L. Ahmed, M.A., B.Litt.; Prof. A. M. Raval, M.A.; L. C. Gandhi, M.A., LL.B., B.Sc.; Dr. N. H. Desai, M.B.B.S. (Bom.), M.D. (Lond.), M.R.C.P. (Lond.); B. P. Shah, B.A., LL.B.; Dr. H. D. Sankalia, M.A., LL.B., Ph.D. (Lond.); S. R. Vasavada, M.L.A.

SYNDCATE

EX-OFFICIO

Maganbhai P. Desai (Vice-Chancellor); (Vacant) (Rector); Dr. A. G. Pawar, M.A., Ph.D. (Director of Education).

Dean elected by the Deans of Faculties (1), H. P. Shukla, B.A., LL.B.; **Members elected by Senate** (10), Batubhai H. Desai, B.A., LL.B.; N. S. Shodhan; S. M. Shah, M.A.; Dr. Bhaskar B. Patel, M.D., M.R.C.P., T.D.D.; A. M. Naik, M.Com., LL.B.; J. R. Desai; Dr. N. R. Desai, M.B.B.S. (Bom.), F.R.C.S. (Eng.); B. P. Shah, B.A., LL.B.; Dr. Vikram A. Sarabhai, Ph.D.; Dr. M. D. Patel, F.R.C.S. (Eng.), D.L.O. (Lond.).

Elected by the Heads of the University Departments (1), Prof. U. J. Joshi, M.A.

Principals elected by the Principals of Colleges in the Gujarat University Area (4), L. R. Desai, B.A., B.T. (Bom.), T.D. (Lond.); S. V. Desai, M.S. (Columbia); Dr. K. G. Naik, M.A. (Bom.), D.Sc. (Lond.), F.R.I.C., F.N.I.; T. A. Desai, B.Sc. (Eng.), A.M.I.E., M.E.A.

ACADEMIC COUNCIL

EX-OFFICIO

Maganbhai P. Desai (Vice-Chancellor); (Vacant) (Rector); K. G. Parikh, M.A., LL.B. (Registrar).

Deans of the Faculties, Prin. K. L. Desai, M.A., LL.B. (Faculty of Arts including Education); Dr. Y. G. Naik, M.Sc., Ph.D. (Faculty of Science); T. A. Desai, B.Sc. (Eng.), M.I.E., M.A.A. (Faculty of Technology including Engineering); (Vacant) (Faculty of Agriculture); H. P. Shukla, B.A., LL.B. (Faculty of Law); Dr. N. H. Desai, M.B., B.S. (Bombay), M.D. (Lond.), M.R.C.P. (Lond.) (Faculty of Medicine); S. V. Desai, M.S. (Columbia) (Faculty of Commerce); V. V. Vaidya (Faculty of Ayurvedic Medicine).

Heads of University Departments, B. R. Shenoy, M.A., M.Sc. (Econ.) (Lond.); Umashankar J. Joshi, M.A.; Dr. P. H. Prabhu, B.A. (Hons.), LL.B., Ph.D., F.A. (PSY.), A. (U.S.A.).

Chairmen of the Boards of Studies, under the Faculty of Arts including Education, Prof. V. R. Trivedi, M.A. (Chairman of the Board of Studies in Gujarati); Prin. G. R. Kotwal, M.A., D. Litt. (Oxon.) (Chairman of the Board of Studies in Marathi); Prof. S. R. Bhatt, M.A., LL.B. (Chairman of the Board of Studies in Hindi); Prin. K. L. Desai, M.A., LL.B., B.A. (Cantab.) (Chairman of the Board of Studies in English); D. R. Mankad, M.A. (Chairman of the Board of Studies in Sanskrit); Prin. N. N. Bharucha, M.A. (Chairman of the Board of Studies in Persian, Arabic and Urdu); Dr. M. G. Sharell, M.A., Ph.D. (Chairman of the Board of Studies in History, Archaeology, Epigraphy and Numismatics); Prof. C. J. Patel, M.A. (Chairman of the Board of Studies in Political Science); P. G. Shah (Chairman of the Board of Studies in Sociology and Anthropology); Prin. A. K. Trivedi, M.A., LL.B. (Chairman of the Board of Studies in Psychology); Prin. L. R. Desai, B.A., B.T. (Bom.), T.D. (Lond.) (Chairman of the Board of Studies in Education); Prin. Y. P. Shukla, M.A. (Chairman of the Board of Studies in Ancient Indian or Eastern Culture); R. T. Maniar, B.A., LL.B. (Chairman, Board of Studies in Welfare); *Under the Faculty of Science*, Prin. Y. G. Naik, M.Sc., Ph.D. (Chairman of the Board of Studies in Physics); Prin. R. D. Desai, B.A., M.Sc., D.Sc. (Lond.), F.R.I.C., F.I.I.Sc., F. A. Sc., F.N.I. (Chairman of the Board of Studies in Chemistry); Prin. S. V. Shah, B.Sc., Ph.D. (Chairman of the Board of Studies in Botany); Prin. M. M. Parekh, M.Sc., Ph.D., F.R.I.C. (Chairman of the Board of Studies in Microbiology); *Under the Faculty of Technology including Engineering*, M. M. Patel, B.E., A.M.I.E.E., (Chairman of the Board of Studies in Mechanical Engineering); S. S. Divatia, B.E. (Civil), I.C.E. (Chairman of the Board of Studies in Civil Engineering); Prin. M. S. Yagnik, B.Sc. (Eng.), A.M.I.E. (India), (Chairman of the Board of Studies in Electrical Engineering); *Under the Faculty of Agriculture*, Vacant, (Chairman of the Board of Studies in Agriculture); *Under the Faculty of Law*, B. H. Desai, B.A., LL.B. (Chairman of the Board of Studies in Law); *Under the Faculty of Medicine*, Dr. G. V. Barve, M.B., B.S., M.S. (Bom.) (Chairman of the Board of Studies in Anatomy, Physiology, etc.); Dr. S. B. Anklesaria, M.B., B.S., M.D., (Chairman of the Board of Studies in Medicine and Surgery); Prin. R. P. Patel, M.Sc., Ph.D. (Chairman of the Board of Studies in Pharmacy); Prin. Dr. M. D. Avsare, B.A., M.Sc., Ph.D. (Chairman of the Board

of Studies in Zoology); *Under the Faculty of Commerce*, Prin. D. R. Samant, M.A., (Chairman of the Board of Studies in Commerce); Prin. S. C. Pathak, M.Com. (Chairman of the Board of Studies in Accountancy); Prof. G. R. Desai, M.A. (Chairman of the Board of Studies in Actuarial Science and Statistics); *Under the Joint Faculties of Arts including Education and Science*, Prof. S. M. Shah, M.A. (Chairman of the Board of Studies in Mathematics and Statistics); Prin. Dr. K. G. Naik, M.A. (Bom.), D.Sc. (Lond.), F.R.I.C., F.N.I. (Chairman of the Board of Studies in Geology); *Under the Joint Faculties of Arts, Science and Commerce*, G. B. Oza, B.A., M.T.C. (Chairman of the Board of Studies in Geography); *Under the Faculty of Ayurvedic Medicine*, Dr. P. M. Mehta, M.D., M.S., F.C.P.S., F.Y.C.S. (Chairman of the Board of Studies in Ayurvedic Medicine); *Under the Joint Faculties of Arts and Commerce*, Prin. S. V. Desai, M.S. (Columbia) (Chairman of the Board of Studies in Economics).

OTHER MEMBERS.—(4) *Three Representatives of Principals of Colleges in the Gujarat University area*, Prin. K. V. Desai, M.Sc.; Prin. J. B. Sandil, M.Sc.; Prin. P. H. Bhatt, M.A.; *Three Representatives of Heads of Recognised Institutions*, Dr. K. R. Ramanathan, M.A., D.Sc., Director, Physical Research Laboratory; Dr. M. D. Desai, M.S., F.R.C.S., M.Ch. (Orth.), Superintendent, Sheth Vadilal Sarabhai General Hospital; R. C. Parikh, B.A. (Hons.), Director, Sheth B. J. Institute of Learning and Research.

BUDGET—1955-56

Income: Rs. 24.25 lakhs (Recurring).

Rs. 7.08 lakhs (Non-recurring).

Expenditure: Rs. 25.70 lakhs (Recurring).

Rs. 16.00 lakhs (Non-recurring).

Total number of students on the rolls of the colleges and recognised institutions (1957-58): 26,855.

Number of External students registered (1957-58): 6,847.

B. J. MEDICAL COLLEGE

Ahmedabad

Principal & Professor of Anatomy: Dr. G. V. Barve, M.S., F.C.P.S.

CITY LAW COLLEGE (GUJARAT LAW SOCIETY)

Ahmedabad.

Principal: D. D. Desai, B.A., LL.B. (Advocate).

GUJARAT COLLEGE

Ahmedabad

Oldest college in Gujarat; Government institution. Munificently donated by Sir Chinubhai Madhavji, Baronet. Provides instruction in all courses leading up to B.A. and B.Sc. examinations; guides research for M.A., M.Sc. and Ph.D. students.

Principal: Dr. Y. G. Naik, M.Sc., Ph.D.

GUJARAT LAW SOCIETY'S SHETH H. A. COLLEGE OF COMMERCE

Ahmedabad 6.

Principal: Mukundlal C. Desai, B.A., LL.B., M.A. (Michigan—U.S.A.).

GUJARAT VIDYAPITH

Ahmedabad 14.

Founded by Mahatma Gandhi in 1920. The Vidyapith works for spreading national education and particularly strives to make basic education popular and was founded with the aim, among others, of providing university instruction in the mother tongue.

Chancellor: President Dr. Rajendra Prasad; **Vice-Chancellor**: Morarji Desai, Minister for Finance, Govt. of India.

HARGOVANDAS LAKHMICHAND COLLEGE OF COMMERCE

Navrangpura, Ahmedabad 9.

This college, started in 1936, is permanently affiliated to the Gujarat University for:—(a) Intermediate Commerce Examination; (b) B. Com. Examination in all subjects except Actuarial Science; (c) M. Com. Examination; and (d) Ph.D. in Economics.

Principal: S. V. Desai, M.S. (Columbia).

HAROLD LASKI INSTITUTE OF POLITICAL SCIENCE

Mavalankar's Haveli, Bhadra, Ahmedabad 1.

The Institute was inaugurated by late G. V. Mavalankar, Speaker of the Lok Sabha on 15th August 1954. It is an educational and non-partisan body, founded to encourage and facilitate the scientific study of political questions and problems. The Institute, as such, does not express an opinion on any aspect of political theory or practice. It conducts a Reference Library, a Lending Library and Reading Rooms, and holds monthly seminars and discussions and arranges talks with a view to better understanding the various issues of past and current political problems. In pursuance of these aims, the Institute brings out publications from time to time and also runs a bi-annual journal 'Laski Institute Review'.

Director: Prof. P. G. Mavalankar.

LALLUBHAI MOTILAL COLLEGE OF PHARMACY

Navrangpura, Ellis Bridge, Ahmedabad 9.

Principal : Dr. R. P. Patel, M.Sc., Ph.D. (Pharm. Chem.) (London).**PHYSICAL RESEARCH LABORATORY**

Navrangpura, Ahmedabad 9.

Chairman, Council of Management, Kasturbhai Lalbhai.*Director and Professor of Atmospheric Physics*, Dr. K. R. Ramanathan, D.Sc.*Professor of Cosmic Ray Physics*, Dr. Vikram Sarabhai, M.A., Ph.D.; *Reader in Electronics*, Dr. U. D. Desai, M.Sc., Ph.D.; *Reader in Cosmic Ray Physics*, Dr. R. P. Kane, M.Sc., Ph.D.; *Reader in Theoretical Physics*, Dr. S. P. Pandya, M.Sc., Ph.D.; *Registrar*, Jagmohandas H. Parekh.**PREMCHAND RAICHAND TRAINING COLLEGE FOR MEN**
Ahmedabad.

It is a Government training institution whose object is to train teachers for primary schools.

Principal : P. B. Kothari.**SCHOOL FOR DEAF-MUTES AND SCHOOL FOR THE BLIND**
Navrangpura, Ellis Bridge, Ahmedabad 9.

An aided residential charitable institution.

Separate arrangements for boys and girls. There are 170 deaf-mutes (boys and girls) and 60 blind (boys and girls).

Free education in reading, writing, useful crafts like tailoring, composing and printing and weaving for deaf-mutes, and re-caning, music, weaving and massage for blind are given. Boarding fee according to the means of the guardians.

President : Sheth Madanmohan Mangaldas Parekh; *Vice-President*, Sheth Ramanlal Lalubhai; *Secretaries*, P. P. Desai; B. D. Lala.**SETH BHOLABHAI JESHINGBHAI INSTITUTE OF LEARNING AND RESEARCH, GUJARAT VIDYA SABHA**

Bhadra, Ahmedabad.

Director : Prof. R. C. Parikh.**LALBHAI DALPATBHAI ARTS COLLEGE**

Ahmedabad 9.

Ag. Principal : V. M. Shah.**M. G. SCIENCE INSTITUTE**

Ahmedabad 9.

Principal Dr. R. D. Desai, D.Sc. (Lond.), F.R.I.C., F.N.I.**SHREYAS SCIENCE AND ARTS INTERMEDIATE COLLEGE**
Ahmedabad.*Principal* : Smt. Bharatidevi Ambalal Sarabhai, B.A. (Hons.) (Bom.), B.A. (Hons.) (Oxon.).**SIR LALLUBHAI SHAH LAW COLLEGE**

Gujarat Law Society

Principal : Madhavprasad S. Pandit, B.A., LL.B., Advocate.**OTHER COLLEGES**L. D. College of Engineering—*Principal* : T. A. Desai.Ramanand College—*Principal* : Y. G. Shukla.B. D. Arts College for Girls—*Principal* : S. R. Bhatt.Sarvodaya College, Maninagar—*Principal* : P. H. Bhatt.A. G. Teachers' Training College—*Principal* : Dr. L. B. Desai.Univ. School of Social Sciences—*Director* : Dr. B. R. Shenoy.Univ. School for Gujarati Language and Literature—*Director* : Umashankar Joshi.**ASSOCIATIONS ETC.****THE AHMEDABAD AUTOMOBILES DEALERS' ASSOCIATION**
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General Motors Agency, Bhadra, Ahmedabad. Phone: 2441.

Girdharilal Damoderdas Ltd., 691, Reid Road, Railway-pura Post, Ahmedabad.

Girihari, C. & Co., 483, Revdi Bazar, Ahmedabad.

G. M. Gandhi, New Madhopura, Ahmedabad.

Gopaldas and Sons, Bala Hanuman Kavishwar's Pole, Ahmedabad.

Gopaldas Khemchand & Sons (Tijoriwala), Outside Delhi Gate, Ahmedabad.

Gopaldas Rajendraprasad & Co., Sir Chinubhai Building, Revdi Bazar, Cross Lane, Ahmedabad.

Gordhandas Chatrabhuj & Co., Cross Lane, Chinubhai Building, Ahmedabad.

Grand Hotel, Lal Darwaja, Ahmedabad.

GREAVES COTTON & CO., LTD., Vishnu Bhuvan, Relief Road, Kadia Kul, Ahmedabad.

Gujarat Corporation (India) Ltd., Harisadan, Char Rasta, Ahmedabad.

Gujarat Ginning and Manufacturing Co., Ltd., Prem Gate, Ahmedabad.

GUJARAT PAPER MILLS LTD., 653, Sakar Bazar, Ahmedabad 2. Manufacturers of Papers & Boards.

Gujrat Automobiles, Motilal Hirabhai Market, Ahmedabad.

Gujrat Electric Co., The, Richey Road, Ahmedabad.

Gujrat Oil Mills and Manufacturing Co., Ltd., Asarva, Ahmedabad 11.

Gujarat Paper Mills Ltd., 653, Sakar Bazar, Ahmedabad 2.

Gujrat Transport Services Ltd., Ratkhad, Ahmedabad.

Haji Nanna Master & Co., Jamalpur Chakia, Ahmedabad.

Hansraj Ratanlal & Co., Rangwala Market, Ahmedabad.

Harilal Brothers, 656-4-4, Patel Market, Kapasia Bazar, Ahmedabad.

Harilal Mulchand Nagori, Timber Merchant, Outside Sarangpur Gate, Ahmedabad 2.

Harivallabhdas Mulchand Mills Co., Ltd., Darlapur, Ahmedabad.

Hathising Manufacturing Co., Ltd., Saraspur Road, Ahmedabad.

H. Hansidhar & Co., Railway-pura Post, Kapasia Bazar, Ahmedabad.

H. Chokshi & Co., Kapasia Bazar, Ahmedabad.

Himabhai Manufacturing Co., Ltd., Saraspur, Ahmedabad.

Hind Sewing Machine Works, opp. Vijay Mills, Naroda Road, Ahmedabad.

Hiralal B. Trivedi & Co., Gandhi Road, Ahmedabad.

Hiralal Panchal & Co., Lunsawada, Golwad, Ahmedabad.

Hiralal & Co., opp. Jumma Masjid, Ahmedabad.

Hukumchand Insurance Co., Ltd., Reid Road, Ahmedabad.

Ideal Motors Ltd., The, Lal Darwaja, Ahmedabad.

Imperial Chemical Industries (India) Ltd., Dyes Dept., Girdharilal's Mangaldas Bungalow, Lal Darwaja, Ahmedabad.

Imperial Soda Factory, The, Haripura Road, Asarva, Ahmedabad 11.

India Engineering Corporation, Sir Chinubhai Compound, Shabpur, Ahmedabad.

India Metal Works, 1758/1-2, Mirzapur Road, Ahmedabad.

India Starch Trading Co., Mill Gin Stores Merchants, opp. Madhu Bag, Ahmedabad 2.

Indo-British Chemical Co., Astodia Chakia, Ahmedabad.

Indravadam Maneklal & Co., Bombay Shop Building, Ahmedabad.

International Electrical Equipment Co., Reid Road, Ahmedabad.

International Textile Corporation, 696, Reid Road, Ahmedabad 2.

International Trading Co., Station Road, Ahmedabad.

Jagdish Straw Products, Ltd., outside Jamalpur, Ahmedabad.

Jahind Leather Industries Ltd., Reid Road, Ahmedabad.

Jashvantil & Co., Manek Chowk, opp. Vegetable Market, Ahmedabad.

Jayantilal Pranlal & Co., Karna Mukteshwar Mahadev, Outside Sarangpur Gate, Ahmedabad.

Jayantilal Ratilal & Co., Darlapur, Lunsawada, Khadia Naka, Ahmedabad.

Jayams Engineering Co., Lal Darwaja, Ahmedabad.

J. C. Engineer & Co., 27, Shrimall Society, Ellis Bridge, Ahmedabad.

Jehangir Brothers, opp. Railway Station, Ahmedabad.

J. F. Patel & Co., Reid Road, Ahmedabad.

Jones Textiles Export Co., Ltd., Kapasia Bazar, Ahmedabad.

J. Ramanlal & Co., 675-1, Sakar Bazar, Cross Lane, Ahmedabad.

Jupiter General Insurance Co., Ltd., Khadia, Char Rasta, Ahmedabad.

Kanaiyalal Harilal Nagori, Revdi Bazar, Ahmedabad 2.

Kanchan Brothers Co., Reid Road, Ahmedabad.

Kantilal Jivanlal & Co., Reid Road, Ahmedabad.

Kantilal M. Modi & Co., 484, Revdi Bazar, Ahmedabad.

Kantilal S. Mehta, Mill Stores Merchant, 1711/5, Gandhi Road, Ahmedabad.

Karaka, D. C. & C., Madalpur, Ellis Bridge, Ahmedabad.

K. C. Mashruwala & Co., Reid Road, Ahmedabad.

K. Damodardas & Co., Singapurwalla Building, Khadia, Char Rasta, Ahmedabad.

Keshavlal Lalchand & Co., Ratan Pole, Paleli Haveli, Ahmedabad.

Kikabhai Gulam Husain & Sons, near Fernandes Bridge, Ahmedabad.

Kilachand Devchand & Co., Ltd., Manek Chowk, Ahmedabad.

K. Shah & Co., 91, Ratan Pole, Ahmedabad, Advertising Agents.

Lakmi Vijay Brass & Iron Works, Ghee Kanta Road, Ahmedabad.

Lalibhai, B., & Co., 111-B, Pankore Naka, Ahmedabad.

Lalubhai Haribhai Panchal, Ghee Kanta Road, opp. B. C. High School, Ahmedabad.

Laxmandas Sejram, Mohamedi Market, Ahmedabad 2.

Legal and General Assurance Society Ltd., 1761, Gandhi Road, Ahmedabad.

Leophone Talking Machine Co., Gandhi Road, Ahmedabad.

L. N. Gadodia & Sons Ltd., opp. Maskati Market, Sakar Bazar, Ahmedabad.

Lords Dairy Farm Ltd., West View, Kanpur, P.O. Box 114, Ahmedabad.

Machine Tools and Hardware Corporation, Reid Road, Railway-pura Post, Ahmedabad.

Machinery Supplying Co., Kankaria Road, Ahmedabad.

Madhavdas Manilal & Co., Astodia Road, Ahmedabad.

Madhavlal & Co., Pankore Naka, Ahmedabad.

Maftal Mohanlal & Co., Haribhai Market, Cross Lane, Ahmedabad.

Malik Kartarsingh & Co., Sarkhej Road, Ellis Bridge, Ahmedabad.

Manekchok and Ahmedabad Manufacturing Co., Ltd., Asarva, Ahmedabad 11.

Manilal & Co., 649, Nanavati Building, Richey Road, Ahmedabad.

Mansukhlal Maganlal Kapadia, Outside Maskati Market, Ahmedabad.

Manubhai Parikh & Co., Dr. Motilal Road, opp. Madhav Baug, Ahmedabad.

Martatia & Co., Naushir M., Valanda's Haveli, opp. Fuvara, Ahmedabad.

Masturil Chunilal & Co., Kapasia Bazar, Ahmedabad 2.

Mehta Brothers & Co., 698, Reid Road, Ahmedabad.

Mehta Parikh & Co., Kapasia Bazar, Ahmedabad.

Mercury Enamel Works, Enamel Sign Manufacturers, Maninagar, Ahmedabad 8.

Metal Moulders Ltd., Dudheshwar Road, Ahmedabad.

Mistri Ambalal Jetharam Iron & Brass Factory, Ghee Kanta Road, Ahmedabad.

Mistri Mangaldas Jethabhai & Brothers, Darlapur, Chakia, Ahmedabad.

Mistry and Gajjar (India) Ltd., Sarkigaran Wadi, Outside Sarangpur Gate, Ahmedabad.

Mody & Co., 629-2-3, Companywala Market, Kapasia Bazar, Ahmedabad.

Mohanlal Chunilal & Co., Manek Chowk, Ahmedabad.

Mohanlal & Co., Pankore Naka, Ahmedabad.

Monogram Mills Co. Ltd., Rakhial Road, Gomtipur, Ahmedabad 10.

Motiji Bhabhutmal & Co., B-8, Maskati Market, Ahmedabad.

Motor Union Insurance Co., Ltd., Cross Lane, Station Road, Ahmedabad.

Morris Transport Service Ltd., Biradari Compound, Lal Darwaja, Ahmedabad.

Mujabhai Tayebjee & Sons, Three Gates, Ahmedabad.

Muljibhai Shivji & Co., behind Gujrat College, near Sharda Mandir, No. 354/1, Ahmedabad.

M. B. Patel & Co., Shop No. 2734, Lokhand Bazar, Ahmedabad.

M. C. Shah & Co., Bombay Mutual, 54, Gandhi Road, Richey Road, Ahmedabad.

M. Kantilal & Co., Pankore Naka, above Ghanchi's Wadi, Ahmedabad.

M. Parikh & Co., Lalshanker's Compound, Ellis Bridge, Ahmedabad.

M. Sharma & Co., No. 1779, Gandhi Road, opp. Chaturbhuj Mandir, P. O. Box No. 71, Ahmedabad.

M. Vaidilal & Co., Tankshai, Kalupur, Ahmedabad.

Nagardas & Co., Dhanlaxmi Market, Ahmedabad.

Nagindas Kilabhai & Co., 697/14, Reid Road, Ahmedabad.

Nagri Mills Co., Ltd., Gomtipur Road, Ahmedabad.

Nanavati & Co., Ltd., Maskati Market, Ahmedabad.

NANIKRAM SOBHARAJ MILLS PRIVATE LTD., Madhawal Hanahhodai Colony, Railwaypura, Post Box No. 1041, Ahmedabad. Phone: 2728; Grams: "KINCHICRA." Silk & Art Silk Cloth Manufacturers.

Narendra & Co., Dalal Building, Kapasia Bazar, Ahmedabad.

Narotandas Chunilal & Co., Motilal Mansion, Kapasia Bazar, Ahmedabad 2.

National Coal Supplying Co., below Saraspur Railway Bridge, Hasumiya Lalmiya's Compound, Ahmedabad.

National Fire and General Insurance Co., Ltd., 3106-2-8, Gandhi Road, Ahmedabad.

Natarial Shamaldas & Co., Golwad Naka, Khadia, Ahmedabad.

Navinchandra O. Jhaveri & Co., Fani Bunda Building, Railwaypura, Ahmedabad.

Neptune Assurance Co. Ltd., Branch Office: Panchkuva, Ahmedabad 2.

New General Publicity (Private) Ltd., 1899/4, Gandhi Road, near Pada Pole, Ahmedabad.

New India Assurance Co., Ltd., opp. Fuvara, Gandhi Road, Ahmedabad.

New Way Publicity Co., Mirzapur Road, Ahmedabad.

New Zealand Insurance Co., Ltd., Sir Chinubhai Building, Revdi Bazar Cross Lane, Ahmedabad.

NIMA TRADING COMPANY, Cross Lane, Ahmedabad 2. Phone: 3644. Importers, Manufacturers' Representatives & Stockists of Mill Stores, Machinery, Electrical Goods, Chemicals, Lubricants & Fertilizers.

Noorbhoy & Co., Saraspur Road, Valiulla Compound, Ahmedabad.

N. MANSUKHRAM & CO. (Estd. 1923), Opp. Maskati Market, Ahmedabad. Exporters of Cotton Textiles & Handloom Textiles.

N. M. Shah & Co., opp. Jumma Masjid, Ahmedabad.

Oghadlal Lalubhai Shah & Co., Inside Panchkuva, near Char Rasta, Ahmedabad.

Panchal Keshavlal Ambaram & Bros., Ghee Kanta, Pitalla Bumba, near Dabadia Kuva, Ahmedabad.

Panchal Poonjabhai Vanmali & Sons, Ghee Kanta Road, Ahmedabad.

Pandit Shah & Co., Three Gates, Ahmedabad.

Pandyan Insurance Co., Ltd., 1761, Gandhi Road, Ahmedabad.

Parikh & Parikh, Mill Gin Store Suppliers, Reid Road, Ahmedabad.

Pathak & Co., Bhadra, Mission Road, Ahmedabad.

P. Chhotalal Shah & Co., 3084, Three Gates Ahmedabad. Phone: 3838.

Pearl Assurance Company Ltd., 649, Nanavati Building, Richey Road, Ahmedabad.

Perreira Fazalbhoy & Co., Allahabad Bank Building, Pankore Naka, Ahmedabad.

Pickers Ltd., Ellis Bridge, Manufacturers of quality Pickers, Ahmedabad 6.

Pioneer Manufacturing Co., Haripura Road, Asarva, Ahmedabad 11. Manufacturers of Distempers, Paints, Coloured Clays, etc.

Pioneer Textiles Co., Hari Sadan, Panchkuva, Char Rasta, Ahmedabad.

Popatlal Girdharilal & Co., Hava Building, Kapasia Bazar, Ahmedabad.

Provincial Construction Co., Ltd., Building Contractors, Kankaria Road, Ahmedabad.

Prem Roy Bros., Mill Store Suppliers, L. K. Trust Building, Panchkuva, Ahmedabad 2.

Purbhottandas G. Gajjar, 500, Reid Road, Ahmedabad.

P. Das & Co., Pankore Naka, opp. Ghanchi's Wadi, Ahmedabad.

Radiant Electric & Machinery Co., Mangal Bhavan, 2750, Relief Road, Ahmedabad. Phone: 3272.

Rajendra Patel & Co., H. A. Cloth Market, Kapasia Bazar, Ahmedabad 2.

Rajkamal Transport Company, Relief Road, Ahmedabad.

Rajnagar Electric Co., opp. Richey Road, Ahmedabad.

Rajnikant Hasamukhlal & Co., Cross Lane, Ahmedabad.

Rally Metal Works, Relief Road, Patharkuva, Ahmedabad.

Ramanlal G. Shah & Co., Sankdi Sheri, Ahmedabad.

Ramanlal Nagindas Shah & Co., Ghee Kanta Road, opp. Pitalla Bumba in Vanda, Ahmedabad.

Ramanlal Sankalchand & Co., 572, Reid Road, Railwaypura Post, Ahmedabad.

Ramvijay Iron Works, 664, Ghee Kanta Road, Ahmedabad.

Rasiklal D. Gandhi & Co., Hari Sadan Khadia, Char Rasta, Ahmedabad.

Ratanchand Chunilal & Co., Maskati Market, Ahmedabad.

Ratilal M. Parikh & Co., Kapasia Bazar, Ahmedabad.

Reliable Cycle and Motor Co., Khadia, Char Rasta, Ahmedabad.

Reliance Electric Co., Gandhi Road, Ahmedabad.

Royal Insurance Co., Ltd., Tayed Bldg., Near Zakaria Masjid, Relief Road, Ahmedabad.

Rubber Products Ltd., Dudheshwar Road, Ahmedabad.

Ruby General Insurance Co., Ltd., Karanj, Bhadra, Ahmedabad.

Rustom Sons Ltd., Grand Hotel Building, Lal Darwaja, Ahmedabad.

R. C. Sonawala & Sons, Khadia, Char Rasta, Ahmedabad.

R. G. Bhow & Co., Gandhi Road, Jumma Masjid, Ahmedabad.

R. Jehangir Darasliaw & Co., Relief Road, Ahmedabad.

R. Mehta & Co., Fernandez Bridge, Ahmedabad.

R. Nagindas & Co., Lunsawada, Shamal Bechar's Dehla, Ahmedabad.

R. Ramanlal & Co., opp. Railway Station, Ahmedabad.

Sankalchand G. Shah & Co., Latif's Dehla, Sakar Bazar, Ahmedabad.

Sarabhai Ratilal & Co., Revdi Bazar, Ahmedabad.

Sarangpur Cotton Manufacturing Co., Ltd., Kankaria, Ahmedabad.

Satlal C. Chokshi & Co., Manek Chowk, Ahmedabad.

Scientific Printers' Materials Manufacturing Co., Ltd., Mirzapur Road, Ahmedabad.

Sentinel Assurance Co., Ltd., R-695, Reid Road, Ahmedabad 2.

Shah Construction Co., Manilal Mansion, Cross Lane, Ahmedabad.

Shah Transport Service Co., Sheth's Pole, Ratan Pole, Ahmedabad.

Shankarlal & Co., 2727/1, Lokhand Bazar, Ahmedabad.

Shantilal & Co., Kanuga Mansion, Kapasia Bazar, Ahmedabad.

Shemodize Agency, 566, Reid Road, Ahmedabad.

Sheth Stores Trading Co., Deepak Chambers, Station Road, Ahmedabad.

Shri Krishna Roller Flour Mills, opp. Tella Mills, outside Kalupur Gate, Ahmedabad.

Shri Mahalaxmi Engineering Works, outside Delhi Gate, opp. Painter Garden, Ahmedabad.

Shri Shakti Timber Mart, near Gita Mandir, Ahmedabad.

SRI VIVEKANAND MILLS LTD., Rakhial Road, P.O. Gomtipur, Ahmedabad 10.

Shums Trading Co., The, Pankore Naka, Bangdi Bazar, Ahmedabad.

Silver Cotton Mills Co., Ltd., Kankaria Road, near Jaganath Mahadev, Ahmedabad.

Standard Materials Co., Narottam Building, Kapasia Bazar, Ahmedabad.

Standard Sales Agency, 1952/11, Khadia, Char Rasta, Ahmedabad.

Star Radio Electric Co., Ghee Kanta, Ahmedabad.

Studebaker & Morris Agency (Gujrat), Lal Darwaja, Ahmedabad.

Subodhchandra Popatlal, opp. Maskati Market, P. O. Box No. 1014, Ahmedabad.

Sultanali Gulamhussen & Sons, Fernandez Bridge, Ahmedabad.

Sutarla & Co., S., Reid Road, Ahmedabad 2.

Swastik Textile Trading Co., Ltd., Motilal Hirabhai Market, Railwaypura Post, Ahmedabad 2.

S. D. Patel & Co., Bhadra, Ahmedabad.

S. G. Hussain & Sons, Sakar Bazar, Ahmedabad.

S. Master & Sons, Station Road, Ahmedabad.

S. Shantilal & Co., Ghee Kanta Road, Pankore Naka, Ahmedabad.

Taj Mahal Trading Co., Mirzapur, Ahmedabad.

Tata Iron and Steel Co., Ltd., (Sales Branch Office), Relief Road, P.O. Box No. 130, Ahmedabad 1.

Textile Works Ltd., The, Hava Building, Kapasia Bazar, Ahmedabad.

Trikamlal Mahasukhran & Co., 20, Rangwala Market, Ahmedabad.

Tropical Insurance Co., Ltd., The, 571/2, Reid Road, Ahmedabad.

T. Mahadovio & Co., Railwaypura Post, Ahmedabad.

Umedram K. Mistri & Sons, City Danapith, Ahmedabad.

Union Coal Co., opp. Aryodaya Ginning Mills, Asarva Road, Ahmedabad.

United Commercial Bank Ltd., Bhadra, Karanj Building, Ahmedabad.

United India Life Assurance Co., Ltd., Inside Panchkuva, Ahmedabad.

United Trading Co., The, Dr. Motilal Road, Ahmedabad.

Universal Watch Co., Richey Road, Ahmedabad.

Vijaya Mills Co., Ltd., Naroda Road, Ahmedabad.

Vinubhai & Co., Kapasia Bazar, Ahmedabad.

Volta Limited, Navroz Villa, Mirzapur, Ahmedabad 1.

Vulcan Insurance Co., Ltd., Karanj, Bhadra, Ahmedabad.

Wadia, A. D., & Sons, Kankaria Road, Ahmedabad.

Warden Insurance Co., Ltd., The, Bellentines Haveli, Three Gates, Ahmedabad.

Weispun Bobbin Co., 689, Reid Road, Ahmedabad 2.

Zenith Assurance Co., Ltd., 1711/5, Gandhi Road, Ahmedabad.

CLASSIFIED LIST OF TRADES & PROFESSIONS

ABRASIVES

Ahmedabad Hardware Stores, Relief Road, Ahmedabad.
Behari Bros., Outside Panchkuva, Ahmedabad.

ADVERTISING AGENTS AND CONSULTANTS

K. Shah & Company, 91, Ratan Pole, Ahmedabad.
New General Publicity Ltd., Gandhi Road, near Padu Pole, Ahmedabad.

AERATED WATER MANUFACTURERS

Imperial Soda Factory, near Aryodaya Spinning Mills, Haripura, Asarva, Ahmedabad.
Munshi & Co., Mirzapur Road.
Natarial Nathalal & Co., Gandhi Road, Ahmedabad.
Patel Soda Water Factory, opp. Navi Pole, Shahpur, Ahmedabad.
P. Dhanjibhai & Sons, Old Post Office, Ahmedabad.
Shahco Aerated Water Factory, Outside Sarangpur Gate, Patalia Talao, Ahmedabad.
Taj Mahal Trading Co., Mirzapur Road, Ahmedabad.

AERATED WATER REQUISITES

Bhikhalal Chhaganlal Desai, 8078, Three Gates, Ahmedabad.
Taj Mahal Trading Co., Mirzapur Road, Ahmedabad.

AGRICULTURAL IMPLEMENTS

Jagdiah Textile & Engineering Co., Relief Road, Kadiakul, Ahmedabad.
Metal Moulders Private Ltd., Dudeswar Road, Ahmedabad.
Mistry Ambalal Jetharam, Gheekanta Road, Ahmedabad.
M. H. Brothers, Kalupur Road, P.O. Box No. 81, Ahmedabad.
Modern Engineering & Moulding Co., Shahpur Mills Compound, Ahmedabad.
Rajkamal Transport Company, Relief Road, Ahmedabad. Phone: 3785.
Voltas Limited, Mirzapur, Ahmedabad.
Wellknown Brothers, Relief Road, Near Zakaria Masjid, Ahmedabad 1.

AIR COMPRESSORS

Voltas Limited, Mirzapur, Ahmedabad 1.

AIR CONDITIONING & REFRIGERATION

Voltas Limited, Mirzapur, Ahmedabad 1.

AUTOMOBILE ENGINEERS

BOMBAY GARAGE (AHMEDABAD) LTD., Shahibag Road, Ahmedabad 4. Grams: "PARKCHIN." Phone: 4615.

AUTOMOBILE PARTS AND ACCESSORIES

Alladeen Purbhai Mistry, Relief Road, Ahmedabad.
Alliance Motor Co., Mirzapur Road, Ahmedabad.
Aruna Automobiles, Station Road, Ahmedabad.
Associated Auto Parts Ltd., Relief Road Cross Lane, Ahmedabad.
Associated Motor Ltd., Mirzapur Road, Ahmedabad.
Battery Charging and Repairing Works, Station Road, Ahmedabad.
Battery Charging Service Station, Kapasia Bazar, Ahmedabad.
BOMBAY GARAGE (AHMEDABAD) LTD., Shahibag Road, Ahmedabad 4. Grams: "PARKCHIN." Phone: 4615.
Bombay Motor Stores, Kapasia Bazar, Ahmedabad.
B. S. Shah & Co., Outside Sarangpur Gate, Bhadra, Ahmedabad.
Cama Motors Ltd., Lal Darwaja, Ahmedabad.
Eastern Automobiles, Reid Road, Ahmedabad.
Empire Motor Stores, Outside Sarangpur Gate, Bhadra, Ahmedabad.
Expert Battery Charging and Repairing Works, Near Victoria Garden, Ahmedabad.
F. P. Wadia Bros. Ltd., Mirzapur Road, Ahmedabad.
GENERAL MOTOR AGENCY, THE, Proprietors: B. S. Shah & Co., Bhadra, Ahmedabad. Pioneer Dealers in Automobile Renowned Spare Tyres, Tubes, Batteries, Petrol and Motor Oil. Stockists: Forodo, Brake and Clutch Linings. Phone: 2441. Grams: "AUTOMOBILE."
Gujarat Automobiles, Station Road, Ahmedabad.
Gujarat Motor Stores, Reid Road, Ahmedabad.
Hasanbhai Jivabhai, Outside Sarangpur Gate, Bhadra, Ahmedabad.
Ideal Motor Ltd., Lal Darwaja, Ahmedabad.
Jaahbhai Patel & Co., Delhi Gate, Shahpur Road, Ahmedabad.
Jayant Motor Stores, Station Road, Ahmedabad.
Karmali Janmahomed & Co., Kapasia Bazar, Ahmedabad.

Lakhia Brothers, Lal Darwaja, Ahmedabad.
Metro Motors (Ahmedabad) Ltd., Mirzapur Road, Ahmedabad.
Modern Automobiles (Guj.), Ltd., Lal Darwaja, Ahmedabad.
Mody Automobiles, Mission Road, Bhadra, Ahmedabad.
Neon Motor Stores, Relief Road Cross Lane, Ahmedabad.
New Motor House, Station Road, Ahmedabad.
R. Ramanlal & Co., Station Road, Ahmedabad.
S. D. Patel & Co., Outside Sarangpur Gate, Bhadra, Ahmedabad.
The Ahmedabad Motor Ltd., Lal Darwaja, Ahmedabad.
The Gujarat Vulcanising Works, Station Road, Ahmedabad.
The New International Motor Ltd., Opp. Station & Mirzapur Road, Ahmedabad.
Vadwala Motor Stores, Kerosene Bazar, Ahmedabad.

BALL & ROLLER BEARINGS

Ahmedabad Hardware Stores, Relief Road, Ahmedabad.
Ataram Mohanlal Panchal, Rantiwadi, Mirzapur, Ahmedabad.
Babu & Company, Gheekanta Road, Ahmedabad.
Bethari Bros., Outside Panchkuva, Ahmedabad.
Devico Engineering Works, Nishat Shihag, Ahmedabad. Phone: 3956. Grams: "VIVA." Works at Khanpur.
Harry Engineering Corporation, Behind Central Fire Brigade, Ahmedabad.
Natarial M. Fadla & Co., Kapasia Bazar, Ahmedabad.
Nima Trading Co., Cross Lane, Ahmedabad.
Sheth Stores Trading Co., Deepak Chambers, Station Road, Ahmedabad.

BANKS

Ahmedabad Central Co-operative Bank Ltd., Near Relief Cinema, Relief Road.
Ahmedabad Mercantile Co-operative Bank Ltd., 5428, Astodia Road.
Ahmedabad People's Co-operative Bank Ltd., Karanj, Bhadra.
Allahabad Bank Ltd., Pankore Naka.
Bank of Baroda Ltd., Premabhai Hall, Bhadra.
Bank of Bikaner Ltd., Cross Lane, Railwaywara.
Bank of India Ltd., Bhadra.
Central Bank of India Ltd., 86, Parimal Society, Ellis Bridge, Ahmedabad.
Devkaran Nanjee Banking Co., Ltd., Manek Chowk, Municipal Building.
Gadodia Bank Ltd., Maskati Market.
Hind Bank Ltd., Maskati Market.
Hindustan Commercial Bank Ltd., Astodia, Chakla.
Industrial Bank of Western India Ltd., Lal Darwaja.
Jodhpur Commercial Bank Ltd., Ravdi Bazar.
Punjab National Bank Ltd., 8, Swastik Society, Ellis Bridge.
State Bank of India, Bhadra, Ahmedabad.

BATTERIES

BOMBAY GARAGE (AHMEDABAD) LTD., Shahibag Road, Ahmedabad 4. Grams: "PARKCHIN." Phone: 4615.

BELTINGS (TEXTILE) MANUFACTURERS AND SUPPLIERS

Ahmedabad Hardware Stores, Relief Road, Ahmedabad.
Allied Engineers, Reid Road, Ahmedabad.
Behari Bros., Outside Panchkuva, Ahmedabad.
Gujarat Corporation (India) Ltd., Harisadan, Char Rasta, Ahmedabad.
H. Chokshi & Co., Kapasia Bazar, Ahmedabad.
Nima Trading Co., Cross Lane, Ahmedabad.

BOBBINS

Asarwa Bobbin Works, Nilkanth Mahadev, Asarwa.
Bharat Bobbins Ltd., Grand Hotel Building, Lal Darwaja.
National Bobbin Co., 456, Panchkuva.
Nima Trading Co., Cross Lane, Ahmedabad.
Panchal Keshavlal Ambaram & Bros., Gheekanta, Pitalia Bumba, Near Badadia Kuva, Ahmedabad 1.
Shree Krishna Textile Works, Salapose Road.
SWASTIK TEXTILE TRADING CO., PRIVATE LTD., Motilal Mirabhai Market, Railwaywara Post, Ahmedabad 2.
Welspun Bobbin Company, Reid Road, Ahmedabad 2.

BOLTS, NUTS AND SCREWS

Ahmedabad Hardware Stores, Relief Road, Ahmedabad.
Allied Engineers, Reid Road, Ahmedabad.
Behari Bros., Outside Panchkuva, Ahmedabad.
H. Chokshi & Company, Kapasia Bazar, Ahmedabad.

BUILDERS AND CONTRACTORS

Advance Construction Co., Dariapur, Lunaawada, Ahmedabad.
 Ahmedabad Iron & Hardware Mart, 304, Lokhand Bazar, Ahmedabad.
 Ahmedabad General Engineering Works, 522/1, Outside Panchkuva Gate, Ahmedabad.
 Cama Construction Co., Gujarat Stores Building, Relief Road, Ahmedabad.
 Fabricated Steel & Construction Co., Ltd., Civil Hospital Works, Jehangirpura, Ahmedabad.
 Free India Construction Co., Shrinagar Colony, Gita Mandir Road, Ahmedabad.
 Hindustan Cement Pipes and Concrete Construction Co., Khadia, Char Rasta, Ahmedabad.

CEMENT

Bharat Cement Depot, Char Rasta, Gandhi Road, Ahmedabad.
 Cement Marketing Co. of India Private Ltd., Bombay Mutual Building, Tilak Road, Ahmedabad.
 Venklish Cement Depot, 1448, New Madhupura, Ahmedabad.

CENTRIFUGAL PUMPS

Forge and Blower Co., Naroda Road, Ahmedabad.
 Jagdish Textile & Engineering Co., Relief Road, Kadiakul, Ahmedabad.
 Mistry Ambalal Jetharam, Iron & Brass Factory, Gheekanta Road, Phone: 3083. Grams: "CLOTHPRINT."
 Modern Engineering & Moulding Co., Shahpur Mills Compound, Phone: 2624. Grams: "Helical."
 Panchal Engineering Works, Dariapur, Char Rasta, Ahmedabad, Phone: 4186. Grams: "Nozzles."
 Wellknown Brothers, 2414/B-2, Relief Road, Ahmedabad.

CHEMICALS AND DYESTUFFS

Amalgamated Chemicals and Dyestuffs Co., Ltd., Opp. Patharkhi Masjid, Astodia, Ahmedabad.
 Amritlal & Co., Ltd., Prajapati Building, Khadia, Char Rasta, Ahmedabad.
 Capco Ltd., Capco House, Khanpur, Ahmedabad.
 Ciba Dyes Ltd., Relief Road, Ahmedabad.
 Commercial Chemical Industries, Gheekanta Road, Ahmedabad.
 Emery Chemical Co., 328, Asarwa Chakia, Ahmedabad.
 French Dyes & Chemical (India) Ltd., Kavas Villa, Salapose Road, Ahmedabad.
 Imperial Chemical Industries (India) Ltd., Mangaldas Girdhardas Bungalow, Lal Darwaja, Ahmedabad.
 Indo-British Chemical Co., Astodia Chakia 1, Ahmedabad.
 Indokem Ltd., Gujarat Samachar Building, Khanpur, Ahmedabad.
 Jayant Chemical Co., Haridas Acharatil Building, Kapasia Bazar, Panchkuva, Ahmedabad 2.
 Phoenix Colour Co., Dalal Wada, opp. Electricity House, Relief Road, Lal Darwaja, Ahmedabad (India).
 Prem Roy Bros., L. K. Trust Buildings, Panchkuva, Ahmedabad 2.
 Tex Dyes & Engineers, L. K. Trust Buildings, Revdi Bazar, Ahmedabad.

CHEMICAL MANUFACTURERS, IMPORTERS AND STOCKISTS

Ahmedabad Manufacturing and Calico Printing Co., Ltd., The, Post Box Nos. 12 & 173, Ahmedabad.
 Alarakh Haji Kadarbux Gulwala, Astodia Road, Ahmedabad.
 Badridas Wahwanath Khanna, 1/19, Astodia, Darwaja, Ahmedabad.
 Bhagwanlal Tejaji Kharawala, Astodia Road, Ahmedabad.
 Capco Limited, Capco House, Khanpur, Ahmedabad.
 C. B. Sutarla Bros., Cross Lane, Opp. Railway Station, Ahmedabad.
 Gujarat Corporation (India) Ltd., Harisadan, Char Rasta, Ahmedabad.
 Harilal S. Doshi, Kapasia Bazar, Opp. Haridas Market, Ahmedabad.
 L. K. Trivedi & Co., Astodia, Ahmedabad.
 Sharma Trading Corporation, Astodia Road, Ahmedabad.
 Tefaji Faraaram Kharawala Ltd., Astodia Road, Ahmedabad.
 Textile Dychem Corporation, Astodia Road, Ahmedabad.
 U. K. Aniline Dyes Auxiliaries and Machinery, 188-40, Princess Street, Ahmedabad.
 Umesh Trading Co., Chhotalal Building No. 1, Relief Road, Kadiakul, Ahmedabad.
 Voltas Limited, Mirzapur, Ahmedabad 1.

CHEMISTS AND DRUGGISTS

Ahmedabad Alumbic Depot, Three Gates, Ahmedabad.
 All Traders, Ellis Bridge, Ahmedabad.
 American Oil Trading Co., The, Revdi Bazar, Ahmedabad 2.
 Amrutlal M. Modi, Three Gates, Ahmedabad.
 B. C. Saraiya & Co., Three Gates, Ahmedabad.
 Bhanuprasad & Co., S. S. Three Gates, Ahmedabad.
 Bharat Medical Stores, Gandhi Road, Ahmedabad.
 Bhikhalal Chhaganlal Desai, 3078, Three Gates, Ahmedabad.
 Bhogilal Brothers, Gandhi Road, Ahmedabad.
 B. Nagindas & Co., Raipur Chakia, Ahmedabad.
 B. Parikh & Co., Gandhi Road, Ahmedabad.
 C. B. Shah & Co., Near Civil Hospital, Asarwa, Ahmedabad.
 Chandrakant Navsukhlal & Co., Three Gates, Ahmedabad.
 Chandulal M. Desai, Gandhi Road, Ahmedabad.
 Chandulal Premchand, Three Gates, Ahmedabad.
 Chimanlal Kuberdas Modi, Three Gates, Ahmedabad.
 Chimanlal Madhavilal & Co., Three Gates, Ahmedabad.
 Chimanlal Sankalchand, Pankore Naka, Ahmedabad.
 Chinubhai Motilal Saraiya, Three Gates, Ahmedabad.
CHUNILAL MAYACHAND MEHTA (Chasmawala), Three Gates, Ahmedabad. Chemist, Druggist & Optician. Phone: 2563. Grams: "EYEDROPS".
 C. R. Balkrishna & Co., Three Gates, Ahmedabad.
 C. S. Patel & Co., Ramakada Market, Ahmedabad.
 Dahyabhai Nansa & Co., Three Gates, Ahmedabad.
 Dahyabhai Sakalchand & Bros., Three Gates, Ahmedabad.
 D. P. Dave & Co., Raipur, Ahmedabad.
 Himatlal Ratilal, Pankore Naka, Ahmedabad.
 Hind Medical and General Stores, Gandhi Road, Ahmedabad.
 Hirajal Bhagwandas Saraiya, Three Gates, Ahmedabad.
 H. Pandit & Co., Three Gates, Ahmedabad.
 H. T. S. Attarwala, Three Gates, Ahmedabad.
 Indulal H. Shah, Gandhi Road, Ahmedabad.
 Jayantilal H. Shah, Ellis Bridge, Ahmedabad.
 Jayant Medical Stores, Ramakada Market, Ahmedabad.
 J. B. Shah & Co., Pankore Naka, Ahmedabad.
 Jiwanlal T. Bhatia, Dhikwa Chowki, Ahmedabad.
 J. J. Parikh & Bros., Three Gates, Ahmedabad.
 J. N. Patel & Co., Gandhi Road, Ahmedabad.
 J. S. Brothers, Delhi Chakala, Ahmedabad.
 Kamallesh Corporation, Reid Road, Ahmedabad.
 Kantilal Jesingbhai & Co., Three Gates, Ahmedabad.
 K. A. Vakil & Co., Three Gates, Ahmedabad.
 Krishna Medical Stores, Sarangpur Chakia, Ahmedabad.
 Mahesh Medical Stores, Raipur, Ahmedabad.
 Manubhai Jamnadas Sanghavi, Three Gates, Ahmedabad.
 Mehta Medical Stores, Delhi Chakala, Ahmedabad.
 M. Narandas & Co., Raipur Chakia, Ahmedabad.
 Mohanlal & Co., Pankore Naka, Ahmedabad.
 Mohanlal Shankarlal, Three Gates, Ahmedabad.
 Nagindas Dahyabhai, Kalupur Road, Ahmedabad.
 Narash Medical Stores, Ghee Kanta Road, Ahmedabad.
 National Drug Agency, Gandhi Road, Ahmedabad.
 National Medical Stores, Gandhi Road, Ahmedabad.
 Netverlal & Brothers, Pankore Naka, Ahmedabad.
 Netverlal O. Desai, Gandhi Road, Ahmedabad.
 Nerol Agency, Three Gates, Ahmedabad.
 Orient Medical Agencies, Fuwara, Gandhi Road, Ahmedabad.
 Pandit Shah & Co., Three Gates, Ahmedabad.
 Panvel Pharmacy, Gandhi Road, Ahmedabad.
 Parekh Brothers, Gandhi Road, Ahmedabad.
 Parekh Medical Stores, Gandhi Road, Ahmedabad.
 Farmanand Sheth & Co., Gandhi Road, Ahmedabad.
 Patel Brothers, Gandhi Road, Ahmedabad.
 P. Chhotalal Shah & Co., 3084, Three Gates, Ahmedabad.
 Popatlal Manilal, Delhi Chakala, Ahmedabad.
 Ramanlal Bhagat & Bros., Raipur Chakia, Ahmedabad.
 Ramanlal B. Shah, Dandigarani Pole, Ahmedabad.
 Rasiklal Mulshankar & Co., Chaudla, Ahmedabad.
 Rasik Stores, Three Gates, Ahmedabad.
 R. Raman & Co., Gandhi Road, Ahmedabad.
 Sagunral Mehta, Gandhi Road, Ahmedabad.
 Sakalchand Chunilal Gandhi, Three Gates, Ahmedabad.
 Shah Medical Stores, Relief Road, Ahmedabad.
 Shantilal Ambalal, Gandhi Road, Ahmedabad.
 Shantilal Bhogilal & Co., Three Gates, Ahmedabad.
 Swaminarayan Medical Stores, Pankore Naka, Ahmedabad.
 Thakore Stores, Khadia, Ahmedabad.
 Trikamlal Mohanlal & Co., Three Gates, Ahmedabad.
 Union Traders, Three Gates, Ahmedabad.
 Universal Pharmacy, Gandhi Road, Ahmedabad.
 V. Mansukhlal & Co., Raipur, Ahmedabad.
 Vora Brothers, Relief Road, Ahmedabad.

CINEMAS AND THEATRES

Advance Talkies, Lal Darwaja, Ahmedabad.
 Ashok Talkies, Sanki Bhavan Theatre, Gheekanta Road, Ahmedabad.
 Bharat Bhuvan Theatre, Gheekanta Road, Ahmedabad.
 Central Talkies, Bichey Road, Ahmedabad.

Cinema de France, Richey Road, Ahmedabad.
 Grand Theatre, Panchkuwa Gate, Ahmedabad.
 Krishna Cinema, Zaveriwall, Ahmedabad.
 Laxmi Talkies, Gheekanta Road, Ahmedabad.
 L. N. Talkies, Gheekanta Road, Ahmedabad.
 Model Theatres Ltd., Gandhi Road, Ahmedabad.
 Novelty Talkies, Gheekanta Road, Ahmedabad.
 Parimal Talkies, Opp. Pitalla Bumba, Gheekanta Road, Ahmedabad.
 Pratap Talkies, Gandhi Road, Opp. Fuvara, Ahmedabad.
 Rajnagar Talkies, Outside Gomtipur Gate, Ahmedabad.
 Regal Talkies, Gheekanta Road, Ahmedabad.
 Relief Cinema, Jalapose Road & Relief Road Corner, Ahmedabad.
 Rosy Talkies, Outside Sarangpur Gate, Opp. Madhav Baug, Ahmedabad.
 Rupam Theatre, Nagorishala, Patanpole, Ahmedabad.
 Saraswati Talkies, Opp. Railway Station, Ahmedabad.
 Vasant Talkies, Outside Prem Darwaja, near Idgah Police Chowky, Ahmedabad.

CLEARING & FORWARDING AGENTS

EASTERN STORES CO., Kerosene Bazar, Ahmedabad; 56-57, 2nd floor, Bombay Mutual Building, Sir P. Mehta Road, Fort, Bombay.

COTTON MILLS

Ahmedabad Advance Mills Ltd., (Mfg. Agents: Tata Industries, Ltd., Bombay House, 24, Bruce Street, Fort, Bombay), Mill at Shahibag Road, outside Delhi Gate, Ahmedabad.
 Ahmedabad Cotton Mfg. Co., Ltd. (Bagicha Mill), Agents: Amritlal Hargovandas & Bros., Ltd., Office on Mill Premises, outside Sarangpur Gate, Ahmedabad.
 Ahmedabad Jaybharat Cotton Mills Ltd. (formerly Bharat Laxmi Cotton Mills Ltd.), Managed by Board of Directors. Mill beyond Kankaria Railway Siding, Mithipur, Ahmedabad.
AHMEDABAD JUPITER SPG., WVG. & MFG. CO., LTD., Spindles 34,468, Looms 717. Agents: M. Parakh & Co., Private Ltd., 28, Apollo Street, Fort, Bombay. Mills at Dudheshwar Road, Ahmedabad. Manufacturers of Medium, Fine and Superfine cloth, Poplins, Shirtings, Sarcons, Dhories, Volls, Table cloth, Serviettes and Handkerchiefs. WELL KNOWN FOR SANFORIZED POPLINS.
 Ahmedabad Kaiser-I-Hind Mills Co., Ltd. (formerly Ahmedabad Merchants Spinning Mills Co., Ltd.), Agents: Ramanlal Kanalyalal & Co. Ltd., outside Rajpur Gate, Ahmedabad.
 Ahmedabad Laxmi Cotton Mills Co., Ltd., Agents: Hariprasad Jayantilal & Co., Ltd., outside Rajpur Gate, Ahmedabad.
 Ahmedabad Manufacturing and Calico Printing Co., Ltd., The Post Box Nos. 12 & 173, Ahmedabad.
 Ahmedabad New Cotton Mills Co., Ltd., Agents: Narottam Chandulal & Co., Ltd., Mills near Khokra, Mehmedabad, Ahmedabad.
 Ahmedabad New Textile Mills Co., Ltd., Nos. 1 & 2 (formerly Javeri Spg. & Mfg. Co., Ltd.), Narayanlal Jivanlal & Co., Ltd., outside Rajpur Gate, Ahmedabad.
 Ahmedabad Sarangpur Mills Co., Ltd., Agents: Himatlal Motilal & Co., Ltd., outside Rajpur Gate, Ahmedabad.
 Ahmedabad Shri Rama Krishna Mills Co., Ltd., Agents: Chimanlal Maneklal & Co., Ltd., Gomtipur Road, Ahmedabad.
 Ajit Mills Ltd., Rakhial Road, Ahmedabad, Agents: Chinubhai Naranbhai & Co., Ltd. Office on Mill premises.
 Ananta Mills Ltd., Agents: Jayantilal Amratilal Ltd., Post Box No. 42, Ahmedabad. Mill at Rakhial Road, Ahmedabad.
 Aruna Mills Ltd., Agents: P. M. Huthesingh & Sons Ltd., Post Box No. 1,058, Ahmedabad; Mills at Naroda Road, Ahmedabad.
 Arvind Mills Ltd., Agents: Narottam Lalbhai & Co., Naroda Road, Ahmedabad.
 Aryodaya Ginning and Mfg. Co., Ltd., Asarwa Road, Ahmedabad 11.
 Aryodaya Spinning and Weaving Co., Ltd. (Nos. 1 & 2), Agents: Mangaldas & Halabhai & Co., P.O. Box No. 146, Ahmedabad. Mills at Asarwa Road, Ahmedabad.
 Asarwa Mills Ltd., Kodak House, Hornby Road, Fort, Bombay. Mills at Asarwa Road, Ahmedabad.
 Asoka Mills Ltd., Agents: Lalbhai Dalpatbhai & Co., Post Box No. 55, Ahmedabad; Mills at Naroda Road, Ahmedabad.
 Beohardas Spg. & Wvg. Mills Co., Ltd., Agents: Durgaprasad S. Lashkari & Co., Rakhial, Ahmedabad.
 Bhakia Mills Co., Ltd., Agents: Chandulal & Co., Ltd., Kankaria Road, Ahmedabad.
 Bharat Suryodaya Mills Co., Ltd. (formerly India Spg. & Wvg. Co., Ltd.), Agents: Chaturbhujdas K. M. & Co., Managing Agents, Post Box No. 125, Ahmedabad.
 Bharatkhand Textile Mfg. Co., Ltd., Nos. 1 & 2, Agents: Jivanlal Girdharilal & Co., Private Ltd., Post Box No. 80, Ahmedabad. Mills at Camp Road, Ahmedabad.

Bihari Mills Ltd., Agents: Motilal Harilal & Co., Ltd., P.O. Box No. 4, Ahmedabad. Mills near Khokra, Mehmedabad, Ahmedabad.
 City of Ahmedabad Spg. & Mfg. Co., Ltd., 367. Agents: Chamanlal Mangaldas & Sons, Kankaria Road, Ahmedabad.
 Commercial Ahmedabad Mills Co., Ltd., Agents: Dhanjibhai & Tricumlal & Co., Ltd., near Idgah Chowki, Asarwa, Ahmedabad.
 Fine Knitting Co., Ltd., Agents: H. Keshavlal & Co., near Chamunda Mata, Post Asarwa, Ahmedabad.
 Girdhardas Harivallabdas Mills Ltd. (formerly Rajnagar Mills No. 2), Agents: Chamanlal Mangaldas & Co., near Idga Gate, Ahmedabad.
 Gujarat Hosiery Factory, Spg., Mill, Owners: C. C. Dalal & Co., Rakhial Road, Ahmedabad.
 Harivallabdas Mulchand Mills Co., Ltd., Agents: Girdharilal Harilal & Co., outside Darlapur Gate, Ahmedabad.
 Hathisingh Mfg. Co., Ltd., Agents: Maneklal Manukhbhai & Box No. 2, Ahmedabad. Mills near Co., Post Sarapur Gate, Ahmedabad.
 Himabhai Mfg. Co., Ltd., No. 1, Agents: Dhirajlal Khushaldas & Bros., near Saraspur Gate, Ahmedabad.
 Jehangir Vakil Mills Co., Ltd., Agents: Rustumji Mangaldas & Co., Ltd., outside Delhi Gate, Ahmedabad.
 Kalyan Mills Ltd. (Deepak Textile Industries Ltd.), Leaseholders, Director-in-Charge: H. A. Mehta, 10 Camp, Ahmedabad. Mills at Naroda Road, Ahmedabad.
 Lalbhai Tricumlal Mills Ltd., Agents: Chinubhai Lalbhai & Bros. Ltd., Rakhial Road, Ahmedabad.
 Maheshwari Mills Ltd. (formerly Ahmedabad Cotton & Waste Mfg. Co., Ltd.), M/s. T. C. Munshaw & K. C. Munshaw, Directors-in-charge, Post Box No. 79, Ahmedabad. Mill at Shahibag Road, Ahmedabad.
 Maneklal Harilal Spg. & Mfg. Co., Ltd., Agents: Harilal Harivalbhadras & Co., Ltd., Ahmedabad.
 Manekchowk & Ahmedabad Mfg. Co., Ltd., Nos. 1 & 2, Agents: Hirajlal Tricumlal & Sons, Outside Darlapur Gate, Ahmedabad.
 Marsden Spg. & Mfg. Co., Ltd., Marsden Brothers & Co., Ltd., Rakhial Road, Ahmedabad.
 Monogram Mills Co., Ltd., Agents: Manilal Marsden & Co., Ltd., Rakhial, Ahmedabad.
 Nagri Mills Co., Ltd., Agents: Popatlal Chimanlal & Co., Rajpur, Gomtipur Road, Ahmedabad.
 New Asarwa Mills Private Ltd., The (formerly Asarwa Mills Ltd., No. 2); P.O. Railwaypur, Ahmedabad 2.
 New Commercial Mills Co., Ltd., Agents: Trikamlal Bhogilal & Co., Ltd., Naroda Road, Ahmedabad.
 New Gujarat Cotton Mills Ltd., (formerly Gujarat Cotton Mill), Agents: Kanoria & Co. Ltd., 8 Royal Exchange Place, Calcutta, Naroda Road, Ahmedabad.
 New Manekchowk Spg. & Wvg. Co., Ltd., Agent: Sheth Bharat Kumar Chinubhai, Near Idgagat, Asarwa, Ahmedabad.
 New National Mills Ltd., Agents: Trikamlal Bhogilal Sons & Co., Rakhial Road, Ahmedabad.
 New Rajpur Mills Co., Ltd. (formerly Rajpur Mill Ltd.), Agents: Bhikhabhai Jivabhai & Co., Private Ltd., Gomtipur Road, Ahmedabad.
NEW SWADESHI MILLS OF AHMEDABAD, LTD., Naroda Road, Ahmedabad; Phone: 2828; Gram: "NEWSWADESHI"; Spindles 39,296, Looms 848.
 Nutan Mills Ltd., Agents: Jagabhai Bhogilal Nanavaty & Co., Ltd., Anil Road, via Vora's Roja, Railwaypur Post, Ahmedabad.
 Patel Mills Co., Ltd. (formerly Gomtipur Spg., Wvg. and Mfg. Co. Ltd.), Agents: Dhirajlal Chaulal & Co., Gomtipur Road, Ahmedabad.
 Rajpur Mfg. Co., Ltd., Agents: Lalbhai Dalpatbhai & Co., Post Box No. 54, Ahmedabad. Mills outside Saraspur Gate, Ahmedabad.
 Rajnagar Spg., Wvg. & Mfg. Co., Ltd., The, Idgah Gate, Post Box No. 124, Ahmedabad.
 Rohit Mills Ltd., Agents: Lalubhai Gordhandas Ltd., office on mill premises. Mills, Kokhra Mehmedabad, Mithapur, Ahmedabad.
 Rustum Jehangir Vakil Mills Co., Ltd., Agents: Kantilal Shantilal & Co., outside Delhi Gate, Ahmedabad.
 The Sarangpur Cotton Mfg. Co., Ltd., No. 1 & No. 2 Mills—Ahmedabad.
 Saraspur Mills, Ltd. (formerly Saraspur Manufacturing Co., Ltd.), Agents: Lalbhai Dalpatbhai Sons & Co., near Saraspur Gate, Ahmedabad.
 Shorrook Spg. & Mfg. Co., Ltd., Agents: Mafatlal Chandulal & Co. (Ahmedabad) Ltd., Asarwa Road, Ahmedabad.
 Shri Ambica Mills Ltd., Nos. 1 & 2 (formerly Chandrakant Mills Ltd.), Agents: Harivallabdas Kalidas & Co., Kankaria Loco Siding, Ahmedabad.

Silver Cotton Mills Co., Ltd., Agents: Gopalbhai Balabhai & Co. Ltd., Kankaria Loco Siding, Ahmedabad.

SRI VIVEKANAND MILLS LTD., Rakhial Road, Ahmedabad
10. Managing Directors: C. N. Munnshaw, B. N. Spindies:
25000, Looms: Ordinary 400; Automatic 24.

Tarun Commercial Mills Ltd., (formerly Gujarat Spg. & Wvg. Co., Ltd.), Managed by Board of Directors, office on mill premises. Mills at outside Kalupur Gate, Ahmedabad.
Vijay Weaving Works (Vijay Fabrics), 676/12, Railwaypura, Ahmedabad.

Vijaya Mills Co., Ltd., Agents: Haridas Acharya & Co., Ltd., Naroda Road, Ahmedabad.

Vikram Mills, Ltd., Agents: Ramanlal Lalubhai, Ltd., outside Saraspur Gate, Post Railwaypura, Ahmedabad.

CYCLES AND CYCLE ACCESSORIES

Ahmedabad Cycle and Motor Trading Co., Ltd., Richey Road, Ahmedabad.

Allies Cycle & Motor Co., Inside Panchkuva, Ahmedabad.
All India Cycle & Motor Co., Inside Panchkuva, Ahmedabad.
Bhagwati Cycle Stores, Inside Panchkuva, Ahmedabad.
Bhallal & Co., Khadia Char Rasta, Ahmedabad.
Bharat Cycle & Motor Co., Richey Road, Ahmedabad.
Gujarat Cycle & Motor Co., Richey Road, Ahmedabad.
Jain Brothers, Outside Panchkuva, Ahmedabad.
Jitendra Trading Co., Old Mahajanwada, Ahmedabad.
Kalpana Cycle Co., Inside Panchkuva, Ahmedabad.
Manubhai Patel & Co., Inside Panchkuva, Ahmedabad.
Model Cycle Co., Khadia Char Rasta, Ahmedabad.
Modern Cycle Stores, Relief Road, Ahmedabad.
National Cycle & Motor Co., Khadia Char Rasta, Ahmedabad.
National B. Daves & Co., Ltd., Khadia, Char Rasta, Ahmedabad.
New Imperial Cycle Works, Inside Panchkuva, Ahmedabad.
Niranjan Cycle Co., Richey Road, Ahmedabad.
Popular Trading Co., Inside Panchkuva, Ahmedabad.
Rajnagar Cycle Stores, Reid Road, Ahmedabad.
Royal Cycle Importing Co., Pankore Naka, Ahmedabad.
Sarabhai & Co., Richey Road, Ahmedabad.
Sarabhai, C. & Co., Richey Road, Ahmedabad.
Shah Brothers, Pankore Naka, Ramakada Market, Ahmedabad.
Shah Cycle Stores, Richey Road, Ahmedabad.
Shah Trading Co., Ltd., Khadia Char Rasta, Ahmedabad.
Sun Saddle Cover Works, Khadia Char Rasta, Ahmedabad.
United Cycle & Motor Co., Inside Panchkuva, Ahmedabad.
Universal Cycle & Motor Co., Richey Road, Ahmedabad.
Vijay Cycle Co., Richey Road, Ahmedabad.

DAMPCOURSING

GLADSTONE LYALL & CO., LTD.—Agency Office, Textile & General Engineering Stores, Prajapati Laladas Bldg., Khadia, Char Rasta, Ahmedabad. Bombay Manager: A. V. Ryan. Head Office: 4, Fairlie Place, Calcutta.

DIESEL ENGINES

FEROZE P. CHANEWALLA, Kasteerbhai Blocks, Lal Darwaja, Ahmedabad. Phone: 3082; Grams: "EFFICIENT"; Distributor for Gujarat for Genuine Spare Parts of Armstrong Siddley Diesel Oil Engines.

Hind Hardware Stores, Kadla Building, Relief Road, Ahmedabad.
Mistry Ambalal Jetharam, Iron and Brass Factory, Gheekanta Road, Ahmedabad.
Moulding Engineering Co., Shahpur Mills Compound, Ahmedabad.
Nima Trading Co., Cross Lane, Ahmedabad.
Ranjit Electric and Engineering Corporation, Madina House, Near Jakaria Masjid, Relief Road, Ahmedabad.
S. Sutar & Co., 697/82-8, Reid Road, Ahmedabad.
Volta Limited, Mirzapur, Ahmedabad 1.

DYEING AND PRINTING COMPANIES

Ahmedabad Dyeing and Printing Ltd., Dudeswar Road, Ahmedabad.
Ahmedabad Textile Engraving Works, New Cotton Mills Compound, Ahmedabad.
Hindustan Calico Engraving Works, 1332, Tajpur, Nadiawad, Ahmedabad.
Honesty Calico Printers, New Cotton Mills No. 1, Kankaria Road, Ahmedabad.
Mehta Dyeing & Printing Works, New Cotton Mills No. 1, Raipur Gali, Ahmedabad.
P. B. Dyeing and Printing Works, Daaha Diha Wadi, Astodia Ohakia, Ahmedabad.
Rajendra Dyeing and Printing Mills, Madhubhai Colony, Saraspur, Ahmedabad.
Shree Laxmi Vijay Dye Works, 106, Gallar's Street, Raipur, Ahmedabad.
Shri Arunodaya Dyeing Works, Dudeswar Road, Ahmedabad.

ELECTRIC MOTORS, GENERATORS & SETS

Radiant Electric & Machinery Co., Mangal Bhavan, 2750, Relief Road, Ahmedabad; Phone: 3272; Vithaldas Chambers, Bruce St., Fort, Bombay.

ELECTRICAL CONTRACTORS AND ELECTRIC GOODS DEALERS

A. B. H. Trades Agencies, Richey Road, Ahmedabad.
Ahmedabad Electric Equipment Co., Hanmanwalli Pole, Ahmedabad.
Ahmedabad Electric Stores, Richey Road, Ahmedabad.
Amers Engineers, Relief Road, Ahmedabad.
Asara Electric Co., Richey Road, Ahmedabad.
Bhagyodaya Electric Co., Gandhi Road, Near Post Office, Ahmedabad.
Bharat Electric Stores, Sakar Bazar Cross Lane, Ahmedabad.
British Insulated Callenders Cable Co., Ltd., Electricity House, Lal Darwaja, Ahmedabad.
Chitra Electric Trading Co., 15, Bharat Colony, P.O. Navjivan, Ahmedabad 14.
Chokshi Trading Co., Relief Road, Ahmedabad.
O. J. Patel & Co., Richey Road, Opp. Pada Pole, Ahmedabad.
Despak Radio Electric Stores, Panchkuva, Mehta Building, Ahmedabad.
E. A. Latif & Son, Revdi Bazar, Railwaypura Post, Ahmedabad.
Empire Electric Co., Richey Road, Ahmedabad.
Empire Electric Stores, Richey Road, Ahmedabad.
Fine Electric Co., Richey Road, Ahmedabad.
Gopani Electric Co., Four Roads, Khadia, Ahmedabad.
Gujarat Electric Co., Ltd., Richey Road, Ahmedabad.
Hathising Engineering, Ghee Kanta, Ahmedabad.
Indian Electric Co., Richey Road, Ahmedabad.
Indo British Chemical Co., Astodia Chakia, Ahmedabad.
International Electric Equipment Co., Reid Road, Ahmedabad.
Jaya Bharat Electric Co., Pankore Naka, Ahmedabad.
Jaya Bharat Electric Syndicate, Relief Road, Ahmedabad.
Jaya Hind Electric Co., Mandvini Pole, Ahmedabad.
Jayahind Electric Corp., Ghee Kanta, Ahmedabad.
Jyvant Electric Machinery Co., Raypur Chakia, Ahmedabad.
J. Bodiwala & Co., Richey Road, Opp. Pada Pole, Ahmedabad.
Jupiter Electric Co., Sarangpur, Talia's Pole, Ahmedabad.
Jwahaar Electric Co., Dhikava Choki, Ahmedabad.
Jyoti Electric Trading Co., Richey Road, Ahmedabad.
Kapadia Electric Works, Richey Road, Ahmedabad.
Kevalehand & Co., Richey Road, Ratan Pole Naka, Ahmedabad.
Krishnakumar & Co., Relief Road, Ahmedabad.
Madan Electric Co., Delhi Chakia, Ahmedabad.
Mahalaxmi Electric Stores, Sarangpur, Dukharani Pole, Ahmedabad.
Mahalaxmi Trading Syndicate, Richey Road, Ahmedabad.
Mehta Electric Co., Richey Road, Ratan Pole Naka, Ahmedabad.
M. Shukla & Co., Delhi Chakia, Ahmedabad.
National Electric Stores, Richey Road, Ahmedabad.
National Electric Trading Co., Richey Road, Ahmedabad.
Noble Trading Agency, Richey Road, Ahmedabad.
Patel Bros., Bhadra, Ahmedabad.
P. G. Ghandhi & Co., Reid Road, Ahmedabad.
Prabhat Electric Syndicate Ltd., Jain Wadi, Ahmedabad.
Premier Electric Agency, Ratan Pole, Golwad, Ahmedabad.
Radiant Electric Machinery Co., Four Roads, Khadia, Ahmedabad.
Rajendra Electric Stores, Panchkuva, Ahmedabad.
Rajnagar Electric Co., Richey Road, Ahmedabad.
Ranjit Electric Co., Bala Hanuman, Ahmedabad.
Regal Trading Co., Richey Road, Opp. Pada Pole, Ahmedabad.
R. G. Bhow & Co., Opp. Jumma Masjid, Ahmedabad.
Royal Electric Stores, Relief Road, Ahmedabad.
Sardar Electric Co., Richey Road, Ahmedabad.
S. B. Bhow & Co., Opp. Jumma Masjid, Ahmedabad.
Standard Electric Works, Outside Three Gates, Ahmedabad.
Star Electric Co., Richey Road, Ahmedabad.
Star Radio & Electric Co., Ghee Kanta, Ahmedabad.
Sun Electric & Motor Stores, Richey Road, Ahmedabad.
Sun Electric Stores, Richey Road, Ahmedabad.
Suresh Electric Co., Relief Road, Ahmedabad.
Surti Electric House, Richey Road, Ahmedabad.
Tarun Electric Co., Richey Road, Opp. Pada Pole, Ahmedabad.
The Reliance Electric Co., Opp. Jumma Masjid, Ahmedabad.
Trikamlal K. Mehta, Sankdi Sheri, Ahmedabad.
Trivedi Electric Co., Richey Road, Opp. Pada Pole, Ahmedabad.
Union Electric Co., Ltd., Ghee Kanta, Ahmedabad.
Venus Electric Co., Richey Road, Ahmedabad.
Vinayak Electric Co., Reid Road, Ahmedabad.
Vyas Electric Works, Madalpur, Ahmedabad.

ELECTRICAL ENGINEERS & DEALERS IN ELECTRICAL GOODS

Arvind Electric & Textile Stores, 611, Near Balahanuman, Gandhi Road, Ahmedabad.
E. A. Latif & Son, Revdi Bazar, Railwaypura Post, Ahmedabad.

General Electric Works, Relief Road, Opp. Jakaria Masjid, Ahmedabad.
 Gujarat Electric Co. Ltd., The, Gandhi Road, Ahmedabad.
 Radiant Electric & Machinery Co., Mangal Bhavan, 2750, Relief Road, Ahmedabad. Phone : 3272. Vithaldas Chambers, Bruce St., Fort, Bombay 1.
 R. G. Bhow & Co., opp. Juma Masjid, Ahmedabad.

ELECTRICAL GOODS & APPLIANCES

Chitra Electric Trading Co., Dealers in Philips Lamps & Lighting; Everything Electrical & Contractors, Vasulaxmi, 15, Bharat Colony, P.O. Navjivan, Ahmedabad 14; 123, Mahatma Gandhi Road, Bombay 1.

ELECTRICAL INDUSTRIES

THE AHMEDABAD ELECTRICITY COMPANY, LTD.

Agents: Messrs. Killick Industries Ltd., Home Street, Fort, Bombay 1.

Office: "Electricity House", Lal Darwaja, Post Box No. 37, Ahmedabad 1.

K. N. Paulin, M.I.E.E., Resident General Manager.

C. J. Scudamore, M.I.E.E., M. Inst. E., Chief Engineer.

R. R. Ferris, Assoc. I.E.E., Assistant Chief Engineer and Manager.

Brig. N. D. Bilimoria, Administration Manager.

J. G. Patel, A.M.I.E.E., Commercial Engineer and Manager.

B. S. G. Acharya, B.Sc., A.M.I.E.E., Mains Engineer.

H. D. Mehrotra, M.A., B.Com., Chief Accounts Officer.

D. C. Bhardwaj, B.Sc. (Eng.), A.M.I.E.E., Superintendent, Sabarmati Power Station.

Power House : Sabarmati, Ahmedabad 8.

Central Administration Deptt.: 5, Graham Road, (4th floor), Ballard Estate, Post Box No. 109, Bombay 1.

ENGINEERING STORES

Ahmedabad Hardware Stores, Relief Road, Ahmedabad.
 Allied Engineers, Reid Road, Ahmedabad.
 Behari Bros., Outside Panchkuva, Ahmedabad.
 H. Chokshi & Company, Kapasia Bazar, Ahmedabad.
 S. Sutarla & Co., 697/32-6, Reid Road, Ahmedabad.

ENGINEERING WORKSHOPS

Jagdish Iron & Brass Factory, 1175, Pankore Naka, Ahmedabad.
 Mistry Ambalal Jetharam, Gheekanta, Ahmedabad.

ENGINEERS AND CONTRACTORS

AHMEDABAD GENERAL ENGINEERING WORKS

Phone : 81878. Grams : "WINDOWS."

822/1, Outside Panchkuva Gate, Ahmedabad 2.

Manufacturers of :—

● Casement Steel Windows and Doors ● Fire-Proof Doors ● Factory Sash ● Collapsible Gates ● W. I. Grills ● Northlights Trusses and Purlins.

Steel Tanks, Structural Fabrication of all types.

O. B. Sutarla Bros., Cross Lane, Opp. Railway Station, Ahmedabad.
 Radiant Electric & Machinery Co., Mangal Bhavan, 2750, Relief Road, Ahmedabad. Phone : 3272. Vithaldas Chambers, Bruce St., Fort, Bombay 1.
 Shree Mahalaxmi Engineering Works, Outside Delhi Gate, Opp. Painter Garden, Ahmedabad 1.

GENERAL MERCHANTS

Associated Traders, Sethia Bldg., Relief Road, Ahmedabad.
 Bharat Traders, General Merchants & Commission Agents. Phone : 7791, P.O. Box No. 1095, Ahmedabad 2.
 Kishore Trading Corporation, 702/6, Revdi Bazar, Ahmedabad.
 Navatal & Co., 485/3, Revdi Bazar, Railwaypura Post, Ahmedabad.

GRAMOPHONE DEALERS

LEOPHONE TALKING MACHINE CO., THE, 46, Gandhi Road, Ahmedabad 1. Estd. 1906. Biggest & Cheapest Wholesale Gramophone House in India. Grams : "LEOPHONE."

HANDLING EQUIPMENT MANUFACTURERS

TEXTILE MACHINERY MANUFACTURING COMPANY, Engineers and Merchants, Lal Cinema Compound, Gemtipur Road, Ahmedabad 10.

HARDWARE MERCHANTS

A. Raman & Co., Kapasia Bazar, Ahmedabad.
 A. B. Engineers, Kapasia Bazar, Ahmedabad.
 A. B. Shah & Co., Revdi Bazar, Ahmedabad.
 Ahmedabad Hardware Stores, Relief Road, Ahmedabad.
 Allied Engineers, Reid Road, Ahmedabad.
 Babu & Co., Ghee Kanta Road, Ahmedabad.
 Ball Bearing & Machinery Syndicate, Kapasia Bazar, Ahmedabad.
 B. Jhaveri & Co., Relief Road, Ahmedabad.
 Batliboi & Co., Reid Road, Ahmedabad.
 Bihari Bros., Outside Panchkuva, Ahmedabad.
 C. Vadilal & Co., Reid Road, Ahmedabad.
 Eastern Hardware and Millstore Co., Reid Road, Ahmedabad.
 General Commercial Agency, The, Cross Lane, Ahmedabad.
 Harry Engineering Corp., Danapith, Ahmedabad.
 H. Chokshi & Company, The, Kapasia Bazar, Ahmedabad.
 Hutheesing Engineering Co., Ghee Kanta Road, Ahmedabad.
 Jayant Radio Corporation, Bhadra, Ahmedabad.
 Kamlesh Corporation, Kapasia Bazar, Ahmedabad.
 Kant Engineering Co., Kapasia Bazar, Ahmedabad.
 Kantilal & Co., Bhagat Niwas, Ghee Kanta Road, Ahmedabad.
 Kirtilal & Co., Lunsawad, Ahmedabad.
 Kirtilal Nanlal & Co., Reid Road, Ahmedabad.
 Laxmandas Vithaldas, Mandvi's Pole, Ahmedabad.
 Machine Products (India) Ltd., Revdi Bazar, Ahmedabad.
 Machine Tools & Hardware Corp., Reid Road, Ahmedabad.
 Manilal & Bros., Companywala Market, Kapasia Bazar, Ahmedabad.
 M. D. Shah & Co., 670/1, Reid Road, Railwaypura Post, Ahmedabad.
 Model Machinery Ltd., Kapasia Bazar, Ahmedabad.
 Natvarlal M. Fadia & Co., Kapasia Bazar, Ahmedabad.
 N. K. Fadia & Co., Kapasia Bazar, Ahmedabad.
 Nima Trading Co., Cross Lane, Ahmedabad.
 P. Chandra & Co., Cross Lane, Ahmedabad.
 Radiant Electric & Machinery Co., Khadia, Char Rasta, Ahmedabad.
 Ranjit Electric & Eng. Corp., Relief Road, Ahmedabad.
 Regal Trading Co., Khadia Char Rasta, Ahmedabad.
 Standard Materials Co., Kapasia Bazar, Ahmedabad.
 S. K. Ghose & Co., Kapasia Bazar, Ahmedabad.
 Satish Stores Trading Co., Kapasia Bazar, Ahmedabad.
 Shah Patel & Co., Kapasia Bazar, Ahmedabad.
 Sheth Stores Trading Co., Station Road, Ahmedabad.
 Shivalal Virchand, Contractor, Bhut's Ambli, Ghee Kanta Road, Ahmedabad.
 S. Sutarla & Co., Reid Road, Ahmedabad.
 Star Radio Electric Co., Ghee Kanta Road, Ahmedabad.
 Swastik Eng. Works, Ghee Kanta, Ahmedabad.
 Tubewells Ltd., Vishnu Bhuvan, Relief Road, Ahmedabad.
 U. D. Dave & Co., Relief Road, Ahmedabad.
 Universal Syndicate Agency, Dariapur, Ahmedabad.

HOSIERY MANUFACTURERS

Fine Knitting Co., Ltd., Naroda Road, Ahmedabad.
 Shree Ambika Hosiery Works, New Cotton Mill No. 1 Compound, Kankaria Road, Ahmedabad.

HOTELS AND RESTAURANTS

Anand Nivas, Guest House, Opp. Krishna Cinema, Relief Road, Ahmedabad.
 Bombay Hotel, Shahibaug, Ahmedabad.
 Grand Hotel, Lal Darwaja, Ahmedabad.
 HAV-MOR RESTAURANT, Opp. Krishna Cinema, Relief Road, Ahmedabad.

Imperial Restaurant, Relief Road, near Electric House, Ahmedabad.
 Jawahar Hindu Hotel, Gandhi Road, Ahmedabad.
 Jawahar Hotel, Outside Kalupur Darwaja, Ahmedabad.
 Laxmi Villas Hindu Hotel, Gandhi Road, Ahmedabad.
 Modern Cold Drink House, Bhadra, Ahmedabad.
 Naar Restaurant, Near Relief Cinema, Relief Road, Ahmedabad.
 Niroa Restaurant, Relief Road, Ahmedabad.
 Patel Soda Fountain and Restaurant, 1093, near Dhana Suthar's Pole, Relief Road, Ahmedabad.
 Radio Hindu Hotel, Delhi Chakla, Ahmedabad.
 Railway Cold-drink & Tea House, Opp. Railway Station, Ahmedabad.
 Ritz Hotel, Lal Darwaja, Ahmedabad.
 Vina Restaurant, 482, Revdi Bazar Cross Lane, Ahmedabad.

ICE FACTORIES

Agarwal Ice Factory, Dudeswar Road, Ahmedabad.
 City Ice Factory, Gontipur Road, Ahmedabad.
 Gajendra Ice Depot, Rholwada's Pole, Kalupur, Ahmedabad.
 Solki Ice and Coldstorage Co., near Dariakhan Gumat, Shahibaug, Ahmedabad.

INSURANCE COMPANIES

All India General Insurance Co., Ltd., Phanlaxmi Market, Ahmedabad.
 Anand Insurance Co., Ltd., 619, Reid Road, Ahmedabad.
 Argus Insurance Co., Ltd., 260, Gandhi Road, Ahmedabad.
 Asian Assurance Co., Ltd., Seth Haridas Bldg., Cross Lane, Station Road, Ahmedabad.
 Bharat Insurance Co. Ltd., near Fuvara, Gandhi Road, Ahmedabad.
 Bombay Fire Insurance Assoc., The Cellar, Khampur, Ahmedabad.
 British India General Insurance Co., Ltd., Mirzapur Road, Ahmedabad.
 Commercial Union Assurance Co., Ltd., Natalwala Bldg., Khadia, Char Rasta, Ahmedabad.
 Commonwealth Assurance Co., Ltd., Reid Road, Ahmedabad.
 Concord of India Insurance Co. Ltd., Sir Chinubhai Bldg., Revdi Bazar, Cross Lane, Ahmedabad.
 Deepak General Insurance Co., Ltd., Khadia, Char Rasta, Ahmedabad.
 Eastern Federal Union Insurance Co. Ltd., Lal Darwaja, Ahmedabad.
 General Assurance Society Ltd., Near Model Talkies, Gandhi Road, Ahmedabad.
 Hindustan Co-operative Insurance Society Ltd., Relief Road, Ahmedabad.
 Home Insurance Co. Ltd., Revdi Bazar, Cross Lane, Ahmedabad.
 Indian Trade and General Insurance Co. Ltd., Kapasia Bazar, Ahmedabad.
 Industrial and Prudential Assurance Co., Ltd., Bhadra, Ahmedabad.
 Jayabharat Insurance Co. Ltd., Vakil Bldg., Khadia, Char Rasta, Ahmedabad.
 Jupiter General Insurance Co. Ltd., Khadia, Char Rasta, Ahmedabad.
 Kaiser-i-Hind Insurance Co. Ltd., Khadia, Char Rasta, Ahmedabad.
 National Fire and General Insurance Co., Ltd., Gandhi Road, Ahmedabad.
 National Insurance Co. Ltd., Gandhi Road, Ahmedabad.
 Neptune Assurance Co. Ltd., Outside Panchkuva Gall, Ahmedabad.
 New Asiatic Insurance Co. Ltd., Next to Model Talkies, Gandhi Road, Ahmedabad.
 New Great Insurance Co. of India Ltd., Allahabad Bank Bldg., Pankore Naka, Ahmedabad.
 New India Assurance Co. Ltd., Gandhi Road, Opp. Fuvara, Ahmedabad.
 New Zealand Insurance Co. Ltd., Revdi Bazar, Cross Lane, Ahmedabad.
 Oriental Fire and General Insurance Co. Ltd., Relief Road, Ahmedabad.
 Oriental Govt. Security Life Assurance Co., Ltd., Relief Road, Ahmedabad.
 Pearl Assurance Co. Ltd., 649, Nanavati Bldg., Richey Road, Ahmedabad.
 People's Insurance Co. Ltd., Richey Road, Ahmedabad.
 Royal Insurance Co. Ltd., Near Zakaria Masjid, Relief Road, Ahmedabad.
 Ruby General Insurance Co. Ltd., Karanj, Bhadra, Ahmedabad.
 Sentinel Assurance Co., Ltd., Reid Road, Ahmedabad.
 South British Insurance Co. Ltd., Near Electric House, Lal Darwaja, Ahmedabad.
 Standard General Insurance Co. Ltd., Khadia, Char Rasta, Ahmedabad.
 Tropical Insurance Co. Ltd., 571-2, Reid Road, Ahmedabad.
 Universal Fire and General Insurance Co. Ltd., Near Post Office, Gandhi Road, Ahmedabad.
 Vulcan Insurance Co. Ltd., Bhadra, Ahmedabad.
 Warden Insurance Co. Ltd., Three Gates, Ahmedabad.

IRON, STEEL AND BRASS WORKS

C. K. Vohora & Co., Revdi Bazar, Ahmedabad 2.
 Eastern Iron & Steel Traders, The, Relief Road, Ahmedabad.
 Kashiparekh Bros., 664, Reid Road, Ahmedabad.
 Laxmi Vijaya Brass & Iron Works, Ghee Kanta Road, Pittala Bamba, Ahmedabad 1. Tel. No. 3008.
 Tata Iron and Steel Co. Ltd., Co-operative Bank Bldg., Near Relief Cinema, Ahmedabad.

IRON & STEEL MERCHANTS

J. RAMANLAL & CO., Estd. 1939, 675, Sakar Bazar, Cross Lane, Ahmedabad 2. Phone : 3143. Sams : "IRON."

LEATHER GOODS

Frion & Co., Reid Road, Ahmedabad.
 H. Mansuri & Sons, Post Box 84, Ahmedabad.
 Jalhind Leather Industries Ltd., Reid Road, Ahmedabad 2.
 Leather Textiles Ltd., Ellis Bridge, Ahmedabad.

SWASTIK TEXTILE TRADING CO., PRIVATE LTD., Motilal Hirabhai Market, Railwaypura Post, Ahmedabad 2.

LUBRICATING OILS AND GREASES

Ahmedabad Hardware Stores, Relief Road, Ahmedabad.
 American Oil & Trading Co., Jakeri Building, Revdi Bazar, Ahmedabad 2. Phone : 3700. Grams : "OILS."
 Bihari Bros., Outside Panchkuva, Ahmedabad.
 G. M. Patel & Sons, Kapasia Bazar, Ahmedabad.
 Nima Trading Co., Cross Lane, Ahmedabad.
 Ranjeet Electric & Engineering Corporation, Madina House, Near Jakaria Masjid, Relief Road, Ahmedabad.

MACHINERY IMPORTERS, DEALERS, MANUFACTURERS, ETC.

Acme Agencies, Motilal Mansion, Kapasia Bazar, Ahmedabad.
 A. Bhuderbhai Kishor & Sons, Gheekanta Road, Ahmedabad.
 Ahmedabad Iron & Brass Factory, Bharatkhand Mills Compound, Ahmedabad.
 Ahmedabad Victoria Iron Works & Co., Ltd., The, Dudeswar Road, Ahmedabad.
 A. R. Engineering Works, Near Munshi Soda Factory, Mirzapur, Ahmedabad.
 Ashok Vijay Engineering Works, Delhi Darwaja, Ahmedabad.
 Asiatic Bolt & Engine Ring Works, Rakhial Road, Ahmedabad.
 A. Vaidial & Co., Mirzapur Road, Near Hajt Building, Ahmedabad.
 B. A. Panchal & Co., Gosalji's Wanda, Gheekanta Road, Ahmedabad.
 Bharat Iron & Brass Factory, Sarva, Haripur Road, Ahmedabad.
 B. Kapasi & Co., Khodli Ambli, Harmanwalli Pole, Ahmedabad.
 B. M. Panchal & Co., Gheekanta Road, opp. Masjid, Ahmedabad.
 B. P. Engineering Works, Gheekanta Road, Ahmedabad.
 Brass & Iron Works, Sarangpur, Madhubhai Colony, Ahmedabad.
 C. C. Mashruwala, Kapasia Bazar, Ahmedabad.
 C. C. Ranchhodlal & Co., Chanunda Road, Naroda, Ahmedabad.
 C. V. Engineer, Gheekanta Road, Dudhiwal Pole, Ahmedabad.
 Dalpatram Girdharilal & Co., Lunawad Nariawad, Ahmedabad.
 D. P. Mistry & Sons, Santram Road, Nadiad.
 D. Shantilal & Co., Gheekanta Road, Bhutni Ambli, Ahmedabad.
 Engineer & Sons, Darlapur, Char Rasta, Ahmedabad.
 Forge & Blower Co., Under Sarangpur Bridge, Ahmedabad.
 G. A. Latif & Sons, Latif Bldg., Revdi Bazar, Ahmedabad.
 Gopalas Khemchand Tijoriwala, Delhi Darwaja, P.G., Ahmedabad.
 Govindlal Keshavlal, Gheekanta Road, Bhutni Ambli, Ahmedabad.
 Gujarat Engineering Co., Bava's Dehla, Prem Darwaja, Ahmedabad.
 Gujarat Iron Works, Gheekanta Road, Ahmedabad.
 Harshad Iron & Brass Factory, Darlapur, Changli's Pole, Ahmedabad.
 Herold Metal Corporation, Salapose Road, Near G.P.O., Ahmedabad.
 Hind Hardware Stores, Kadla Bldg., Relief Road, Ahmedabad.
 Hind Sewing Machine Works, Salapose Road, Corner Lane, Ahmedabad.
 India Metal Works, Mirzapur Road, near I.T.O., Ahmedabad.
 Indian Engineering Works, Astodia, near Anjuman H.S., Ahmedabad.
 Indian Iron & Brass Works, The, City Danapith, Ahmedabad.
 Indian Textile Works, The, Sarangpur, Madhubhai Colony, Ahmedabad.
 Industrial Engineering Works, The, Sarangpur, Madhubhai Colony, Ahmedabad.
 Jagdishchandra & Brothers, Delhi Chakla, Shak Market, Ahmedabad.
 Jagdish Engineering Works, Darlapur, behind Tower, Ahmedabad.
 Jagdish Industrial Works, outside D. G., Chhotalal's Chali, Ahmedabad.

Jagdish Iron & Brass Factory, Pankore Naka, Ahmedabad.
 Jotaram Becharadas & Co., Saraspur, Ambliwad, Ahmedabad.
 Jubilee Iron Works, Dariapur, Rupapari, Ahmedabad.
 Karsandas Becharadas & Sons, Amdupura, Saraspur, Vora's Roja, Ahmedabad.
 Kasturbhai Ramchandra & Bros., Pankore Naka, Ghanchi's Wadi, Ahmedabad.
 Keshavlal Ambaram & Brothers, Gosaji's Wanda, Gheekanta Road, Ahmedabad.
 Kirtlal Nanalal & Company, Reid Road, Railwayपुर Post, Ahmedabad.
 Krishna Sahay Brass Factory, Delhi Chakla, Bhojwada, Ahmedabad.
 Large Engineering Corporation, Revdi Bazar, Ahmedabad.
 Lavjibhai Mavjibhai & Sons, City Danapith, Ahmedabad.
 Laxmi Moulding Works, Asarva, Haripur Road, Ahmedabad.
 Laxminarayan Sharma & Co., Lunsawada, Kumbharwada, Ahmedabad.
 Laxmi Vijay Iron & Brass Works, The, Gheekanta Road, Pitalla Bumba, Ahmedabad.
 Machinery Manufacturing Works, The, Khodi Anuli, Ahmedabad.
 Machinery Stores Traders, 661, Kapasia Bazar, Ahmedabad.
 Machinery Supplying Co., The, Kankaria Road, Ahmedabad.
 Machine Tools & Hardware Corporation, Reid Road, Railwayपुर, Post Box No. 1002, Ahmedabad.
 M. D. Shah & Co., 570/1, Reid Road, Railwayपुर Post, Ahmedabad.
 Mahavir Iron & Brass Factory, Dariapur, near Ghanchi's Wadi, Ahmedabad.
MANILAL & BROTHERS, 626, Reid Road, Ahmedabad 2.
Pipe Fittings, Hardware and Machinery Merchants.
Office: Chawri Bazar, Delhi 6. Grams: "RUBERBELT."
METAL MOULDERS PRIVATE LTD., Dudheshwar Road, Ahmedabad.
 Metropolitan Engineering Works, Delhi Chakla, Gheekanta Road, Ahmedabad.
 Mistry, Ambalal Jetharam, Gheekanta Road, Ahmedabad. Phone: 3083. Grams: "CLOTH PRINT."
 Mistry, Chhaganlal Govindlal, Lunsawada, Kumbharwada, Ahmedabad.
 Mistry, Damodardas Himatlal & Co., Kalupur, Panchpatl, Ahmedabad.
 Mistry, Jivanlal Dhanjibhai, Gheekanta Road, opp. Masjid, Ahmedabad.
 Mistry, Khodidas Motiram, Mirzapur, Rentlawadi, Ahmedabad.
 Mistry, Mangaldas Jethabhai I. & B. F., Dariapur, Char-rasta, Ahmedabad.
 Mistry, Mohanlal Veldas & Co., Sankadi Sheri, Dedka's Gali, Ahmedabad.
 Mistry, Popatlal Narabhai, Gheekanta Road, Bhutni Ambli, Ahmedabad.
 Mistry, Shivram Ganesh & Sons, Astodia Chakla, Ahmedabad.
 Mistry, Sovannath Urdhardas, Tajpur, Tadui Sheri, Ahmedabad.
 Mistry, Zaverbhai Rudabhai, Khadia, Wada Pole, Ahmedabad.
 M. M. Panchal, City Danapith, Ahmedabad.
 Modern Engineering & Moulding Co., Shahpur Mills Compound, Ahmedabad.
 Monesty Engineering Works, Dariapur, Char Rasta, Ahmedabad.
 Narandas Becharadas & Bros., Dariapur, Char Rasta, Ahmedabad.
 N. Mohanlal & Co. Pankore Naka, Ahmedabad.
 Novateing Rupram I. & B. F., opp. B. C. High School, Ahmedabad.
 Omkar Iron & Brass Factory, Dariapur, Char Rasta, Ahmedabad.
 Oriental Engineering Works, Sarangpur, Madhubhai Colony, Ahmedabad.
 Padshah Brothers, Khodi Ambli, Harmanwali Pole, Ahmedabad.
 Pahelwan Rustamkhan Nawabkhan, Gheekanta Road, Bhutni Ambli, Ahmedabad.
 Panchal Atmaram Ishwardas, Dariapur, Rupapari, Ahmedabad.
 Panchal Atmaram Mohanlal, Mirzapur, Rotlawadi, Ahmedabad.
 Panchal Babulal & Brothers, Dariapur, Rupapari, Ahmedabad.
 Panchal Fakirchand Hirachand, Gheekanta Road, opp. Masjid, Ahmedabad.
 Panchal Hirachand Revandas, Gheekanta Road, Bhutni Ambli, Ahmedabad.
 Panchal Iswardas Harjivandas, Dudheshwar Road, Ahmedabad.
 Panchal Jatahankar Ambalal, Golwad, M. G. Road, Viramgam.
 Panchal Jivanlal Mepabhai, Gosaji's Wanda, Gheekanta Road, Ahmedabad.
 Panchal Kalkidas Ranchhodas, Gheekanta Road, Hargovan Keval Street, Ahmedabad.
 Panchal Kalkidas Rughnath, near Munshi Soda Factory, Mirzapur, Ahmedabad.
 Panchal Keshavlal Laxmichand, Dariapur, Ghanchi's Wadi, Ahmedabad.
 Panchal, Lallubhai Hirabhai, Gheekanta Road, Bhutni Ambli, Ahmedabad.
 Panchal, Manilal Maganlal, Rentlawadi, Mirzapur Road, Ahmedabad.
 Panchal, Mathuradas Shankarlal & Bros., Gheekanta Road, Ahmedabad.
 Panchal, Shivram Bhuderdas, Gheekanta Road, Dabhadia Kuva, Ahmedabad.

Panchal, Trikamlal Maganlal, Gheekanta Road, Bhutni Ambli, Ahmedabad.
 Panjab Railt Factory, Chokha Bazar, Ahmedabad.
 P. A. Panchal, Dariapur, Changli Pole, Ahmedabad.
 Patel, Ambalal Narottamdas, Shahpur Nagoriwad, Ahmedabad.
 Popular Textile Company, Bharatkhand Mills Compound, Ahmedabad.
 Prabhudas & Co., Rentlawadi, Mirzapur Road, Ahmedabad.
 Prem Roy Bros., L. K. Trust Bldg., Panchkuva, Ahmedabad 7. Grams: "SULATA."
 Punjabhai Vanmalidas & Sons, Gheekanta Road, Mendi's Khancha, Ahmedabad.
 Radiant Electric & Machinery Co., Mangal Bhavan, 2750, Relief Road, Ahmedabad. Phone: 3272. Vithaldas Chambers, Bruce St., Fort, Bombay 1.
 Rally Metal Works, Patthar Kuva, Relief Road, Ahmedabad.
 Ramchandra Iron & Brass Works, Lunsawada, Golwad, Ahmedabad.
RAMVIJAY IRON WORKS, 664, Gheekanta Road, Ahmedabad;
Manufacturers, Machinery Spare Parts; Specialists for
Drilling Machines, Hand Pumps, Emery Grinders, Blowers,
Boring Materials, Foot Valves, etc.
 Ranjeet Electric & Engineering Corporation, Relief Road, Near Jakaria Masjid, Ahmedabad.
 Rastriya Iron Works, outside Dariapur Darwaja, Ahmedabad.
 R. Keshavlal & Bros., Lunsawada, Kumbharwada, Ahmedabad.
 R. Maganlal & Co., Kapasia Bazar, Ahmedabad.
 Rohit Iron & Brass Factory, Delhi Chakla, Gheekanta Road, Ahmedabad.
 Royal Iron Works, Kankaria Road, N. C. Mills, Ahmedabad.
 Sabarmati Engineering Works, Sabarmati Railway Oil Mills, Sabarmati.
 Sanchal Kalidas Ranchhodas, Gheekanta Road, Hargovan Keval Street, Ahmedabad.
 Saraswati Moulding Works, Shahpur Darwaja, Marwadi Chali, Ahmedabad.
 Sattle Trunk Workshop, outside Prem Darwaja, Ahmedabad.
 Shantlal & Co., Kalupur, Panchpatl, Navgaja Pir, Ahmedabad.
 Sheth Stores Trading Co., Deepak Chambers, Station Road, Ahmedabad 2. Phone: 3470
 Shree Ambika Vijay & Co., Gheekanta, Gosaji's Ullada, Ahmedabad.
 Shree Ambika Vijay Iron & Brass Factory, Lunsawada, Chhagara's Pole, Ahmedabad.
 Shree Hanumant Vijay Iron & Brass Factory, Dariapur, Ghanchi's Wadi, Ahmedabad.
 Shree Jagdish Rajnagar Iron & Brass Factory, City Danapith, Ahmedabad.
 Shree Krishna Iron & Brass Factory, Lunsawada, Kumbharwada, Ahmedabad.
 Shree Ramkrishna Engineering Works, Outside Dariapur Gate, Ahmedabad.
 Shree Satyanarayan Iron & Brass Factory, Dariapur, Ahmedabad.
 Shree Shakti Iron Works, Delhi Darwaja, Hathibhai's Wadi, Ahmedabad.
 Shree Shakti Vijay Brass & Iron Works, Lunsawada, Kumbharwada, Ahmedabad.
 Sitaram Iron & Brass Works, Lunsawada, Golwad, Ahmedabad.
 Smith Engineering Works, Dariapur Rupapari, Ahmedabad.
 Surendra & Co., Lunsawada, Harmanwali Pole, Ahmedabad.
 Swastik Engineering Works, Gheekanta, near Dudhwalli Pole, Ahmedabad.
SWASTIK TEXTILE TRADING CO., PRIVATE LTD., Motilal
Hirabhai Market, Railwayपुर, Post, Ahmedabad 2.
 Tankachand Rughnath Iron & Brass Factory, Gheekanta Road, Ahmedabad.
 The Shetna Iron Works & Co., Kankaria Road, N. C. Mills, Ahmedabad.
 The Star Engineering Works, outside Prem Darwaja, Ahmedabad.
 U. D. Dave & Co., Chhotalal Building, Relief Road, Ahmedabad.
 Umedram K. Mistry, City Danapith, Ahmedabad.
 Vinus Engineering Co., Kankaria Road, opp. Laxmi C. Mills, Ahmedabad.
 Voltas Limited, Mirzapur, Ahmedabad 1.
 Zenith Engineering Works, Kalupur Tankahal, Ahmedabad.

MARBLE AND TILES MERCHANTS

Ahmedabad Stone Supplying Co., 995, Khadia, Char Rasta, Ahmedabad.
 Bharat Tiles & Marble Co., Ahmedabad.
 Garlick & Co., Maskati Market, Ahmedabad.
 Gupta Tiles & Marble, Kalpur, Ahmedabad.
 Ramaniyal Motilal Shah, inside Panchkuva, Ahmedabad.
 Sompura & Co., 1955, Panchkuva Road, Ahmedabad.

MATERIAL HANDLING & CONVEYORS

Radiant Electric & Machinery Co., Mangal Bhavan, 2750, Relief Road, Ahmedabad. Phone: 3272. Vithaldas Chambers, Bruce St., Fort, Bombay 1.

MILL GIN STORES SUPPLIERS

A. H. & Co., Reid Road, Ahmedabad.
 A. Hasamukh & Co., L. K. Trust Building, Reid Road, Ahmedabad.
 Ahmedabad Hardware Stores, Menit House, Relief Road, Ahmedabad 1.
 A. K. Shah & Co., Revdi Bazar, Ahmedabad.
 Alliance Stores Trading Co., Ltd., Station Road, Ahmedabad.
 A. M. Shaw & Co., Kapasia Bazar, Ahmedabad.
 Arvind Gunvant & Co., Motilal Haribhai Market, Kapasia Bazar, Ahmedabad.
 B. C. Mashruwala & Bros., Kapasia Bazar, Ahmedabad.
 Bhagubhai M. Shah, 48, Fritamnagar, Ellis Bridge, Ahmedabad.
 Bihari Brothers, Reid Road, Ahmedabad 2.
 B. Ramanlal & Co., Kapasia Bazar, Ahmedabad.
 C. A. Gallakotwala & Co., Ltd., Kapasia Bazar, Ahmedabad.
 C. B. Sutarla Bros., Cross Lane, Railwaypura Post, Ahmedabad.
 C. Bangadiwala & Co., Kapasia Bazar, Ahmedabad.
 O. C. Mashruwala, Kapasia Bazar, Ahmedabad.
 C. Doctor & Co., Ltd., Khokhara Mahemdabad, Maninagar, Ahmedabad.
 Chandabhai Bros., Panchpatil, Dabgarwad, Ahmedabad.
 Chandrakant Ratilal & Co., Khatarpal's Pole, Manekchowk, Ahmedabad.
 Chandulal Vadilal & Co., Reid Road, Ahmedabad.
 Chhotalal Keshavlal, Kapasia Bazar, Ahmedabad.
 Chimanlal Amichand, Khase Bazar, Three Gate, Ahmedabad.
 Chimanlal B. Mehta, 648, Kapasia Bazar, Ahmedabad.
 Chimanlal & Sons, Railwaypura Post, Ahmedabad.
 Chimanlal Vadilal & Co., Sankadi Sheti, Nanshajivan's Pole, Ahmedabad.
 C. K. Vohra & Co., Kapasia Bazar, Ahmedabad.
 C. Nanavati & Co., Reid Road, Ahmedabad.
 C. Parikh & Co., Kapasia Bazar, Ahmedabad.
 Dahyabhai Nanalal & Co., Kapasia Bazar, Ahmedabad.
 Dashedathlal Chimanlal, Sarangpur, Sarkiwad, Ahmedabad.
 Dhuldhoya Sons & Co., Reid Road, Ahmedabad.
 Diarvi Trading Co., outside Panchkuva Gate, Ahmedabad.
 Dinubhai G. Doshi Co., Reid Road, Ahmedabad.
 Eastern Trading Agency, Kapasia Bazar, Ahmedabad.
 Express Trading Corporation, Reid Road, Ahmedabad.
 Frion & Co., Reid Road, Ahmedabad 2.
 General Engineering Stores, Kapasia Bazar, Ahmedabad.
 H. Bansidhar & Co., Kapasia Bazar, Railwaypura Post, Ahmedabad 2.
 Hirachand Ranchhodadas, Reid Road, Ahmedabad.
 Indequip Limited, Reid Road, Railwaypura Post, Ahmedabad.
 International Traders Ltd., Kapasia Bazar, Ahmedabad.
 Ishwarlal Harjivandas & Co., Jardon Road, Dudheshwar, Ahmedabad.
 J. Tribhovandas & Co., C/o Granwood Works, Reid Road, Ahmedabad.
 Jayantilal & Co., Reid Road, Ahmedabad.
 Jayantilal Chimanlal & Co., Kapasia Bazar, Ahmedabad.
 Jayantilal Pranlal & Co., Reid Road, Ahmedabad.
 Jayantilal S. Gandhi & Co., opp. Madhav Baug, Ahmedabad.
 Jivendra Ramniklal & Co., opp. Madhav Baug, Ahmedabad.
 K. A. Shah & Co., opp. Madhav Baug, Ahmedabad.
 K. C. Mashruwala & Co., Reid Road, Ahmedabad.
 K. Damodardas & Co., Singapurwala Building, Khadia, Char Rasta, Ahmedabad. Phone: 3677. Grams: "ROTATION."
 K. H. Nawab & Co., Kapasia Bazar, Ahmedabad.
 K. Basiklal & Co., Cross Lane, Railwaypura Post, Ahmedabad.
 Kamlesh Corporation, Motilal Mansion, Kapasia Bazar, Ahmedabad.
 Kanchan Bros. & Co., Reid Road, Ahmedabad.
 Kantilal Chimanlal, Kapasia Bazar, Ahmedabad.
 Kantilal Jivanlal & Co., Reid Road, Ahmedabad.
 Karmali Janmahamad & Co., Kapasia Bazar, Ahmedabad.
 M. M. Shah & Co., 2610, Devaa's Pada, Ahmedabad.
 M. Sharina & Co., Post Box No. 71, Gandhi Road, Ahmedabad.
 Machine Tools & Hardware Corporation, Reid Road, Ahmedabad.
 Mangaldas Jeshingbhai & Co., Cross Lane, Railwaypura Post, Ahmedabad.
 Manubhai Parikh & Co., opp. Madhav Baug, Ahmedabad.
 Masturilal Chimanlal & Co., Kapasia Bazar, Ahmedabad.
 Mehta Bros. & Co., Reid Road, Ahmedabad.
 Mehta Parikh & Co., Kapasia Bazar, Ahmedabad.
 Metal Moulders Ltd., Dudheshwar Road, Ahmedabad.
 Modern Mill Stores Agency, Gheekanta Road, Jeshingbhai's Wadi, Ahmedabad.
 Mohanlal Jumnadas Patil, Revdi Bazar, Ahmedabad.
 Mohanlal Prabhudas & Co., Reid Road, Ahmedabad.
 Motilal Harilal Jagabhaiwala, Pippin Villa, Ellis Bridge, Ahmedabad.
 Mulchand Jekishandas & Co., Reid Road, Ahmedabad.
 N. M. Oza & Co., Kapasia Bazar, Ahmedabad.
 N. Parikh Sons & Co., 688, Mulchand Asharam Building, opp. Madhav Baug, Ahmedabad.
NAGINDAS KILBHAI & CO., Reid Road, Ahmedabad.
 Nasavati & Co., Ltd. Kapasia Bazar, Ahmedabad.

Narotandas Chunilal & Co., Motilal Mansion, Kapasia Bazar, Ahmedabad 2. Phones: 2140, 3773, 3146. Grams: "HINDUNAR."
 National Trading Co., Reid Road, Ahmedabad.
 Natwarlal A. Shah & Co. Ltd., opp. Madhav Baug, Ahmedabad.
 Navnithal B. Chokhi & Co., 1635, Dhal's Pole, Jagabhai Seth's Pole, Ahmedabad.
 New India Trading Co., Vakil Building, Char Rasta, Ahmedabad.
 Nidravadan Maneklal & Co., (Estd. 1944), Bombay Shop Building, Railwaypura Post, Ahmedabad 2. Phone: 2496.
 P. M. Shah & Co., Janiwada, Gandhi Road, Ahmedabad.
 P. M. Huthershing & Sons, Gheekanta Road, Ahmedabad.
 Panalal Umabhai & Co., Fatasa's Pole, Gandhi Road, Ahmedabad.
 Parikh & Parikh, Mill Gin Stores Suppliers, Reid Road, Ahmedabad 2.
 Patel Brothers Syndicate, opp. English Cinema, Panchkuva, Ahmedabad.
 Pioneer Textile Trading Co., Harisadan, Char Rasta, Ahmedabad.
 Popatlal Girdharilal, Kapasia Bazar, Ahmedabad.
 Prem Roy Brothers, L. K. Trust Bldg., Panchkuva, Ahmedabad 2.
 Priion & Co., Reid Road, Ahmedabad.
 R. M. Shaw & Co., Motilal Mansion, Kapasia Bazar, Ahmedabad.
 Ramanlal Pitambaradas Mashruwala, 1314, Rajamohita's Pole, Kalupur, Ahmedabad.
 Ramanlal Sankalchand, Reid Road, Ahmedabad.
 Ramanlal Vrijvalabhadras & Co., Cross Lane, Railwaypura Post, Ahmedabad.
 Ramchandra & Co., Kapasia Bazar, Ahmedabad.
 Ranchhodlal Amratilal Vasa, Maskati Market, Ahmedabad.
 Rasiklal D. Gandhi & Co., Harisadan, Char Rasta, Ahmedabad.
 Ratilal M. Shah & Co., Reid Road, Ahmedabad.
 S. Mehta & Co., Kapasia Bazar, Ahmedabad.
 S. N. Shah & Co., Station Road, Ahmedabad.
 Seth Stores Trading Co., Station Road, Ahmedabad.
 Spencer Trading Co., Sir Chinubhai Building, Revdi Bazar, Ahmedabad.
 Supreme Mill Stores Co., opp. English Cinema, Panchkuva Gate, Ahmedabad.
 Textile Commercial Co., Haridas Achratilal Market, Ahmedabad.
 Textile Stores Co., Kapasia Bazar, Ahmedabad.
 The Ahmedabad Crom Tanning Co., Piramnah Road, Ahmedabad.
 The Gopal Textile Trading Co., Ltd., Kapasia Bazar, Ahmedabad.
 The International Textile Corporation, Reid Road, Ahmedabad.
 The Laxmi Commercial Ltd., near Panchkuva Gate, Ahmedabad.
 The Mill Stores & Metal Mart, Kapasia Bazar, Ahmedabad.
 The Standard Materials Co., Kapasia Bazar, Ahmedabad.
 The Swastik Textile Trading Co., Ltd., Motilal Haribhai Market, Station Road, Ahmedabad.
 United Stores Trading Co., Station Road, Ahmedabad.
 Voltas Limited, Mirzapur, Ahmedabad 1.

OFFICE EQUIPMENT

Gopaldas Khemchand & Sons, Estd. 1912, Tijoriwalla, outside Delhi Gate, Ahmedabad.
 Harhar Research Works, Mander's Street, Ahmedabad.
 S. Sutarla & Co., 697/32-6, Reid Road, Ahmedabad.

PAINTS, ENAMELS AND VARNISHES

Allied Engineers, Reid Road, Ahmedabad.
 Bharat Paints & Hardware Agency, Relief Road, Ahmedabad.
 C. B. Vohra & Co., (Estd. 1938), Pankore Naka, Ahmedabad 1. Phone: 3027.
 D. Prajapati & Co., Near Tarkos Bldg., Relief Road, Ahmedabad 1.
 Hind Corporation, near Takaria Masjid, Relief Road, Ahmedabad.
 L. G. Amin & Co., Menit House, Kadia-Kul, Relief Road, Ahmedabad.
 N. M. Shah & Co., opp. Jumma Masjid, Ahmedabad.
 Pioneer Manufacturing Co., Haripura Road, Awarva, Ahmedabad 11.
 Sultanally Gulamhusen & Sons, 289, Fernandis Bridge, Ahmedabad.
 S. Shantilal & Co., Pankore Naka, Ahmedabad.
 United Trading Co., 1843, Near Allahabad Bank, Pankore Naka, Ahmedabad.

PAPER MERCHANTS

A. K. Shah & Co., Revdi Bazar, Ahmedabad.
 Good Luck Paper Mart, 1951/4/6, Panchkuva, Char Rasta, Ahmedabad.
 Manohar Paper Stores, near Telegraph Office, Bhadra, Ahmedabad.
 R. Ochilavilal & Co., 694, Char Rasta, Nava Darwaja Road, Ahmedabad.
 S. Sutarla & Co., 697/32-6, Reid Road, Ahmedabad. Phone: 2378.
 Vinod Paper Mart, 649, Char Rasta, Nava Darwaja Road, Ahmedabad.

PETROLEUM PRODUCTS

American Oil & Trading Co., Jekor Building, Revdi Bazar, Ahmedabad.
 Burmah-Shell Oil Storage & Distributing Co., of India Ltd., Mission Road, Bhadra, Ahmedabad.
 Calter (India) Ltd., Asarwa Station Yard, Ahmedabad.
 Gulf Oil Co., Ltd., Co-operative Bank Building, Relief Road, Ahmedabad.
 Standard-Vacuum Oil Co., Oriental Building, Relief Road, Ahmedabad.

PICKERS AND BUFFERS

D. C. Karaka & Co., Ellis Bridge, Ahmedabad.
 Frion & Co., Reid Road, Ahmedabad.
 H. Mansuri & Sons, Post Box 84, Ahmedabad.
 Jalhind Leather Industries Ltd., Reid Road, Ahmedabad 2.
 Nima Trading Co., Cross Lane, Ahmedabad.
 Pickers Ltd., Ellis Bridge, Ahmedabad.

PIPES AND FITTINGS MERCHANTS

Ahmedabad Sanitary Stores, Khadia, Char Rasta, Ahmedabad.
 B. C. MASERUWALA & BROS., 657, Kapasia Bazar, Ahmedabad 2. Importers & Stockists: All sorts of Pipes, Pipe-fittings, Boiler Tubes, Steam Pipes, Hopkinsons Bronze Valves & Boiler Mountings, etc. Agents: G. M. "Venus" Valves. Branch: 87/91, Dhanji St., Bombay 3.
 Gujarat Tube & Sanitary Stores, Khadia, Char Rasta, Ahmedabad.
 H. CHOKSHI & COMPANY (CHOKSHI & CO.), Kapasia Bazar, Ahmedabad 2.
 H. Khericha & Co., opp. Jumma Masjid, Ahmedabad.
 Kantilal & Co., Ramakda Market, Pankore Naka, Ahmedabad.
 Ochhaval Gordhandas Shah, Vakil Building, Khadia, Char Rasta, Ahmedabad.
 Radiant Electric & Machinery Co., Mangal Bhavan, 2750, Relief Road, Ahmedabad. Phone: 3272. Vithaldas Chambers, Bruce St., Fort, Bombay 1.
 Shams Trading Co., Pankore Naka, Ahmedabad.
 Wellknown Brothers, 2414/B-2, Relief Road, opp. Makeriwad, Ahmedabad.

PRINTING PRESSES

Advance Printery, 560, Panchkuva, Ahmedabad.
 Ajay Printery, Nav Bharat Mill Premises, Naroda Road, Ahmedabad.
 Deen Printing Press, Panch Patil, Kalupur, Ahmedabad.
 Kesarlaji Printing Press, Gheekanta Road, Ahmedabad.
 New City Printing Press, Dhulgarwad, Ahmedabad.
 Ramesh Printery, opp. Mahavir Swami's Temple, Gandhi Road, Ahmedabad.
 Rasik Printery, Khodla, Golwad, Ahmedabad.

PROVISION MERCHANTS

Akbarally & Co., Three Gates, Ahmedabad.
 Jehangir Brothers, opp. Rly. Station, Ahmedabad.
 Madonna Stores, Lal Darwaja, Ahmedabad.
MAIZE PRODUCTS.—Pros.: Sayaji Mills Ltd., P.O. Kathwada. Maize Products, Ahmedabad 2.
 Prince Stores, opp. Telegraph Office, 1161, Bhadra, Ahmedabad.
 Relief Provision Stores, Relief Road, opp. Relief Cinema, Ahmedabad.
 R. Jehangir Darashaw & Co., Relief Road, Ahmedabad.
 Wadia Brothers Ltd., F. P., Mirzapur Road, Ahmedabad.

RADIO MFRS., DEALERS AND PART SUPPLIERS

Ahmedabad Radio & Electric Corporation, Panchkuva, opp. School, Ahmedabad.
 Amin Gramophone Mart, Near Bridge, Gandhi Road, Ahmedabad.
 Allied Radio Company, Near Fuvara, Gandhi Road, Ahmedabad.
 Arun Radio Electric Co., Near Dhana Suthar's Pole, Relief Road, Ahmedabad.
 Bharat R. Electric Co., Near Arun Society, Ellis Bridge, Ahmedabad.
BOMBAY GARAGE (Ahmedabad) LTD., Shahibag Road, Ahmedabad 4. Tel. Address: "PARKCHIN." Phone: 4615.
 Bynks Elec. Industries, Bala Hanuman, Gandhi Road, Ahmedabad.
 Chitra Electric Trading Co., Panchkuva, Ahmedabad.
 Cine Radio Laboratory, Near Cinema, Panchkuva, Ahmedabad.
 Dalal & Co., opp. School, Panchkuva, Ahmedabad.
 Dave Radio Corporation, Near Town Hall, Ellis Bridge, Ahmedabad.
 Deepak Radio Electric Co., Panchkuva, Ahmedabad.
 Eastern Radio Service, Panchkuva, Ahmedabad.
 Emergency Radio House, Near Model Talkies, Gandhi Road, Ahmedabad.

Eros Sound, opp. Cinema-De-France, Gandhi Road, Ahmedabad.
 Fadia Radio Crafts, opp. School, Panchkuva, Ahmedabad.
 Gandhi & Sons, Pankore Naka, Ahmedabad.
 Geeta Radio Corporation, Near Pada Pole, Gandhi Road, Ahmedabad.
 Golden Radio Service, opp. Kothari Pole, Gandhi Road, Ahmedabad.
 General Radio Stores, opp. Advance Cinema, Bhadra, Ahmedabad.
 Gupta Radio Service, opp. Noyri Mills, Rajpur, Ahmedabad.
 Hillmens Stores, Near Pritamnagar Dhal, Ellis Bridge, Ahmedabad.
 Hiralal B. Trivedi & Co., Near Bridge, Gandhi Road, Ahmedabad.
 Imperial Radio House, opp. School, Panchkuva, Ahmedabad.
 International Electric Equipment Company, opp. Police Station, Reid Road, Ahmedabad.
 J. K. Radio Electric & Engineering Co., Panch Pipli, Astodia, Ahmedabad.
 Jagdish & Co., opp. Khadia Post Office, Ahmedabad.
 Janata Radio Co., Near Grand Hotel, Khanpur, Ahmedabad.
 Jai Hind Radio Corporation, Near Light House, Gheekanta, Ahmedabad.
 Jayant Radio Corporation, Bhadra, Ahmedabad.
 J. K. Radio Electric Co., opp. Advance Cinema, Bhadra, Ahmedabad.
 J. L. Kharidia & Co., Nagar Bordi's Street, Rajpur, Ahmedabad.
 Jyoti Radio & Electric House, Parbadini Pole, Rajpur, Ahmedabad.
 Kachwala Radio Co., Near Light House, Gheekanta, Ahmedabad.
 K. B. Vakil & Co., Bala Hanuman, Gandhi Road, Ahmedabad.
 Kiran Radio Service, Near Khara Kuva's Pole, Relief Road, Ahmedabad.
 K. M. Parghi & Co., opp. School, Panchkuva, Ahmedabad.
 Listeners Radio Service, Raja Mohita's Pole Naka, Kalupur, Ahmedabad.
 Manu Contractor, opp. Pada Pole, Gandhi Road, Ahmedabad.
 Manubhai Parikh & Co., opp. Madhu Baug, Ahmedabad.
 Mehta Radio Service, 1446, Sheth's Pole, Mandvi's Pole, Ahmedabad.
 Model Radio Service, Piyordi's Pole Naka, Relief Road, Ahmedabad.
 M. J. Vakil & Co., Near Bridge, Gandhi Road, Ahmedabad.
 Mohan's Radio Service, Bhadra, Ahmedabad.
 Mukundrai Trivedi, Near Rly. Crossing, Ellis Bridge, Ahmedabad.
 National Radio Co., Manekchowk, Ahmedabad.
 Navdurga Radio Electric Co., Fuwara, Ahmedabad.
 Orient Radio Electric Co., Rugnath-Bamb Street, Sankdisheri, Ahmedabad.
 Paramount Radio Experts, Char Rasta, Khadia, Ahmedabad.
 People's Technical Institute, Zaverivad Naka, Relief Road, Ahmedabad.
 Popular Radio Electric Co., Near Town Hall, Ellis Bridge, Ahmedabad.
 Ramesh Electric Co., Ganchini Vadi, Darlapur, Ahmedabad.
 R. Tolat & Co., Manekchowk, Ahmedabad.
 Regal Radio Service, opp. School, Panchkuva, Ahmedabad.
 Radio Television & Sound System Institute, opp. Model Cinema, Gandhi Road, Ahmedabad.
 Royal Electric Stores, opp. Dhana Suthar Pole, Relief Road, Ahmedabad.
 Star Radio Co., opp. Jain Temple, Gandhi Road, Ahmedabad.
 Star Radio Electric Co., Gheekanta, Ahmedabad.
 Shree Radio Service, Bhadra, Ahmedabad.
 Sweet Radio Service, Rajpur Chakla, Ahmedabad.
 Super Radio Service, Kharakuva Pole Naka, Relief Road, Ahmedabad.
 Vanguard Radio Corporation, Near Khadia Police Station, Ahmedabad.
 Western Road Co., Char Rasta, Ahmedabad.

REEDS

SWASTIK TEXTILE TRADING CO., PRIVATE LTD., Motilal Hirabhai Market, Railwayppura Post, Ahmedabad 2.

REFRIGERATOR (DOMESTIC)

BOMBAY GARAGE (Ahmedabad) LTD., Shahibag Road, Ahmedabad 4. Tel. Address: "PARKCHIN." Phone: 4615.

ROOF WATERPROOFING

GLADSTONE LYALL & CO. LTD.—Agency Office: Textile & General Engineering Stores, Prajapati Laladas Bldg., Khadia, Char Rasta, Ahmedabad. Bombay Manager: A. V. Ryan. Head Office: 4, Fairlie Place, Calcutta.

ROPERIES

Bharat Rope & Lace Mfg. Co., Kapasia Bazar, Ahmedabad.
 Frion & Co., Reid Road, Ahmedabad.
 Nima Trading Co., Cross Lane, Ahmedabad.

RUBBER GOODS MANUFACTURERS

Ahmedabad Hardware Stores, Relief Road, Ahmedabad.
 Allied Engineers, Reid Road, Ahmedabad. Phone: 2705.
 Bihari Bros., Outside Panchkuva, Ahmedabad.
 Dunlop Rubber Co. (India) Ltd., Mirzapur Road, Ahmedabad.

Firestone Tyre & Rubber Co. of India Ltd., Near Bagicha Mills, outside Sarangpur, Ahmedabad.
Frion & Co., Reid Road, Ahmedabad.
Good Year Tyre & Rubber Co. of India Ltd., 19/20, Bharat Khand Mills, Compound 2, Ahmedabad.
Gujarat Rubber Works Ltd., Station Road, Ahmedabad.
H. Chokshi & Company, Kapasia Bazar, Ahmedabad.
India Tyre & Rubber Co. (India) Ltd., "Patdi House", Ahmedabad.
Rubber Products Ltd., Dudheshwar Road, Bhadra, Ahmedabad.

SHUTTLES

SWASTIK TEXTILE TRADING CO. PRIVATE LTD., Motilal Hirabhai Market, Railwaypura Post, Ahmedabad 2.

SILK FACTORIES AND MILLS

THE CROWN SILK & RAYON MILL, Madhowlal Ranchhodlal Colony, Railwaypura, Ahmedabad 2. Manufacturers of Doubling Twisted & Crepe Yarn, Silk & Art Silk, 6,750 Spindles; Georgette Yarn, Art & Pure Silk Crepe Yarn of different Twists of all Deniers and doubling Yarns; Sole Distributors: J. Kismatral & Co., New Silk Bazar, Kalbadevi Road, Bombay 2; Phone: 23482.

The Diamond Silk & Rayon Mill, Madhowlal Ranchhodlal Colony, Railwaypura, Ahmedabad 2.

The Naukram Sobhraj Mills Ltd., Madhowlal Ranchhodlal Colony, Railwaypura, Post Box No. 1041, Ahmedabad 2.

Vijay Weaving Works (Vijay Fabrics), 676 12, Railwaypura, Ahmedabad.

Frion & Co., Reid Road, Ahmedabad.

Patel Brothers Syndicate, Opp. English Cinema, Panchkuva, Ahmedabad.

SOAP FACTORIES

Asad Hind Soap Factory, 711/6, Near Khamasa Gate, Dhalgarwad, Ahmedabad.

Diamond Oil & Soap Factory, 221, Salyadwada, Inside Astodia Gate, Ahmedabad.

Jagdish Oil & Soap Mills, Prem Darwaja, Ahmedabad.

Ranjit Soap Factory, Dhalgarwad, Ahmedabad.

SPARE PARTS (MACHINERY)

SWASTIK TEXTILE TRADING CO. PRIVATE LTD., Motilal Hirabhai Market, Railwaypura Post, Ahmedabad 2.

STRUCTURAL WATERPROOFING

GLADSTONE LYALL & CO. LTD.—Agency Office: Textile & General Engineering Stores, Prajapati Laladas Bldg., Khadia, Char Rasta, Ahmedabad. Bombay Manager: A. V. Ryan. Head Office: 4, Fairlie Place, Calcutta.

TEA AND COFFEE

Brooke Bond India Ltd., near Rly. Crossing, below No. 1054, Shahibaug, Ahmedabad.

Gujarat Tea Depot, Company near Relief Cinema, Relief Road, Ahmedabad.

Indian Coffee House, near Electric House, Relief Road, Ahmedabad.

Lipton Ltd., Oriental Building, Relief Road, Ahmedabad.

TEXTILE MACHINERY MFRS. AND DEALERS

A. B. Brothers, 129, Gheekanta Road, Ahmedabad.

A. Bhudharbhai Kishor & Sons, Gheekanta Road, Ahmedabad. Phone: 2408.

Ahmedabad Victoria Ironworks Co., Ltd., Doodhesar Road, Ahmedabad.

Altex Ltd., Ramolia Building, Relief Road, Ahmedabad.

Atmaram Mohanlal Panchal, Rantiwadi, Mirzapur, Ahmedabad.

Bracewell, J., Ltd., Haribhai Market, Ahmedabad.

Brady & Co., Ltd., W. H., Railwaypura Post, Reid Road, Ahmedabad.

Card Clothing & Belting Ltd., Narottam Building, Kapasia Bazar, Ahmedabad.

C. Doctor & Co., Khokra Mehmedabad, Maninagar, Ahmedabad.
English Card Clothing Co., Ltd., opp. Rly. Workshop, Maninagar, Ahmedabad.

Gannon Dunkerley & Co., Ltd., Faribunder Bldg., Railwaypura Post, Ahmedabad.

Garlick & Co., Maskati Market 2, Ahmedabad.

Indequlp Ltd., Reid Road, Ahmedabad.

Indian Textile Engineers Ltd., Deepak Chambers, 679/18, Station Road, Ahmedabad.

India Metal Works, 1758/1-2, Mirzapur Road, Ahmedabad.

Industrial Spare-Parts Co., Relief Road, Kadla Kul, Ahmedabad.

Jagdish Iron & Brass Factory (Estd. 1945), 1175, Pankore Naka, Ahmedabad.

Jaymes Engineering Co., Relief Road, Ahmedabad.

Metal Moulders Ltd., Doodhesar Road, Ahmedabad.

Mistry Ambalal Jetharam Iron & Brass Factory, Gheekanta Road, Ahmedabad. Phone: 3083. Grams: "CLOTHPRINT."

Nima Trading Co., Cross Lane, Ahmedabad.

Ormerods (India) Ltd., Kapasia Bazar, Ahmedabad.

Sizing Materials Co., Ltd., Kapasia Bazar, Ahmedabad.

T. Maneklal Mfg. Co., Ltd., Reid Road, Ahmedabad.

Tex Maco, Chotley Lal Building, Kadla Kul, Relief Road, Ahmedabad.

TEXTILE MACHINERY MANUFACTURING COMPANY, Engineers and Merchants, Lal Cinema Compound, Gomti-pur Road, Ahmedabad 10.

Voltas Ltd., Mirzapur, Ahmedabad.

Williamsons (India) Ltd., 670/22, Motilal Hirabhai Market, Railwaypura, Ahmedabad.

TEXTILE ENGINEERS AND MACHINERY IMPORTERS

B. P. Engineering Works, 663-4, Gheekanta Road, Ahmedabad. Phone: 2642.

C. B. Sutarla Bros., Cross Lane, opp. Railway Station, Ahmedabad.

Modern Engineering Moulding Co., Shahpur Mills Compound, Ahmedabad. Phone: 2624. Grams: "HELICAL."

M. Narotandas Chunilal & Co., Motilal Mansion, Kapasia Bazar, Ahmedabad 2.

TYRE MFRS. AND DEALERS

Dunlop Rubber Co. (India) Ltd., Mirzapur Road, Ahmedabad.

Firestone Tyre & Rubber Co. of India Ltd., Near Bagicha Mills, Outside Sarangpur, Ahmedabad.

Goodyear Tyre & Rubber Co. of India Ltd., 19/20, Bharat Khand Mills Compound, Ahmedabad.

India Tyre & Rubber Co. (India) Ltd., Patdi House, Bhadra, Ahmedabad.

WATCH AND CLOCK IMPORTERS AND DEALERS

Asiatic Watch Co., 653/1, Gandhi Road, Ahmedabad.

Bharati Watch Co., 700, Gandhi Road, Ahmedabad.

Franco-Swiss Watch Co., Gandhi Road, Ahmedabad.

Favourite Watch Co., 808, Gandhi Road, Char Rasta, Ahmedabad.

General Swiss Watch Co., 52-A, Balahanuman, Ahmedabad.

New President Watch Co., 437, Gandhi Road, Ahmedabad.

New Bharat Watch Co., Gandhi Road, Ahmedabad.

Prabat Watch Co., 449, Gandhi Road, Ahmedabad.

Sharda Watch Co., Gandhi Road, Ahmedabad.

WATERPROOFING PRODUCTS MFRS. & DEALERS

GLADSTONE LYALL & CO., LTD.—Agency Office: Textile & General Engineering Stores, Prajapati Laladas Bldg., Khadia, Char Rasta, Ahmedabad. Bombay Manager: A. V. Ryan; Head Office: 4, Fairlie Place, Calcutta.

WELDING & WELDING MATERIALS DEALERS

Auto Reliance Engineering & Welding Co., Revdi Bazar, Cross Lane, Ahmedabad.

Bharat Engineering & Welding Works, Outside Prem Gate, Idgah Road, Ahmedabad.

Radiant Electric & Machinery Co., Mangal Bhavan, 2750, Relief Road, Ahmedabad. Phone: 3272. Vithaldas Chambers, Bruce St., Fort, Bombay 1.

WIRE HEALDS

SWASTIK TEXTILE TRADING CO., PRIVATE LTD., Motilal Hirabhai Market, Railwaypura Post, Ahmedabad 2.

AHMEDNAGAR DISTRICT

Headquarters : Ahmednagar.

Talukas : Nagar, Rahuri, Newasa, Shrirampur, Sangamner, Akole, Kopergaon, Sheegaon, Pathardi, Jamkhed, Shrigonda, Parner, Karjat.

Ahmednagar, a centrally situated District in the Marathi speaking area of the Deccan, lies between North Lat. 18°20' and 20° and East Long. 73°43' and 75°41'. It is bounded on the north and north-west by Nasik District, on the north-east by the river Godavari and Aurangabad District, on the south-east and south-west by Bhilr, Sholapur and Poona Districts. The principal geographical feature is the chain of Sahyadri Hills and the river Godavari and her two major tributaries Mula and Pravara both rising from the Western Ghats. Despite the fertility of its soil the District is liable to famine owing to uncertain and scanty rainfall. A large part of the District is irrigated by the confluence of the rivers Godavari and Pravara which has encouraged sugar-cane plantation on a wide scale.

The area of the District is 6,602 sq. miles and the population according to the 1951 census is 1,410,873 registering a rise of 23.5 per cent over the 1941 census figure. The language spoken is Marathi.

Industrially, the northern part of the District is fairly well developed. There are eleven large-scale sugar factories and two first class and up-to-date tanneries. Leather from these tanneries is exported mainly to Pakistan. The hand-power woollen carpet factory at Kendal in Rahuri Taluka exports carpets to foreign countries. The Sisal Fibre Industries Centre conducted by the American Marathi Mission at Ahmednagar manufactures and exports fancy articles to foreign countries. Three iron foundries in Ahmednagar town manufacture and supply agricultural implements and building, sanitary, sewage and machinery accessories. Ahmednagar, Bhingar, Pathardi and Sangamner are the four main centres of handloom weaving industry, the total number of handlooms being over 4,500. There are also cotton ginning, pressing and power loom factories in Ahmednagar. Manufacture of bids, brassware, oil expelling, leather goods and sisal fibre ropes and sacks are major cottage industries in the district.

The staple food grains are jawar and bajra. Wheat and gram are grown in the vicinity of the rivers and rice in the westernmost Akole Taluka including other irrigated areas. Vari and ragi are cultivated in soils which are suited to coarser grain. The pulses are tur, mug, math and kullith. Among the cash crops may be mentioned cotton, hemp, safflower, sesamum, linseed, sugarcane, tobacco, kardli, pan, groundnut and potatoes. Sweet lime orchards are also grown.

Part of the forests possesses teak of excellent quality. The characteristic trees of the Western forests are however, anjan, jambul, behela, ain and karvand.

The chief historical places of interest to visitors are the Ahmednagar Fort and the residential palaces of the Shindhas and the Peshawas at Jamgaon and Kopergaon respectively. The tombs of Mughal Emperor Aurangzeb are situated on the outskirts of Ahmednagar town. The temple of Dnyaneshwar, the saint poet of Maharashtra, is situated at Newasa on the banks of river Pravara. Here Dnyaneshwar wrote his famous commentary on Gita. Excavations undertaken in the vicinity of this town have yielded valuable finds of prehistoric import.

Limestone is fairly abundant in the District and also trap suitable for building purposes. Other minerals are basalt, quartz, chalcedony, agate, crystals.

Among industries sugar is now one of the most important. There are eleven sugar factories in the District. Of these, five factories are run by the sugarcane growers on a co-operative basis. Gur making, hand-loom weaving, iron foundries and bill making are the other important industries. Popular Ayurvedic medicines and a number

of allopathic drugs are manufactured on a large scale by a pharmaceutical concern at Ahmednagar.

There are ten irrigation tanks in the District. The Ghod Weir and Canals Project, which is nearing completion, has extended irrigation facilities to about 65,000 acres of dry land in the usually famine affected Shrigonda and Karjat talukas of the district.

There are over 54,400 wells in the District irrigating about 168,000 acres.

EDUCATIONAL INSTITUTIONS

Arts and Science College, Ahmednagar.
Puntamba Agricultural School, Puntamba.
Ayurveda Mahavidyalaya College, Ahmednagar.
Government Technical School and Training Centre, Ahmednagar.

There are five Primary Training Colleges, of which two are conducted by missionaries and all aided by Government.

There are about 56 Secondary High Schools in the district out of which three high schools are exclusively for girls.

Five Marathi Weeklies and an evening daily are published from Ahmednagar.

LITERARY AND OTHER ASSOCIATIONS

Rotary Club, Ahmednagar.
American Marathi Mission, Ahmednagar.
Ahmednagar Education Society, Ahmednagar.
Hind Seva Mandal, Ahmednagar.
Ahmednagar Vachanalaya District Central Library, Ahmednagar.
The Pansa Vachanalaya Library, Ahmednagar.
Prawaranagar Co-operative Sugar Factory, Ltd., Prawaranagar.
Ahmednagar Jilha Marathi Vidya Prasarak Samaj, Ahmednagar.
Ahmednagar Jilha Saksharta Prasarak Mandal, Ahmednagar.
Sanatan Dharam Sabha, Ahmednagar.
District Co-operative Board, Ahmednagar.
The Big Bagaitdar's Multipurpose Co-operative Society Ltd., Kopergaon.
The District Agricultural Show Committee, Kopergaon.
District Probation and Aftercare Association, Ahmednagar.
Sarvodaya Centre, Rajur, Akole.
Ahmednagar Pressowners' Association, Ahmednagar.
Government Beggars Home, Visapur.
Ahmednagar District Leprosy Relief Association, Ahmednagar.
Indian Red Cross T.B. Sanatorium, Arangan, Ahmednagar.
Ahmednagar District Council for Child Welfare, Ahmednagar.
Women's Rescue Home, Ahmednagar.
Anath Vidyarthi Griha, Ahmednagar.
District Development Board, Ahmednagar.
Ahmednagar District Farmers Union, Ahmednagar.
Mahila Mandal, Ahmednagar.
Ahmednagar District Central Cooperative Bank, Ahmednagar.
Balikashram Harijan Girls Hostel, Ahmednagar.

AHMEDNAGAR ADATE-BAZAR MERCHANTS' ASSOCIATION Adate-Bazar, Ahmednagar.

President : B. M. Dhoot; *Vice-President :* N. H. Bothara; *Hon. Secy. :* S. B. Gandhi, B.com.

AHMEDNAGAR JILHA MARATHI VIDYA PRASARAK SAMAJ Lal Taki Road, Ahmednagar.

President : H. K. Kale; *Vice-President :* Hirabai P. Bhupkar.

SHRIMANT KARAVEER CHAUTHE SHIVAJI MAHARAJ MARATHIA BOARDING Lal Taki Road, Ahmednagar.

Secretary : D. S. Jagtap, LL.B.

AKOLA DISTRICT

Headquarters : Akola.

Talugs : Akola, Balapur, Murtaipur, Akot, Mangrul, Washim.

Akola is a district in Berar with an area of about 4,091 square miles and a population of 930,994. It lies roughly between North Latitude 19° 50' and 21° 10' and East Longitude 76° 45' and 77° 52'. It is bounded on the north by the Satpura Hills, on the south by the Ajanta and Satmal Hills, on the east by Amravati and Yeotmal Districts, and on the west by Buldana District.

The greater part of it is fertile alluvial land but the Satpura plateau rises abruptly on its northern border with the ancient fort of Narnala nestling on one of the hills and commanding the whole Poona plain. Also a range of steep hills runs across the middle of the southern Talugs. The average rainfall is 30 inches and the temperature in summer rises in certain places to 118 degrees during the day.

The Central Railway line from Bhusawal to Nagpur runs east-west through the District and has two small meter gauge sectors branching off at Murtizapur, one going south to Yeotmal, and the

other going north to Amravati District. Besides this the District has a fine network of good roads connecting it with other District and Talug centres and railway lines.

The District is mainly agricultural but there are cloth mills, a number of cotton ginning and pressing factories, oil mills.

The total cropped area extends to about 22 lakhs of acres—one-third of which is generally under cotton and two-thirds under other Kharif crops.

COTTON MILLS

R. S. RECKCHAND GOPALDAS MOHOTA SPG. & WVG. MILLS
PRIVATE LTD., Spindles 21,876, Looms 466; *Mg. Agents :*
Bulakidas Mohota & Co. Private Ltd. Office on Mill Premises, Mills at Akola.

SAVATRAM RAMPRASAD MILLS CO., LTD., Spindles 14,320;
Looms 317; *Agents :* Savatram Sons Ltd., Akola. Mills at Akola.

AMRAVATI DISTRICT

Headquarters : Amravati.

Talukis : Amravati, Chandur, Morni, Achalpur, Daryapur, Meihat.

Amravati District lies roughly between North Latitude 20°30' and 21°40' and East Longitude 76°55' and 78°30'. It is bounded on the north by Betul District, on the east by the Wardha River, on the south by the Districts of Yeotmal and Akola, and on the west by Buldana and Nimar Districts. The area of the District is 4,691 sq. miles and the population 1,031,160. The language spoken is Marathi.

Amravati is a plain about 800 feet above sea-level, the soil of which is principally black loam overlying basalt, with a gentle slope from north to south, watered by numerous streams. A small chain of barren and stoney hills runs in a north-westerly direction between Chandur and Amravati town, with an average height of 400 to 500 feet above the lowlands. The District is on the whole fertile.

COMMUNICATIONS

The Bombay-Nagpur branch of the Central Railway traverses the District from west to east and Amravati town is connected with the main line through Badnera junction. The chief roads are those from Amravati towards Achalpur and Chandur Bazaar, to Fusla through Morni and from Murtazapur to Karanja Bibi.

AGRICULTURE, INDUSTRY

The staple food grain is jawar. Other food grains are wheat and pulses. Cash crops include cotton and oilseeds, of which cotton is the more important.

Cotton cloth and yarn are manufactured but the principal industry is the preparation of cotton for the market.

Raw cotton is the chief export, the only other exports worthy of mention being oilseeds, grain and pulses. The chief imports are grain and pulses, coal and coke, salt and sugar.

ASSOCIATIONS

Hanuman Vyayam Prasarak Mandal, Amravati.

KALA-NIKETAN (GOVT. TECHNICAL HIGH SCHOOL)
Amravati.

Principal : D. K. Borwankar.

SHARADA UDYOG MANDIR

Near Jaystambha, Amravati.

It is a charitable cottage industry institution to help widows and poor women by teaching handicrafts, tailoring, embroidery, etc.

It also runs a training-cum-production centre. A Railway Canteen is run by the institution at Badnera, the profits from which are utilised for the welfare of women. There is also a Handicraft School.

President : Smt. Sushilabai Oka ; **Founder Secretary :** Smt. Tarabai Padhey ; **Joint Secretary :** Smt. Shantabai Londhe.

SHRI SHIVAJI LOKA VIDYAPITHA (PEOPLE'S UNIVERSITY
OF LITERATURE, ARTS, CRAFT AND CULTURE)

Shivaji Nagar, Morshi Road, Amravati.

Educational, Literary & Social Service Work.

President : Dr. P. S. Deshmukh, M.A., D.Phil (Oxon), Bar-at-Law ;
Director : Dr. Jwala Prasad, M.A., Ph.D. (Cantab.) ; **Dy. Director :**
S. R. Londhe, M.A., Sahitya Ratna.

VANITA SAMAJ

Rajkamal Square, Amravati.

President : Smt. Maniklal Bhide ; **Hon. Treasurer :** Smt. Seetabai Brahma ; **Hon. Secy. :** Smt. Kamal Ganorkar.

VIDARBHA MAHAROGI SKVA MANDAL

(Estd. 1948)

Tapovan, Amravati.

A social organisation started mainly for the treatment of leprosy patients and eradication of leprosy from the State. It started the Shree Jagadamba Kushita Niwas at Amravati to provide asylum to the leprosy patients. The Mandal publishes a paper *Jeevan* for educating the public on the subject. There are a home for burnt-out leprosy patients, a school for children, an up-to-date operation theatre and a printing press. Leprosy Social Workers' training class is conducted by the Mandal.

President : Dr. S. G. Patwardhan ; **Vice-President :** Dr. W. S. Barlinge, M.P. ; **Member :** Dr. R. V. Wardekar ; **Secretary :**
Smt. Parvatibai Patwardhan.

COTTON MILLS

BERAR MANUFACTURING CO. LTD., Spindles 21,384, Looms 300 ; **Director :** Dwarakadas Popatlal, Rajababdur Mansions, 24-B, Hanuman Street, Fort, Bombay ; Mills at Badnera.

VIDARBHA MILLS, BERAR, LTD., Spindles 13,500, Looms 347,
Agents : Deshmukh & Co. Office on Mill premises. Mills at Ellichpur.

AMRELI DISTRICT

Headquarters : Amreli.

Talukas and Mahals : Amreli, Kodinar, Dhari, Okhamandal, Dainnagar, Khambsa, Ghogho.

Amreli, formerly part of Baroda State, is now part of Bombay State. It is not one block of territory but is composed of a number of separate parts intersected by territory belonging to other districts.

The area of Amreli District is 1,536 square miles and population 317,203.

There is a plan to reorganize the District to make it administratively convenient. It would gain parts of Gohilwad and lose Okha and Dwarka. After reorganization the population would be about four lakhs.

The District is level country broken only by Gir Hills in the Dhari Taluka. The average yearly rainfall is between 23 to 25 inches. About 90 per cent of the land is dependent wholly on rain-water while only 10 per cent is irrigated by water from wells and streams.

The principal crops are bajri, jawar, groundnuts, cotton, wheat, gram, sugarcane, rice, sesamum, maize, mug, udad and kalthi. About 25 per cent of the land is under bajri cultivation and about 50 per cent under groundnut cultivation. As groundnut fetches a high price and the soil is suitable, it is extensively cultivated. Production of oil from groundnut and sesamum is one of the chief industries of the place, which has about 25 oil mills. Other industries include cotton ginning and the production of khadi.

The Okha Port in Amreli District, which was greatly developed during the time of the two last Gaekwars of Baroda, is one of the best deep sea ports in India. In Okhamandal Taluka, Port Okha, Mithapur and Dwarka have become industrial centres. There are some big industries at these places namely Dwarka Cement Works, the Tata Chemicals Ltd. and the Burmah-Shell Oil Storage and Distributing Co. Dwarka is famous for Ranchhodrai temples. In Kodinar Taluka, there are a number of ports, which are chiefly used by the fishing industry and country craft.

Associations

AMRELI KAPOLE BOARDING SCHOOL & SETHI
PARMANANDAS TRIBHUVANDAS KAPOLE BALASHIKRAM
Amreli.

Chairman & Trustee : Gordhandas Bhagwandas Narrotamdas ;
Hon. Secretary : K. K. Parekh ; **Hon. Treasurer & Secretary :** S. M. Parekh.

SHARDA PEETH

Dwarka.

A See established for spiritual and cultural guidance and uplift in Western India, by the first Jagadguru Shankaracharya the Great.

Head : H. H. Jagadguru Shri Shankaracharya Shri Abhinava Sachchidananda Tirth Swamiji.

SHRI MAHILA VIKAS MANDIR

Jain Mahajanwadi, Dr. Jivraj Mehta Road, Amreli.

President : Jagjivandas N. Mehta ; **Secretaries :** Smt. Nirmlaben M. Bhatt, Dr. Maheshkumar S. Bhatt.

TRADES & PROFESSIONS

Alibhai Khanbhai Africawala, Amreli.
Amreli Engineering Works, Sukhnath Road, Amreli.
Bhatia Girdharilal Gokaldas, Kapad Bazar, Amreli.
Cutchhi Medical Stores, Chemists & Druggists, Palitana.
Damji Narsi & Bros., Dhariwala, Amreli.
Ebrahim Arbi & Sons, Tower Road, Amreli.
Ghusalal Lakhmanbhai, Seeds Merchant, Tower Road, Amreli.
Ismail, H., & Sons, Tower Road, Amreli.
Kathlawar Seeds Stores, Amreli.
Lalji Bhimji Thakkar & Co., Amreli.
Lavjibhai Gordhandas Parekh & Sons, Amreli.
Memon Karim Vallmohamed, Tower Road, Amreli.

Minerva Printery, Printers and Publishers, Amrell.
 Nandlal Parmanand, Ram Chowk, Amrell.
 Narayan Oil Mills Co., Amrell.
 Noorani Stores, near Tower, Amrell.
 Oriental Stores, Amrell.
 Parekh Juthabhai Keshavji, Amrell.
 Parekh Mathuradas Narandas, Amrell.
 Parekh Seed Stores, Amrell.
 Parashottam Narshidas, Kapad Bazar, Amrell.
 Patel Brothers, Electrical Contractors, Amrell.
 Sanghrajka Hardware Mart, Amrell.
 Shah Stores, near Tower, Amrell.
 Sheth Vrajlal Girdharilal, Amrell.
 Shivahankar Dhanji Adhyaru, Amrell.

SHREE LAXMI SILK WEAVING FACTORY

Manufacturers of Art Silk Linen, Cotton Shirtings
 and all kinds of textiles made to order for buyers.
 Mehta Wadi, Jaysinghpura, Amrell.

Grams: "LAXMISILK." Phone: 36.
 Sales Office (Bombay):—346, Kalbadevi Road, Bombay 2.
 Phone: 39717.

Vijay Oil Mills Ltd., Amrell.
 Virji Shivdas & Sons, Amrell.
 Vithaldas Narshidas, Amrell, Bombay State.
 Vora Gobar Ramji, Amrell.

AURANGABAD DISTRICT

Headquarters : Aurangabad.

Talukas and Mahals : Aurangabad, Kannad, Vajapur, Gangapur, Bhokardan, Ambad, Palthan, Jalna, Jafferabad (Mahal), Khuladabad (Mahal), Sillod, Soegaon (Mahal).

Area : 6,318 sq. miles ; Pop. 1,179,404.

The District may be divided into the uplands in the north and the lowlands in the south, the latter terminating in the valley of the Godavari. The hills in the District—the Satara, Ajanta, Kannad, Mahadeo, Gastala—have a terrace-like appearance with flattened summits.

The most important river is the Godavari which forms the southern boundary of the District. The principal tributaries in the District are the Sina, the Dhandla, and the Dudna.

The lower slopes of the hills are well-wooded. The animals found in the District include wild hogs, bears, wolves and occasionally tigers and leopards.

The most important cave temples in India—at Ellora and Ajanta—are found in this District. The great fort of Daulatabad is an extraordinary structure; the village of Khuladabad has the tombs of the Emperor Aurangzeb and of Asaf Jah, the founder of the former ruling dynasty.

The soil is of two kinds, the mesabi and the milwa. Jawar, bajra and wheat are the chief food-crops. Pulses and rice are next in importance. Cotton and oilseeds are largely grown.

Teak is the predominant species in the forest. A considerable portion contains only brushwood and small trees.

There are no minerals of economic value. Lime-stone, basalt and granite occur all over the country.

Aurangabad is now the headquarters of the Marathwada University.

MARATHWADA UNIVERSITY

The Marathwada University is a teaching and affiliating University, established in 1958 by the Marathwada University Act passed by the State Legislature in May 1958. It is situated at Aurangabad with jurisdiction over five districts of Marathwada i.e., Aurangabad, Bhilr, Parbhani, Nanded and Osmanabad. It has nine colleges affiliated to it and has seven faculties : Arts, Science, Commerce, Law, Education, Agriculture and Medicine.

The Court, the Executive Council, the Academic Council and other bodies of the University were in the process of formation and were expected to start functioning from March 1959.

Chancellor : Sri Prakasa, B.A., LL.B. (Cantab.), Bar-at-law.

Vice-Chancellor : S. R. Dongerkery, B.A., LL.B.

Registrar : M. B. Chitnis, M.A.

The University will confer the following degrees : B.A., B.Sc., B.Com., B.Ed., B.Sc. (Agri.) and LL.B.

University Departments providing for post-graduate courses will be established, when the authorities competent to institute them are constituted.

Affiliated Colleges : (Names of Colleges with names of Principals against each college) : Govt. College of Arts & Science, Aurangabad : Dr. K. R. Poddar, M.A., D.Litt. ; Milind Mahavidyalaya, Aurangabad : M. N. Wankhade, M.A. ; Govt. Medical College, Aurangabad : Dr. T. S. Row, M.R.C.P. ; Govt. College of Education, Aurangabad : Ramchandra Rao Manjramkar, B.A., B.Ed. ; Manikchand Pahade Law College, Aurangabad : Vishwanath Das, M.A., LL.B., Bar-at-law ; Jalna Education Society's Arts & S.B.L. Commerce College, Jalna : P. M. Sapre, M.Com. ; People's College, Nanded : K. R. Shirwadkar, M.A. ; Yogeshwar Science College, Mominabad : I. Suryanarayana, M.Sc. ; Marathwada Agriculture College, Parbhani : Dr. Narayana, M.Sc., Ph.D.

Total number of students on roll : 2,856.

BUDGET FOR 1958-59.

Income : Rs. 98,000 (Recurring) ; Rs. 2,000 (Non-recurring).

Expenditure : Rs. 2,13,278 (Recurring) ; Rs. 80,400 (Non-recurring).

Government Grant : Rs. 1,93,777.

MARATHWADA SAHITYA PARISHAD
 Aurangpura, Aurangabad.

President : N. S. Pohnerkar ; *Secretary* : M. D. Bhosle ; *Editor* : T. S. Kulkarni.

COTTON MILLS

AURANGABAD MILLS LTD., Spindles 12,640, Looms 271 ; Managed by Board of Directors, Empire House, Dadabhai Naoroji Road, Fort, Bombay 1 ; Mills at Kothwalpura, Aurangabad.

BANASKANTHA DISTRICT

Headquarters : Palanpur.

Talukas and Mahals : Palanpur, Deesa, Dhanera, Vadgam, Tharad, Wav, Deodar, Kankrej, Danta.

The population of the District according to 1951 census, is 696,367 the area 3,682 sq. miles.

BARODA DISTRICT

Headquarters: Baroda.

Talukas and Mahals:—Baroda, Savli, Vaghodia, Padra, Karjan, Sinoor, Dabhol, Sankheda, Naswadi, Chhota-Udepur, Jabugam, Baroda City.

Geographically, Baroda District (which is one of the five blocks into which the Baroda State was divided) forms a central compact block in the heart of Gujarat and is one of the eight districts comprising Ahmedabad Division. It lies between North Latitude 21° 41' and 23° 32' and East Longitude 73° and 74° 10'.

The area of the District is 2,788 sq. miles and the population 11,94,746.

The most important portions of the District are Kanum which produces some of the finest cotton in India and Chorasi and Vahai in Sankheda and Vaghodia Talukas. The picturesque bank of the river Narmada stretching over 100 miles in length abound in archaeological remains, temples, shrines. Besides Narmada and Mahi other rivers flowing through the District are Jambua, Surya, Vishwamitri and Dhadhar draining into the Gulf of Cambay while the rivers Or, Heran, Utocha are tributaries of the larger rivers. Geological experts of the Natural Gas and Oil Commission of the Govt. of India are prospecting for oil in Baroda and have announced oil find at one of the 12 experimental bores near Vadsar.

Villages in Baroda provide amenities which do not generally exist elsewhere. Most villages have well conducted panchayats and possess institutions like schools, libraries, co-operative societies conducted on sound lines. The District as a whole has over 700 primary schools, 500 libraries, 300 gymnasiums and welfare associations.

The District is poorly wooded except in the east. The annual rainfall averages about 30 inches and varies only slightly from one place to another. The chief food crops are wheat, jowar, bajra, pulses, kodra, kodri, bawta, maize. Rice is now grown extensively interspersed with cotton. This latter together with tobacco, castor, and other oilseeds form the principal money crop. Baroda is a deficit District for food. In Padra, Karjan and Baroda Talukas many garden crops including vegetables and fruit are grown. Baroda does not possess adequate irrigation facilities like large reservoirs or hydro-electric works except wells. Considerable attention was given to the construction of wells in recent years.

Baroda, the headquarters of the District is a historic and ancient city, and was the capital of the State till the State ceased to exist. It is fully modernised and is famous for its beautiful buildings, palaces, parks, avenues, recreation grounds, schools, colleges, hospitals, public libraries and broad, well laid out roads, and can stand comparison with any of the cities of the same size in India. The District is also well advanced in industry. In recent years a number of factories, big and small have sprung up. The more important lines of development are textiles, chemicals, oil and soaps, engineering, metal works and foundries, rolling mills, and manufacture of glassware, etc., providing employment to about 30,000 workmen.

Baroda has a full-fledged University with affiliated colleges providing courses in the humanities, Science, Technology, Social Work, Domestic Science and Music. The Maharaja Fatehasingh Rao Gawkwad of Baroda is its Chancellor and Dr. Jyotindra Markand Mehta is the Vice-Chancellor.

Medical relief is so well organised that it is worth a special note. Among the larger medical institutions the most important is the Shri Sayajirao State General Hospital in Baroda city, which contains all special departments like pathology, surgery, radiology, dentistry, ophthalmology, midwifery, gynaecology and children's diseases. There is also the Shri Jambhai Hospital run by the Government.

Separate institutions also exist for medical relief to women and children. Other important institutions in the city are the Mental Home, the Leper Asylum and a branch of the Indian Red Cross Society.

The Shri Padmavati Tuberculosis Hospital and Sanatorium located some 8 miles from Baroda city is well-equipped with scientific appliances and a clinic provides treatment for people suffering from tuberculosis.

MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

Baroda.

The Maharaja Sayajirao University is a teaching and residential University established in 1949 under an Act of the former Baroda State and incorporated in the Statute by the Bombay Government following the merger of the State with Bombay. All the colleges and recognised institutions situated within the University area specified in the Act, became the constituent parts of the University and were with the exception of the Medical College, Museum and Picture Gallery managed by the University. These constituents include:—the Faculties of Arts, Science, Education and Psychology, Commerce, Medicine, Technology and Engineering, Fine Arts, Home Science and Social Work, Intermediate College, College of Indian Music, Dance and Dramatics, Polytechnic, the Oriental Institute and the Baroda Sanskrit Mahavidyalaya.

The University has instituted an ayurvedic research section in the medical college, Baroda, called Sheth Ujameshi Pitamberdas Ayurvedic Research Unit named after the donor who had created a trust and started an ayurvedic college at Patan.

The University instituted in 1952, a post-graduate diploma in Museology too, and the department is located in the museum and picture gallery. Museology is also included as one of the compulsory subjects for students of the Faculty of fine arts offering applied arts.

From June 1953, the Faculty of technology and engineering has introduced a course in textile engineering leading to the degree of Bachelor of Textile Engineering, the first of its kind in India. From June 1955, a course in Textile Technology leading to the degree of Bachelor of Textile Technology has also been introduced in this Faculty. Postgraduate courses in Civil, Mechanical and Electrical Engineering leading to the degree of Master of Engineering have also been started since June 1957.

The University started a post-graduate diploma in Banking, the first of its kind in India, from June 1954 and a post-graduate diploma in Library Science from June 1956.

The Ramayana Department, started in the Oriental Institute, to publish an illustrated critical edition of Valmiki Ramayan, is progressing well.

A specialised course for training of Social Education Organisers for the Community Projects has been started in the Faculty of Social Work from 1955.

A Home Science Wing has been started for the training of Gram-sevikas for the Government of Bombay.

The University has introduced the three-year degree course in Arts, Science and Commerce from June 1957.

Budget for 1958-59: Income: Rs. 46,38,582-00 including Government of Bombay Grant of Rs. 19,97,750-00. Expenditure: Rs. 50,28,805-00.

Chancellor, His Highness Shrimant Fatesinh Gawkwad, Maharaja of Baroda, Sena Khas Khel, Samsher Bahadur, Maharaja of Baroda.

Vice-Chancellor, Dr. Jyotindra M. Mehta, M.A. (Oxon.), Ph.D. (Lond.).

Pro-Vice-Chancellor, Dr. C. S. Patel, B.A., M.Sc. (Bom.), Ph.D. (Leeds).

Registrar, B. K. Zutshi, M.A., LL.B. (Luck.).

University Librarian, Dr. O. P. Shukla, M.A., B.T. (Bom.), M.A. (L.S.), Ph.D. (Michigan).

Deputy Registrar, B. M. Nanavaty, B.A., Dip. Ed.

Asst. Registrar, B. G. Desai, M.A. (Bom.).

University Engineer, N. B. Patel, B.E. (Civil), A.M.I.E. (India).

Dy. Engineer, L. H. Popat, B.E. (Civil).

Asst. Dy. Engineers, B. B. Nanavaty, B.E. (Civil), M. J. Thakore, Dip. in Civil Engg.

Auditor, B. A. Iyer, B.A. (Hons.).

Accountant, N. A. Parikh, B.Com. (Bom.).

Superintendents, N. P. Parikh, B.A. (Bom.), Dip. Ed., M.Ed. (Baroda); R. A. Dudhwala, M.A. (Bom.).

Members of the Syndicate: Dr. Jyotindra M. Mehta (Vice-Chancellor); Dr. C. S. Patel (Pro-Vice-Chancellor); Dr. A. G. Pawar, M.A., Ph.D. (Director of Education); Dr. Jivraj N. Mehta; Smt. Hansa Mehta; B. B. Joshi; J. S. Parikh; Smt. Ananya; I. Amin; Dr. B. B. Yodh; D. M. Parikh; Prof. T. K. Narayana Menon; V. Y. Kantak; Prof. N. M. Bhatt; Dr. T. V. Patel; Prof. D. Subbarao.

Deans of Faculties: Arts.—V. Y. Kantak, M.A.; Science.—Prof. N. M. Bhatt, M.Sc., LL.B., Ph.D. (Edin.), F.S.S.; Commerce.—Prof. V. Y. Kolhatkar, M.Com., M.Sc. (Econ., London); Education and Psychology.—Prof. T. K. N. Menon, B.A., Dip. in Edn. (Leeds and Berlin), M.A. Educ. (Leeds); Medicine.—Dr. A. N. de Quadros, M.B.B.S., D.P.S. (Lond.), F.R.C.S. (Eng.); Technology and Engineering.—Prof. D. Subbarao, B.E. (Civil), A.M.I.E. (India); Fine Arts.—Prof. Markand Bhatt, G.D. (Arts), M.A. (Arts Edu., Barnes Foundation) (U.S.A.); Home Science.—Kumari Justina A. Singh, M.Sc. (Oregon and Kansas); Social Work.—Smt. Indra S. Tayal.

Principals: Intermediate College, C. M. Shukla, M.A. (Bom.), B.A. (Hons.), (Lond.); College of Indian Music, Dance and Dramatics, Prof. R. C. Mehta, B.A.; Polytechnic, Prof. L. B. Shah, B.Sc. (Eng.), (R.H.U.) Int.Sc. (Tech.), A.M.C.T. (Maunder); Sanskrit Mahavidyalaya, H. C. Mehta, M.A., B.T.

Director, Oriental Institute, Dr. B. J. Sandesara, M.A., Ph.D. (Bom.).

EDUCATIONAL INSTITUTIONS, ETC.

The Baroda Arts and Science College, Baroda.

The College of Engineering, Baroda.

The Pratapaiah College of Commerce and Economics, Baroda.

The Kalabhavan Technical Institute, Baroda.

The College of Indian Music, Baroda.

Vernacular Teachers' Training College.

Training College for Women Teachers.

Diamond Jubilee Cotton Industries Institute, Baroda.

Emporium of Arts and Crafts, Baroda.

Sanskrit Mahavidyalaya, Baroda.
The Women's College of Home Science, Baroda.
The College of Fine Arts, Baroda.
The School of Social Work, Baroda.
The Secondary Teachers' Training College, Baroda.
The Aryan University for Girls, Baroda.

ALL INDIA EDUCATIONAL & VOCATIONAL GUIDANCE ASSOCIATION

Faculty of Education & Psychology, M. S. University of Baroda, Baroda.

Promotes Vocational Guidance movement in India; publishes a journal on Vocational and Educational guidance and holds annual conferences to assess the progress.

President: K. G. Salyidain (Secretary, Ministry of Education, Govt. of India); *Chairman:* H. Davenport (Director of Employment Exchanges, Ministry of Labour, Govt. of India); *Hon. Secretary:* L. J. Bhatt (Reader in Psychology, M.S. Univ. of Baroda, Baroda).

BARODA COLLEGE—(FACULTY OF ARTS)

This Faculty provides instruction in the Humanities and the Social Sciences leading to B.A., M.A. and Ph.D. degrees of the M. S. University of Baroda.

Dean and Reader in English, V. Y. Kantak, M.A.

COLLEGE OF INDIAN MUSIC, DANCE & DRAMATICS

Sursagar, Baroda.

Principal and Head of the Dept. of Music: Prof. R. C. Mehta;
Head of the Dept. of Dramatics: Prof. C. C. Mehta.

THE FEDERATION OF GUJARAT MILLS & INDUSTRIES

Rameschandra Dutt Road (Race Course Road), Baroda 1.

The present membership is 110. The membership is open to all industrial undertakings.

President, U. M. Patel; *Vice-President,* B. M. Mehta; *Hon. Secretary and Treasurer,* D. T. Mehta.

KAMUBALA SAHAKARI AUDYOGIK VIKAS MANDIR LIMITED

Narsinghji's Pole, Mahatma Gandhi Road, Baroda.

President: Smt. Jyotsanaben K. Jhaveri.

Hon. Organiser: Smt. J. K. Jhaveri.

Hon. Secretary: Smt. Kamalaben A. Shah.

ORIENTAL INSTITUTE

Smt. Hansa Mehta Library Building, Tilak Road, Baroda.

Director: Prof. B. J. Sandesara; *Dy. Director:* Dr. U. P. Shah;
General Editor and Head of the Ramayana Department: Prof. G. H. Bhatt.

PARESH TECHNICAL INSTITUTE

Palace Road, Baroda, and Vayudeva Building, Rajwada, Baroda.

Principal: Madhusudan Madhavil Desai; *Secretary:* Vasant Kumar Madhavil Desai; *Treasurer & Organiser:* Pravin Kumar Madhavil Desai.

SANSKRITA VIDYAT SABHA

Dvarakadhish Sadan, Narasinha Ji Ni Pole, Baroda.

President: Badrinath K. Shastri; *General Secretary:* Kalika Prasad Shukla, M.A., Acharya.

SHREE PREMANAND SAHITYA SADHA

Opp. Kothi, Baroda.

President: Chandrakant M. Shukla, M.A.; *Vice-President:* Raghunath Parikh; *Secretaries:* M. M. Desai, M.A., B.T., Smt. Suresha Mazmudar, Yadvendra Baxi.

TEXTILE & ALLIED INDUSTRIES RESEARCH ORGANISATION (TAIRO)

In collaboration with the M. S. Univ. of Baroda.

Kala-Bhavan Premises, Baroda.

Hon. Director-Secretary: B. B. Joshi; *Asst. Secretary:* K. M. Bhatt;
Liaison Officer: A. D. Madhura Nath; *Research Officer:* B. M. Dixit.

LIBRARIES

Central Library.

Shri Jaswantisingh Public Library.

M. S. Univ. Library.

Information Centre.

Manekrao Vyayam Shala Library.

Pustakalaya Mandal Library.

COTTON MILLS

BARODA SPINNING AND WEAVING CO., LTD., Spindles 34,352, Looms 658; Agents: Javerchand Laxmichand & Co., P.O. Box No. 57, Baroda. Mills at Pani Gate, Baroda.

NEW INDIA INDUSTRIES LTD., Spindles 14,256; Agents: Distributors (Baroda) Private Ltd., Office on Mill premises. Mills at Jetapur Road, Baroda.

SHREE YAMUNA MILLS CO., LTD. (formerly New Baroda Mills Co., Ltd.), Spindles 27,496, Looms 608; Agents: Javerchand Laxmichand Bros. & Co., Office on Mill premises. Mills at Pratapnagar, Baroda.

SHRI AMBICA MILLS No. 3 (formerly Shri Jagdish Mills Ltd.), Spindles 20,324, Looms 464; Agents: Harivallabhdas Kalidas & Co., Near Kankaria Loco Siding, Ahmedabad. Mills at Padra Road, Baroda.

* **SAYAJI MILLS NO. 1,** Spindles 36,004, Looms 602; Proprietors: Sayaji Mills Ltd., Kathwada, Ahmedabad. Mills near Old Railway Station, Baroda, No. 3.

TRADES & PROFESSIONS

Abhyankar, G. K., & Co., Ganpule Building, Raopura, Baroda.

Alembic Glass Industries Ltd., Baroda 3.

Amulakhal M. Munshi, Raopura Road, Baroda.

Arvind Boards and Paper Products Ltd., Billimora (W. Ry.).

Ashwin Industries Ltd., Office: opp. Jubilee Bag, Baroda.

Baroda Oil & Mill Store Supplying Co., opp. Suryanarayan Bag, Raopura, Baroda.

Baroda Oil Mills, Pratapnagar Road, Baroda.

B. Bros., Raopura, Baroda.

Bombay Baroda Assurance Co., Ltd., Baroda.

Canara Coffee House, Dandia Bazar, Baroda. Speciality: Rice Plate and Puri Bhaji. Phone: 2561.

Cawaji Bustomji Dalal, Billimora (Western Ry.).

C. Patel & Co., Near Tarkashwer Mahadev, Baroda.

Dave, S. & Co., General Merchants, Tower Road, Baroda.

Desai & Co., Raopura, Baroda.

Desai, C., & Co., Lakshmi Bhuvan, Sayajiganj, Baroda.

Diamond Auto Stores, opp. College, Baroda.

Gita Niwas Hindu Lodging and Boarding House, Sursagar, opp. Pratap Talkies, Baroda.

Graphite and Mineral Industries, Chhani Road, Baroda.

Halifax Engineering Co., Anandpura, Baroda.

Indian Export Trade Bulletin, Sayajiganj, Baroda.

J. M. Machinery Mart, Anandpura, Baroda.

Jasman Machine Tool Corporation, Anandpura, Baroda.

Joshi, Pandit & Co., Ltd., Sayajiganj, Baroda.

Kantilal, B., & Co., Opp. College, Baroda.

Kirti Patel & Co., Raopura Road, Baroda.

Kothari, M. C., Raopura, Baroda.

Krishna Niwas, Behind Naya Mandir, Baroda.

Lalchand & Sons, Raopura Road, Baroda.

L. N. Shah's Modern Photo House, Kothi Road, Baroda.

Madhubhai Chotabhai Patel, Raopura, Baroda.

Madhukar Khandubhai & Co., Tulsidas Mansions, Kothi Road, Baroda.

M. Ambalal & Co., Raopura Road, Baroda.

Merit Oil & Trading Co., Ltd., Mehta Road, Baroda.

Mody Brothers, Raopura, Baroda.

Narayan Chemical Industries, Ganpule Building, Raopura, Baroda.

THE NEW GREAT INSURANCE COMPANY OF INDIA LTD.

Bank Building, Mandvi, Baroda.

Chairman:—Shri Tulsidas Kilachand

General Manager:—Shri M. G. Mody

Business Transacted: Fire, Marine, Accident and Miscellaneous Insurance.

New Gujrat Trading Co., Raopura, Baroda.

Oriental Government Security Life Assurance Co., Ltd., Inspectorate Office, Kothi Road, Baroda.

Pandit, C. M., Sayajiganj, Baroda.

Paramount Insurance Co., Ltd., Head Office: Raopura, Baroda.

Park View—Soda Fountain, Restaurant & General Stores—The best Spot in Town, Sayaji Road, Navsari. Specialities: Velvet Ice-Creams; Delicious Drinks and Appetising Savoury Snacks; Phone: 207.

Patel, S. A., & Co., Raopura, Baroda, Chemists and Druggists.

Ruby General Insurance Co., Ltd., Diwali Bhuvan, Raopura, Baroda.

Sarabhai Chemicals (Factory), P.O. Box No. 31, Baroda.

Sayaji Iron and Engineering Co., Ltd., Chhani Road, Baroda.

S. B. Patel & Co., Raopura, Baroda.

Shirke & Co., Sayajiganj, Baroda.

Swastik Engineering and Manufacturing Co., Ltd., Bahucharaji Road, Baroda.

Thakkar, B. M., & Co., Raopura, Baroda.

United India Medical Stores, opp. Secretariat, Baroda.

Vasant Engineering Ltd., Pratapnagar, Baroda.

Vinod & Abhyankar, Ganpule Building, Raopura, Baroda.

Western Petroleum Co., opp. Machipith, Raopura, Baroda.

BHANDARA DISTRICT

Headquarters : Bhandara.

Tahsils : Bhandara, Gondia, Sakoli.

The District lies roughly between North Latitude 20° 31' and 21° 44' and East Longitude 79° 29' and 80° 43'. It is bounded on the north by Balaghat District, on the east by the former States of Khairagarh and Nandgaon, on the south by Chanda District, and on the west by Nagpur District. The area of the District is 3,623 sq. miles, and the population 1,071,657. The chief language is Marathi but Hindi is also spoken by a considerable section of the population.

PHYSICAL FEATURES

The surface is generally open and level, being broken only in a few places by isolated ranges of hills. The main river is the Wainganga and practically all the others are its tributaries. The Wainganga enters the District on the north-east and flows diagonally across until it passes within a mile of Bhandara town on the south-west, its valley lying between two ranges of hills. After this it flows to the south and then turning again south-east cuts off the small and fertile strip of Pauni from the rest of the District. Its width in Bhandara is about 800 yards but opposite Pauni it broadens to half a mile. The principal tributaries of the Wainganga are the Bagh, the Chulband, the Fangoli, the Chandan, the Bawanthari, and the Sur. The valleys of the Wainganga and the Bagh have been called the 'lake region' of Nagpur from the number of large artificial tanks constructed for irrigation which form a distinctive feature of the country. The larger tanks are irregular lakes, their banks formed by rugged hills, covered with low forest that fringes the waters. The Sakoli Tahsil or southern

portion of the District consists largely of hill and forest. Elsewhere the country is for the most part open and closely cultivated, and the expanses of rice and wheat fields thickly studded with fruit-bearing trees and broken by low, flat topped hills present a pleasant and prosperous appearance.

The climate is generally cooler than that of Nagpur and the highest temperature in the hot season is usually not more than 112°. The nights if the sky is clear are nearly always cool. In winter the nights are cold though it never actually freezes. The annual rainfall averages 55 inches.

Gondia may be regarded as the centre of railway communications.

FOREST, AGRICULTURE, INDUSTRY

The forests generally cover and surround the hill ranges. Teak is found on the higher hills and bamboos abound. The other timber trees are Saj, Lendia and Bijasal or Benia. Mahua is abundant in the open country and the usual fruit-bearing and sacred trees surround the villages. The grasses called Kusai and Ghonar are principally used for thatching and Musyal for fodder. Kana sometimes invades wheat fields.

The principal food crops are rice, jawar, wheat, gram, linseed and pulses. Ginger, oranges and plantains are also grown and sent to Nagpur.

Mineral deposits include those of manganese, iron and a little gold.

The chief industries are weaving, making of brass vessels and stone jars, of soft grass matting for bedding, and of bamboo baskets.

BHIR DISTRICT

Headquarters : Bhir.

Talukas and Mahals : Mominabad, Manjlegaon, Gevral, Bhir, Ashti, Patoda (Mahal), Kirj.

Area : 4,279 sq. miles ; Pop. 826,046.

The biggest river is the Godavari which runs along the northern boundary. The smaller rivers are the Manjra, the Sindphana, the Bendsura and the Vijarta. The forest area is limited and so is large game. The climate is generally healthy and temperate, but in the lowlands it is warm and humid. The average rainfall is about 30 inches.

There are forts and buildings at Bhir which are of archaeological interest. Amba has a temple dedicated to Jugal. The temple of Baijnath at Parli is a celebrated place of Hindu pilgrimage.

The soil is mostly black cotton. On this are grown cotton, white jawar, gram, gingelly and wheat, while on the masab and kharab soils are grown white bajra, yellow jawar, pulses and oilseeds. Cotton and linseed are produced extensively in the District. The staple food crops are jawar and bajra. Wheat and rice are next in importance.

The District has no minerals of economic value. Granite, basalt and limestone which are found everywhere are used for building.

There are no railways in the District.

BROACH DISTRICT

Headquarters : Broach. **Sub-Division :** Rajpipla.

Talukas and Mahals : Broach, Vagra, Amod, Jambusar, Ankle-shwar, Hansot, Nandod, Jhaghadia, Valla, Dediapada, Segbara.

Broach District is bounded on the north by the river Mahi, on the east and south-east by Baroda District, on the south by the river Kim and on the west by the Gulf of Cambay.

The area of the District is 2,934 sq. miles and the population according to 1951 census 706,035. The language spoken is Gujarati.

The soil is of the black cotton variety and is highly fertile, producing the famous Broach cotton, one of the best in India. Other agricultural produce includes wheat and lang. Timber, charcoal and some kinds of forest produce are available owing to the merger of the State of Rajpipla with the District.

There are two textile mills in the District (both in Broach) and spinning and pressing factories.

The main line of communication is the Western Railway which runs through the District from south to north.

Broach is one of the oldest seaports in Western India and is still a prominent port for country craft. The city has a fair, a dharmasala and a P.W.D. inspection bungalow.

The Jayendrapuri Arts and Science College, was opened in June 1955.

MILLS

BROACH TEXTILE MILLS PRIVATE LTD. (Nos. 1, 2 and 3). Spindles 22100 ; Looms 652. **Directors :** Nagjibhai L. Patel, Raojibhai S. Patel. Office on Mill premises. Mills at Mahatma Gandhi Road, Broach.

SHRI PRITHVI COTTON MILLS LTD. (formerly Broach Fine Counts Spg. & Wvg. Co., Ltd.). Spindles 24,480 ; Looms 542 ; Director, L. B. Rungta, 401, Cotton Exchange Building, Bombay 2. Mills at Mahatma Gandhi Road, Broach.

ASSOCIATIONS, CLUBS, ETC.

The Broach Bar Association, Court Road, Broach.

The Broach Red Cross Society, Near Tower, Broach.

The Rotary Club, Broach Branch.

The Broach Sanitary Museum Hall, Broach.

The Majoor Mahajan, Broach Branch, Near Sevashram, Broach.

The Broach Kamdar Union (Red Flag), Near Panch Fanaa, Broach.

The Bharat Sevak Samaj, Jawahar Bazar, Broach.

The Broach Shri Mandal, Jawahar Bazar, Broach.

The Broach Education Society, Jawahar Bazar, Broach.

Shri Batuknath Sarvajank Vyayamshala, Baharni Undal, Broach.

The Broach Cine Circule Society, Navadehra, Broach.

The Broach Sad Vidya Mandal, Jawahar Bazar, Broach.

The Broach Jilla Vidyarthi Sahayak Mandal, Lalubhai Chakla, Broach.

LIBRARIES

Baychand Dipchand Library, near Tower, Broach.
 Nrisinh Library, Jawahar Bazar, Broach.
 Rashtra Bhasha Prachar Library, Jawahar Bazar, Broach.
 Dadabhai Naoroji Library, Zadeswari Dnrwaja, Broach.

B. R. S. UNION HIGH SCHOOL MUSIC CIRCLE
 Malji Road, Broach.

President : K. B. Shah, B.A., B.T., S.T.C. (Kovid); *Vice-President*
 and *Treasurer* : V. C. Desai, Ex. Arts. S.T.C., Dip. Visual Edn.;
Secretary : Miss V. D. Dastur, S.S.C., S.T.C.

THE BROACH DISTRICT ADIVASI SEVA SANGH
 Station Road, Rajpipla.

President : Chandrashanker M. Bhatt, M.P.; *Vice-President* :
 Harisinh B. Mahida, M.L.A.; *Secretary* : Ratansinh G. Mahida.

THE BROACH MERCHANTS' ASSOCIATION
 Eurja Road, Broach.

President : A. C. Gandhi; *Vice-President* : Chhimanlal Thakorlal;
Hon. Secretary : Govanbhai Narandas.

KALA MANDAL

Soneri-Mahel, Broach.

President : Dinsha Shana; *Hon. Secretaries* : Bhanu C. Patel,
 Vadan Kuwala; *Hon. Treasurer* : Munir Ahmedkhan Khan.

BROACH EDUCATION SOCIETY

Jawahar Bazar, Broach.

President : Vacant; *Vice-President* : Dr. Chandulal M. Desai;
Secretary : Thakorlal N. Gunderia.

LALIT KALA MANDAL

Station Road, Rajpipla.

President : Madhavsinh Muljibhai Barot; *Secretary* : Ratansinh
 Ganpatsinh Mahida; *Jt. Secretary and Treasurer* : Vithalibhai Mathur-
 bhai Patel.

THE RAJPIPLA RIFLE CLUB

Rajpipla.

President : Ratansinh G. Mahida; *Vice-Presidents* : Adil Nasarvanji
 Contractor, Rupdevsinhji; *Secretary* : Dilipchandra C. Pandya.

BULDANA DISTRICT

Headquarters : Buldana.

Tahsils : Chikhli, Mehker, Malkapur, Khamgaon, Jalgaon.

This Berar District lies roughly between North Latitude 19° 45' and 21° 17' and East Longitude 76° 20' and 77° 10'. It is bounded on the north by the Districts of East Khandesh and Nimar, on the south by Aurangabad and Farbhani, on the east by Akola, and on the west by Aurangabad and East Khandesh. The area of the District is 2,766 sq. miles and the population 870,168. The language spoken is Marathi.

The principal means of communication is the Bombay-Nagpur line of the Central Railway which runs through the northern portion of the District from west to east for a distance of about 28 miles.

Jawar is the chief food crop, though wheat is also grown. The most profitable cash crop is cotton with oilseeds coming next.

The principal industry is the preparation of cotton for the market. Exports consist of raw cotton, oilseeds, grain and pulses, and the imports include grain and pulses, coal and coke, sugar and salt.

CHANDA DISTRICT

Headquarters : Chanda.

Tahsils : Chanda, Warora, Brahmapuri, Garchiroli, Sironcha.

The District lies roughly between North Latitude 18° 42' and 20° 45' and East Longitude 78° 48' and 80° 45'. It is bounded on the north by the Wardha, Nagpur, and Bhandara Districts, on the west by the Yeotmal District and Andhra, and on the east by the Durg and Bastar Districts. The area of the District is 9,312 sq. miles, and the population 977,618. The languages spoken are Marathi, Hindi, Telugu and Gondli.

PHYSICAL FEATURES

The shape of the District is an irregular triangle, with its base to the north and tapering to the south. The Wardha, Pranhita and Godavari rivers successively mark the western border, while to the north the Wunna river divides Chanda District from Wardha District for a short distance. The western portion between the Wardha and Kral rivers and a small strip along the north consist of undulating open country. East of this to the Wainganga the surface is generally broken either by isolated hills or small ranges; large areas are covered with forest, and the soil is generally sandy. The Wainganga flows from north to south through the centre of the District to its junction with the Wardha. The greater part of the country to the east of it consists of an elevated plateau stretching from north to south along the entire length of the District, from which again rise numerous ranges of hills, while dense masses of forest extend over plateau and valley alike. The general height of the plain country is about 900 feet above sea-level in the north falling to 668 feet at Chanda and

406 at Sironcha. Except in the open country on the west and north, the whole District is thickly wooded.

The District still retains several memorials of its past glory in the ruins of its forts and palaces round about Chanda town. There are several picturesque spots worth seeing and useful for shikar.

The forest vegetation in the District is of a mixed character. Teak is fairly general but is not anywhere very plentiful. The principal trees are Saj, Bijasal, Rohan, Kaddan, Halku, Semal, Mahua, Dhaura, Tendu, Garari and Palas. Salai is very abundant on the dry hills and plateau. Other trees met with are Satin-wood, Reunjha, Bahera and Siris. Near villages tamarinds and mangoes abound, and in the south of the District groves of the palmyra palm occur. The forests are well distributed, and very few villages are more than three miles from some part of them.

The climate is slightly hotter than that of Nagpur, and the heat of the summer months is trying. On the whole, however, the climate is healthy. The annual rainfall averages about 51 inches at Chanda Town and 46 at Warora. Failure of rainfall is very frequent.

AGRICULTURE, INDUSTRY

Rice which is the most important crop is grown in the centre and east of the District. Jawar is the chief crop in Sironcha and the Warora Tahsils, while linseed, gram and wheat are grown principally in the black-soil lands of the Chanda Havell and those adjoining the Wardha river. Cotton is also an important cash crop.

Coal-mines occur and there are match factories, ceramic industries and paper manufacture.

DANGS DISTRICT

Headquarters: Ahwa.

Taluka: Dangs.

Dangs District lies between north latitude 20° 33' and 21° 3', east longitude 73° 28' and 73° 57'. The area is about 658 sq. miles and the population 47,282. The rail terminus for the District is Waghal on the Billimora-Waghal line on the Western Railway and is 171 miles from Bombay. There are regular State Transport Bus Services throughout the year between Billimora and Ahwa via Waghal, and Ahwa and Nawapur; and during fair season between Ahwa and Nasik via Waghal.

The language spoken by the Dangs is called Dangl. It has been officially accepted that the basic element of Dangl is Marathi. Marathi

and Gujarati are also spoken in the District. The inhabitants are called Dangs which term includes Bhilla, Kunbis, Warlis and Maochis. The whole District is a scheduled area.

The District contains some of the richest forests in Bombay State, which form the principal source of revenue, Dangs teak being considered as one of the best varieties of Indian teak.

There is a Central Hospital at Ahwa where the District Bungalow of the Public Works Department is also situated. There are about 20 forest rest houses at various places in the District. The climate of Ahwa is pleasant throughout the year.

EAST KHANDESH DISTRICT

Headquarters: Jalgaon.

Talukas: Chalisgaon, Amalner, Parola, Chopda, Erandol, Pachora, Jamner, Jalgaon, Yaval, Raver, Bhussawal.

Mahals: Edlabad, Bhadgaon.

East Khandesh, with Jalgaon as capital, is one of the northern-most Districts in Bombay State. It is bounded on the north by the Satpura Mountains and Madhya Pradesh State, on the east by Nimar and Buldana Districts, on the south by Aurangabad District, and on the west by Nasik and West Khandesh Districts. Since the re-organisation of States, the District forms part of Aurangabad Division.

The area of the District is 4,487 sq. miles and the population according to 1951 census 1,471,351. The main population of the District is composed of Levas and Marathas, with a good percentage of Bhils, Vanjaris and other hill tribes. Levas, who are supposed to be the descendants of Lahu, the son of Rama, are said to have migrated to the District in the 11th century. Their language is a peculiar mixture of Gujarati, Marathi and Hindi and is called Ahirani. The District has very rich black soil, specially in the trans-Tapti Talukas, and is among the Districts which yield the highest revenue.

AGRICULTURE

The most important crops are cotton, groundnuts, jawar, bajri, gram, millet, linseed and sesamum. The most important garden crops are chillis, coriander, melons, watermelons, betel leaf, bananas, mosambis and santra. North India is a lucrative export market for bananas for the sale of which eleven Co-operative Fruit Sale Societies have been established in the District. The bananas are now marketed by the State Co-operative Marketing Board in Delhi.

Cotton and groundnut are even more important. The cotton is classed as 197-3, better known as Vir Nar, which new variety replaced the old variety Jarilla in 1952. It is a cross breed of Verrum and N. R. Cotton. Vir Nar is finer than Broach and fetches a higher price. It gives 4 per cent more ginning. This cotton is now compulsorily sown in districts of East Khandesh, West Khandesh and Nasik. Government have a special agricultural farm at Jalgaon, for research in cotton breeding for improving the staple and ginning percentage. Higher rates for cotton and reduced acreage under groundnut have led to an increase in acreage under cotton.

There has been a sharp fall in acreage under groundnut owing to unfavourable weather conditions during successive years. There is a large export trade in groundnut oil and hydrogenated oil or vanaspathi.

COMMUNICATIONS

The Central Railway is the main line of communication and between its various lines traverses the whole length and most of the breadth of the District.

Jalgaon is the biggest town and District headquarters, a great trade centre, and also an educational centre. The town is 37 miles from Ajanta Caves and a regular State Transport bus traffic exists from Jalgaon to Ajanta. The Central Railway has constructed retiring rooms at Jalgaon Railway Station for the convenience of tourists visiting Ajanta Caves. Two new buildings have been added to the Travellers' Bungalow two furlongs from the railway station. Amalner is the biggest cotton centre in the District.

The rainfall (mean annual is 28-27 inches) is usually both general and regular, which fact in itself discourages irrigation.

INDUSTRIES

The main industry is based on agriculture. There are about 40 oil mills in the District, besides several bullock driven presses. One vegetable factory employs 350 workers. There is a silk mill in the

* Figures taken from 1957 statement.

District. There is also a factory, which manufactures crackers and fireworks, employing 100 workers during season.

There are in the whole District four spinning and weaving factories, about 100 cotton ginning and preading works, about ten dyeing factories, three big railway workshops (at Bhussawal) all employing more than 26,000 people.

EDUCATIONAL INSTITUTIONS AND ASSOCIATIONS

PRATAP COLLEGE OF SCIENCE AND ARTS

Amalner (E.K.).

Principal.—Prof. K. Z. Lad, M.Sc.I. (B.H.U.).

Education is imparted through tutorial system.

The Post-graduate Arts courses include Economics, Politics, Marathi, Sanskrit and English, catering to the need of the public.

Institution has modern, hygienic hostels accommodating about 400 students (separate Ladies' Hostel for 25 girl students) lending this institution a distinctive air of a residential College.

Special attention to extra-curricular activities such as out-door games, screening of educational films, etc.

KHANDESH COLLEGE EDUCATION SOCIETY'S MOOLJEE JAITHA ARTS & SCIENCE COLLEGE

Jalgaon.

VALLABHDAS VALJI GENERAL LIBRARY

Jalgaon.

President.—Prof. M. N. Adwant. *Secretary.*—M. M. Kelkar.

Executive Chairman.—R. V. Dharmadhikari.

INDIAN INSTITUTE OF PHILOSOPHY

Amalner (East Khandesh).

President: Shrimant Pratapshet; *Director:* Prof. G. R. Malkani, M.A., M.Litt. (Cambridge); *Professor:* M. R. Oak, M.A. (Punjab), M.A. (Calcutta); *Shastri:* Pandit Atmaram Shastri Jere.

VYAPARI MAHAMANDAL

Baher Pura, Amalner (E. Khandesh).

Chairman: Hiralal Harjiwandas Shah; *Deputy Chairman:* Ratanlal Mahadeo Upadhye; *Secretary:* Ashokkumar Champalal Gujarati.

COTTON MILLS

KHANDESH SPG. & WVG. MILLS CO., LTD., Spindles 23,244, Looms 465; Secretaries & Treasurers: Indra Singh & Sons Private Ltd., Eros Theatre Building, Jamshedji Tata Road, Bombay. Mills at Jalgaon, E. Khandesh.

PRATAP SPG., WVG. & MFG. CO., LTD. (Nos. 1 & 2), Spindles 48,964, Looms 1,081; Agents: Motilal Manekchand & Co., Office on Mill premises. Mills at Amalner, East Khandesh.

CHHAGANLAL TEXTILE MILLS PRIVATE LTD. (formerly Chhagani Shri Laxminarayan Mills Co., Ltd.), Spindles 23,320, Looms 604; Rai Seth Chhaganlal, Managing Director; Office on Mill premises. Mills at Chalisgaon, East Khandesh.

* **GENDALAL MILLS LTD** (formerly Bhagirath Spinning and Manufacturing Co. Ltd.), Spindles 16,128, Looms 368. (In liquidation under Court Receiver.) Mills at Jalgaon, East Khandesh.

GOHILWAD DISTRICT (Bhavnagar District)

Area : 3,692 sq. miles ; **Population :** 1,020,130.

Headquarters : Palitana.

Talukas : Bhavnagar, Botad, Gadhada, Jafabad, Kundla, Lathi, Lilla, Mahuva, Palitana, Rajula, Sihor, Talaja, Umrals, Vallabhipur.

There is a plan to incorporate parts of Gohilwad into Amreli.

There are 1,033 villages and 17 towns in the District.

The port of Bhavnagar is well-equipped, and it is one of the main trading centres of the area.

The main industries of this district consist of textiles, rubber-goods and toy making. Mahuva is well-known for the manufacture of toys. Salt is also produced and there are many dairies.

The main crops are bajra, jawar, oilseeds, rice, cotton and wheat.

ASSOCIATIONS

SAURASHTRA CHAMBER OF COMMERCE
Mahatma Gandhi Road, Bhavnagar.

President : Prabhudas Ramji Mehta ; **Vice-President :** Tribhovandas Durlabhi Parekh ; **Hon. Secretary :** Gulabrai Chhaganlal Gandhi.

COTTON MILLS

KRISHNA KUMAR MILLS CO., LTD., Spindles 8,496 ; **Directors-in-Charge :** Babulal Chunilal and Dineshchandra Chimanlal. Office on Mill premises. Mills at Mahua, Gohilwad District.
MAHALAXMI MILLS LTD. (144 automatic looms under erection), Spindles 22,504, Looms 480 ; **Agents :** Hargovindas Jivandas & Sons Ltd. Office on Mill premises, Mills near Chavdi Gate, Bhavnagar.

NEW JEHANGIR VAKIL MILLS CO., LTD. Spindles 32,412, Looms 714 ; **Mangaldas Jaysinghbhai Sons Private Ltd.** Office on Mill premises. Mills at Nilambag Road, Bhavnagar.

HALAR DISTRICT (Jamnagar District)

Area : 3,411 sq. miles ; **Population :** 574,472.

Headquarters : Jamnagar.

Talukas : Jamnagar ; Dhrol ; Kalavad ; Khamballa ; Jamjodhpur ; Bhanvad ; Jodia ; Kalyanpur ; Lalpur.

After the reorganization of Amreli, the District would gain Dwarka and Okha.

There are seven towns and 656 villages in the District.

People live mainly on agriculture. Including both cultivated and waste land the District has an area of 21,97,674 acres. The average rainfall is 20" to 22". Potato is cultivated on a large scale in the district.

The main small industries are the manufacture of agricultural implements, brass and copper vessels, the making of baskets, the manufacture of tiles, lime, oil crushing, handlooms, salt, the keeping of poultry.

Sikka, Bedi and Rosy are the three ports of the district. Sikka is known for its cement industry.

Jamnagar is well-known for its Bandhanis. One woollen and two textile mills are also located here.

ASSOCIATIONS

NAWANAGAR CHAMBER OF COMMERCE
Chamber Hall, Grain Market, Jamnagar.

President : C. N. P. Bhadralawa ; **Vice-President :** K. D. Rayather ; **Hon. Secretaries :** Nanalal P. Shah ; S. Gokaldas.

POST GRADUATE TRAINING CENTRE IN AYURVEDA
Dhanvantary Mandir, Bedi Road, Jamnagar.

Principal : B. V. Gokhale.

WOOL MERCHANTS' ASSOCIATION
Jamnagar.

President : Kantilal P. Shah ; **Hon. Secretary :** Laxmichand R. Sanghvi.

SHREE DIGVIJAYSINHJI SPG. & WVG. MILLS LTD. Spindles 21,172, Looms 364 ; **Mg. Agents :** Chaitanyakumar Mangaldas & Co. Office on Mill premises. Mills at Bedeshwar, Jamnagar.

KAIRA DISTRICT

Headquarters : Kaira (Revenue), Nadiad (Judicial).

Talukas and Mahals : Matar, Mehmedabad, Nadiad, Kapadvanj, Anand, Borsad, Thasra, Balasinor, Cambay, Petlad.

Kaira District lies between North Latitude 22°14' and 23°7' and East Longitude 72°30' and 73°23'. It is bounded on the north by the Ahmedabad and Sabarkantha Districts, on the south by the Baroda District, on the east by the Mahi River and Panch Mahals District, on the west by the Ahmedabad District and the Bay of Cambay. The former princely States of Cambay, Balasinor, Ghodasar and part of Baroda have merged in this District so that its limits now extend upto the Panch Mahals and the Bay of Cambay. The population of the District according to the 1951 census is 1,612,426 ; area, 2,564 square miles. The language spoken is Gujarati.

Nadiad is the largest town in the District and the seat of the District and Sessions Judges' Courts, the District Local Board, Sales Tax and Income-Tax Departments. The revenue headquarters, however, is Kaira, where also the head post office and the District and Civil hospital and police lines are located. There is a network of State bus services in the District.

Petlad is another industrial town. Cambay is the only port in the District.

Tobacco which is suitable for the manufacture of cigarettes is grown in Kaira District while at Sevalla in the Thasra Taluka the Associated Cement Co., Ltd. has a cement factory.

The Government of India have opened a tobacco research institute at Anand.

Nadiad is also the headquarters of the State Transport for Ahmedabad, Kaira and Panch Mahals.

Drilling is in progress at Cambay where a team of 25 Russians are working with 150 men of the Oil and Natural Gas Commission establishment. At Lunj village, six miles from Cambay, a Russian deep drilling rig was installed and drilling commenced on July 26, 1958. By October 1958, the tests confirmed the presence of oil and gas.

SARDAR VALLABHBHAI VIDYAPEETH
Vallabh Vidyasagar, via Anand.

The Sardar Vallabhbhai Vidyapeeth has been established under Bombay Act No. XL of 1955 as a teaching and affiliating University in a rural setting with the object of accelerating the process of regeneration of villages by the application of modern arts, sciences and technology to rural requirements. It provides courses in five faculties namely Arts, Science, Commerce, Engineering including Technology, and Agriculture. The Vidyapeeth prepares students for the following degrees, B.A., B.Sc., B.E., B.Sc. (Agril.), M.A., M.Sc., M.Sc. (Agril.), M.Com., B.Com., M.E., and Ph.D.

The constituent Colleges with the courses of studies and number of students in each College within brackets :

Vithalbhai Patel Mahavidyalaya, Vallabh Vidyasagar via Anand (Arts and Science ; 1,853).

Birla Vishwakarma Mahavidyalaya, Vallabh Vidyanagar via Anand (Engineering College; 876 including Diploma).

Bhikhabhai Jivabhai Vanijya Mahavidyalaya, Vallabh Vidyanagar via Anand (Commerce; 595).

Bansilal Amritlal College of Agriculture, Anand (Agriculture; 300).
Chancellor, Sri Prakasa, B.A., LL.B. (Cantab.), Bar-at-Law, Governor of Bombay.

Vice-Chancellor, Babubhai J. Patel, B.A., LL.B.

Registrar, K. J. Majumdar, M.A., B.T.

Members of the Syndicate: Vice-Chancellor, Babubhai J. Patel, B.A., LL.B.; Director of Education, Bombay State, Poona or his nominee; Dr. A. G. Pawar, M.A., Ph.D., Director of Education, Bombay State, Poona or N. R. Trivedi, Dy. Director of Education, Bombay State, Poona; Principals of Colleges at Vallabh Vidyanagar; Dr. Madhavilal Sukhlal Shah, M.Sc., Ph.D. (Lond.), F.O.S. (Lond.), F.I.C.S. (Cal.), F.I.A.S. (Bang.), Principal, Vithalabhai Patel Mahavidyalaya; G. S. Desai, B.E. (Civil), Principal, Birla Vishwakarma Mahavidyalaya; Ramdas K. Amin, M.A., M.Sc. (Lond.), Hon. Principal, Bhikhabhai Jivabhai Vanijya Mahavidyalaya; Dr. M. D. Patel, M.Sc. (Cornell), Ph.D. (Wisc.), Principal, Bansilal Amritlal College of Agriculture, Anand; H. M. Desai, B.A., Hon. Secretary, Charotar Gramoddhar Sahakari Mandal Ltd., Vallabh Vidyanagar; S. B. Junnarkar, B.A. (Bom.), B.Sc. (Eng. Lond.); Shrimati Lilavati Munshi, Bhavan, Chowpatty, Bombay; Utsav Parikh, M.A., LL.B., Nadiad; Manubhai Bhikhabhai Patel, Ahmedabad.

Deans of Faculties: Arts: T. G. Deokule, M.A.; Science: Dr. R. N. Mankad, B.Sc., Ph.D.; Technology including Engineering: R. H. Chokhavatia, B.E. (Civil), A.M.E.S.T.R.U.E.; Commerce: Prof. L. V. Gogate, B.Sc. (N. Carolina, U.S.A.); Agriculture: Dr. R. M. Patel, B.Sc. (Agri.), M.Sc., Ph.D. (Wisc. U.S.A.).

BUDGET ESTIMATES FOR 1958-59.

	Recurring.	Non-recurring.
	Rs.	Rs.
Total income	4,24,805	22,09,300
Total expenses	7,61,663	22,09,300
Bombay Government Grants ..	3,36,858	8,62,630
University Grants Commission Grant if any	—	9,46,670
Loan from the Ministry of Education, Government of India	—	4,00,000

BIRLA VISHVAKARMA MAHAVIDYALAYA (ENGINEERING COLLEGE)

P.O. Vallabh Vidyanagar, Via (W. Rly.).

Principal: G. S. Desai, B.E., M.I.E., M.I.S. (India).

CHAROTAR EDUCATION SOCIETY, ANAND

The institutions conducted by the Society, viz. Dadabhai Naoroji High School, Kasturba Kanya Vidyalaya, Shishurhar, Ambalal Balgriha Shala (a primary school with a residency) and Motilal Amin Primary Teachers Training College stand on their own premises. The society runs 236 reading rooms.

Secretary—Raojibhai C. Patel, B.A. (G.V.).

GUJARAT ITIHAS PARISHAD

Vallabh Vidyanagar, Dist. Kaira.

Objects:—To promote the study of the history of Gujarat, to encourage research and to co-ordinate the work done by scholars in the field of Gujarat history.

President: Bhailabhai D. Patel; Chairman: Prof. Nanubhai K. Desai.

INSTITUTE OF AGRICULTURE, ANIMAL HUSBANDRY & DAIRYING

Anand.

Chairman: K. M. Munshi, B.A., LL.B.; Director: M. D. Patel, M.Sc., Ph.D. (Wisconsin); Extension Trg. Officer: Dr. R. M. Patel, M.Sc., Ph.D. (Wisconsin).

THE KAIRA DISTRICT CO-OPERATIVE MILK PRODUCERS' UNION LTD.

Anand (W. Rly.).

The Union daily collects 2,50,000 lbs. of milk in winter and 1,00,000 lbs. of milk in summer from its various affiliated village societies. Out of this, 80,000 lbs. milk is daily sent to the Aarey Milk Colony, Bombay and after meeting local requirements, the remaining quantity of milk is converted into Amul Butter, Amul Ghee, Amul Sweetened Condensed Milk, Amul Milk Powder, casein etc.

The Union has received help from the U. N. Children's Fund, Government of New Zealand under the Colombo Plan, the Government of India and the Government of Bombay.

Total turnover of the union in 1958-59 was Rs. 2,10,00,000.

Chairman: T. K. Patel; General Manager: V. Kurien; Asst. Gen. Manager: H. M. Dalaya; Chief Engineer: V. H. Shah.

KAIRA DISTRICT TOBACCO MERCHANTS' ASSOCIATION

Station Road, Nadiad.

President: Gokalbhai Somabhai Patel; Vice-President: C. F. Patel; Hon. Secretary: G. M. Vohra.

KAIRA STREE MANDAL

Near Mulji Bhuvan, Kaira.

President: Smt. Lilavati Shah; Vice-President: Smt. Lilavati Dalal.

NADIAD KALA MANDIR

Station Road, Nadiad.

President: Pandya Devdas Someshver; Secretary and Treasurer: Vyas Govindram Mohanlal; Joint Secretary: Joshi Madhusudan Mohanlal.

NADIAD TOBACCO MERCHANTS' ASSOCIATION

(Incorporated under Indian Companies Act)

Sakoon Road, Nadiad Dist., Kaira.

President: Somabhai Haribhai Patel; Hon. Secretary: Ishverbhai B. Patel.

PETLAD COLLEGE

Petlad

The College is affiliated to the Gujarat University for courses leading to the B.A. and B.Sc. examinations.

Principal:—Dr. S. V. Shah, B.Sc., Ph.D.

OTHER INSTITUTIONS

American Methodist Mission Hospital, Nadiad.

Bank of Baroda Ltd., Nadiad.

Central Bank of India Ltd., Nadiad.

Dahl Laxmi Library, Nadiad.

Dena Bank Ltd., Nadiad.

Dr. Jayant Shah Hospital, Nadiad.

Gokaldas Bapu Library, Nadiad.

Government Agriculture Institute, Anand.

Government Tobacco Research Institution, Anand.

Hospital of Dr. Jayant Shah, Nadiad.

The J. & J. College of Science and C.B. Arts Institute, Nadiad.

Kaira Dist. Cooperative Bank, Nadiad.

Kaira Dist. Central Cooperative Board, Nadiad.

The Kaira District Co-operative Milk Union Ltd., Anand.

Kaira Dist. Land Mortgage Bank Ltd., Nadiad.

The Maha Gujarat Ayurvedic Hospital, Nadiad.

The Polson Model Dairy, Anand.

Punjab National Bank Ltd., Nadiad.

Santram Mandir, Nadiad.

The Sevalia Cement Manufacturing Factory, Sevalia. Started by the Associated Cement Cos. Ltd.

The Shankerbhai Jorabhai Mahagujarat Ayurvedic College, Nadiad.

State Bank of India, Nadiad.

The Turkey Red Dye Works Ltd., Petlad.

The Vallabh Vidyanagar, Anand.

SPINNING & WEAVING MILLS

KESHAV MILLS CO. LTD., Spindles 24,656, Looms 400; Agents: Chandulal Keshavlal & Co.; Office on Mill premises. Mills at Petlad, via Anand.

NEW SHORROCK SPINNING AND MANUFACTURING CO., LTD. (formerly Nadiad Swadeshi Spinning, Weaving and Manufacturing Co. Ltd.), Spindles 50,428, Looms 907, Managing Agents: Hafatal Chandulal & Co., Ltd., Aarva Road, Railwaypura Post, Ahmedabad. Mills at Kapadwanj Road, Nadiad, Dist. Kaira.

PETLAD BULAKHIDAS MILLS CO., LTD., Spindles 18,844; Managing Agents: Motilal Kashandas & Co., Opp. Station, Petlad. Mills opp. Station, Petlad, via Anand.

RAJRATNA NARANBHAI MILLS CO., LTD, Spindles 25,552, Looms 412; Agents: Ramanlal Keshavlal & Co.; Office on Mill premises. Mills at Petlad.

SHREE SHUBHLAXMI MILLS LTD. (formerly Shree Vijayalaxmi Cotton Mills), Spindles 20,952, Looms 340; Mg. Agents: Shree Govind Cotton Co. Private Ltd.; Office on Mill premises. Mills at Station Road, Cambay (Dist. Kaira).

TRADES & PROFESSIONS

Bhadrakumar Jyotish Karyalaya, Jawahar Road, Siddharth Mahadev Building, Cambay 1.

Chaturlal Chhotalal Shah, Juni Mandel, Kda Kotdi, Cambay.

Chandulal M. Desai & Co., P. O. Ode, Kaira.

Chhotabhai Jethabhai Patel & Co., Nadiad, Kaira District.

D. DOSHI & CO., Casein Manufacturers, Wholesalers & Dealers, Anand, District Kaira; Grams: "DOSHICO."—Anand.

Dharamchand Madhavji, Manufacturers of Cream, Casein, Butter & Ghee, Kakarkhad, Nadiad (Kaira Dist.).

Doshi Brothers, Manufacturers and Suppliers of Casein, Butter, etc. Anand, Dist. Kaira. Estd.: 1924; Grams: "PARCREAM."

DOSHI & SONS, Importers, Manufacturers and Dealers in Dairy Appliances and Milk and Milk Products, Anand, Dist. Kaira; Grams: "DOSEHONS"; Phone: 84.

Thakurji Maharaj Co-operative Society, Bankers and Moneylenders, Municipal Office, Nadiad, Kaira.

Western Creameries, Nadiad, Dist. Kaira; Manufacturers of Cream, Casein, Butter & Ghee.

KOLABA DISTRICT

Headquarters : Alibag.

Talukas and Mahals : Alibag, Pen, Panvel, Karjat, Roha, Mangaon, Mahad, Khalapur, Uran, Folsadpur, Murud, Shrivardhan, Mhasla and Sudhagad.

Kolaba District in the Konkan area of Bombay State lies between North Latitude 17°52' and 19°3' and East Longitude 73°7' and 75°45'. On the north it is bounded by Thana District; on the east by the Sahyadri Hills and Poona and Satara North Districts; on the south by Ratnagiri; and on the west by the Arabian Sea.

The total area of the District is 2,712 sq. miles, the population (based on 1951 census) 909,083.

Kolaba is a rugged belt of country cut across by numerous creeks from 15 to 30 miles broad stretching from the south of Thana and Bombay Harbour to the foot of the Mahabaleshwar hills, 75 miles south-east.

Notable places in the District are Raigarh near Mahad, once the capital of the great Shivaji and Kanakeshwara near Alibag, which is fast growing into a holiday resort as it is a hill 1,100 feet above sea-level and gives a complete view of Bombay. Matheran is another well-known hill station. Elephanta near Bombay is also in this District. Alibag has a magnetic observatory which is devoted to research in magnetic and electric currents which circulate in the interior of the earth.

The historical sea-fort Kolaba, at Alibag, which was the naval capital of Shivaji, has recently been taken over by the Archaeological Department of the Government of India. The Hingulja hill near Revedanda, about nine miles from Alibag, is growing into a holiday resort.

AGRICULTURE, POWER

On the flat lands of the District rice is grown, and the sea-front is fringed by a belt of coconut and arecanut palms. There is large-scale plantation of mango grafts and the produce is exported to Bombay. Lorry loads of melons from Panvel are also sent to Bombay. The teak forests are very valuable and there is a considerable fishing industry. Salt is also produced in large quantities in Pen, Panvel talukas and Uran petas. Nachni, Vari, Udid and Val are varieties of crops which agriculturists produce at their second crop. Tonilies are produced in large quantities and are taken to Bombay.

The District has three Power Houses : The Tata Power Co.'s Power House at Bhira (Patuna), the Tata Hydro-Electric Power Supply Co.'s at Khopoli and the Andhra Valley Power Supply Co.'s at Bhivpuri.

The chief articles of export are rice, salt, fire-wood, grass, timber, vegetables, fruit and dried fish. The imports consist of teak, grain,

piecegoods, oil, potatoes and sugar. At Khopoli a fish centre has been instituted where various kinds of fish are grown.

Uran and Pen are big salt-producing centres. Panvel contains a large ayurvedic pharmacy, the Shri Dhootapapeeshwar Panvel Ltd.; Mora in Uran Mahal has a big tile factory which manufactures tiles worth two lakhs a year.

MATHERAN (HILL STATION)

Matheran is a hill station and sanitarium, about three hours' journey from Bombay and Poona. Visitors are conveyed up the hill from Neral (Central Rly.) by the Matheran Steam Tramway and Rail Motors.* The town is about 2,500 feet above sea-level, and is a favourite hot weather resort. The maximum and minimum temperatures range between 65 and 80 ordinarily and the average rainfall is 300 inches. The place has an agreeable climate.

Among the amenities of Matheran are several good hotels, a well laid out public park and garden, bandstand, two children's playgrounds, electric and telephone services, and several cool and shady picnic places. During the season the band plays almost daily. The hill is a favourite place for honeymoons. There are the cosmopolitan Matheran Club and the Parsi Gymkhana in Matheran, with tennis courts. There are also sanitariums for Parsis, Hindus and Ismail Khojas available for convalescents.

The hill offers excellent opportunities for shikar and a good shot is certain to carry his trophy of spotted skin, even within a short stay.

TRADES & PROFESSIONS

Brightlands Hotel, Matheran.

Bombay View Hotel, vegetarian and non vegetarian food, Matheran.

LORD'S CENTRAL HOTEL MATHERAN

Commanding Best-view • Excellent Cuisine • All Rooms
attached with Bathrooms • All facilities including
24 hours running Water and Flush W. Cs.

Proprietors' own Supervision

Phone No. 28

Rugby Hotel (Estd. 1881), Matheran.

KOLHAPUR DISTRICT

Headquarters : Kolhapur.

Talukas and Mahals : Karwir, Panhala, Shahuwadi, Radhanagari, Bhudargad, Hatkanangle, Gadhingla, Kagal, Shirol, Bavada, Ajara, Chandgad.

The old Kolhapur State in the Deccan was integrated completely with Bombay State on August 1, 1949, and was transformed into a District as in the case of some of the other States merged into Bombay. Kolhapur District as it is now called lies between 17° 10' 45' and 18° 50' 20' North Latitude; and 74° 44' 11' and 75° 45' 16' East Longitude. The District is bounded on the north by the river Warana, on the north-east by the river Krishna, on the east and south by the District of Belgaum, and on the west by the Sahyadri Mountains, which divide it from the Ratnagiri District on the south-west and the west. The undulating country, in which the District is situated, is about 2,000 feet above sea-level in proximity to the eastern slope of the Sahyadri which renders the greater part of the District free from famine. The six large rivers of the District, namely, the Krishna, the Panchaganga, the Warna, the Dudhaganga, the Vedganga and Hiranyakeshi, with their several tributaries flow through and drain the District, facilitating extensive irrigation of lands in several parts of the District. The hills are the main feature of the District. They include the main range of the Sahyadris running north to south for about 100 miles and form the western boundary of the District. They contain some of the finest and most abundant supplies of bauxite in the world situated at places, where an unlimited and very profitable exploitation with the aid of cheap hydro-electric power is a practical proposition.

* Part of Central Railway.

The total area of the District is 3,188 square miles and the population according to 1951 census is 1,308,080. The language spoken is mostly Marathi, though Kannada is also spoken in a few parts. Kolhapur city, the headquarters, is a great trading centre for jaggery.

The chief agricultural products are jawar, rice, cotton, nagli, bajra, wheat, tobacco, sugarcane and ground-nut.

Besides 3 cotton mills, there are ginning and pressing factories. There are also ginning and powdering mills, groundnut crushing and oil mills, a sugar mill, cinema-film producing companies and soap factories and repair workshops. In one of these workshops, motor gas plants are manufactured.

GAYAN SAMAJ & DEVAL CLUB

Khasbag, Kolhapur.

President : M. B. Lohia ; *Vice-President :* Rao Saheb V. G. Chavan
Hon. Secretary : Sangeet Kala Pravin N. H. Purank, B.Sc., LL.B.

PRINCE SHIVAJI EDUCATION SOCIETY

Sykes Extension, Kolhapur.

President : V. T. Patil ; *Secretary :* G. G. Jadhav ; *Jt. Secretary :* S. R. Jadhav.

RAJARAM COLLEGE

Kolhapur.

Principal: Vacant.

SHREE MAHARANI TARABAI TEACHERS' COLLEGE

Shahupuri, Kolhapur.

Principal and Prof. of Education: Dr. S. V. Kelkar, B.Sc., Ph.D.

SHAHAJI LAW COLLEGE

Kolhapur.

The College was started in June 1933 and is under the management of a private society called "The Council of Legal Education, Kolhapur". It is affiliated to the Poona University for the LL.B. Degree course.

Principal.—S. G. Dabholkar, B.A., LL.B., Advocate (O.S.).

† Figures taken from 1957 statement.

‡ Proprietary concern.

SHRI MOUNI VIDYAPEETH

Gargoti, Kolhapur.

The Vidyapeeth was founded on April 4, 1952. It is a research and experimental centre in the field of rural education. It has a research wing affiliated to the Poona University, a teaching wing and an extension wing. It conducts the following institutions namely the Govindrao Korgaonkar Institution of Rural Education, a Social Education Training Centre and also a Rural Institute.

Founder-President: V. T. Patil, B.A., LL.B., M.L.A.; Kulapati & Acharya S. J. Bhagwat; Director: B. M. Save, M.A., M.Ed.; Secretary: J. P. Naik, B.A.

COTTON MILLS

††SHRINARAYAN WEAVING MILLS, Looms 92; Owners: Sangle Bros., Office on Mill premises. Mills at Ichalkaranji, S.M.C.

‡ SHRI SHAHU CHHATRAPATI MILLS, Spindles 16,106, Looms 820. Agents: James Finlay & Co., Ltd., Chartered Bank Building, Fort, Bombay. Mills at Shahupuri, Kolhapur.

††YENKATESH RANG TANTU MILLS, Looms 56; Owners: Messrs. Y. V. Datar, M. V. Datar, Office on Mill premises. Mills at Ichalkaranji, Kolhapur District.

KUTCH DISTRICT

Headquarters: Bhuj.

Talukas or Mahals: Bhuj, Mandvi, Mundra, Anjar, Bahpar, Bhachau, Nakhatrana, Lakhpat, Abdasa, Khavda and Khadir.

Kutch was merged into Bombay State after the reorganization of States and it now forms a separate district known as Kutch District.

Number of villages: 988. Number of towns: 10.

The District has a land area of 16,724 sq. miles including approx. 8,000 sq. miles of Rann. The population is 567,606 (1951 census).

The District is bounded on the north and the north-west by Sind (Pakistan); on the east by Banaskantha District, Mehsana District and the northern part of Zalawad District; on the south by Madhya Saurashtra District, Zalawad District and the Gulf of Kutch; and on the west and south-west by the Arabian Sea.

Agriculture: There is a fair proportion of good cultivable land in Kutch, the principal crops being bajra, jawar, wheat, barley, cotton and pulses. The cultivation of ground-nuts is also increasing day by day.

Kutch is a semi-arid region. Rainfall is very irregular and scanty. Sub-soil waters in 70 per cent of the area are saline. Its topographic isolation by Ranns and sea, and the central location of hill ranges with streams running north and south therefrom, limit the sizes of its rivers.

The development of rich mineral resources of the region and the very sustenance to its population 80 per cent of which is thus dependant on agriculture alone is subject to the construction of a large number of medium and minor surface storage works for irrigation and other purposes.

Prior to the commencement of the First Five Year Plan there were 4 medium and 29 minor irrigation projects of which all the medium and 23 minor schemes were executed. These banded 450 sq. miles of catchment had an irrigation potential of 22,000 acres of one foot delta crops at average storage and 46,000 acres at full capacity in good years.

During the First Five-Year Plan 4 medium and 31 minor irrigation projects were taken up. These banded another 550 sq. miles to provide irrigation facilities to 42,000 acres of one foot delta crops on average filling and 85,000 acres at full capacity in good years. All these projects have been completed and the distribution system and irrigation are developing steadily.

The additional production of food crops by schemes executed upto the end of First Five Year Plan will be 21,000 tons valued at Rs. 63.00 lakhs in average year and 40,000 tons valued at Rs. 120.00 lakhs in good years.

The Second Five-Year Plan of the district reflects the emphasis on irrigation projects by a provision of Rs. 222.1 lakhs constituting nearly 30 per cent of the total plan outlay in the district. It provides for completion of the five medium and 22 minor irrigation schemes of the First Five-Year Plan as spillover works at a cost of Rs. 88.9 lakhs and new construction of 3 medium and 27 minor irrigation schemes at a cost of Rs. 134.00 lakhs. This will harness an additional catchment of 700 sq. miles providing average irrigation potential of over 40,000 acres of one foot delta crops. Five of these works are nearing completion.

When the Second Plan Schemes are completed they will harness 33 per cent of the available drainage area in the district.

Roads: Before the beginning of the First Five-Year Plan, the total road mileage in Kutch was 266 of the Water Bound Macadam Type. In the First Five-Year Plan, a total amount of Rs. 40.60 lakhs was spent on roads and the road mileage was as follows: 42 miles black-topped, 211 miles water bound macadam, 350 miles murrum surfaced.

The present total road mileage in Kutch is 892 miles comprising 71 miles black-topped, 211 miles water bound macadam, 539 miles murrum surfaced and 71 earthen.

The above mileage does not include the roads constructed by and in charge of the District Local Board, Community Project Development Schemes, National Extension Services, Kandla Port Organisation etc. which may increase the total mileage by about 100 miles.

At the end of the Second Five-Year-Plan the total road mileage will be 1,115 miles comprising 82 miles black-topped, 193 miles water bound macadam and 833 miles murrum surfaced.

During the Second Five-Year Plan, a sum of Rs. 78.28 lakhs is proposed to be spent on the roads other than National Highways in Kutch.

As regards the Kandla Ahmedabad National Highway, the length passing through Kutch will be 62 miles of which a length of 18 miles and 3 furlongs from Kandla side is ready with bridges. In all an amount of Rs. 95.62 lakhs is to be

spent during the Second Five-Year Plan on the Kandla Ahmedabad National Highway passing through Kutch.

The District is rich in gypsum, clays and limestone, and has large deposits of lignite, alum, marble and ochres.

The main occupations of the people apart from agriculture and cattle rearing are embroidery and silver work, which are well-known for their beauty.

Kutchis are an enterprising and sea-faring people. Over six lakhs of Kutchis are distributed in principal cities of India and over 10,000 are abroad.

The main items of export are salt, cotton, wool, castor seeds, bones, hides, skins and fish. The main items of import are foodgrains, oil seeds, cloth, condiments, etc.

The land revenue system has been changed from crop sharing to ad hoc Vighoti, thus providing a rational basis for Government revenue. The Jagirdari system in Kutch Dist. has been abolished from 30-12-58.

Education: Efforts are being made for the expansion of education in the District. There are 14 High Schools, and 542 primary schools of which 43 are basic schools, and about 100 unrecognised schools. Besides, there are about 250 literary centres (Samanya Gyan Shalas) in very small villages run by the District Local Board. Three primary schools have been upgraded by opening a high school class in each in 1959 in the rural area. There are also an Art School, a Basic Training College for primary teachers, a school for the blind and an agriculture school. There are about 200 adult education centres run by different agencies, viz. Education Department, National Service Extension Blocks, Dist. Local Boards and Social Welfare Department. Alfred High School at Bhuj is being progressively converted to a Multipurpose High School. Commerce and technical sections have been started in 1959. Also Home Science course is introduced at the Indrabai Girls' High School, Bhuj. There is a degree college both for Science and Arts. A post graduate class in Arts was expected to be started in June 1959. There are nine nursery institutions.

There are 14 grants-in-aid libraries in the district. There is one senior division N.C.C. troop along with six junior division troops. There is also one junior division girls' troop.

Health: Free medical relief is available in Kutch. There are 11 hospitals, 22 dispensaries, 6 maternity homes, one T.B. Sanatorium, one T.B. Clinic, one mental hospital and one eye hospital. There are 5 mobile dispensaries which are under the supervision of the Kutch Medical Department and 1 mobile dispensary under the supervision of the Community Project Department at Rapar. All are run by the Government. There are 4 subsidised medical practitioners in rural areas. A T.B. Clinic is run by a private Association at Asaka near Mandvi. There are 22 Hospitals and dispensaries under the supervision of the District Local Board. There are also 4 private hospitals, 16 dispensaries, 2 Railway dispensaries and 2 Port dispensaries. A Public Health Department is in progress. A provision of Rs. 5 lakhs has been accepted for public health activities in the District for the year 1958-59. The scheme consists of anti-malaria activities, public health administration including sanitary staff, milk centres, local vaccination, publicity, B.C.G., School Health service, public health laboratory, primary health centres, provision for public health staff and

centres taken over from C.D. Block, dais training, training of sanitary inspectors and health visitors, family planning.

Transport: 348 villages and towns are served by Kutch State Road Transport Corporation on 62 different routes covering a route mileage of 2,468 miles. The chief means of communication is by sea. Goods are carried by steamers, country craft and rail, the chief import and export centres being Mandvi, Gandhidham and Kandla. Kandla is a major port. Minor ports are Mandvi, Mundra, Jakham and Koteswar. Kutch is linked with the hinterland of North India and Rajasthan. A new township of Gandhidham has been established near Kandla to resettle the displaced persons from West Pakistan. Gandhidham was expected to have its own municipality in March 1959.

Banking: There are branches of the following banks in the District: State Bank of India at Mandvi, Bhuj and Gandhidham, Bank of India Ltd. at Bhuj and Gandhidham, Punjab National Bank Ltd. at Mandvi, Central Bank of India Ltd. at Anjar, Gandhidham Co-operative Bank

at Gandhidham, Saurashtra State Co-operative Bank Ltd. at Bhuj, Naliya, Bhachau and Bahpar, Saurashtra Land Mortgage Co-operative Bank Ltd. at Bhuj.

Associations

THE CHAMBER OF COMMERCE
BBZ-N-41, Gandhidham.

Kandla Port

Hon. Secretary: T. N. R. Murtie.

ANJAR MERCHANTS ASSOCIATION
Anjar (Kutch).

President: Purnhottam Shamjee Varu; *Secretaries:* Dungarshi Purnhottam Thakkar; Odhavji Khimjee Thakkar.

COTTON MILLS

† **SHAH SPINNING AND WEAVING MILLS**
(formerly Anjar Spinning and Weaving Co. Ltd.), Spindles 5,312; *Proprietor:* F. V. Shah. Office on Mill premises; Mills at Anjar (Kutch).

† Proprietary concern.

MADHYA SAURASHTRA DISTRICT—(Rajkot District)

Area: 4,660 sq. miles; **Population:** 1,045,675.

Headquarters: Rajkot.

Talukas:

Rajkot; Jasdan; Babra; Morvi; Vankaner; Gondal; Kankavav-Vadia; Jetpur; Dhoraji; Jam-Kandorna; Kotda-Sangani; Lodhika; Maliya; Paddhari.

Madhya Saurashtra District has four subdivisions, nine talukas, 5 Mahals and one Peta Mahal.

The area of the land under cultivation is about 21,38,678 acres. The main industries of Madhya Saurashtra consist of textiles, hosiery, hand-loom, the production of hydrogenated oils, potteries, salt-making, engineering, etc.

SOCIETIES

CHURCH OF THE IMMACULATE CONCEPTION, RAJKOT

Nature of Body: Religious. *Vicar Forane of Saurashtra and Parish Priest of Rajkot, Rev. Father E. Gades, S.J.*

† Figures taken from 1957 statement.

MORVI CHAMBER OF COMMERCE & INDUSTRIES

Morvi.

Secretary: C. M. Sanghvi.

SAURASHTRA KALA MANDAL
Rajkot.

President, Ravishanker M. Raval.

Chairman: Dr. R. K. Yajnik.

Secretary: M. D. Trivedi.

SAURASHTRA SANGHET NATAK AKADEMI

Near Moti Tanki, Rajkot.

President: Yauvraj Saheb Udaybhansinhji of Porbandar; *Secretary:* Jaymall Parmar; *Principal:* D. N. Thakar.

SAURASHTRA SAHITYA SANGAM
Post Box 44, Rajkot.

President: Kavi Tribhuvanbhai Vyas; *Vice-President:* Harasukhbhai Sanghvi; *Secretary:* Narendra Dave.

WATSON MUSEUM

Jubilee Garden, Rajkot.

Curator: Raj Kumar, M.A., LL.B.

COTTON MILLS

RAJKOT SPG. & WVG. MILLS, PRIVATE LTD., Spindles 10,872, Looms 235; Managed by Board of Directors. Office on Mill premises. Mills at Karansinghji Cross Road, Rajkot.

† **SHREE RAMESH COTTON MILLS LTD.**, Spindles 15,716, Looms 324. Agents: Morvi Industries Ltd. Office on Mill premises. Mills at Morvi.

SHRI AMARSINHJI MILLS LTD., Spindles 12,624, Looms 300; Managing Director: Jayantilal Amratlal. Office on Mill premises. Mills at Wankaner (Saurashtra).

MEHSANA DISTRICT

Headquarters : Mehsana.

Talukas and Mahals : Patan, Chanasma, Sidhpur, Mehsana, Kheralu, Visnagar, Kalol, Vijapur, Kadi, Radhanpur, Sami, Harij, Santalpur. The area of the District is 4,125 sq. miles and the population 1,471,662.

COLLEGES

M. N. College, Visnagar (*Arts and Science*).

SOCIETIES

SHREE MAHARSHI DAYANAND SARASWATI KELAVANI MANDAL

Parikh D. D. Kanya Vidyalaya, Station Road, Visnagar (Dist. Mehsana).

Educational and cultural activities.

President : Rai Saheb Girdharlal Dayaram Mehta ; **Hon. Secretaries :** Harshadray M. Yagnik, Vishnuprasad G. Mehta ; **Hon. Treasurer :** Chokshi Somabhai Mangaldas.

ISABGOL MANUFACTURERS' ASSOCIATION

Bindu Sarovar Road, Sidhpur.

President : J. R. Rana, B.Com., LL.B. ; **Vice-President :** N. H. Raval ; **Jt. Hon. Secretaries :** G. Kishansingh, T. Lalubhai.

NORTH GUJARAT BIDI AND TOBACCO MERCHANTS' ASSOCIATION

Hinglajhar.

President, N. N. Patel ; **Secretary,** R. N. Patel.

PLACES OF PILGRIMAGE

Taranga Hill, Pansar, Sankeshwar, Kambol and Bhojai (*For Jains*) ; Bahucharaji and Sidhpur (*For Hindus*) ; Delmal (*For S. Boraes*) ; Unava (*For Muslims*).

‡ Proprietary concern.

MILLS

BHARAT VIJAYA MILLS, LTD. No. 1 (Formerly Kalol Kapadia Spg. & Wvg. Mills Co. Ltd.), Spindles 16,834, Looms 320 ; Directors-in-charge, Natvarlal Bhikabhai Patel and Bhupendra Bhikabhai Patel. Office on Mill premises. Mills at Kalol (North Gujarat).

BHARAT VIJAYA MILLS LTD. No. 2 (Formerly Chhotalal Mills Ltd.), Spindles 20,536, Looms 408, Directors-in-charge, Natvarlal Bhikabhai Patel and Bhupendra Bhikabhai Patel. Office on Mill premises. Mills at Station Road, Kalol.

MAHENDRA MILLS LTD., No. 1 Mill, Spindles 26,940 ; Agents : J. R. Patel & Sons Private Ltd., Mahendra Bhuvan, Navrangpura, Ahmedabad 9. Mills at Kalol (N. Gujarat).

MAHENDRA MILLS LTD., No. 2 Mill, Spindles 3,616 ; Agents : J. R. Patel & Sons Private Ltd., Mahendra Bhuvan, Navrangpura, Ahmedabad 9. Mills at Kalol, (N. Gujarat).

NAVJIVAN MILLS PRIVATE LTD. (Formerly Kalol Swadeshi Mills Co. Ltd.), Spindles 25,180, Looms 511 ; Agents, M.J. & Co. Private Ltd. Office on Mill premises. Mills at Kalol, North Gujarat.

‡ SHREE DURGA COTTON MILLS (Formerly New Chhotalal Mills, Ltd.), Spindles 20,452, Looms 417 ; Proprietors : Durgaprasad Private Ltd., Office on Mill premises. Mills at Kadi.

‡ SHREE SAYAJI JUBILEE COTTON AND JUTE MILLS CO. LTD., Spindles 18,964, Looms 320 ; Agents : Prahladi Sevakram & Co., Private Ltd., Office on Mill premises. Mills Near Railway Station, Sidhpur (R.M. Rly.).

SIDHPUR MILLS CO., LTD., Spindles 27,760, Looms 406 ; Agents : Maganlal Prabhudas and Co., Office on Mill premises. Mills at Bindu Sarovar Road, Sidhpur.

† Figures taken from 1957 statement.

NAGPUR DISTRICT

Headquarters : Nagpur.

Talukas : Nagpur, Ramtek, Katol, Saoner, Umrer.

Nagpur District lies between North Latitude 20° 35' and 21° 44' and East Longitude, 78° 15' and 79° 40'.

It is bounded on the north by Chhindwara District, on the east by Bhandara District, on the south and south-east by Chanda District and on the south-west by Wardha District. The area of the District is 3,834 sq. miles and the population 1,234,556. The language spoken is Marathi.

PHYSICAL FEATURES

The greater part of the Nagpur District is an undulating plain, but it is traversed by low hill ranges. The hills attain no great altitude, the highest peaks not exceeding 2,000 feet, but vary greatly in appearance, being in places extremely picturesque and clothed with forest, while elsewhere they are covered by loose stones and brushwood, or are wholly bare and arid. The Wardha and Wainganga rivers flow along part of the western and eastern borders respectively, and the drainage of the District is divided between them. The centre is drained by the Pench and Kanhan, which flowing south through the Satpura Hills, unite just above Kamptee where they are also joined by the Kolar. The richest part of the District is the western half of the Katol Tehsil. It possesses a soil profusely fertile and teems with the richest garden cultivation. From Pilkapur Hills in the Katol Tehsil the plains extend to the eastern border. Its surface is scarcely ever level, but it is closely cultivated, abounds in mango groves and trees of all sorts, and towards the east is studded with small tanks which form a feature of the landscape. The elevation of the plain country is from 900 to 1,000 feet above sea-level.

The forests are mainly situated in a large block on the Satpura Hills to the north-east, while isolated patches are dotted on the hills, extending along the south-western border. The forest growth varies

with the nature of the soil, teak on good well-drained slopes, salai on the steep hillsides and ridges, and satinwood on the sandy levels. In the open country mango, tamarind and bastard date-palms are common.

The annual rainfall averages about 45 inches, but less is received in the west than in the east of the District. Complete failure of the rain is rare, but its distribution is capricious especially towards the end of the monsoon when the fate of the harvest is in the balance.

COMMUNICATIONS, ECONOMY

Considering the advanced state of its development, the District is not very well supplied with railways, and there is scope for the construction of feeder lines to serve the more populous outlying tracts. The Central Railway line from Bombay terminates at Nagpur City. From here the South-Eastern Railway runs east to Calcutta. There are two other lines which go north-west and south-east respectively from Nagpur City. The most important trade routes are the roads leading north-west from Nagpur to Chhindwara and Katol, the eastern road to Bhandara and the north-eastern to Seoni. Then come the southern roads to Umrer and Chanda. There is heavy traffic along the road to Amravati. Nagpur also lies at the place where the north-south and east-west airways cross each other.

Cotton and jawar are the chief produce of the District which is also famous for its oranges. During the cold weather wagonloads of oranges are exported daily to Bombay and other parts of India.

The District is not badly off in the matter of mineral deposits. There are some manganese mines and limestone quarries in the District and coal-mines at Kamptee and Chanda.

There are five textile mills in Nagpur City, a number of oil mills, a pottery concern, glass works, saw mills, a rubber factory, a large fruit canning industry and a large number of handloom factories. Nagpur saris are in great demand in all parts of the country.

NAGPUR MUNICIPAL CORPORATION

Mayor : Rikhabchand Sharma.

Deputy Mayor : Vasant Ramji Dhawale.

Members

Bhalchandra Anand Rao Udhoji, B.A., LL.B. (Ward No. 1); Govind Gopal Bhamburkar, B.A., LL.B. (Ward No. 2); Gayanarayan Indranarayan Trivedi (Ward No. 3); Rammurty Shyamdayal Mishra (Ward No. 4); Narayan Tanbaji Murkute (Ward No. 5); Vithal Supaji Nagarare (Ward No. 6); Kisanlal Narayan Banode (Ward No. 7); Akant Piraji Matey (Ward No. 8); Rajkumar Rajaram, Laxman Rao Bhonsale (Ward No. 9); Vasant Ramji Dhawale (Ward No. 10); Onkar Vithal Rao Deshmukh, B.A., LL.B. (Ward No. 11); Balwant Rao Ganpatrao Dhole, B.A., LL.B. (Ward No. 12); Pandurang Tukaram Kadoo (Ward No. 13); Dr. Devidas Wasudeo Duragkar (Ward No. 14); Motiram Budhoo Panchibhai (Ward No. 15); Daulat Patel Chhotelal Yadav (Ward No. 16); Gayadin Ramdin Painter (Ward No. 17); Tulisram Raghoba Nakshane (Ward No. 18); Tukaram Rajaram Joshi (Ward No. 19); Harichandra Kisan Pawankar (Ward No. 20); Mahadeo Tanbaji Pinjarkar (Ward No. 21); Laxman Somaji Barbate (Ward No. 22); Govindrao Narayanji Ghavaghawe (Ward No. 23); Mahadeo Mango Kumbhare (Ward No. 24); Mahadeo Kondaji Patharabe (Ward No. 25); Dinanath Pralhad Dhapulkar (Ward No. 26); Dhondoo Dashrath Hedoo (Ward No. 27); Mohamad Yakub Haji Khan Mohammad (Ward No. 28); Shankarrao Baladas Nikhare (Ward No. 29); Wasudeo Saidu Dongre (Ward No. 30); Dewaji Waroo Bhagat (Ward No. 31); Ahamedkhan Lalkhan (Ward No. 32); Chhagandas Sakharani Ramteke (Ward No. 33); Rama Tukaram Rodage (Ward No. 34); Smt. K. D. Cassad (Ward No. 35); Dharamdas Palkuji Meshram (Ward No. 36); Balkrishna Rajanna Nilamwar (Ward No. 37); Pannalal Kanhayalal Deshmaj (Ward No. 38); Pandurang Mohanji Gayadhane (Ward No. 39); Sadanand Jumman Fulsele, B.A. (Ward No. 40); Mahadeo Nathoo Bhorkar (Ward No. 41); Khushal Morbaji Gudadhe, B.A. (Ward No. 42).

Elected by Textile Union Constituency : Bhayya Marotrao.

Elected by Non-Textile Union Constituency : Janardhan Mahadeo Mool.

Appointed (5) : J. P. Ghiml, B.A., F.R.M.S. (Nagpur University); Ramrao Narayanrao Balbudhe (Janapad-Sabha, Nagpur); N. R. Datta Gupta (Central Railway); J. B. Panthaki (Millowners' Association); Madanagopal Agrawal, B.A., LL.B., M.L.A. (Nagpur Improvement Trust).

Selected (6) : Bholasingh Vishwanath Nayak; Rikhabchand Kalyanmal Sharma; Gulabrao Balram Barai, M.A., LL.B.; Narayanrao Ganpatrao Naik; Appaji Domaji Punje; Balkrishna Narayan Saoli.

STANDING COMMITTEE

Chairman : Bholasingh V. Nayak; Members : Madan Gopal Agrawal, Appaji D. Punje, Ramrao N. Balbudhe, Gayanarayan Trivedi, Rajaramsingh Bhonsale, Onkar V. Deshmukh, Dr. Devidas W. Duragkar, Mahadeo T. Pinjarkar, Shankarrao B. Nikhare.

Principal Officers

Municipal Commissioner, D. J. Madan, I.A.S.
Dy. Municipal Commissioner : S. N. Chatterjee, B.Sc.

Municipal Secretary, G. Y. Chitnavis, B.Sc.
City Engineer, Vithal Singh, B.Sc. (Engg.).

Development Engineer, M. D. Dadabhai.
Health Officer, Dr. T. K. Kewaramani, M.B.B.S., D.P.H.

Chief Accounts and Finance Officer, M. V. Hattangli.

Executive Engineer (Water Works), S. S. Sathe.
P.A. to Chief Executive Officer, A. N. Joshi, B.A.C.
Income for the year 1957-58 Rs. 1,75,05,641
Expenditure " " Rs. 1,94,83,901

Nagpur University

Year of Foundation : 1923.

Chancellor, Sri Prakasa, Governor of Bombay.

Vice-Chancellor, Mr. Justice G. B. Badkar.

Treasurer, Dr. M. A. Moghe.

Registrar, Dr. M. S. Modak.

Deputy Registrar, V. Shankaran; Asstt. Registrars, M. R. Thakur, S. R. Gupte; Librarian, P. S. Phadke; Hon. Consulting Engineer, V. B. Paranjpe; Officer-in-Charge, Physical Edn., M. P. Majar; Medical Officer, Dr. P. U. Deshpande; Hostels Supdt., Dr. P. J. Khankhoje; Lady Warden, Sadaprasad Hostel, Smt. S. Didolkar.

Teaching, affiliating; University Colleges 3, University Teaching and Research departments 8, affiliated Colleges 25, Students—University Teaching departments: 380 (Men 360; Women 20); University Colleges: 801 (Men 714; Women 87); affiliated Colleges: 12,877 (Men 11,051; Women 1,826).

Budget Estimates 1957-58 :

Central Government Grants : Rs. 21,093.24 nP.

State Government Grants : Rs. 4,28,900.00 nP.

University Grants Commission : Rs. 2,26,784.52 nP.

Total income : Rs. 31,48,273.63 nP.

Total expenditure : Rs. 30,03,252.67 nP.

University Teaching Departments :

Biochemistry, Geology, Political Science, Public Administration and Local Self-Government, Research Department in Ayurveda, Ancient Indian History and Culture, Pharmacy and Library Science.

University Colleges :

Laxminarayan Institute of Technology, Nagpur.

University College of Law, Nagpur.

University Training College, Nagpur.

Affiliated :

College of Agriculture, Nagpur.

College of Science, Nagpur.

Dhanwate National College, Nagpur.

G. S. College of Commerce, Wardha.

G. S. College of Economics and Commerce, Nagpur.

G. S. College of Science and Arts, Khamsaon.

Government Diploma Training Institute for Men, Amravati.

Government Diploma Training Institute for Women, Amravati.

Government Polytechnic and Engineering College, Nagpur.

Hilop College, Nagpur.

Medical College, Nagpur.

Nagpur Mahavidyalaya, Nagpur.

Rajasthan Aryan College, Washim.

S. B. City College, Nagpur.

Shri Shivaaji College, Amravati.

Sitabal Arts College, Akola.

Vidarbha Mahavidyalaya, Amravati.

Lady Amritbhai Daga College for Women, Nagpur.

Government Polytechnic, Amravati.

Post-Graduate Basic Training College, Amravati.

College of Agriculture, Akola.

Amolakchand Mahavidyalaya, Yeotmal.

Government B.T. College, Akola.

St. Francis de Sale's College, Nagpur.

The Arts College, Buldana.

Associations and Institutions

ALL INDIA WOMEN'S CONFERENCE
(Nagpur Branch)

New Ramdas Peth, Nagpur.

President : Mrs. Manekwar; Hon. Secy. : Mrs. S. Rhanagay; Hon. Treasurer : Mrs. M. Abhyankar.

CENTRAL EMERGENCY TRAINING INSTITUTE Nagpur.

The Institute, first of its kind in India, trains both official and non-official nominees of the various State Governments and the Department of Government of India, in techniques of Emergency Relief Operations. It was started in April 1957 and is run by the Government of India under the Ministry of Home Affairs.

This Institute is an integral part of the Emergency Relief Organisation and trains the Administrative Personnel and Instructors whose services will in turn be utilised by the various State Governments and others for developing their own cadres of trained and technical personnel to combat the problems created by the various natural calamities.

The courses are of five weeks duration and in addition to the subjects of the Emergency Relief Planning, the subjects of Rescue, Elementary Fire-fighting, First Aid, Home Nursing, Public Health and Welfare are also taught in the Institute.

Commandant : Lt.-Col. G. C. S. Chopra.

CHATUR SANGENT MAHAVIDYALAYA Mahal, Nagpur 2.

President : V. V. Kalkar, B.A., LL.B.; Secretary : W. V. Deshpande, B.A.; Principal (Ex-Officio) : Amritrao Nistane, M.M.S. (Jun.).

THE CHRISTIAN MEDICAL ASSOCIATION OF INDIA

Office : Christian Council Lodge, Nagpur.

Seeks to be the means of mutual help among Christian Doctors in carrying on and securing greater efficiency in their work. This is carried on through biennial general conferences, annual conferences in the Hill Stations of Kodakanal, Landour and the Nilgiris, and in regional conferences held from time to time in various parts of the country and also through the Association's bimonthly magazine and through the visits and counselling of its two full-time Secretaries. It has assisted in the development of the Christian Medical Colleges at Vellore and Ludhiana, and through its Nurses Auxiliary has played a large part in the development of Nursing Education.

Its membership is open to Christian Doctors with registrable qualifications regardless of their field of service.

President : E. S. Chellappa, M.B.B.S., F.R.C.S.

Vice-President :—P. D. Sukhmandan, F.C.P.S.

Editor :—J. C. David, M.B., Ph.D.

Secretary-Treasurer :—E. W. Wilder, M.D., Christian Council Lodge, Nagpur 1.

Secretary of Preventive Medicine :—Dr. Claire P. Thomson, M.R.C.S., I.R.C.P., D.T.M. & H.

DIOCESE OF NAGPUR

Cathedral House, Nagpur.

Bishop of Nagpur : Rt. Revd. J. W. Sadiq.

Archdeacon of Nagpur : Rev. G. R. Wells.

FAMILY PLANNING ASSOCIATION OF INDIA

Kutumb Kalyan Sangh, Dhantoli, Nagpur.

President : Dr. K. L. Sonak; Secretary : Mrs. Indrabai Sonak; Organiser : Mrs. Indrabai Lokre.

JOURNALISM DEPARTMENT

(Hilop College).

Temple Road, Nagpur 1.

The Department offers One-year Diploma, One-year Certificate and selected subjects courses.

Head of the Department : K. E. Eapen.

KRIDA MANDAL
C/o. S. D. Dhanwate Nagar Vidyalaya, Mahal,
Nagpur 2.

President : K. T. Mangalmurti, I.C.S. (Retd.);
Working President : R. V. Kalikar; *Secy.* : S. W. Dhabe.

LAXMINARAYAN INSTITUTE OF TECHNOLOGY
Nagpur University, Amravati Road, Nagpur 1.

Director : Prof. Dr. P. S. Mene, B.Sc. (Hons.), Ph.D. (London), D.I.C., M.I. Chem. E., F.C.M.S.; *Professor in Applied Chemistry (Organic)* : Prof. Dr. T. N. Mehta, B.A., B.Sc., Ph.D. (London), D.I.C.; *Reader in Engineering and Workshop Superintendent* : V. V. Sardesai, B.E. (Mech.), B.E. (Elect.), A.M.I.E.

MAHAVIDARBHA CHAMBER OF COMMERCE & INDUSTRIES LTD.
Vohuman Lodge, Byramji Town, Nagpur 1.
President : M. C. Shah, B.A.; *Vice-President* : P. C. Mevawalla, B.A., C.A.I.I.B.; *Secretary* : J. B. Toddywalla, C.A.; *Asst. Secretary* : R. Ranganathan.

MENTAL HOSPITAL
Nagpur.
Medical Superintendent : Dr. I. K. Mujawar, M.B.B.S., B.M.S.(C.I.); *Deputy Superintendent* : Dr. H. L. Chandorkar, M.B.B.S., D.P.H.; *Nursing Superintendent* : Shrimati Lilabai Rajurkar.

MINERAL INDUSTRY ASSOCIATION
'Mineral House', Katol Road, Nagpur.
Chairman : J. B. Thaker; *Vice-Chairmen* : U. S. Agrawal, R. A. Trivedi; *Hon. Secretary* : T. R. Goenka.

MURE MEMORIAL HOSPITAL
Maharaj Bagh Road, Sitabuldi, Nagpur.
Acting Medical Superintendent : Dr. K. V. Waghmare; *Medical Officers* : Dr. E. M. Mure, Dr. C. Hackett; *Nursing Superintendents* : Miss Edith Harboure, Miss M. Sammon.

NAG-VIDARBHA CHAMBER OF COMMERCE
Surya Vilas, Temple Road, Civil Lines, Post Box No. 33, Nagpur.
President : Hanuman Prasad Nevatia.
Vice-President : D. C. Sutarla.
Junior Vice-President : Umashanker Saraf.
Hon. Secretary : R. N. Jha.

THE NAGPUR CHAMBER OF COMMERCE LTD.
Cotton Market, Nagpur 2.
President : Sohanlal Agrawal; *Vice-President* : Ratanlal Dhariwal; *Secretary* : Vasantlal Shah.

NAGPUR KHADI MANDAL
Mahal, Nagpur 2.
President : Gopalrao Pathak; *Secretary* : P. K. Mohani; *Treasurer* : D. V. Date.

NATIONAL ASSOCIATION OF PHYSICAL EDUCATION AND RECREATION, INDIA
Mahal, Nagpur 2.
President : Dr. K. S. Mhaskar, M.A., M.D., D.P.H.; *Working President* : K. T. Mangalmurti, I.C.S. (Retd.); *Gen. Secretary* : S. W. Dhabe, Advocate, Supreme Court.

NAGPUR NATYA MANDAL
C/o. Vidarbha Sahitya Sangha, North Ambazari Road, Nagpur.
President : Mrs. Saralabai Bhawe; *Secretary* : M. N. Galgalikar; *Treasurer* : P. T. Ashtikar.

THE NAGPUR ORANGE GROWERS' CO-OPERATIVE ASSOCIATION LTD.
Vidarbha Co-op. Bank Building, Tilak Statue, Nagpur.
Trade and Horticultural Service.
The Association has now taken over the processing factory of CHOC's Canning P. Ltd., Nagpur on lease, and has thus started processing of oranges, manufacturing of juice and canning of fruits and vegetables.
President : R. V. Kalikar, M.A.
Vice-President : W. T. Wasu.
Secretary : R. N. Gadre.

THE NAGPUR SHIKSHAN MANDAL'S RADIO INSTITUTE
Mahal, Nagpur.
President : K. T. Mangalmurti, I.C.S. (Retd.); *Secretary* : R. V. Kalikar, M.A.; *Principal* : K. G. Tambane, B.Sc., LL.B.

NURSES AUXILIARY OF THE CHRISTIAN MEDICAL ASSOCIATION OF INDIA
Office : Christian Council Lodge, Nagpur.
An organisation with similar aims for Nurses as those of the Christian Medical Association for Doctors, it is open to all Christian Nurses with registerable qualifications. Its bi-monthly paper *Nursing News*, is also included in the C.M.A.I. Journal.
President : Miss Alice Zachariah.
Vice-Presidents : Miss G. Lazarus, S. Choudhrie.
Secretary-Treasurer :—Miss Alice Clark, Christian Council Lodge, Nagpur 1.

OCCUPATIONAL THERAPY SCHOOL
Medical College Hospital, Nagpur.
Director : R. K. Oza, B.A., O.T.D.; *Hon. Adviser* : Mrs. Kamala V. Nimkar, B.A., F.T.C., O.T.B.

SHRI RAMAKRISHNA ASHRAMA
Dhantoli, Nagpur 1.
Religious and Philanthropic Institution.
President : Swami Bhaskarshwarananda.

ROTARY CLUB
Mount Hotel, Nagpur.
President : Prof. S. Kilpadi; *Secretary* : V. Srinivas.

SANGAM KALA MANDIR
Sangameshwar Devasthan, Sitabuldi, Nagpur.
A technical institution. Runs a college named as Ladies Embroidery Tailoring College for imparting knowledge in tailoring and embroidery to ladies only.

President : Shrimant Tarabai Buti; *Vice-President* : Smt. Maltibal Gharpure; *Secretary and Principal* : Smt. Nirmala Joglekar.

SANSKRIT BHASHA PRACHARINI SABHA
Mor-Hindi-Bhavan, North Ambazari Road, Nagpur 1.
President : Dr. Sir Bhavanishankar Niyogi; *Treasurer* : Phulkumar Poddar; *General Secretary* : S. N. Kulkarni.

SEVA SADAN
North Ambazari Road, Nagpur.
President : Dr. M. B. Niyogi; *Hon. Secy* : W. R. Puranik; *Supdt.* : A. R. Gokhale.

SOUTH INDIA ASSOCIATION (REGD.)
Modi Line 1, Sitabuldi, Nagpur.
President : K. Srinivasan; *Vice-President* : C. R. Raman; *General Secretary* : L. R. Jambunathan; *Treasurer* : M. R. Satagopan.

SOUTH MADHYA PRADESH WOMEN'S CONFERENCE
North Ambazari Road, Nagpur.
President : Smt. Dwarakabai Deouskar; *Secretary* : Smt. Usha Kolte, M.A.

SHRI SHRADHANAND ANATHALAYA
Shradhanand Peth, Nagpur.
President : Dr. Panjabrao Deshmukh; *Vice-President* : Dr. M. B. Niyogi; *Secretary* : Prof. G. M. Somvanshi.

THE TEXTILE MILLS' ASSOCIATION
Subodhar's Bungalow, Road B, Street 4, P.O. No. 3, Dhantoli, Nagpur.
Chairman : Madanlal Goenka.
Dy. Chairman : Atmaram Kanoria.
Secretary : K. Srinivasan.

VIDARBHA HINDI SAHITYA SAMMELAN
Fatechand Mor Hindi Bhavan, North Ambazari Road, Nagpur 1.
President : Brijlalji Blyani; *Gen. Secretary* : R. U. Maheshwari.

VIDARBHA SAHITYA SANGH
North Ambazari Road, Nagpur 1.
Trustees : Loknayak M. S. Aney, Lt.-Col. K. T. Mangalmurti; *President* : P. D. Dhawale; *General Secretary* : Prof. S. G. Kaabikar.

VIDARBHA SAMSHODHANA MANDAL (VIDARBHA RESEARCH SOCIETY)
Vidarbha Sahitya Mandir, North Ambazari Road, Nagpur 1.
President : Dr. M. B. Niyogi, M.A., LL.M., LL.D.; *Chairman, Executive Committee* : Mahamahopadhyaya Dr. V. V. Mirashi, M.A., D.Litt.; *Secretary* : D. G. Landge, B.A., LL.B.

WHOLESALE GRAIN AND SEED MERCHANTS' ASSOCIATION
Itwari, Nagpur.
President : Surajmal Khandelwal; *Secretary* : Banwarilal Jejanl.

YOUTH HOSTELS' ASSOCIATION OF INDIA
Nagpur Regional Committee, Street No. 4, Dhantoli, Nagpur.
President : K. T. Mangalmurti; *Vice-President* : M. D. Dhanwatay; *Secretary* : G. T. Parande.

COTTON MILLS
CENTRAL INDIA SPINNING, WEAVING & MANUFACTURING CO. LTD. (EMPRESS MILLS). Spindles 75,530. Looms 1,707; *Mg. Agents* : Tata Industries Private Ltd., Bombay House, 24, Bruce Street, Fort, Bombay. Mills at Nagpur.

MODEL MILLS, NAGPUR LTD., Spindles 52,408, Looms 952. Managing Director : Khashichaud B. Daga, Ilaco House, Sir P. M. Road, Fort, Bombay. Mills at Nagpur.

NANDED DISTRICT

Headquarters : Nanded.

Talukas and Mahals : Deglur, Kandhar, Billoli, Nanded, Hadgaon, Bhokar (Mahal), Mukhed (Mahal), Mudhol, Kinwat, Rajura.

Area : 4,726 sq. miles ; **Pop.** 958,888.

Two Talukas Kinwat and Rajura are separated from the main body of the District by Yeotmal District.

A range of hills known as Bhog or Thanavari runs through the District from north-west to south-east. The most important river is the Godavari which passes through the District from west to east. Smaller rivers are the Ashna, the Siddha, the Lendi and the Manar. The commonest trees are teak, mahua, tamarind and mango. Large game is sometimes found in Hadgaon, e.g., tigers, leopards, bears and wild dogs.

The District is on the whole dry and healthy. The annual temperature varies between 100° and 60°. The average rainfall is about 35 inches.

There are tombs of Muslim saints and Nanded has the Gurudwara of the Hyderabad Sikhs where Guru Govind is buried.

About 65 per cent of the population is dependent on the land. Practically the whole District is composed of black cotton soil. The rabi crops consist of jawar, gram, wheat and oilseeds. The Kharif crop consists of bajra, linseed, cotton and maize. The staple food crop is jawar and the main cash crop cotton. The principal source of irrigation is wells. The forest area is limited.

Good basalt, granite and limestone are extensively found.

The chief exports are cotton, linseed oils, jawar and cloth, and the chief imports rice, sugar, kerosene and cotton and woollen goods.

The railway connecting Hyderabad and Manmad passes through Nanded.

OSMANSHAH MILLS LTD., Spindles 37,788 ; Looms 902. Managing Agents : Bansilal Bisesardas Private Ltd., 269/270, John's Lane, Gunfoundry, Hyderabad. Mills at Nanded.

NASIK DISTRICT

Headquarters : Nasik.

Talukas and Mahals : Kalwan, Dindori, Niphad, Yeola, Igatpuri, Nandgaon, Nasik, Sinnar, Daglan, Malegaon, Chandor, Peint, Surgana.

Nasik District is a historic place in Bombay State and the city one of the oldest in the Deccan and a place of pilgrimage. Surgana State formerly on the borders of Nasik District with an area of 184 sq. miles is now merged with Bombay State and is within the Nasik Collectorate. The District is bounded on the north by East and West Khandesh, on the east by East Khandesh and Aurangabad districts, on the south by Ahmednagar, and on the west by Thana and Surat Districts. The area of the District is 6,035 sq. miles and the population according to the 1951 census 1,429,916. The language spoken is Marathi.

With the exception of a few villages in the west the whole District lies on a tableland at an elevation of 1,800 to 2,100 feet above sea-level.

The main food crops are rice, wheat and bajra. Nagli is used as food by the poor.

EDUCATIONAL INSTITUTIONS

HANSRAJ PRAGJI THACKERSEY COLLEGE, NASIK
(Conducted by the Gokhale Education Society, Bombay.)

Principal — S. G. Purnani, M.A.

BHONSALE MILITARY SCHOOL, NASIK

Residential in nature, recognised by the Education department and S.S.C. Examination Board, Bombay State. Prepares boys for S.S.C. examination. Standard VII to XI. Annual fee per boy including boarding, lodging, training, Rs. 960. Horse riding and rifle shooting a special feature. Also conducts physical and military training class for boys who cannot join regular school in summer and for girls and ladies in winter.

Chairman of the Governing Body : Seth Motilal Manekchand.

General Secretary : M. J. Dikshit, M.A., B.Sc.

Principal : H. K. Mokaishi, M.A., B.T., M.Ed.

BARNES HIGH SCHOOL

Deolali (Central Bly.).

This Anglican boarding and day school admits children of all communities though it is primarily maintained for European and Anglo-Indian boys and girls whose parents live in Bombay State or are employed on the Central Railway or Western Railway. Such children are eligible for reduced fees provided they are Anglicans. There are separate departments for boys and girls over 10 years and a preparatory house for those under 10.

The school teaches up to the Cambridge School Leaving Certificate examination following the syllabus of the code for Anglo-Indian Schools of Bombay State. Great attention is paid to all games, including swimming, and Scouting is encouraged.

Headmaster : W. R. Coles, B.A. Hons. (Lond.).

OTHER INSTITUTIONS

Government Training College for Women, Nasik.

Boys' Town (formerly Parsi High School), Nasik.

Government Girls' High School, Nasik.

National High School, Nasik.

Maratha High School, Nasik.

New High School, Nasik.

Ramkrishna Parasharam Puria Vidyalaya, Panchvati

Petha High School, Nasik.

Police Training School, Nasik.

Rungtha High School, Nasik.

Sarvajanik Wachanalaya (General Library), Nasik.

Security Printing Press, Nasik Road.

Convalescent Home (H. M. Phipson), Nasik Road.

Pushpavati Rungtha Kanya Vidyalaya (attached to Rungtha High School), Nasik.

N. B. I. Girls' High School, Nasik (attached to New High School).

Purebottam High School, Nasik Road.

Deolali Cantonment High School, Deolali.

Yashwant Vilayam Mandir, Nasik.

Niranjan Durlabhji Khetain Bal-Mandir, Panchvati.

Anath Vidhyarthi Griha, Panchvati.

Maharshi Shinde Training College, Nasik.

Wireless School, Agra Road, Nasik.

Radioic Institute, Main Road, Nasik.

Anath Mahila Ashram, Tilabhandeshwar Lane, Nasik.

Beggars' Home, Gadge Maharaja Dharmashala, Nasik.

Kusha Dhama and Shishu Vihar, Panchavati, Nasik. Institution taking care of children of lepers.

Lokhitavadi Mandal, Arya Vaibhav, Nasik. Institution devoted to cultural activities.

Nasik Saraf Association, Saraf Bazar, Nasik.

Red Cross Society, Ambedkar Colony, Nasik.

Hansraj Pragji Thackeray College (Arts & Science), Nasik.

B.Y.K. College of Commerce, Nasik.

Bhonsale Military College, Nasik.

Government of India Printing Press, Gandhi Nagar.

Hindi Madhyamik Vidyalaya, Gandhi Nagar.

Adarsha Montessori School, Nasik.

Dandekar Tailoring College, Nasik.

Sadhana Typewriting School, Nasik.

Government Technical-cum-Commercial School, Nasik.

Hindi Vidyalaya (attached to M. Rashtra Bhaasha, Poona).

Madhyamik Adhyapan Vidyalaya (attached to New High School, Nasik).

Hindi Shikshak Sanad (Junior & Senior), (attached to New High School, Nasik).

Khadi Gramodyog Vidyalaya, Post Trimbak Vidyamandir, Nasik.

DR. K. N. BAHADURJI MEMORIAL SANATORIUM FOR PARASIS
Lam Road, Deolali.

Trustees : Dr. M. B. Mody, M.D. ; Maneck P. Mistry, F.S.A.A., F.O.A. ; Bustom P. Marzban, B.A., Jt. Hon. Secretary : Eruch D. Engineer.

K. G. HINDU SANATORIUM

Nasik Road.

This sanatorium consists of six bungalows and one reading room. For information, please apply to the Managing Trustee, Kalewar Mansion, Babulnath Road, Bombay 7.

THE NASIK DISTRICT CHAMBER OF COMMERCE

806, Ravivar Peth, Nasik City.

President : Potnis Dattatray Shankar ; **Secretary :** Takle Prabhakar Vaman.

RADIONIC INSTITUTE

Rajendra Engineering College, Main Road, Nasik.

Principal : Y. L. Rajendra, D.T.Ch. (Elec.), M.I.E.E., A.Brit., I.R.E. ; **Head of the W. T. Dept. :** G. N. Hamantgad, Dip. in W.T. ; **Head of Radio Labs. :** S. L. Rajendra.

SHASTROKTA SANGIT PARASRAK MANDAL

SHREE VISHNU SANGIT VIDYALAYA

Mahatma Gandhi Road, Nasik City.

Chairman : V. V. Parashare ; **Vice-Chairman :** G. N. Deole ; **Secretary & Principal :** B. R. Trivedi.

HOSPITALS

Civil Hospital, Nasik.

Hospital for Lepers, Panchvati, Nasik.

E. B. M. M. Hospital, Sharanpur, Nasik.

Sir D. M. Petit Hospital for Animals, Nasik.

HOTELS

15th August Gujrat Lodge, Nasik.
 Bhagwantrao Lodge, Main Road, Nasik (Vegetarian).
 Badshahi Gujrat Lodge, Nasik.
 Bombay Gujrat Lodge, Nasik.
 Coronation Hotel, Deolali.
 Edward Hotel, Deolali.
 Grand Hotel, Deolali.

Hotel Greens, Nasik.
 Hotel Liberty, Nasik.
 Manda Hotel, Nasik.
 Meher Restaurant, Nasik.
 Royal Hotel, Deolali.
 Rugby Hotel, Deolali.
 Nasik Bakery and Restaurant, Agra Road, Nasik.
 Diamond Lodge, Agra Road.

OSMANABAD DISTRICT

Headquarters : Osmanabad.

Talukas and Mahals : Latur, Tuljapur, Osmanabad, Kalam, Omerga, Awasa, Bhoom (Mahal), Farendah, Ahmadpur, Nilanga, Udgir.

Area : 5,484 sq. miles ; Pop. : 1,210,041.

The District is divided into two parts by a range of hills which runs from the north-west to roughly the south-east : a plateau to the north-east and east and lowlands to the south, west and south-west.

The most important river is the Manjra which runs along the northern boundary part of the way and then cuts across the District in a south-easterly direction. Smaller rivers are the Sina, the Kheri, the Tirna, and the Borna. There is not much forest in the District. The trees consist of babul, nim and mango. There is not much big game. The climate is not uniform. Generally speaking the climate of the plateau is pleasanter than that of the plain. The average annual rainfall is about 32 inches.

Six places of archaeological interest are the fort of Naldurg, the Jumma Masjid in Awasa Taluka, the caves around the town of Osmanabad, the two caves at Hasangaon, the old fortress at Farendah. Tuljapur is a place of Hindu pilgrimage.

The soil is largely black cotton interspersed with red, white or sandy soils. The black soil produces jawar, gram, wheat and cotton. In the masab soils are grown yellow jawar, bajra and pulses. The kharat soils are used for garden produce.

The staple food grain is jawar. Wheat, rice and bajra are next in importance. Cotton is grown everywhere, while sugarcane is sometimes grown with well irrigation. Wells are the main source of irrigation.

There are no minerals except granite and basaltic rock. Neither is there any important industry. The chief exports are jawar, other cereals and pulses, cotton, oilseeds, cattle, sheep, tobacco and leather. The principal imports are salt, sugar, kerosene and cloth.

PANCH MAHALS DISTRICT

Headquarters : Godhra.

Talukas and Mahals : Godhra, Dohad, Kalol, Halol, Jhalod, Devgad-Baria, Limkheda, Santrampur, Lunavada, Shehera, Jambughoda.

The Panch Mahals District lies between 22°15' and 23°11' North Latitude and 73°22' and 74°20' East Longitude. It is divided into three Sub-Divisions namely, Godhra Sub-Division comprising Godhra, Kalol, Halol and Jambughoda talukas, Lunavada Sub-Division comprising Lunavada, Shehera and Santrampur talukas, and Dohad-Devgadh-Baria Sub-Division comprising Devgad-Baria, Limkheda, Dohad and Jhalod talukas with headquarters of the District Deputy Collectors at Godhra, Lunavada and Devgad-Baria.

The area of the District after the merger is 3,500 sq. miles and the population according to 1951 census is 1,141,432. The language spoken is Gujarati.

Agricultural produce includes cereals of all sorts, pulses, oil-seeds including ground-nuts, Til and Mahuva seeds, Kanji seeds, cotton and tobacco. Larger areas are now being covered by fruit growing orchards and vegetation. Acreage under foodgrains : Maize 311,207, Paddy 289,674, Bajri 73,230, Juwar 31,059, Wheat 52,683, Pulses 14,300, Groundnuts 139,789.

The District has a forest area of 717,212 acres which produces timber such as country teakwood, Mahuwa, Sadad, Kher and Dhavda Wood. Mhowra flowers and timru leaves for bidi-manufacture and hay fodder are a principal produce of the forests. Other minor produce is bamboos, gum, lac, asotri-leaves, Khakhra-leaves, ghat-hor, Kanji-seed, Amla, honey and wax. The Panch Mahals District exports large quantities of timber, bamboos, firewood, scantilings, charcoal and hay to various Districts in Bombay State. It also exports ground-nut oil to the Punjab and parts of Uttar Pradesh.

The District contains the famous ruins of Champaner which was a stronghold of Rajput kings belonging to Raol and the Taru dynasty. Pavagadh, a 2,500 feet high hill, is considered by Hindus to be a place of special interest and holiness. The hill itself contains the famous ruins of the ancient possessions of the Rajput king Patal Raol. Then there are the hot springs believed to have sulphur deposits, the medical properties of which are not yet fully explored, situated at Tuwa, a station about 7 miles from Godhra on the Godhra-Anand (broad-gauge) branch line of the Western Railway. The Bombay Government has a scheme for the development of these springs.

There is another hill named Ratanmal Hill about 25 miles away from Devgad-Baria. It is in Kanjeta Village, formerly a native State. This hill is 2,200 feet high and has a plateau of four square miles with possibilities of developing it as a cheap summer resort.

COMMUNICATIONS

The railways and State Transport buses are the main means of communication. There is the Western Rly. main line from Bombay to Dehra Dun which runs through the Panch Mahals via Godhra. Then there is the Anand-Godhra Branch line (broad-gauge) and the Godhra-Lunavada section of the Western Railway (narrow-gauge), the narrow-gauge section of Champaner Road-Pani Mines running from Champaner Road Station of the broad-gauge main line terminating at Pani Mines via Halol and Shivrampur, and the Pipri-Dohad-Baria section of the Western Railway. The last three are narrow-gauge sections worked by the Western Rly. administration. Passenger bus services of the Bombay State Road Transport Corporation, Bombay, are operating between Godhra-Dohad, Godhra-Shivrampur, Rodeli-Chhota-Udepur, Dohad-Jhalod, Dohad-Allirajpur (Madhya Pradesh), Godhra-Shehera-Lunavada, Godhra-Pandu via Kalol, Godhra-Sant Road-Santrampur-Kadana, Godhra-Ahmedabad and Godhra-Baroda. Short distance routes are seasonally operated in dry season into the interior rural areas of various talukas. New routes over kutcha roads to connect villages with taluka towns are under survey.

IRRIGATION

Pata-Dungri Dam harnessing the waters of Khan River is located 11 miles to the south of Dohad. The Dam is 83 feet in height and 600 ft. in length. Its storage capacity is 1,450 million cubic feet of water. The dam provides irrigation facilities to 12,000 acres of land.

The Suki dam is situated 11 miles north of Dohad. The dam is 66 feet high and 200 feet long. Its storage capacity is 142 million C. ft. of water and it irrigates 500 acres.

The third is the Titodi Dam situated two miles south of Jhalod town. It is 50 ft. in height and 5,900 ft. in length. Its storage capacity is 125 million C. ft. of water and it irrigates 1,500 acres of land.

The fourth is Tanachhla Irrigation project. It is located 15 miles away from Dohad. The dam is 60 ft. high with a storage capacity of 250 million C. ft. and it irrigates 250 acres of land. The fifth irrigation project is Karad Dam which is located in Devgad-Baria Taluka. The dam is 80 ft. in height and 2,438 ft. in length. Its storage capacity is 1,250 million C. ft. and it irrigates 15,200 acres of land. All these irrigation projects are estimated to increase the yield of food crops by 3,000 tons. There are several other minor irrigation tanks in Godhra, Dohad, Jhalod, Lunavada, Halol and Kalol talukas.

Agriculture is the main industry in the District. Freelandgunj in the Dohad Taluka, one mile away from Dohad town, is the headquarters of the Works Superintendent, Divisional Electrical Engineer, Divisional Medical Officer and other officials of the Western Railway. It contains the Locomotive Shops of the Western Rly.

The District contains rich mineral deposits, such as manganese ore and galena ore. Big mines of manganese ore are worked at Shivrampur, Baman Kuwa and Pali Mines which have developed into a mining colony. Saw mills on small scale and mills for fertilisers are located at Godhra while oil-mills are located at Vejalpur in Kalol Taluka, Derol Station in Kalol Taluka and at Godhra. They produce ground-nut oil.

The dry bed of the Panam River near Sant Road Station on the Godhra-Katlam line and that of the Meshri River at Godhra and Gomra River at Kalol contain quality sand used for preparing Chinawares and glass and for building construction. There is a glass and Chinaware Factory at Sant Road in Godhra Taluka. Some quarries exist at Timba, a village in Godhra Taluka. Gravel used for reinforced concrete works comes from the quarry which is worked at Timba Road Station on the Godhra-Anand Rly. line.

CLUBS

The Godhra Gymkhana, Civil Lines Road, Godhra.
Rotary Club of Godhra, Godhra.
Rotary Club of Dohad, Dohad.
Clayton Club, Near Local Board Offices, Godhra.
Hindu Gymkhana, Mission Road, Godhra.
Railway Institute, Railway Yard, Godhra.
Railway Senior Institute, Freelandgunj, Dohad.
Railway Junior Institute, Freelandgunj, Dohad.
Sir Ranjeetsinhji Gymkhana, Palace Road, Deogadh-Baria.

EDUCATIONAL INSTITUTIONS

The Telang Commercial High School, Civil Lines Road, Godhra.
The Government Technical High School, Civil Lines Road, Godhra.
M. and M. Mehta High School, Civil Lines Road, Godhra.
New Era High School, Near Post Office, Godhra.
Iqbal Union High School, Opp. Civil Hospital, Godhra.

Government Primary Teachers' Training College for Men, Old Military Barracks, Devgad-Baria.

M. E. Mission Primary Teachers' Training College for Women and Practising School, Mission Road, Godhra.

St. Stephen High School, Railway Colony, Freelandgunj, Dohad.

Mafatal Gagalbhai High School, Station Road, Kalol.

Sarvajani High School, Station Road, Halol.

Sajjankumar High School, Station Road, Lunawada.

B. M. High School, Jhalod.

The S. P. High School, Santrampur (Via Sant Road Station).

The Panch Mahals District School Board, Godhra.

The Godhra Municipal School Board, Godhra.

Godhra Sarvajani Shikshana Mandal, Civil Lines Road, Godhra.

ASSOCIATIONS

The Panch Mahals District Bar Association, Civil Court, Godhra.

The Dohad Bar Association, Civil Court, Ghadi, Dohad.

The Panch Mahals Chamber of Commerce, Station Road, Godhra.

The Stuart District Library, Near Municipal Office, Godhra.

The Theosophical Society, Godhra Lodge, Parbha Road, Godhra.

The Sangit Kala Kendra, C/o K. J. Parikh, Station Road, Godhra.

The Panch Mahals District Development Board, (Chairman, Collector, Panch Mahals), Civil Lines Road, Godhra.

Panchmahals District Child Welfare Association, C/o. District Local Board Office, Godhra.

PANCHMAHALS CHAMBER OF COMMERCE Godhra.

Hon. Secretary : Natvarlal Girdharilal Parikh.

PANCH MAHALS LAND HOLDERS ASSOCIATION Godhra.

President : A. B. Desai; Secretary : C. D. Desai.

SHREE GODHRA LAXMINARAYAN TEMPLE TRUST 3868, Sheherabaghal, Godhra.

Trustees : S. M. Shukla and K. S. Mehta.

PARBHANI DISTRICT

Headquarters : Parbhani.

Talukas : Parbhani, Gangakhed, Pathri, Jintur, Hingoli, Basmat, Kalamnuri, Partur.

Area : 4,855 sq. miles ; Pop. : 1,010,864.

Part of the District lies on the plateau south of the Sahyadri range and part on the plains. The plateau slopes towards the south and terminates in the valley of the Dudna. The two chief hill ranges are the Sahyadri-parvat and the Balaghat. The former runs through the north while the latter is in the south. The important rivers are the Godavari, Penganga, the Purna and the Dudna. The trees are mostly babul, khair, nim, mango, tamarind and mahua. Tigers, wolves, hyenas are found in the jungles. Sambar and the spotted deer are not uncommon.

The climate is healthy from February to May but it is feverish during the monsoon and the cold weather. The annual range of

temperature is from 105° to 60°. The average annual rainfall is about 35 inches.

Structures of note in the District are the temple of Nagnath at Aundh, the Jain temple of Parasnath near Jintur, the temple near Bamu and the shrine of Ramzan Shah.

The soil is partly black cotton and partly masab and kharab. On the black soil are grown white jawar, wheat, gram, tuar, while on the kharab soils are grown jawar, bajra, indigo, sesamum, oilseeds and pulses. The kharab soils also bear garden crops. The staple food crops are jawar, wheat and bajra. Cotton is grown throughout the District. About one-twentieth of the land is under forest. There are no minerals of economic value. Basalt and granite are available everywhere for building and road metalling. There are no important industries.

The principal exports are jawar, cotton, oilseeds, tobacco and hides. The chief imports are salt, sugar, kerosene and textiles.

POONA DISTRICT

Headquarters: Poona.

Talukas or Mahals: Ambegaon, Baramati (Bhimtadi), Dhond, Haveli, Indapur, Junnar, Khed, Mawal, Mulshi, Poona City, Pundhbar, Sirur, Bhor, Velhe.

Poona District lies between North Latitude 17° 54' and 18° 28' and East Longitude 73° 24' and 75° 13'. It is bounded on the north by the Districts of Thana and Ahmednagar, on the South by Satara North, Sholapur and the former Phaltan State, on the east by the Districts of Ahmednagar and Sholapur, and on the west by the Sahyadri Hills. In March 1948 a large part of the Bhor State with a population of about 120,000 was added to the Poona District consequent upon the merger of that State with Bombay State. The premerger area of the District was 5,869 sq. miles and the population 1,359,408. The population according to 1951 census is 1,950,976, and the area 6,02½ sq. miles. The language spoken is Marathi.

The city proper extends along the Mutha river for about 1½ miles inland; its length is about 2 miles from east to west and its breadth about 1½ miles, the total area being about 2½ square miles.

Towards the west the country is undulating and intersected by numerous spurs of the Western Ghats, which break off in a southerly direction, becoming lower as they pass eastwards, and in the end sinking to the general level of the plain. Many streams rise in the Western Ghats and flow eastwards until they join the Bhima river, which passes through the District from north-west to south-east. The main tributaries are Vel, Ghod, Bhama, Indrayani, Mula and Nira. The rainfall varies considerably in different parts of the District. In the western parts it is heavy and regular, in the central belt moderate, and in the east very irregular. The main crops are paddy and jawar. But the District is a deficit area in the matter of food grain. One of the products of which the District has an exportable surplus is jaggery produced from sugarcane.

The District is well served by road and railway. The Central Railway traverses the District from west to east, and this section is joined at Dhond by the north to south cross connection from Manmad. The Southern Railway runs from Poona southwards for a distance of about 50 miles in the District. The District has also communication with Nasik, Ahmednagar, Sholapur, Belgaum, Satara, and Kolaba Districts by road. The Poona-Agra Road is also one of the arterial roads of the country as a whole.

Until a few years ago the headquarters of the Bombay Government during the monsoon, the city of Poona lies at the confluence of two small rivers, the Mutha and the Mula, on the Western margin of the Deccan plateau at a height of about 1,800 ft. above sea-level. Only 80 miles separate the city from the main range of the Western Ghats and 119 miles from the State capital, Bombay. The annual exodus of Government to Poona has now been stopped, as also the monsoon meetings of the Houses of Legislature.

The city is surrounded by uplands and hills. The climate of Poona is dry during most of the year and very different from that obtaining in the coastal towns of Bombay State. On account of its elevation and dryness, Poona is cool during nights even in summer. The city is at its best during the monsoon—June to September. The city is the venue of horse racing organised by the Royal Western India Turf Club.

The importance of Poona from the military point of view is growing. It is the headquarters of the Southern Command and also of the Poona Sub-Area. The National Defence Academy is located in Khadiavala. The School of Military Engineering and The Armed Forces Medical College are also in Poona. A wing of the Indian Air Force is also posted to Poona. Some of the other military establishments around Poona are: the Ordnance Depot and the Arsenal at Kirkee and the Vehicles Depot at Dehu Road. The Indian Navy Mechanical Training establishment, I.N.S. "Shivaji", is located at Lonavla, 40 miles from Poona.

Other important institutions of All-India character located in Poona are given below:

Meteorological Office: The technical headquarters of the India Meteorological Department, the Meteorological Office in Poona, is located on the Ganeshkhind Road at Shivajinagar, in a magnificent building with a conspicuous clock tower.

Central Water and Power Research Station; National Chemical Laboratory.

POONA MUNICIPAL CORPORATION

A Corporation for the City of Poona was created on February 15, 1950.

The Municipal Budget proposals for 1959-60 as approved by the Standing Committee show an estimated income of Rs. 1,63,65,884

and an estimated expenditure of Rs. 1,63,90,021, leaving a deficit of Rs. 24,137. The deficit would be met from the opening balance of the new year.

It was proposed to spend Rs. 6,22,605 on Revenue New Works and Rs. 87,90,414 on loan works.

Party position in the Corporation: Samiti 43, Independents 17 Nagrik Sanghatana 5.

Mayor: Ramechandra Vitthal Telang.

Deputy Mayor: Gopal Prabhakar Bhagwat.

Members: Gunjal Namdeo Ranoji, Barne Vitthal Laxman, Gaikwad Madhavrao Balwantrao, Chavan Jalram Vitthaji (Ward No. 1); Malayya Krishna Ramnath, Deshpande Dnyaneshwar Tukaram (Ward No. 2); Khan Gulam Mohomad Abdul Satar Khan, Brendo Ganesh Raghunath, Shendge Vitthal Shankar (Ward No. 3); Mithapalli Malayya Ramayya, Kirad Sardar Munnasingsh, Patel Jamalkhan Karinkhan, Pawar Damodhar Santram (Ward No. 4); Kalyanekar Motilal Keshav, Sagar Narayan Tukaram, Bogam Dnyanoba Ramanna (Ward No. 5); Gandhi Ramdas Vitthaladas, Shah Gokuldas Jivarambhal (Ward No. 6); Kalbhor Chandrakant Maruti, Telang Ramechandra Vitthal, More Balakrishna Pandharinath, Dhore Shivaji Amrut (Ward No. 7) (Part 1); Ghalas Ganesh Trimbak, Gavandi Mohan Vishwanath, Paranjape Ramdas Sadashiv (Ward No. 8) (Part 11); Salavade Ganpat Mahadeo, Gowari Laxman Gopal, Moholkar Tukaram Pandharinath (Ward No. 9); Kirad Rohidas Harilal, Kurumkar Shankar Balwant, Pardeshi Kaluram Udaningsh, Maheshwarji Mohanlal Kevachand, Pawar Narayan Ganpatrao (Ward No. 10); Girme Krishna Tukaram, Kadu Digambar Shantaram, Tikone Damodar Maruti, Satav Pandurang Gopal (Ward No. 11); Bhagwat Gopal Prabhakar, Shrimati Bapat Leela Vishwanath, Hagavane Vasant Shankar (Ward No. 12); Kotwal Laxmanrao Baburao, Sathye Narayan Bhaskar (Ward No. 13); Gogate Vasudeo Balwant, Dharin Mohan Manikchand, Shrimati Bhopatar Suddrabai Bhaskar (Ward No. 14); Bhawe Vishwanath Narayan, Shrimati Limaye Anusayabai Shridhar, Shirole Bhausaheb Laxmanrao, Sahasrabudhe Laxman Gopal (Ward No. 15); Shirole Sambhajirao Bajirao, Bhosale Jagannath Vishnu, Kale Anand Rao Dattatraya, Pashankar Dayanand Kashinath, Nagarkar Pandurang Ramechandra, Kamble Ramechandra Tukaram (Ward No. 16); Kodre Rajaram Kundalik, Kodre Sadaba Balaji, Khallhor Jayaram Sakharam (Ward No. 17); Moze Genu Sopann, Shelar Balwant Laxman (Ward No. 18); Padale Thakken Raghoba, Patil Vishwanath Bhausaheb, Naik Kandasheb Tukaram (Ward No. 19); Sasane Jayasingh Ganpat, Lonkar Bala Bhiva (Ward No. 20).

STANDING COMMITTEE

Chairman: Jagannath Vishnu Bhosale.

Members: Kale Anand Rao Dattatraya, Kodre Sadha Balaji, Gogte Vasudeo Balwant, Patel Jamalkhan Karinkhan, Paranjape Ramdas Sadashiv, Patil Vishwanath Bhausaheb, Padale Thakken Raghoba, Shah Gokuldas Jivarambhal, Sasane Jayasingh Ganpat, Satav Pandurang Gopal, Hagavane Vasant Shankarrao.

OFFICERS

Municipal Commissioner, S. V. Bhawe, I.A.S.

Assistant Municipal Commissioner (General), G. M. Khopkar, B.A. (Hons.), LL.B.

Assistant Municipal Commissioner (Special), S. B. Darp, B.A.

Municipal Secretary, A. K. Jadhav, B.A., LL.B.

Medical Officer of Health, C. M. Dighe, M.B.B.S., D.P.H.

City Engineer, S. K. Neurgaonkar, B.E. (Civil), A.M.I.E.

Development Engineer, S. G. Yadav, B.Sc., B.E. (Civil), A.M.I.E.

Chief Accountant, R. G. Godbole, B.Com., C.A.

Municipal Chief Auditor, R. N. Gadgil, B.Com.

Assessor and Collector of Municipal Taxes, M. M. Dalvi, B.Com.

Transport Manager, V. D. Desai, B.A.

Senior Legal Assistant, Smt. S. B. Tarkunde, Advocate.

Administrative Officer, G. P. Kale, B.A., B.T., Dip. Ed.

Internal Auditor, P. S. Borkar, B.Sc.

LONAVLA

This hill station is situated at the top of the Bhere Ghat incline about 2,027 feet above sea-level.

Among the lakes may be mentioned the 'Tata Sons Hydro-Electric Works Lake' at Valvan (walking distance and drive over a built road), their smaller Lake near the Kaiwada, and the Lonavla Municipality's Water Works on the top of the Tungarli Hill about 2½ miles north of the Railway Station. Fishing is allowed both at the Bhushi and the Valvan lakes, the latter being the more suited for the purpose. A permit can be obtained locally from the Water Engineer's office at Lonavla on payment of a fee which includes the use of the Company's boat.

The town of Lonavla and its adjacent villages and suburbs are supplied with water from the Municipal Water Works at Tungarli.

There is a Municipal rest-house and Dharmashalla on the Lonavla-Rhanganvadi Road. The Railwoods are suitable for picnics and are also a camping ground for Government Officers during the hot season.

About 3½ miles from the Railway is situated the "Tiger's Leap," a promontory which commands a picturesque view of the valley below. The famous Karla Caves are situated on a hill about five miles from Lonavla, and are reached by a built road up to the foot of the hill, and visitors either walk up or are carried up by means of chairs. There is a man in charge of the Caves at the top for assisting visitors. Tongas and victorias can be hired throughout the year. From the Railway Station of Malavali, nearly three miles from Lonavla, visitors can proceed to view the Lohgad Fort (now partially demolished) on the top of a hill. The approach to it is by no means easy and visitors must arrange beforehand for chairs—slung on poles—to be sent to the Railway station from the Karla Caves hill or Karla village. This Fort was formerly used as a State prison by the Peshwas. About five miles by road from Lonavla is the Sahar Pathar Hill, a well-known shooting ground where big game may be found.

The terrace garden overlooking Tata's Valvan Lake is another attraction for visitors to Lonavla.

The following are some of the Forts and places of interest:—

Fort of Lohgad, Fort of Visapur, Fort of Rajmachi which stands on the top of the Sahyadri Range and commands a grand view of Matheran, Konkan and even part of Bombay, Duke's Nose, Tungarli Municipal Lake.

The temperature varies from 65 in the cold weather to 85 in the hottest month. The rainfall varies from 160 to 250.

One of the best naval establishments and training schools I.N.S. "Shivaji" is about four miles from Lonavla Station and visitors may contact the Commanding Officer on phone for permit to visit.

There is up-to-date telephone service.

V.P. High School and "Guru Kul" are residential schools preparing for the S.S.C. examination.

HOTELS

Central Hotel.
Lonavla Hotel.
Jai Hind Hotel.
Giri Vihar Hotel.
Bharatya Lodge.

SANITARIA

Krishna Arogya Bhavan.
Jaya Baug.
Divali Baug.
Vasanji Manji.
Khoja Sanitarium.
Bhori Sanitarium.

KHANDALA

Khandala, a health resort, 78 miles from Bombay by rail and 71 by road lies in Mawal Taluka. It is situated at the top of the Bhor Ghat at an elevation of about 3,000 feet above sea-level, and has an agreeable and bracing climate all through the year. Bungalows are available for seasonal lease, and bungalows, sanitarium, hotels are all easily accessible from the railway station. The local population is about 1,500.

Among places worth a visit in and around the town are Tata Electric Supply Company's reservoir called Forbay Dam, Byramjee's Point, the Duke's Nose, Tiger's Leap, all of which provide magnificent views of the surrounding country. About nine miles from Khandala are the Karla caves considered to be the oldest specimen of Buddhist caves in India. In Walwan lake which is about four miles from Khandala good mahashir fishing is available.

HOTELS

Khandala Hotel.
Empress Hotel.
Government Inspection Bungalow.

INSTITUTIONS

D. Cowasji Zoroastrian Girls' Boarding School.
Marban Sanitarium.
Kotkar Sanitarium.
Khoja Sanitarium.
Kune Mission.

EDUCATIONAL INSTITUTIONS

UNIVERSITY OF POONA

The University of Poona was established by the Poona University Act, 1948 of the Government of Bombay passed in pursuance of its policy to create Universities in the State for different linguistic regions. The University area comprises the following 12 Marathi speaking Districts of Maharashtra in Bombay State namely, Poona, Nasik, Thana, East Khandesh, West Khandesh, Ahmednagar, Sholapur, North Satara, South Satara, Kolhapur, Ratnagiri and Kolaba.

The University is both teaching and affiliating in character. The teaching activity is confined to Post-graduate classes in the whole University area and also post-intermediate classes in the Poona area (which comprises Poona and some area in the Poona City Taluka, Mulshi Petha and the Haveli Taluka).

It has the following eight Faculties and has provision for courses for the following degrees:

Faculty of Arts: B.A., M.A., Ph.D., D.Litt., B.A. (External), M.A. (External); *Faculty of Mental, Moral and Social Sciences*: B.A., B.A. (External), M.A., M.A. (External), B.T., M.Ed., B.Com., M.Com., Ph.D., D.Litt. *Faculty of Science*: B.Sc. (General), B.Sc. (Hons.), M.Sc., M.Sc. (Maths.), M.Sc. (Maths.) (External), Ph.D.; *Faculty of Law*: LL.B., LL.M., LL.D., Ph.D.; *Faculty of Medicine*: M.B.B.S., M.D., M.S., Ph.D., B.Sc. (Nursing), M.Sc. (Med.); *Faculty of Engineering*: B.E. (Civil, Mechanical, Electrical, Telecommunications and Metallurgy), M.E., Ph.D.; *Faculty of Agriculture*: B.Sc. (Agri.), M.Sc. (Agri.), Ph.D.; *Faculty of Ayurvedic Medicine*: B.A. M. & S.

The University has also instituted for the benefit of employed persons and married women, the B.A. (External), M.A. (External), B.Com. (External) and M.Com. (External) degrees in the Faculties of Arts and Mental, Moral and Social Sciences and M.Sc. (Maths.) (External) in the Faculty of Science to which students can qualify by appearing for the examinations direct, without having to undergo instruction in a College or the University.

The University has also instituted a Faculty of Fine Arts and Music and the degree of Bachelor of Music, but it has not started functioning so far (end of 1953).

The following new diplomas and certificates have been instituted (1) Diploma in Oriental (Sanskritic) Learning; (2) Certificate and Lower Diploma Course in Modern Foreign Languages (French and German); (3) Diploma in Public Health; (4) Diploma in Psychological Medicine; (5) Diploma in Anaesthesia; (6) Diploma in Music; (7) Diploma in Clinical Pathology.

The University has in all 35 affiliated Colleges and four recognized Research Institutions. Of them, 12 colleges and all the three Re-

cognised Institutions are in the Poona area and they are called the Constituent Colleges and the Constituent Recognised Institutions of the University. One recognised Institute is out of Poona area. Of the Colleges, two are Law Colleges (one at Poona and the other at Kolhapur), two Medical Colleges (at Poona), two Engineering Colleges (one at Poona and one at Sangli), one Agricultural College (at Poona) and one College of Ayurvedic Medicine and Surgery. The rest are Colleges for Arts, Social Sciences and Science.

The total strength of students in all the colleges and the University is in the neighbourhood of 19,000.

The University has its own Departments in the following ten subjects, each headed by a University Professor or Reader and mainly intended for post-graduate instruction and research. Marathi, Sanskrit, Politics, Experimental Psychology, Mathematics and Statistics, Physics, Chemistry, Zoology, Geography and Botany.

CHANCELLOR

Sri Prakasa, Governor of Bombay.

VICE-CHANCELLOR

D. G. Karve, M.A.

REGISTRAR

W. H. Golay, M.A.

Dy. Registrar, R. S. Sardeshpande, B.A.
Asst. Registrar, R. B. Manerikar, M.A., LL.B.
Librarian, K. S. Hingwe, M.A., Dip.Lib.sc.

SECRETARY, FOREIGN UNIVERSITIES INFORMATION BUREAU AND UNIVERSITY EMPLOYMENT BUREAU

A. B. Arlick, B.Sc. (N.D., U.S.A.).

SECRETARY, BOARD OF EXTRA-MURAL STUDIES

Dr. A. V. Naik, M.A., Ph.D.

SECRETARY, UNIVERSITY BOARD OF SPORTS

V. N. Bhilde.

THE COURT

This corresponds to the Senate of the Bombay University and is the main policy-making body of the University. Its membership is about 160 and besides the registered graduates, it has also representatives of the District Local Boards and Municipalities in the Districts in it.

ACADEMIC COUNCIL

This is the main academic body and has powers in respect of all academic matters of the University. Its total membership is about 115.

EXECUTIVE COUNCIL

This is the main administrative body of the University, comprised of representatives from the Court and the Academic Council. Its total membership is 16.

BOARD OF UNIVERSITY TEACHING

This is concerned with the organization, co-ordination and conduct of post-intermediate teaching in the Poona area and the post-graduate teaching in the whole University area. Its total membership is about 40.

BOARDS OF STUDIES

These are 37 in number in all the Faculties together. Their main function is to frame courses of Studies and to draw up panels of examiners.

INCOME AND EXPENDITURE (1958-59)

Income : Rs. 36,51,873.

Expenditure : Rs. 40,86,018.

State Government Grant-in-aid : Rs. 7,01,508.

Constituent Degree Colleges.—College of Engineering, Poona 5; Fergusson College, Poona 4; College of Agriculture, Poona 6; Sir Parashurambhau College, Poona 2; Law College, Poona 4; Nowrojee Wadia College, Poona 1; Tilak College of Education, Poona 2; Brihan Maharashtra College of Commerce, Poona 4; M. E. Society's College of Arts & Sciences, Poona 4; B. J. Medical College, Poona 1; Ayurved Mahavidyalaya, 22, Nagesh Peth, Poona 2; Armed Forces Medical College, Poona 1.

Affiliated Degree Colleges.—Rajaram College, Kolhapur; Willingdon College, Sangli; Hansraj Praggi Thackersey College, Nasik; Shahaji Law College, Kolhapur; Pratap College, Amalner (E.K.); Chhatrapati Shivaji College, Satara; Dayanand College of Commerce, Sholapur; Dayanand College of Education, Sholapur; Shree Maharani Tarabai Teachers College, Kolhapur; Dayanand College, Sholapur; R. P. Gogate College, Ratnagiri; Mooljee Jaitha Arts & Science College, Jalgaon (E.K.); Ahmednagar College, Ahmednagar; Walchand College of Engineering, Sangli; Sangamshwar College, Sholapur; Rayat Shikshan Sanstha's College of Education, Satara; Gopal Krishna Gokhale College, Kolhapur; Shri Shivaji Vidya Prasarak Sanstha's Arts College, Dhule (W.K.); G.E. Society's Bhikusa Yamasa Kshatriya College of Commerce, Nasik; Sadguru Gadge Maharaj College, Karad (N. Satara); Phaltan Education Society's Mudholi College, Phaltan (N. Satara); Affiliated Intermediate Colleges:—Legal Education Society's College of Commerce, Topkhana Building, Kolhapur; Shri Shivaji Education Society's Science College, Karad.

Recognised Institutions.—Gokhale Institute of Politics & Economics, Poona 4; Bhandarkar Oriental Research Institute, Poona 4; Deccan College Post-graduate and Research Institute, Poona 6; G. K. Institute of Rural Education, Gargoti.

AYURVEDA MAHAVIDYALAYA

22, Nagesh Peth.

POONA 2

The Institute is affiliated to the Poona University for the B.A.M. & S. (Bachelor of Ayurvedic Medicine and Surgery) degree course which covers a period of 4½ years.

The Institution also conducts a two years' Post-Graduate course.—Ayurvediya Parangat of the Tilak Maharashtra Vidyapeeth.

The attached hospital known as the Seth Tarachand Ramnath Ayurvedic Hospital has 175 beds (64 medical, 60 surgical & 51 maternity) and has a well equipped operation theatre, a Pathological Laboratory, an X-ray department and an out-patient department treating 300 patients daily. It has its own pharmacy, manufacturing both Ayurvedic and Allopathic medicines.

B. J. MEDICAL COLLEGE, POONA

The College admits every year 100 students for the M.B.B.S. Course. The total number of students at present is about 604. The clinical instruction is given in the attached Basoon hospitals. *Principal and Professor of Anatomy* : Dr. B. M. Desai, M.S. (Bom.), F.C.P.S. (Bombay).

BHARAT SHIVAN KARTAN VIDYALAYA

692, Shivaji Nagar, Pataskar Bldg., Poona 4.

Principal : D. M. Pataskar.

Sanchalak : M. N. Pataskar.

CAMP EDUCATION SOCIETY

(Estd. 1890).

Poona 1.

Life members: G. P. Sohoni, Hon. Secretary, Camp Education Society and Head Master, C.E.S. High School, Poona 1.

V. K. Shrotriya, Head Master, R. D. High School, Poona 2.

COLLEGE OF AGRICULTURE

Poona.

A four-year course leading to the degree of Bachelor of Science in Agriculture—B.Sc. (Agri.)—of the Poona University is given at this College. The college is also fully equipped for Post-graduate instruction leading to the degrees of M.Sc. (Agri.) and Ph.D.

Principal, P. N. Driver, M.A., F.R. Econ. S. (Lond.).

COLLEGE OF ENGINEERING

Poona

Principal, G. V. Vartak, B.E. (Civil), M.I.E. (India).

CO-OPERATIVE TRAINING COLLEGE

(All India Centre)

5, B. J. Road, Post Box No. 32, Poona 1.

Principal, P. M. Chengappa, Dip. Econ., C.M.D. (Mach.), F.R.E.S. (Lond.).

DECCAN EDUCATION SOCIETY

Poona

The object of the Society is "to facilitate and cheapen education by starting, affiliating and incorporating at different places, as circumstances permit, schools and colleges under private management or by any other ways best adapted to the wants of the people." The Society has now 32 life members.

Chairman of the Council and the Governing Body:—H. G. Gharpurey, M.A., I.C.S. (Retired); *Secretary*:—Prof. V. V. Apte, M.Sc. Fergusson College, Poona.

The Society's Institutions are the following:—The Fergusson College, Poona: *Principal*—Prof. S. V. Kogekar, B.Sc. (Econ.) (Lond.); The Willingdon College, Sangli: *Principal*—Prof. G. L. Chandratraya, M.A., B.Sc. (Bom.), M.A. (Cantab.); The Brihan Maharashtra College of Commerce, Poona: *Principal*—Dr. A. R. Kanaf, M.Sc., Ph.D.; The D. E. Society's Bombay College: *Principal*—Prof. M. G. Bhate, M.A., B.Sc. (Lond.); The New English School, Tilak Road, Poona 2: *Superintendent*—Prof. P. N. Virkar, M.A., B.T., T.D. (Lond.); The New English School, Ramanbag, Poona: *Chairman, Standing Committee*; Prof. R. S. Joag, M.A.; The New English School, Satara: *Superintendent*, Dr. D. N. Gokhale, B.A. (Hons.), Ph.D., B.T.; Maoji Madhavji High School, Umbargaon: *Chairman, Standing Committee*—Prof. D. D. Vadekar, M.A.; Dravid High School, Wai: *Chairman, Standing Committee*—Dr. V. N. Dhavale, M.A., B.Phil. (Oxon); Ahilyadevi High School for Girls, Holkar Wada, Poona: *Chairman, Standing Committee*—Prof. K. V. Kelkar, M.Sc.; The Navin Marathi Shala, Poona: *Chairman, Standing Committee*—Prof. S. R. Parasnis, M.A.; Justice M. G. Ranade Balak Mandir, Poona: *Chairman, Standing Committee*—Prof. S. R. Parasnis, M.A.; Technical Institute (attached to Fergusson College), Poona: *Chairman, Standing Committee*—Dr. V. A. Patwardhan, M.Sc., Ph.D.

The total number of students in the institutions of the Society exceeds 13,000.

D. E. SOCIETY'S AHILYADEVI HIGH SCHOOL FOR GIRLS

Holkar Wada, Poona 2.

Principal : Miss Sindhu Dinkar Sawarkar.

D. E. SOCIETY'S BRIHAN MAHARASHTRA COLLEGE OF COMMERCE

Poona 4.

(Affiliated to the Poona University as a Constituent Degree College)

The Deccan Education Society, Poona, established in 1884, started this college in June 1943. It is a First grade College teaching upto M. Com. Degree examination. The Brihan Maharashtra Sugar Syndicate, Ltd., Poona, gave a munificent donation of Rupees two lakhs towards the building fund of the college. The trustees of the Sir Dorabjee Tata Trust have donated Rs. 50,000 for the construction of an Assembly Hall for the college.

Since 1952, the college has been housed in its own buildings situated on a plot of ground near the Servants of India Society's Home. The buildings include the J. N. Tata Assembly Hall.

Principal : N. A. Mavlankar, M.A.

D. E. SOCIETY'S NAVIN MARATHI SHALA

Shaniwar Peth, Poona 2.

Superintendent.—P. V. Sane, B.Sc., B.T.C.

It is a primary school consisting of the first four Standards only.

Special features:—(i) Provision for drawing, clay-modelling, gardening, singing, sewing and various games (ii) reading room for children; (iii) A separate department for giving first aid to pupils.

FERGUSSON COLLEGE

Poona

Principal.—S. V. Kogekar, B.A., B.Sc. (Econ.) (Lond.).

GANDHARVA MAHAVIDYALAYA

Academy of Indian Music.

495, Shanwarpath, Poona 2.

Principal: Prof. D. G. Marathe; *Vice-Principal*: Prof. P. R. Pandit; *Secretary*: Prof. L. N. Ichalkaranjekar.

JUSTICE M. G. RANADE BALAK MANDIR

Shanwar Peth, Poona 2.

Superintendent, P. V. Sane, B.Sc., S.T.C. *Asst. Supdt.*: Leelabai Gokhale, B.A., B.T., B.A.P.

Children admitted are between the ages of 3½ and 6. Strength of the school is over 200.

LAW COLLEGE

Poona

Principal:—Ganapati Vishnu Pandit, M.A., LL.M.**MAHARASHTRA EDUCATION SOCIETY'S COLLEGE OF ARTS AND SCIENCES**

Poona 4.

Prof. M. N. Bhat, M.A., L.T. is the principal of the college and Prof. N. S. Jamadagni, M.A., B.T. is the vice-principal.

MAHILASHRAM HIGH SCHOOL

Hingne Budruk, Poona 4.

The Mahilashram High School is now a boarding school. There are nearly 425 girls in the high school, who are being prepared for the S.S.C. examination of the S.S.C.E. Board. A special tailoring class recognised by the Board of Technical Education, Government of Bombay, is conducted for the pupils. The school was selected for multipurpose schools in Home Science for June '58.

THE NATIONAL MODEL SCHOOL

Aga Khan Palace

Poona No. 6

(Residential School)

Co-educational residential school, prepares boys and girls for the S.S.C. Examination, Bombay. Special attention given to boys who desire to make army as their career. Fees: Rs. 1,300 per year.

NEW ENGLISH SCHOOL

Tilak Road, Poona 2.

Instruction in producing hand-made paper, A.C.C., vocational guidance centre, scouting, poor boys' shop, educational experiments (one of these selected by the All-India Council for Secondary Education) are some of the many salient features of the school. The strength of the school, at present, is about 1,400.

The school has a Planetarium, the only one of its kind in Bombay State.

Superintendent.—Prof. P. N. Virkar, M.A., B.T., T.D. (Lond.).**NOWROOJEE WADIA COLLEGE**

Poona 1.

Established in 1932, teaches degree courses in Arts and Science faculties. Housed in well equipped modern buildings on its own premises, has an extensive playground, a gymkhana pavilion, a students' dining hall, an assembly hall and a hostel for 250 men students and 50 lady students.

Principal.—P. B. Damle, M.A., LL.B.**PROGRESSIVE EDUCATION SOCIETY**

Shivajinagar, Poona 5.

The society's institutions are: The Modern High School was started in 1934; The 'Prathamik Vidyamandir' is a primary school; The Sir Sassoon David Hostel and The Girls' High School.

QUEEN MARY'S TECHNICAL SCHOOL FOR DISABLED INDIAN SOLDIERS

Park Road, Kirkee

Patron:—The President of the Indian Republic.

Superintendent:—M. K. Kelavkar, F.R.C.P., O.B.E., I.M.S. (Retd.). Training is free as are food, accommodation and clothing. Allowance of Rs. 12 p.m. in addition to pension. Free railway warrants.

SHIKSHANA PRASARAKA MANDALI

Sir P. College Bldgs., Poona 2.

The Mandali (Society) now conducts the following institutions:—

Nutan Marathi Vidyalaya Marathi Shala, Poona; Shishu-Shala, Poona; and Girls' Primary School, Poona; Nutan Marathi Vidyalaya High School, Poona; Sir Parashurambhau College, Poona; Haribhai Deskarani High School, Sholapur; Mimansa Vidyalaya, Poona; Ramanarain Rula College, Bombay; Ramniranjan Anandilal Pudar College of Commerce and Economics, Bombay; Tilak College of Education, Poona; (& Vinayakumar Ramniwas Rula Mook Badhir Vidyalaya and Extension Services Project); Sharirik-Shikshana Vidyalaya, Poona; S.T.C. Institute, Poona.

SHRI SHIVAJI PREPARATORY MILITARY SCHOOL

Poona 5

The School, which was founded in September 1932, is a member of the Indian Public Schools' Conference. Admission is open to boys of all castes and creeds, from the age of 5 to 14 years. There is a Montessori Section, a Primary School consisting of four standards, and the Secondary School which prepares the boys for the Bombay State's S.S.C. examination. Training is also given to prepare the boys for the U.P.S.C. examination for entry into the N.D.A. The School has 370 boys. The Bombay Government has endowed three full scholarships every year for the School. Terms begin in June and November.

The School has extensive playgrounds covering 25 acres. There is a riding school, hockey, football and cricket fields, a swimming pool, squash and tennis courts, and a miniature rifle range. The School runs a (Junior) National Cadet Corps.

President:—H. H. The Chhatrapati Maharaja of Kolhapur.*Principal*:—N. L. Khanolkar, M.A.**SIR PARASHURAMBHAU COLLEGE**

Poona 2

Principal, B. V. Bhilde, M.Sc., A.I.I.S.C.**TILAK COLLEGE OF EDUCATION**

In addition the college has a class for the education of deaf children and a training class for teachers of the deaf.

Principal, A. R. Bavdekar, M.A., M.Ed.**LITERARY, SCIENTIFIC AND OTHER INSTITUTIONS****BHANDARKAR ORIENTAL RESEARCH INSTITUTE**

Poona 4.

The Institute was inaugurated on the 6th of July 1917, the 80th birthday of late Dr. Sir R. G. Bhandarkar. Its objects are to publish critical editions of texts and original works bearing on Oriental antiquities, to provide an up-to-date Oriental library, to train students in the methods of research and to act as an information bureau on all points connected with Oriental studies. The valuable library of Dr. Sir R. G. Bhandarkar, which he had bequeathed to the Institute, is now located in the central hall of the Institute. Since April 1918 the Government of Bombay have transferred to the custody of the Institute the unique collection of nearly 20,000 manuscripts together with a maintenance grant of Rs. 3,000 a year. Manuscripts from this collection are lent out to scholars in all parts of the world. Government have likewise entrusted to the Institute a grant of Rs. 12,000 a year for the publication of the B.S.S. and the Government Oriental Series (the latter including, amongst others, Dr. Kane's History of Dharmashastra in five Volumes). The Institute has also started a series called the Bhandarkar Oriental Series in which several works have been already published and others are in progress. The Institute has undertaken to edit Mahabharata critically at the initiation of the late Raja of Aundh who donated a grant of Rs. one lakh for that purpose. The Institute has also received so far about Rs. 33,615 from the trustees of the Mahabharata publication fund, London, earmarked for the publication of the Virata, Udyoga and Karna parvans. More than three-fourth of the work on the critical edition has been completed.

On 25th March 1944, the Institute inaugurated its Mahabharata printing department with a view to expediting the printing of the Mahabharata edition. The Institute issues a journal called *Annals* of the Bhandarkar Oriental Research Institute published normally four times a year. It also held under its auspices the first oriental conference on the 5th, 6th and 7th of November 1919 under the patronage of Sir George Lloyd and the presidency of Sir R. G. Bhandarkar.

The Institute is housed in a fine, commodious and fire-proof building. Since August 1927 the Institute had been conducting for several years regular M.A. Classes in Sanskrit, Pali, Ardhama-gadhi and ancient Indian culture. The Sanskrit department of this Institute has been affiliated to the University of Poona and students are being coached for the M.A. and Ph.D. degrees of the above mentioned University. Lectures by eminent scholars are also delivered occasionally. Membership dues Rs. 10 a year or Rs. 100 compounded for life. Members can, subject to certain conditions, borrow books from the library and get the *Annals* free, and other publications (a list covering over 120 titles sent free upon request) at concession rates.

Hony. Secy., Dr. R. N. Dandekar. *Curator*: Dr. P. K. Gode.**BHARATA ITIHASA SAMSHODHAKA MANDALA, POONA**

1821, Sadashiva Peth, Poona 2.

Founded in 1910 by the late Mr. V. K. Rajwade and Sardar K. C. Mehendale and registered under Act XXI of 1860 in 1910 with the object of collecting and conserving historical materials in their

broadest sense, erecting suitable buildings for preserving and exhibiting them, publishing such materials and other works of historical and cultural interest and generally to encourage and foster critical study of, and research in, Indian history and culture. Possesses the best collection of Persian and Marathi historical papers owned by any public society. Has a rare collection of about eighteen thousand manuscripts and over a thousand old Indian paintings now housed in a special wing. Maintains a coin cabinet and an armoury of old weapons. Has a section for copper-plates, sculptures, archaeology and has a library of general, historical and rare books. Holds fortnightly and annual meetings where notes and papers based on original documents are presented, discussed and afterwards published. The Poona City research section of the Mandala does research on the city and publishes the findings. Has published several volumes of original historical letters and other historical and literary works whose total number exceeds 97. Conducts a quarterly journal devoted to research running into 38 volumes. Has done some excavation work at Karad and got finds of the 2nd Century B.C.-2nd Century A.D. Work done mostly in Marathi. Celebrated the Silver Jubilee by calling the first All-India Modern History Congress in 1935. Has been receiving some annual grants from the Governments of Bombay and India. In recent years the two Govts. and the University of Poona have helped the Society for its eight cataloguing, compilatory and publication schemes out of which one viz. The Detailed Chronology of Maratha History is likely to last for fifteen years and will require a minimum expenditure of a lakh of rupees. Very recently the Govt. of Bombay have donated a lakh of rupees towards the extension of its existing building for the proper preservation and exhibition of its collections. Was supported by many Rajas, Jagirdars Sardars and the public. The late Dr. J. E. Abbot of New Jersey, U.S.A., left by will a gift of 30,000 dollars to the Mandala for buildings, etc. Annual membership fees for various classes are Rs. 3, 6, 12, 25, 75, and 150 which can be compounded for life by paying, Rs. 50, 125, 250, 500, 1,500 and 3,000. Effective members over 1,000; Annual income averages between 10 and 12 thousand rupees.

President: Maloji Rao Naik Nimbalkar; *Vice-Presidents:* S. B. Dhavale, Sardar G. B. Patwardhan and Raja S. R. Panta Sachiva of Bhor; *Chairman:* Mahamahopadhyaya Prof. D. V. Potdar, M.A.; *Secretaries:* G. H. Khare, S. N. Joshi; *Treasurer:* G. N. Mujumdar.

CENTRAL TRAINING INSTITUTE FOR INSTRUCTORS

Aundh Camp (Poona).

Principal: B. S. Randhava, M.A., B.Sc. (Eng.), M.I.E.E.; *Registrar:* N. Natarajan, B.Sc. (Hons.); *Senior Master, Principles of Teaching:* E. G. Menon.

D. A. APTE MEMORIAL INSTITUTE

C/o B.I.S. Mandal, Sadashiv Peth, 313 A, Poona 2.

President: M. M. Prof. D. V. Potdar; *Secretaries:* Prof. R. V. Oturkar, S. N. Joshi.

DECCAN COLLEGE POST-GRADUATE AND RESEARCH INSTITUTE

Yeravda, Poona 6.

The Institute is a constituent recognised institute of the Poona University. The property vests in the Deccan College Poona Trust created by the Government of Bombay in 1938. Its administration is vested in a Council of Management consisting of three ex-officio members and nine others nominated by Government. The Vice-Chancellor, Poona University, is the ex-officio Chairman of the Council.

The Institute conducts post-graduate research in Linguistics and History having in all eight chairs in these two subjects. In the department of Linguistics, the Institute has embarked upon a monumental project of preparing a Dictionary of Sanskrit on Historical Principles comparable to the great Oxford English Dictionary. Fundamental training in field methods and descriptive linguistics is also being given through organising of summer and winter schools of linguistics. In the department of History, Prehistoric Archaeology, Caste Surveys and Anthropometric work are some of the principal features.

The Institute publishes its researches in its Bulletin issued about four times a year and in the Monograph, Dissertation and Handbook series, as well as the Vak—a special bulletin of the Sanskrit Dictionary Department from time to time.

STAFF

Director:—Dr. H. D. Sankhala, M.A., LL.B., Ph.D. (London); *Professors:*—M. A. Mehendale, M.A., Ph.D.; A. M. Ghatge, M.A., Ph.D.; Mrs. I. Karve, M.A., Ph.D. (Berlin); *Readers:*—C. R. Sankaran, M.A.; B. K. Apte, M.A.; H. S. Bilgiri, M.A.; Dr. Y. B. Damle, M.A., Ph.D.; S. B. Deo, M.A., Ph.D.; N. G. Kalelkar, M.A., D. Litt. (Paris); *Lecturers:*—K. D. Bauerjee, M.A., Ph.D.; M. S. Mate, M.A., Ph.D.

Director on special duty as General Editor-in-charge of the Sanskrit Dictionary Dept.—Dr. S. M. Katre, M.A., Ph.D. (Lond.).

INDIAN CHILD EVANGELISM FELLOWSHIP

2, Jubilee Road, Poona 1.

General Secy. and Director for N. India: Miss M. Barden; *Director for Bombay State:* Miss E. Eastling; *Director for S. India:* G. C. Ravenhill.

INSTITUTE OF ARMAMENT STUDIES

Kirkee, Poona 3.

Dean: Prof. C. H. Smith, C.B.E., M.Sc., M.I.E.E.; *Military Director of Studies:* Brig. S. K. Thadani; *Dy. Dir. of Studies (Air):* Gp. Capt. F. C. Croce.

KAIVALYADHAMA SHREEMAN-MADHAVA-YOGA-MANDIRA SAMITI

Kaivalyadhama, Lonavla (C.R.).

Institute for teaching of and research in yoga. Students are paid stipends and no fee is charged. Only persons with a degree are accepted as students. Recognised by the Central & Bombay Govts.

Director: Swami Kuvalayananda; *Head of Philosophical-Literary Research Department:* Dr. S. A. Shukla, M.A., Ph.D.; *Head of Scientific Research Department:* Dr. P. V. Karambelkar, M.Sc., Ph.D.

LINGUISTIC SOCIETY OF INDIA

C/o Deccan College, Poona 6.

(Head Office at Ashutosh Building, Calcutta).

Aims and Objects: The advancement of the Scientific study of language and the promotion of Linguistic studies in India.

President: Dr. Dharendra Varma, M.A., D.Litt.; *Treasurer:* Dr. S. M. Katre, M.A., Ph.D. (London); *Secretary:* Dr. M. M. Patkar, B.A., LL.B., Ph.D.

LOCAL SPIRITUAL ASSEMBLY OF THE BAHAI'S OF POONA

P.O. Box No. 8, National Hotel, Opp. Railway Station, Poona 1.

LORD REAY MAHARASHTRA INDUSTRIAL MUSEUM

Poona 2.

The affairs of the museum are managed by a Board of Trustees, which was incorporated by Bombay Act No. XXXII of 1947 and consists of 15 members.

GRANTS: Government of Bombay Rs. 20,500. Poona Municipal Corporation Rs. 7,500.

MUSEUM EDUCATION: Lectures on technical and industrial subjects are arranged for schools and the public with the help of visual aid. Show-cases containing displays are circulated in schools.

TECHNICAL AND INDUSTRIAL LIBRARY: This has, on regular file, 250 periodicals and contains about 7,000 books. It is recognised by the Government of India, as an inspection centre for Patent literature. It has over 55,000 Patent specifications.

EMPORIUM OF ARTS AND CRAFTS: This is the Industrial and Commercial Division of the Museum established for the propagation of the well-known Arts and Crafts and the Cottage Industry products from all over India.

MUSEUM OF AGRICULTURE AND FORESTRY: Classes in practical training in agriculture are conducted for school boys, and products of agriculture and Forestry, which are industrially important, are exhibited.

The Museum brings out several useful booklets about the various displays and allied subjects and several leaflets and booklets are collected and distributed gratis.

The Museum organises small but educationally important exhibitions such as artificial flowers, patents, tools, trade samples, books, wild life, etc.

Curator: G. B. Sardesai, B.Sc. (Hons.), B.Sc. (Ind. Chem.).

POONA BHARAT GAYAN SAMAJ

#61, Sadashiv Peth, Near Shani Par, Poona 2.

President: Master Krishnarao Phulambrikar; *Chairman:* S. V. Kelkar; *Secretaries:* V. V. Kelkar, S. K. Vaidya.

POONA UNIVERSITY EMPLOYMENT BUREAU

Ranade Institute, Poona 4.

Chairman: Dr. Sir R. P. Paranjpye, M.A. (Cantab.), D.Sc., D.Litt.

MAHARASHTRA MUDRAN SHALA

17#6, Sadashiv Peth, Poona 2.

Technical & Industrial School.

Chairman: Dr. G. S. Khair, M.A., Ph.D.; *Superintendent:* D. D. Gangal, M.Sc. and *Manager of the Promoter Printing Press:* Prof. S. D. Chitale, M.A., B.T.

MAHARASHTRA KARKHANDAR SANGH

#2 5, Sadashiv, P.B. No. 533, Poona 2.

President: D. B. Phatak; *Secretary:* N. K. Paranjpye; *Organiser & Representative:* N. G. Apte.

MAHARASHTRIYA KALOPASAK

632, Shanwar Peth, Near Appa Balawan Chauk, Poona 2.

President: Mahamahopadhyaya Datto Waman Potdar; *Hon. Treasurer:* B. T. Pandit; *Hon. Secretaries:* P. R. Vaze and S. S. Marathe.

VAIDIKA SAMSODHANA MANDALA

Tilak Smarak Mandir, Tilak Road, Poona 2.

A literary institution for the study, research and publication of Vedic and Iranian literature.

President : Dr. M. S. Aney ; *Vice-President* : MM. D. V. Potdar ; *Secretary* : N. S. Sontakke ; *Jt. Secretary* : C. G. Kashikar.

VANITA KAL NIKETAN

486, Budhwar Peth, Poona 2.

Lady Superintendent : Smt. Yesubai Digambar Kadu ; *President* : Shankar Govind Lombar ; *Secretary* : Vasudeo Digambar Kadu.

VIRUS RESEARCH CENTRE (INDIAN COUNCIL OF MEDICAL RESEARCH)

20A, Wellesley Road, Poona 1.

Director : Dr. Telford H. Work ; *Deputy Director* : Dr. Harold Trapido.

BENEVOLENT INSTITUTIONS**CENTRAL HOSPITAL FOR MENTAL DISEASES**

Yeravda, Poona 6.

Dr. Shantli Sheth, M.B.B.S., D.P.M., B.M.S., Class I, *Superintendent* (Res. Tel. : 2514) ; Dr. S. K. Das, B.M.S., Class II, *Deputy Superintendent*. The institution admits patients suffering from mental disease. The authorised accommodation is 1,297. But the present strength is 2,403. The Hospital can be reached by bus, tonga, or taxiriksha from the Railway Station. Telephone No. 2515.

HINGNE STREET-SHIKSHAN SAMSTHA

Hingne Budruk, Poona 4.

Founded in 1896 by Dr. Dhondo Keshav Karve for social and educational work.

Branches :*Hingne Centre* :—Mahilashram High School.

Parvatibai Training College for Women.

Anandibai Karve Primary School with a branch at Kothrud Village.

Four hostels for pupils belonging to all castes and creeds, rich and poor.

Poona : Nursery School.

Nursery Training Institution.

Satara : High School for Girls.*Wai* : High School for Girls.

Annual Expenditure : Rs. 3,79,777.

Deficit of about Rs. 17,189 to be met from contributions.

Secretary, B. D. Karve.**INDIAN INSTITUTE OF SOCIAL ORDER**

St. Vincent Street, Poona 1.

Aims and Objects :—To spread the social teachings of the Catholic Church ; to provide theoretical and practical training for social workers ; to serve as a centre of information about Catholic social works.

Its diploma in social service is now recognized by Government.

Director, Rev. A. Lallemand, S.J.**MAHILA KALA MANDIR**

623/33, Sadaashiv Peth, Deshmukh Wadi, Poona 1

Superintendent : Smt. Indirabai Pendse.**NAGARIK SANGHATANA SAMITI**

Ration Godown, Lahore Shed No. 2, Poona 5.

A social welfare organization interested in slum welfare.

President.—Mrs. N. D. S. Captain.*Gen. Secretary*.—Mrs. Dwarki Motwani.**POONA ANATH VIDYARTHI GRHA**

1788, Sadaashiv, Poona 2 and Paneshvati, Nasik.

It conducts free boardings, a free high school (Poona), free reading rooms, and some industrial concerns including the Loksangraha Press and publication (Poona).

POONA SEVA SADAN SOCIETY

613-614, Sadaashiv Peth, Poona City.

Its principal objects are :—(1) to impart to women instruction of a religious, literary, scientific, medical and industrial character and (2) to widen the range of their knowledge by various agencies and to make them self-reliant. The Society has a hostel in Poona accommodating about 200 women. There are 8 different departments. The total number of women on the rolls at the various centres of the society is about 3,000.

SASSOON HOSPITALS

Poona.

Founded in 1867 the hospitals comprise General, and Out-patient Departments and have 600 Allopathic beds and 20 Ayurvedic beds.

Persons whose income is below Rs. 180 p.m. are treated free. A Nursing Home caters for persons with income above Rs. 300.

Civil Surgeon, Poona : Dr. C. L. Modi, M.B.B.S., F.R.C.S., B.M.S.C.I. I ; *Resident Medical Officer* : Smt. E. P. Bhaskar, M.B.B.S., B.M.S.C.I.II.

SERVANTS OF INDIA SOCIETY, POONA 4.

Its objects are to train national missionaries for the service of India and to promote, by all constitutional means, the interests of the Indian people. Its present strength is 19. The Society has its headquarters in Poona with branches at Madras, Bombay, Allahabad and Nagpur, and other centres of work at Calicut in Kerala State ; Shendurjana in Madhya Pradesh ; Ambala in the Punjab (India), Cuttack and Raigada in Orissa.

The Society's work is primarily political but it has always laid equal emphasis on social, economic, educational, labour and depressed class activities and has worked in these fields.

The Society is also doing tribal welfare work in the Mirzapur Dist. (U.P.), Orissa and in Malabar* on a considerable scale. During recent years several members of the Society have paid special attention to rural reconstruction, including rural education.

Dr. H. N. Kunzru is the President, and S. G. Gokhale, the Secretary.

ASSOCIATIONS ETC.**BOMBAY STATE HORTICULTURAL DEVELOPMENT ASSOCIATION**

Horticultural Section, College of Agriculture, Poona 5.

President : Dr. G. S. Cheema, D.Sc., I.A.S. ; *Secretary* : D. G. Shembekar ; *Technical Adviser* : N. Gopalakrishna.

BOMBAY STATE POULTRY ASSOCIATION

C/o Poultry Development Officer, Government of Bombay, Poona 3.

CENTRAL WATER AND POWER RESEARCH STATION

No. 20, Bombay Poona Road, Poona 3.

Director : M. G. Hiranandani ; *Dy. Director* : S. C. Desai ; *Chief Research Officer* : C. V. Gole.

INDIAN HOCKEY FEDERATION

C/o National Model School, Agakhan Palace, Poona 6.

President : Ashwini Kumar ; *Hon. Secy* : N. D. Nagarvala ; *Hon. Treasurer* : S. M. Salt.

INDIAN MEDICAL ASSOCIATION

Association House, 992, Shukrawar Peth, Poona 2.

President : Dr. R. D. Pendse, M.B.B.S. ; *Jt. Hon. Secretaries* : Dr. N. A. Kango, L.C.F.S., Dr. M. G. Bhilde, B.Sc., L.C.F.S., D.I.M.S.

MAHARASHTRA ASSOCIATION FOR THE CULTIVATION OF SCIENCE

Law College Bldgs., Poona 4.

Director : Dr. S. P. Agharkar ; *Jt. Director* : Prof. M. N. Kamat ; *Hon. Cytogeneticist* : Dr. G. B. Deodikar.

MAHARASHTRSEVA MANDAL

(Est'd. 1924).

Tilak Road, Poona 2.

Aims and Objects :—The aims and objects of the institution are to promote and spread physical education.

The Mandal conducts Physical Training Classes, Swimming Classes, Rifle Club and Coaching Classes for entry to the National Defence Academy.

Fees & Memberships—Patron (Rs. 1,000), Life-member (Rs. 500), Benefactors (Rs. 250), Permanent Member (Rs. 101).

President.—Dr. R. P. Paranjpye.**MAHARATTA CHAMBER OF COMMERCE AND INDUSTRIES**

Tilak Road, Post Box No. 525, Poona 2.

The Maharashtra Chamber of Commerce and Industries, founded in 1934, is an institutional organization representing the economic, commercial and industrial interests of Maharashtra. It has its representatives among others on the Board of Trustees of the Lord Ravi Maharashtra Industrial Museum, Poona, State Industries Advisory Council, Zonal Railway Users Consultative Committee of S. Rly., Port Import Advisory Committee, Bombay, Poona University Court, Poona, Post & Telegraph Advisory Committee, Bombay, etc. Members of the Chamber are drawn from different parts of Maharashtra and a few from Gujarat, Karnatak and W. Bengal. Every year the chamber awards G. S. Parkhe Industrial Merit prizes and organises the G. P. Ogale Memorial Lectures on economic subjects. It also conducts a Marathi Magazine "The Sampada."

* Kerala.

President, S. L. Kirloskar; *Chairman*, D. V. Potdar; *Vice-Presidents*, G. R. Sathe; G. P. Upadhye; M. S. Parkhe; *Treasurer*, S. S. Marathe; *Hon. Secretary*, A. R. Bhat; *Asst. Secretary*: D. N. Deshpande.

THE POONA MERCHANTS' CHAMBER

185, Bhavani Peth, Poona 2.

President: Uttamchand Bhikamdas Pokarna; *Vice-President*: Narayandas Govinddas; *Secretary*: Chhimanlal Panachand Shah; *Jt. Secretary*: Kuberdas Dayashankar.

THE POONA PRESS OWNERS' ASSOCIATION LTD.

1078, Sadashiv, Poona 2.

Present Membership is 126. It conducts a Marathi Monthly *Mudran Prakash* which discusses problems relating to the industry and maintains a Printers' Library. It also conducts for the members, "Mudran Sahitya Bhandar", a shop of printers' requisites. It also manufactures "Service Roller Composition" of all grades for the

printers. Started in 1959 a training class in printing technique. It has also arranged a series of lectures etc., for the workers.

President: K. L. Munot; *Vice-President*: R. N. Sarnaik; *Secretaries*: V. A. Badve, V. G. Mate.

SPINNING AND WVG. MILLS

RAJA RAHADUR MOTILAL POONA MILLS, LTD. (formerly Poona Cotton & Silk Manufacturing Co., Ltd.), Spindles 26,180, Looms 550; *Agents*: Mukundlal Bansilal & Sons, Hamam House, Hamam Street, Fort, Bombay. Mills at 5, Raja Bahadur Motilal Road, Poona 1.

† **RAJA RAGHUNATHRAO MILLS**, Spindles 852, Looms 41; *Owners*: Maharashtra Textiles, Ltd. Office on Mill premises. Mills at Bhor, P.O. Bhatgar, Dist. Poona.

† **SHRI LAXMI TEXTILE MILLS LTD.**, Spindles 4,176; *Agents*: Bhor Mercantile Agency Ltd. Office on Mill premises. Mills at Bhatgar, Dist. Poona.

RATNAGIRI DISTRICT

Headquarters: Ratnagiri.

Talukas: Dapoli, Mandangad, Khed, Chiplun, Gubagar, Sanganeshwar, Ratnagiri, Rajapur, Devgad, Sawantwadi, Malwan.

Potas: Lanja, Vengurla, Kankavil, Kudal.

Ratnagiri District is bounded on the north by the Kolaba District; on the east by Satara North and Kolhapur Districts; on the south by the Portuguese possession of Goa; and on the west by the Arabian Sea. By the merger of the Sawantwadi State the area and population of the District have greatly increased. The length of the District is about 230 miles, and the breadth between 30 and 40. The District may be described generally as rocky and rugged. Near the coast the land consists of a bare elevated plateau, intersected by numerous creeks and navigable rivers flowing between steep hills. These rivers have along their banks the chief sea-ports and almost all the fertile land of the District. Ten miles or so inland, the country becomes more open; but going in still farther, it is occupied by spurs of the Sahyadri hills. This range itself forms a continuous eastern boundary, running parallel to the coast, at distances varying from 30 to 45 miles. It varies in height from 2,000 to 3,000 feet, though some of the peaks attain an altitude of 4,000 feet. The banks of the rivers produce fine crops of rice in the rains, and of pulse in the cold weather and some of the inland valleys exhibit the utmost fertility even though the soil is, as a rule, poor and barren. The District is densely populated and a large proportion migrate to Bombay in the fair season. The hill slopes are flooded with plantation of Alphonso and other mango grafts. Alphonso mango, the king of fruits, is exported on a very large scale to Bombay and other markets and forms the main money crop of the District. Ratnagiri, the headquarters town, is open and faces the sea. There is no railway connection, and communication is by steamer with Bombay and by motor with Kolhapur 82 miles away. With the construction of the Bombay-Konkan-Goa road by bridging all the rivers and creeks on the way, Ratnagiri is connected with Bombay by direct bus service via Chiplun, Mahad, Dharamtar, etc. This is the only main line of communication in the rainy season and will be turned into a national highway and cement concreted. This transport service is now taken over by the State.

The area of the District is 4,983 sq. miles. The population of the District (according to the 1951 census) is 1,711,964.

DEVGAD EDUCATION BOARD

Devgad (Dt. Ratnagiri)

(Main office: C/o Dr. Rega's Dispensary, 173, Kandewadi, Bombay 4).

President: B. D. Sawant; *Chairman, Executive Council*: B. D. Chirputkar, B.Com., Ll.B.; *Jt. Secretary, Local Council*: S. A. Tenkshhe, M.A., M.Ed. (Principal, Sheth M. G. High School, Devgad).

‡ Proprietary Concerns.

EDUCATIONAL INSTITUTIONS

B. P. Gogate College, Ratnagiri.
Alfred Gadney High School, Dapoli.
United English School, Chiplun.
Patwardhan High School, Ratnagiri.
Phatak High School, Ratnagiri.
R. B. Shirke High School, Ratnagiri.
Rajapur High School (composite), Rajapur.
Shet Mafatal Gagalbhai High School, Devgad.
Anant Shiwaji Desai Topiwala High School, Malwan.
Bhandari Education Society's High School, Malwan.
Kudal High School, Kudal.
Rani Parvatidevi High School, Sawantwadi.
N. A. S. D. Vidyalaya, Walawal.
Ganesh Vidyalaya, Ratnagiri.
Vedashala, Ratnagiri.
Sanskrit Pathashala, Ratnagiri.

TRADE ASSOCIATIONS

Shirke Transport Service. Proprietors—R. B. Shirke Brothers.
Hotel Owners' Association. President—B. G. Karkare.
Merchant's Association, Ratnagiri.

CLUBS

Akhil Chitpavan Brahman Vidyarthi Sahayak Mandal, Ratnagiri.
Bhagini Mandal, Ratnagiri.
Mahila Mandal.
Sangeet Mandal.
Rotary Club.
Sarvodaya Chhatra'aya, Ratnagiri.
Geeta Mandal, Ratnagiri.

† Figures taken from 1957 statement.

SABARKANTHA DISTRICT

Headquarters : Himatnagar.

Talukas and Mahals : Himatnagar, Prantij, Modasa, Bayad, Idar, Khedbrahma, Bhiloda, Meshraji, Vijaynagar, Malpur.

The Sabarkantha District is comprised of the former Idar State and 26 other smaller States, together with Prantij Taluka and Modasa Mahal, formerly in Ahmedabad District. It is bounded on the north by Sirohi and Mewar (both in Rajasthan), on the south by Ahmedabad and Kaira Districts, on the east by Dungarpur, Banswara and Mewar all of Rajasthan and Lunawada and Balasinor, now merged with the Panch Mahals and Kaira Districts, and on the west by the new Mehsana District of the former Baroda and Danta States.

The Aravalli Hills border on the north and east. The chief rivers in the District are Sabarmati, Hathmati, Meshwa, Vartak, Marum and Khari.

The area of Sabarkantha is about 2,417 sq. miles and the population 694,017 according to the 1951 census. Himatnagar, the headquarters of the District, was the capital of the former State of Idar and is situated at a distance of 55 miles from Ahmedabad on the Ahmedabad Prantij section, a metre gauge line, on the Western Rly., which leads upto Khedbrahma, a place of pilgrimage 90 miles from Ahmedabad. Idar, Khedbrahma, Shamlaji, Bhavnath, etc. are places of pilgrimage and historical importance.

The average yearly rainfall is between 25 and 80 inches. About 95 per cent of the land is dependent wholly on rain water, while only about five per cent is irrigated by water from wells, streams and canals.

The principal crops are bajri, maize, paddy, jawar, cotton, wheat, sesamum and groundnut, of which maize, bajri, groundnut and cotton cover the larger area under cultivation. About 80 per cent. of the people consist of Bhils and other backward classes. The main occupation of the people is agriculture. The north and north-eastern parts of the District are hilly tracts and abound in jungle. Except for a few ginning factories and oil mills, the District is very backward in industry.

On the Ahmedabad Prantij section of the Western Railway, are situated the following District and Taluka headquarter towns, viz. Prantij, Himatnagar, Idar and Khedbrahma. The rest of the taluka headquarters are connected by buses which ply only during the fair season and most of the roads are katcha and sandy.

The talukas of Bhiloda and Modasa have been brought under the N. E. S. Scheme while the Khedbrahma Taluka and Vijayanagar Mahal, which are scheduled areas, have been brought under the Development Project Scheme.

SATARA NORTH DISTRICT

Headquarters : Satara.

Talukas and Mahals : Wai, Satara, Koregaon, Khatau, Karad, Patan, Jaoli, Man, Phaltan, Khandala, Mahabaleshwar.

On the north it is bounded by the former State of Bhor and Poona District, on the south by Walva Taluka and Shirala Mahal, on the east by the Sholapur District, and on the west by the Sahyadri Hills. The former States of Phaltan and Aundh are merged into the Satara Collectorate.

The population of the District according to 1951 census is 1,175,809 and its area 4,023 sq. miles. The language spoken is Marathi.

From Mahabaleshwar in the north-west corner of the District, 4,717 feet above the sea, start two hill ranges of equal height and nearly at right angles to each other—one the main range of the Sahyadri running towards the south and forming the western boundaries of the District and the other, the Mahadeo range of hills, which, going first in an easterly and then in a south-easterly direction, extends towards the eastern boundary, where it sinks gradually into the plain. These hills throw out numerous spurs over the District, forming the valleys of the several streams which make up the head-waters of the Krishna, one of the largest rivers in South India. Near Mahabaleshwar and in the Koyna valley the hills are the highest in the District and are mostly very well wooded.

The soils of the District belong to the three main classes—red in the hills and black and light coloured in the plains. The black soil, especially along the valley of the Krishna, is fertile but scanty rainfall makes part of Khandala tract in Wai Taluka and that part of the District east of the railway most likely to suffer from failure of crops.

AGRICULTURE

The chief agricultural produce are jawar and bajri. Others include ragi, wari, wheat, rice and pulses. Cash crops which are a minor item include tobacco, groundnut and sugar-cane. Some market gardening is done at Mahabaleshwar and Panchgani for Poona and Bombay markets. Mango, jack and guava are grown for their fruit.

Forests in the Sahyadri range have considerable store of timber and fire-wood. Sandalwood and bamboo are occasionally found.

Government have undertaken the Koyna river project envisaging the construction of a gigantic Dam close to Helwak village (Patan Taluka) water from which can be used for agricultural purposes by people from Satara, Sholapur and Bijapur Districts and for generating electricity for industrial purposes.

Most Taluka towns have High Schools and practically every village has a Free Primary School run with Grant-in-aid. The 'Rayat Shikshana Sanstha', Satara, is doing useful work in this sphere with its Free Cosmopolitan Boarding at Satara, accommodating over four hundred students mostly from rural areas.

This being a martial District, Free Boardings are run by Government at Satara and Karad for the sons and dependents of the Defence Forces in the Army, Navy and Air Forces. 'The After Care Association' and 'The Soldiers' Board' do useful work under the supervision of the Collector.

The main line of communications is the Southern Railway which traverses the centre of the District for about 60 miles from north to south. Satara, the headquarters, is about 10 miles from Satara

Road Station. Then there is the Poona-Bangalore Road, crossing the District from north to south. Other important roads include the Wathar-Mahabaleshwar Road via Wai and Panchgani. Also east to west are the Satara-Pandharpur and the Karad-Chiplun Roads. There are numerous feeder roads for the railway.

There is a large engineering concern manufacturing farm implements, machine tools, and textile machinery at Satara Road Station. Another engineering concern has been established at Udyamnagar near Karad while the one at Karad proper has been expanded with State aid. At Ogalewadi near Karad are the well-known glass works. The Sugar Works at Phaltan also deserve special mention. The Plastic Products of India, Ltd., Satara, a new industry, in the Deccan, has secured State aid.

The State Transport buses now ply on all important roads in the District.

INSTITUTIONS, ETC.

ARYANGLA VAIDYAK MAHAVIDYALAYA

(Ayurved Prasarak Mandali's).

6, Shukrawarpeth, Satara City.

President : Ayurvedic Prasarak Mandali : S. H. Sathe ; **Chairman, Managing Council, A. P. Mundali ;** Dr. V. V. Athalye, A.V.P. ; **Principal, A. V. Mahavidyalaya :** Dr. S. V. Athalye, M.B.B.S.

DECCAN EDUCATION SOCIETY'S NEW ENGLISH SCHOOL SATARA

The school provides for a variety of cultural and commercial subjects and with the help of Government Centre, provides also for technical course upto the S.M.C. Examination. The strength of the school is over 1,400.

Superintendent : Dr. D. N. Gokhale, B.A. (Hons.), B.T., Ph.D.

DHARMAKOSHA MANDAL

P.O. Wai, District North Satara.

Aims : To conduct research in ancient Indian religion, philosophy and culture and edit and publish encyclopaedic works such as Dharmakosha, Mimamsakosha, etc.

Editor-in-Chief : Laxman Shastri Joshi, Tarkateerth.

Secretary : Vasudeo Shastri Konkar.

PRATAPSIKH HIGH SCHOOL, SATARA

It is a multi-purpose high school teaching vocations like Agriculture, Technical and Commerce. Pupils are trained in the practical side of Agriculture and subsidiary industries like poultry keeping and dairying. Also pupils are trained in Technical, Commerce courses and Typewriting. Special features of the school are that the school owns an Agricultural Farm of 22 acres, Agricultural Museum and well-equipped library. It is a Government multi-purpose school.

RAYAT SHIKSHAN SANSTHA, SATARA

(Educational Society for Masses)

Objects & Scope :—To spread education, primary, secondary and higher, among rural masses and particularly poverty-stricken backward and Scheduled Class communities, on the basis of self-help and as far as possible free of charge.

It conducts two Arts Colleges, one B.T. College, six Primary Training Colleges, 43 High Schools, 41 Middle Schools, 31 Primary Schools, 38 Cosmopolitan Boardings and 7 Sanskrit Kendras and 9

other institutions in nine districts of Maharashtra. In addition to this, Science Department was started in Arts College, at Satara since June 1958.

NAGAR VACHANALAYA, SATARA

There are at present 4,762 English, 8,532 Marathi, 653 Hindi and 124 Sanskrit books. There are also 635 monthly files. The Library subscribes to a large number of periodicals including dailies and weeklies from various States. There is a special section for children and ladies. A study room for college students has also been started.

THE SATARA EDUCATION SOCIETY, SATARA

The Society runs two full-fledged High Schools, the Popular English School, Satara, and Shri Laxmi Narayan English School, Khatau and a Model Primary School at Satara. Pre-Primary class was opened in July 1957. Provision for Technical and Commerce education has been made in P.E. schools since June 1954 and July 1958 respectively. The School buildings at Satara and Khatau are under construction.

THE SHIKSHAN MANDAL, KARAD

Maintains (1) The Tilak High School, Karad. (2) Kanya Shala, Karad. (3) The Nutan Marathi Shala. (4) Bal Vidyalaya, Ogalewadi. From 1958 the Mandal maintains "The S.T.C. Institute".

SATYABHAMABAI KALE STREE SHIKSHANA MANDIR, SATARA

The Kanyashala (a high school for girls) and Mahilasadana (adult classes) are managed by the Association. There are about 650 girls in the High School studying for the S.S.C.

Bal Manohar Mandir, a pre-primary School, has been attached to this School. "Mahila Mandal" is a ladies' club. A Hindi Shikshak Sanad is also conducted.

Superintendent.—P. V. Gole, B.Sc., B.T.

SHRI SITA RAMCHANDRA VAIDIC DHARMA PRASARAK MANDAL KANHERE TRUST, SATARA

The trustees run an "AGNIGHOTRA" (Sacred Fire Temple) and "Ved Parayan Mandir" (place for daily recitation of the Vedas) by learned Vaidic priests. A small school for coaching students, with attends, in higher Vedanta Philosophy is maintained under the guidance of learned pandits. Board of Trustees : N. A. Charankar, M.A. (Chairman).

THE VYAYAM MANDAL, SATARA

It is a Govt. recognised Physical training registered institution availed of by students and adults. In appreciation of its long services in the field of physical education, the institution has been permitted to start a C. P. Ed course. It was inaugurated by Mr. Y. B. Chavan, Chief Minister of Bombay on 16th August 1957, the 1857 Centenary day and was named Kranti Smriti Shareerik Shikshan Vidyalaya.

Permission was being sought to start an S.T.C. course from June 1959 in co-ordination with the present C. P. Ed course so as to facilitate the economic completion of both the courses at one and the same time.

MAHABLESHWAR

Mahableshwar in the Satara North District is called the queen of the hill stations in Bombay State. It is situated on one of the great slopes of the Sahyadri range at an elevation of 4,700 feet above sea-level. During the 8 months from October to May the climate is most agreeable. By day the temperature varies between 80 and 86, while the nights are cool and pleasant. But during the monsoon the rainfall is so heavy, the average being about 250 inches a year, that the place is almost uninhabitable. The whole place is picturesque in the extreme and there are a number of excellent walks and drives which give access to beauty spots, some of which contain interesting monuments. One of the things for which the place is famous is fruit especially raspberries and strawberries.

It is possible to have separate furnished rooms, cottages, and bungalows at a cheap rent in the town.

The town contains many bungalows but as the official visit of the Governor has been in suspension for the last few years, Government House and other quarters remain vacant.

It is now possible for people of moderate means to go to the hill station for a comparatively inexpensive holiday and change in the newly opened Holiday Camp set up by the Bombay Government. The Camp is located in the Government House property on the way to the Bombay Point and one-room, two-room and three-room accommodation is available to the public at purely nominal rent. The stay of visitors at the Camp is limited to one week so that the

facilities offered are taken advantage of by as many people in need of a change as possible.

The Camp is served by a vegetarian canteen, tap water and electric lighting. It is normally thrown open during the months October to May, and applications for accommodation have to be addressed to the Executive Engineer, Poona Division, Poona.

There are several routes to Mahableshwar but the most popular is the one starting from Poona, from where it is only 75 miles. The journey which is both convenient and cheap takes only 4 hours.

HOTELS

Hotels are open only eight months in the year and are closed during the monsoon.

Asam Lodging & Boarding House.

Dream Land Hotel.

Fredrick Hotel.

Guest House.

Happy Home.

Krishna Bhuvan Hotel.

Paradise Hotel.

Race View Hotel.

Rippon Hotel.

House Agents and "Times" Agents : Adurjee & Bros. (Est'd, 1800), Phone : 50.

PANCHGANI

Panchgani is a well known hill station in Satara North District, 68 miles from Poona. It is 4,300 feet above sea-level and has a cool, salubrious and comparatively dry climate. The average rainfall is about 80 inches a year. Panchgani is thus a well known sanatorium.

The town abounds in beauty spots. It is, however, best known for its table-land, which is a very extensive plateau 4,560 feet above sea-level. The table-land covers 99 acres of ground with a small lake in which people can have a swim.

At the foot of the table-land there is a municipal public garden.

Panchgani is habitable throughout the year, and there are excellent shops for provisions and oilman stores. Poultry, fowl and eggs are all very cheap. The town is electrified and the roads are well lighted.

Panchgani can be reached from Poona from where there is regular bus service.

The town has a large and up-to-date tuberculosis sanatorium—Bel Air Sanatorium.

SCHOOLS

Panchgani is famous for its schools. They all have their own buildings with laboratories, dormitories and hospitals.

St. Joseph's Convent High School for Girls.

Kimmins High School for Girls.

Sanjivan Vidyalaya.

Billimoria High School.

Union High School.

New Era School for Girls.

St. Peter's High School.

Young Zoroastrian School for Girls.

ST. PETER'S BOYS' HIGH SCHOOL

Panchgani.

The School has accommodation for about 170 boarders and 45 day pupils as well as the Principal, staff and matrons.

Special facilities are provided for all kinds of games. Educational equipment includes a talkie film projector.

Principal :—O. D. Bason, M.A.

SATARA SOUTH (SANGLI) DISTRICT

Headquarters :—Sangli.

Sub-Divisions :—Miraj, Khanapur.

Talukas and Mahals :—Miraj, Tasgaon, Walva, Khanapur, Jath, Shirala (Mahal).

With the merger of sixteen Deccan States in Bombay State on March 8, 1948, arose the necessity of re-constituting some of the already existing Districts and creating new Districts in the State.

The new District of Sangli later designated Satara South came into existence on August 1, 1949. The District is comprised of some portions of Sangli, Miraj Sr., Miraj Jr., Aundh, and Jath States of the Sangli Group and the three southern Talukas and one Mahal of the former Satara District. It is included in the Poona Division of Bombay State.

The area and the land revenue of the District are 3,434 square miles and Rs. 22,50,000 respectively. The population of the District according to the census of 1951 is 1,000,141.

The climate of the District is generally dry, and healthy, with an average rainfall ranging from 15 to 25 inches except for parts in the Shirala Mahal, which being on the borders of Konkan has a comparatively damp climate and a heavy rainfall. The Mahal includes a hilly tract.

The Krishna, the Verala, the Warana, and the Agarani are the four important rivers flowing through the District. The soil on the banks of these rivers is very fertile, yielding rich sugarcane crops. Starting from the river Nandhi in the Khanapur Taluka is a canal called Chikili.

The principal crops grown in the District are jowar, millets, pulses, wheat, ground-nut, turmeric, tobacco, sugarcane and a little cotton and rice and some oil-seeds.

The Southern Railway's Poona-Bangalore line runs through the District from Takari right upto Miraj, touching on the way Kirloskarwadi, Bhilavadi, Nandore and Madhavnagar. A branch of the Central (B.L.R.) Railway running from Beral to Miraj touches at a number of places in the Jath Taluka. Miraj is an important railway junction in the District where lines from Poona, Bangalore, Sangli, Kolhapur and Pandharpur converge. From Miraj to Sangli there is a branch of the Southern Railway covering a distance of 6 miles. From Miraj to Kolhapur there is another branch line covering a distance of 30 miles. Two important trunk metalled roads called Karad-Bijapur Road and Tasgaon-Gotur Road run through the District. The State Transport buses regularly ply between Sangli on the one hand and Bijapur, Poona, Kolhapur and Jath on the other.

TRADE, INDUSTRY

Sangli, which is the headquarters of the District, is an important centre of trade and commerce specially for tobacco, groundnuts, turmeric, jaggery, chillies, ghee, and cotton trade. It has spinning, weaving and spinning mills, groundnut, turmeric, iron and steel factories represented chiefly by firms like Kirloskar Bros. at Kirloskarwadi, Dandekar Bros. and Bhide & Sons at Sangli. The town has also oil mills and ice factory. It is also known for its silver, copper and brassware and gold ornaments. There are cloth mills. Bidi making is another big industry.

Besides, Sangli is a big centre of forward-delivery transactions. Sangli Spices and Oil-seeds Exchange Ltd. is the only Government recognised centre for forward delivery contracts in turmeric in India. It has a Chamber of Commerce and a number of trade Associations.

The Government of India has opened a warehouse at Sangli to store agricultural produce. One Co-operative Sugar Factory (the first of its kind in this District), named "Shetkari Sahakari Sakhar Karkhana, with a working capital of more than Rs. 1½ crore was started in 1958 at Sangli.

Being a railway junction, Miraj is now commercially developing. It has a weaving mill, an oil mill, an ice factory and industrial works called The Yashvant Industrial Works. Another town Maigaon is famous for its beetle-leaves, which are exported throughout the year to all parts of India.

EDUCATION

The District is sufficiently advanced in point of education—primary, secondary and higher. Compulsory Primary Education has been introduced in Tasgaon, Khanapur and Walva Talukas and Shirala Mahal. It has been extended to the merged areas of the former States. There are 920 primary schools with 3,978 teachers in them. The total number of pupils is 145,759 of whom 16,073 are girls. There are 496 social education classes, and a school-cum-community centre at Nandore village, seven miles from Sangli. There are 8 pre-primary schools and 60 basic schools with 23,000 students in the latter. The number of secondary schools is 56, with about 11,785 pupils. There is also a Sanskrit Pathashala at Tasgaon. In the matter of higher education the District has one Arts & Science College, one Engineering College, four Primary Teachers' Training Colleges and one Nursing School. One Pre-primary Teachers' Training College was recently started in Sangli.

Sangli, Madhavnagar and Miraj especially which are in close proximity to one another are now rapidly developing into important educational and industrial centres in Southern Maharashtra. The Raja of Sangli has established at Sangli the "Adhyatma Vidya Mandir", an institution solely devoted to the study of Philosophy, Religion and allied pursuits. There are two Primary Teachers' Training Colleges, one for men and the other for women at Sangli. There are also five High Schools in the city. There is a school for the study of ancient learning and another for the study of domestic sciences. There are also four Montessori schools. Miraj has four High Schools. The Deccan Education Society started about 30 years ago the Willingdon College at Sangli which provides instruction in Arts and Sciences and prepares students for degree courses. In 1947 the Maharashtra Technical Education Society, Poona, started at Sangli the New Engineering College which is now named as Walchand College of Engineering, Sangli.

Because of the Mission Hospital (Wanless Hospital), run by the American Presbyterian Mission and founded by the late Sir William Wanless, Miraj has become one of the most up-to-date and efficient medical centres in India. The Sir William Wanless Tuberculosis Sanatorium, at Wanlesswadi, is now the largest among first grade sanatoria in India. Besides the T. B. Sanatorium there is a Leprosarium at Miraj. The Miraj Medical Centre also runs a Nursing School and a Compounding School.

AKHIL MAHARASHTRA NATYA VIDYA MANDIR SAMITI
Harbhat Road, Sangli.

President : S. V. Kirloskar ; **Vice-President** : V. G. Bhawe, B.E., M.I.E. ; **General Secy.** : J. G. Godbole, LL.B.

DISTRICT INDUSTRIAL CO-OPERATIVE ASSOCIATION LTD.
SATARA SOUTH, SANGLI

President, B. A. Daftardar ; **Vice-President**, S. A. Patil.

CHAMBER OF COMMERCE,
SANGLI

President, M. S. Karale.

Secretaries, G. N. Shah ; M. N. Shah.

SPICES AND OILSEEDS EXCHANGE LTD. WAKHAR BHAG,
P. BAG No. 105, SANGLI

The only association in India recognised by the Central Government for regulating and controlling forward contracts in turmeric.

Chairman : G. K. Negandhi.

Vice-Chairman : K. B. Shah ; **Secretary** : M. R. Purandare, B.A., LL.B.

MAHILA VIDYALAYA
Peth Bhag, Sangli.

Chairman : V. K. Kelkar, B.E., M.I.E. ; **Secretary** : V. G. Gokhale, B.Sc., B.T. ; **Superintendent** : V. G. Shiralkar, M.A., B.T.

MIRAJ MEDICAL CENTRE, MIRAJ

There are specialised departments of general surgery, orthopaedic surgery, chest-surgery, medicine, infectious diseases, pediatrics, cancer, psychiatry, eye-ear-nose and throat and urology in the Wanless Hospital. **Medical Superintendent**, Dr. W. A. Cecil.

School of Nursing (1897) :—Training in general nursing and midwifery under Bombay Nursing Council.

RANI SARASWATIDEVI KANYASHALA, SANGLI

The High School is managed by the Women's Education Society, Sangli.

The School provides education to girls only upto the courses of the S.S.C. Examination of the Bombay Government. The School has made provision for the Home Science Course from 1955. The present strength of the school is 658.

WALCHAND COLLEGE OF ENGINEERING, SANGLI

The Walchand College of Engineering conducts classes for Civil, Mechanical and Electrical Engineering up to B.E. Degree and Diploma classes in all the three branches of Engineering. The College is fully equipped and has accommodation for about 200 students on the College premises. **Principal** : V. K. Kelkar.

WILLINGDON COLLEGE, SANGLI (S.M.C.)

The College, affiliated to the Poona University, provides instruction in all major subjects for under-graduate, graduate and post-graduate classes and courses on the arts as well as the science side. It has more than 1,537 students (1,367 boys and 170 girls) on the rolls and has a hostel.

Principal : G. L. Chandratreya, M.A., B.Sc. (Bom.), M.A. (Cantab.).

Y.M.M.B. SOCIETY, SANGLI

The Society conducts a full-grade High School and a Primary School.

THE SIE WILLIAM WANLESS TUBERCULOSIS SANATORIUM, WANLESSWADI

The Sanatorium is situated in the western Deccan two miles west of Miraj and three miles east of Sangli, and is 160 miles south of Poona on the metre gauge section of the Southern Railway. It has its own railway station Wanlesswadi—just at the main gate and a Post and Telegraphs Office, Wanlesswadi, with trunk telephone facilities within its premises.

Up-to-date surgical and medical treatment, including all types of pulmonary resections, is given for all types of tuberculosis to patients irrespective of caste, creed or nationality.

Total bed strength above 450.

Director of Surgery and Medical Superintendent: Dr. A. G. Fletcher.

Secretary: D. S. Gorda.

RICHARDSON LEPROSY HOSPITAL

Miraj Mission Hospital P.O., Miraj.

Hon. Supdt.: A. G. Fletcher, Jr. M.D., F.A.C.S., F.R.C.S.; *Consultant in Orthopaedic Surgery:* J. R. Donaldson, M.D., F.A.C.S.; *Medical Officer:* W. B. Shitalkar (M.F.).

COTTON MILLS

† JANATA SPINNING MILLS LTD.—Spindles 6,324; Agents: V. R. Velankar & Sons Private Ltd., Office on Mill premises. Mills at Sangli.

MADHAVNAGAR COTTON MILLS PRIVATE LTD.—Spindles 13,640, Looms 63; Managing Agents, The Budhgaon Trading Co. Private Ltd., Office on Mill premises. Mills at P.O. Madhavnagar (Southern Rly.).

†† MARATHE TEXTILE MILLS.—Spindles 5,412; Proprietors, B. K. Marathe & Sons, Office on Mill premises. Mills near Railway Station, Miraj.

†† SHREE BALAJI SPINNING & WEAVING MILLS.—Spindles 5,470, Looms 96. Mg. Partner: Bhawarlal Chhagalal Ladda, Office on Mill premises. Mills at Shivajinagar, Sangli.

† SHRI GAJANAN WEAVING MILLS.—Looms 185; Partners: V. R. Velankar and R. V. Velankar. Office on Mill premises. Mills at Sudamapuri, Sangli.

TRADES & PROFESSIONS

Bhide & Sons, Engineers, Shivaji Nagar, Sangli.

Chhatre's Photographic Home, Miraj.

City Medical & Surgical Stores, Miraj (S. Rly.).

Dandekar Brothers (Engineers), Sangli (Southern Railway).

The Deccan Engineering Works Ltd., Madhavnagar.

The Deccan Pharmacy, Sangli (S. Satara), India.

Gogate Brothers, Electricians and Photographers, Laxmi Market, Miraj.

The Goodwill Bank Ltd., Bankers, City Post Office, Miraj.

The Goodwill Stores, opp. City Post Office, Miraj.

Hiralal Badrinarayan, Vakhar Bhag, Sangli.

Idomax Chemicals, Miraj (S. Rly.).

Maharashtra Metal & General Mills, Ltd., Sangli.

New Vijay Industries Ltd., P. O. Vishrambag (Sangli, Satara South).

Prakash Printing Press, Sangli.

Southern Stationary Stores, Laxmi Market, Miraj.

V. G. Limaye's Art-Studio, Sangli. Photographer & Artist.

THE UGAR SUGAR WORKS LTD. SANGLI (S.M.C.)

(Established 1939)

Phone: 187

Factory is situated at Ugar-Khurd, a small village on the left bank of River Krishna.

Transport facilities are easy as the Factory is only a mile away from the Railway Station Ugar-Khurd, on Southern Rly. on Miraj-Belgaum main line.

Factory has got its own estate for sugar-cane, grown by lift irrigation.

Factory is of 800 to 1,000 tons capacity which produces white crystal sugar.

The Factory has produced 1,32,364 bags of Sugar in 1958-59.

Controlled and most efficiently
— managed by —

Messrs. SHIRGAOKAR BROTHERS

the Managing Agents of the Company

SHOLAPUR DISTRICT

Headquarters: Sholapur.

Talukas: Sholapur South, Sholapur North, Barni, Pandharpur, Sangole, Malshiras, Karma's, Akalkot, Mangalwedha, Mohol, Madha.

Sholapur District is bounded on the north by Ahmednagar District, on the east by Osmanabad District, on the south by Bijapur District and on the west by Satara North and Poona Districts. Sholapur is generally flat and undulating. Most of the surface rolls in long low uplands separated by hollows, with an occasional level. The shallow soiled uplands are suitable for pasture and the deep-soiled lowlands, under careful tillage, yield rich crops. From time to time the District suffers severely from drought, to which its situation and the treeless surface of the country expose it. The Indian Council of Agricultural Research, therefore, opened at Mulegaon, a village about 4 miles to the east of Sholapur, a Dry Farming Research Station.

Sholapur town, the headquarters of the District, is a station on the Central Railway. It has a fine old fort and a travellers' bungalow. The languages spoken are mainly Marathi and also Telugu and Kannada.

The population of the District according to 1951 census is 1,505,316. Area: 5,814 square miles.

† Figures from 1957 statement.

‡ Proprietary concern.

BHARTIYA SANGEET VIKAS NANDAL
Pandharpur.

President: H. G. Bhadule; *Secretary:* V. D. Haridas; *Sanchalika:* Smt. D. Panchawadkar.

LOCAL SPIRITUAL ASSEMBLY OF THE BAHAI'S OF
SHOLAPUR

Post Box 39, Vasant Villas, Station Road, Sholapur.

DAYANAND ANGLO-VEDIC COLLEGE, SHOLAPUR

It is affiliated up to Ph.D in the Arts Faculty and up to B.Sc. in the Science Faculty. Research is being carried on in History and Politics. A large number of stipends and free studentships are available for the able students of all communities. It has 1,007 students on its rolls.

Principal: Sri Ram Sharma, M.A., F.R. Hist. Soc. (Lond.).

DAYANAND COLLEGE OF COMMERCE, SHOLAPUR

The College is affiliated upto B.Com. It has 351 students on its rolls and 19 professors and lecturers. *Principal:* T. B. Narasimhachari.

DAYANAND COLLEGE OF EDUCATION, SHOLAPUR.

This College is affiliated for B.T. to the Poona University. It has 47 students on its rolls and eight professors and lecturers. *Principal* : K. S. Mardikar.

INSTITUTE OF PUBLIC ADMINISTRATION, SHOLAPUR

The Institute aims at providing and promoting the study of public administration and government in India and elsewhere and explaining the role of citizens in public administration in a democratic government. *Director* : Sri Ram Sharma, M.A., F.R. Hist. Soc. (Lond.).

**THE TEXTILE ASSOCIATION (INDIA) LTD.
(SHOLAPUR BRANCH)****THE LAKSHMI COTTON MFG. CO., LTD.**

President : K. A. Dodwell.

Chairman : G. G. Chakradeo ; *Secretary* : P. G. Punde.

**WASSOODEW BABAJEE NOWRUNGAY ORPHANAGE
AND FOUNDLING ASYLUM, PANDHARPUR**

The institution is managed by the Bombay Prarthana Samaj. There are a foundling home, an orphanage, a maternity home for girls and widows in trouble and also a home for homeless women. *Superintendent* : V. S. Javere.

Secretary's Office :—Prarthana Samaj, Girgaum, Bombay.

COTTON MILLS

JAM SHRI RANJITSINGHJI SPG. & WVG. MILLS CO., LTD., Spindles 20,932, Looms 512 ; *Managing Director* : Seth Bauratan Damani, 11, Bank Street, Fort, Bombay. Mills at Station Road, Sholapur.

JAYASHANKAR MILLS, BARSII LTD., Spindles 12,872 ; *Agents* : Zadbuke & Co., office on Mill premises. Mills at Barsi Town.

LAKSHMI COTTON MFG. CO., LTD., Spindles 51,908, Looms 1,219 ; *Managed by Board of Directors*, 9, Wallace Street, Fort, Bombay. Mills at Sholapur.

LOKAMANYA MILLS (BARSI), LTD., Spindles 14,520 ; *Managing Director* : B. P. Sulakhe. Office on Mill premises. Mills at Arangaon Road, Barsi Town.

NARSINGGIJI MFG. CO., LTD. (Unemployment Relief Scheme), Spindles 55,488, Looms 1,106. On lease from Official Liquidator. Mr. J. P. Maroo runs the Mill on behalf of Government. Mills at Station Road, Sholapur.

RAJEN (TEXTILE) MILLS PRIVATE LTD. (formerly Barsi Spinning & Weaving Mills Ltd.), Spindles 13,300, Looms 286. *Managed by Board of Directors*, Office on Mill premises. Mill at Barsi Town.

SHOLAPUR SPG. & WVG. CO., LTD., Spindles 86,048, Looms 2,234 ; *Managed by Board of Directors*, Standard Building, Fort, Bombay. Mills at Station Road, Sholapur.

VISHNU COTTON MILL, LTD., Spindles 49,880, Looms 1,363. *Secretaries, Treasurers and Agents* : The Bombay Co. Private Ltd., 9, Wallace Street, Fort, Bombay. Mills at Sholapur.

SORATH DISTRICT (Junagadh District)

Area : 3,427 sq. miles ; *Population* : 1,001,154.

Headquarters : Junagadh.

Talukas and Petas : Bhesan, Junagadh, Keshod, Kutiyana, Malla, Manavadar, Mangrol, Mandarda, Patan, Porbandar, Ranavav, Talala, Una, Vanthali, Visavadar.

Agricultural land under paddy, jawar, bajra, wheat, groundnut and cotton is 14,09,400 acres in extent. Agriculture is the main occupation of the people.

Sorath is well-known because of the lions in the Gir forests. This is the only place in Asia where lions are found.

Porbandar and Veraval are the two important ports in the district. Veraval is being developed as a fishing port. Porbandar is well known as the birthplace of Mahatma Gandhi.

The main industries of the district consist of cement, grinning and pressing, oil, etc. New industries like soda-ash and rayon are coming up.

COTTON MILLS

MAHARANA MILLS PRIVATE LTD., Spindles 24,132, Looms 584. *Secretary* : M. P. Ganatra ; *Office on Mill premises*. Mills at Porbandar, Sorath District.

SURAT DISTRICT

Headquarters : Surat.

Sub-Divisions : Surat, Navsari, Bulsar, Vyara.

Talukas and Mahals : Chorasi, Olpad, Bardoli, Mandvi, Bulsar, Chikhli, Pardi, Dharampur, Bansda, Navsari, Palsana, Kamrej, Mangrol, Mahuva, Vyara, Songadh, Valod and Gandevi.

Surat District lies between North Latitude 20°15' and 21°28' and East Longitude 72°38' and 73°31'. Following the merger of Baroda State into Bombay State the whole district of Navsari, formerly part of Baroda, was incorporated into the Surat District. The former States of Dharampur, Bansda and Sachin were also added to the District with the result that the area and population of the District were more than doubled. Surat District is bounded on the north by Broach District, on the east by West Khandesh, Dangs and Nasik Districts, on the south by Thana District and the Portuguese territory of Daman, and on the west by the Arabian Sea. The present area of the District is 4,499 square miles and the population according to 1951 census 1,827,842. The majority of the population in Bansda and Dharampur and several Talukas, particularly those having jungle areas of the former Navsari District belongs to backward classes called Ranijaraj, Chhodhra, Dhodia and Dubia. The language spoken is Gujarati.

Surat District consists of a wide alluvial plain, stretching between the Dang Hills and the coast, from the Kim river on the north to Damanganga on the south—a distance of about 80 miles. Much of the soil is rich, but the western border of the District consists of less fertile lands. With the inclusion of the former Navsari District and the States of Bansda, Sachin and Dharampur into the District, it has acquired a very valuable and wide forest area.

Besides being noteworthy historically, Surat is one of the principal centres for handicrafts in the State. Nearly half the population of the city depends on handicrafts. Jarl work, laces, silk and jarl brocades, embroidery, ivory and sandalwood, inlay work of *varakh-nakashi* and ivory bangles are the major handicrafts for which Surat is still famous not only throughout India but even outside India. Gold thread produced here is exported to many countries. Cotton and art silk weaving is another major industry which received an impetus during the War. The taluka

of Olpad is famous for its knives and nutcrackers, while Bulsar is well known for its silver engraving work. A co-operative industrial estate is being organised at Udhna, three miles from Surat.

INSTITUTIONS

C.G.S. Mahila Vidhyalay Mandal, Gopipura.
Peoples' Education Society.
Sarvajani Education Society.
Anath Mahajan Bahadram, Katargam.
Union Education Society.
Shri Tapi Brahmacharyashram Sabha, Laldarwaja.

AL-JAMEA-TUS-SAIFIA (SURAT)

A 150-year-old institution originally devoted to a study of and research in Arabic literature. It is now under the personal care and attention of the present Dail Mutlaq His Holiness Dr. Taher Saifuddin Sahab, and is not only a centre of Islamic culture and learning but also of general education with courses in the arts and the sciences and awards degrees.

In 1958-59 there were 230 students. It is a residential institution and keeps in touch with the students even after they have left it.

Vice-Chancellor : Y. Najmuddin, S.D.T.

NARMAD SAHITYA SABHA

C/o Gandiva Sahitya Mandir, Hawadli Chaklo, Surat.

President : Prof. Vishnuprasad Trivedi ; *Vice-President* : Dr. Ratan R. Marshal, Ph.D.

THE SURAT CHAMBER OF COMMERCE

Safe Deposit Chambers, Surat.

The present strength is 530.

President : Chandrakant G. Parekh ; *Vice-President* : Babubhai R. Solanki ; *Secretary* : Dinkarraji B. Patel, M.Com.

THE SURAT JARI GOODS PRODUCERS' CO-OPERATIVE SOCIETY, LTD.

Taj Manzil, opp. Tower, Surat.

The society has a strength of 520 members. Seth Hirajal Ranchhodas Jariwala, *President*; Vinayaklal Damodardas Jariwala, *Vice-President*; Navnitlal Dayaram Jariwala, *Hon. Secretary*; H. M. Patel, *Manager*. *Telegraphic Address*: Jarigoods. Phone No. 837.

THE SURAT VANKAR SAHAKARI SANGH LTD.

Kinkhabwala Wadi, Begampura, Surat.

A co-operative society of weavers.

President: Nagindas H. Kharwar; *Vice-President*: Udayaram Ambaram; *Manager*: Kamalkant S. Shah.

THE SURAT WEAVING ASSOCIATION

Limda Chowk, Lokhandwala Bldg., Mahatma Gandhi Road, Surat.

An association of cloth manufacturers.

President: Mohanlal Chuntlal Dhamanwala; *Vice-President*: Udayaram Ambaram; *Hon. Secretaries*: Manilal Bhukhandas Chevli; Pranlal Hirajal Bachaniwala.

SWADHYAYA MANDAL

P.O. Swadhyaya Mandal (Pardi), Dist. Surat.

A literary and social body.

President: Pandit S. D. Satwalekar, Vedacharya, Sahitya Vachaspati, Gitlankar; *Secretary*: V. S. Satwalekar, B.A.

EDUCATIONAL INSTITUTIONS

Ayurvedic College, Laldarwala.
Surat Certified School, Katargam.
Sir K. F. College of Commerce, Athwalines.
Primary Teachers' Training College, Chawk Bazar.
Sarvajani Law College, Athwalines.
Dr. A. & S. S. Gandhi Engineering College, Majura Bhagol.
T. & T. V. Sarvajani College, Athwalines.
Vidhya Mandir (Women's College), Nanpura.
High Schools & Institutes:
Parekh Technical Institute, Sonifalla.
Jeevan Bharati, Nanpura.
Cambay Institute of Commerce, Kanpith.
Popular School of Commerce, Mani Road.
Smart School of Commerce, Haripura.
Shorthand and Commercial Institute, Beasant Road.
T. & T. V. Sarvajani High School, Nanpura.
N. G. Zaveri Jain High School, Gopipura.
Sarvajani High School for Girls, Balaji Road.
T. & T. V. Sarvajani Middle School, Gopipura.
Haripura Sarvajani High School, Rampura.
G. & G. V. Kadiwala Middle School, Katargam.
Ratnasagarji Jain Vidhyashala, Gopipura.
I. P. Mission High School for Girls, Muglisara.
I. P. Mission High School for Boys, Muglisara.
Anglo-Urdu High School, Sodagarwada.
Diwan Bahadur N. M. Javeri Union High School, Ranitalao.
Proprietary High School, Bundelawad.
Sir J. J. English School, Shahpore.
Pirojhai Patel Girls' High School, Machhilipith.
Madrasa Taiyabiya Girls' School, Zampabazar.
Hindu Gurukul, Athwalines.
Gujarat Co-operative School, Nanpura.
Vanita Vihar, Athwalines.
Chandagauri G. S. M. V. Mandal Girls' High School, Gopipura.
Ambaba Haripura Mahila Vidhyalya Girls' School, Haripura.

F. S. PAREKH TECHNICAL HIGH SCHOOL

Sonifalla, Surat.

The Institute was taken over by the Government of Bombay, Department of Technical Education on 1st May 1958, from Surat Borough Municipality, Surat and named as "The F. S. Parekh Technical High School, Surat." All the courses which were previously conducted here have now been transferred to the Dr. S. & S. S. Gandhi College of Engineering and Technology, Majura Gate, Surat.

This High School imparts training in Technical subjects to the students in Std. VIII to XI of the two local High Schools viz., T. & T. V. Sarvajani High School and Jeevan Bharati, Surat. The education in Technical subjects is given free to these students.

Wireman's Apprentice Course and Electrician's Course are conducted as part-time courses.

JEEVAN BHARATI

Greenlands, Nanpara, Surat.

Founded in 1948, the Jeevan Bharati is an experimental educational institution under the management of Jeevan Bharati Mandal. It is a co-educational school with three sections, pre-primary, primary and secondary. It has been recognised by the Government of Bombay as a multi-purpose school. It provides special courses in (i) Technical subjects, (ii) Fine Arts—Indian Music & Painting, (iii) Woodwork Technology, (iv) Hand Spinning & Weaving and (v) Sewing & Embroidery Work, upto the S.S.C. Class.

President of the Mandal: M. M. Pakvasa.

Chairman, Board of Trustees: Morarji R. Desai.

MAGANLAL THAKORDAS BALMUKUNDDAS COLLEGE

Surat.

The M. T. B. College is permanently affiliated to the Gujarat University for teaching courses of study leading to the B.A., B.Sc., M.A., M.Sc. and Ph.D. (Guj. and Chem.).

Principal:—K. L. Desai, M.A., LL.B. (Bom.), B.A. (Cantab.).

SARVAJANIK EDUCATION SOCIETY

Surat.

The society manages three colleges, four high schools, two middle schools and an institute for higher learning and research.

President: Mangaldas Mancharam Pakvasa, B.A., LL.B.; *Chairman, Managing and Executive Committees*: Lalit Mohan Chuntlal Gandhi, M.A., B.Sc., LL.B.; *Vice-Chairman*: Jashvantlal Chhaganlal Clerk, B.A., LL.B.; *Secretary*: Prof. Jivanlal Trikamal Parikh, M.A.

SARVAJANIK LAW COLLEGE

Surat.

Principal:—C. D. Vyas, M.A., LL.M.

DR. S. AND S. S. GHANDHY COLLEGE OF ENGINEERING AND TECHNOLOGY

Majura Gate, Surat.

Principal:—D. A. Advani, B.E., A.M.I.E., B.E.S.

SIR KIKABHAI PREMCHAND COLLEGE OF COMMERCE

Surat.

The College is affiliated to the University of Gujarat for teaching commerce courses upto M.Com. and Ph.D. Degrees and is under the management of Sarvajani Education Society, Surat. Hostel accommodation available for 60 students.

Principal:—D. R. Samant.

HOSPITALS

Civil Hospital, Ardeshar Kotwal Road.
Hindu Charitable Hospital & Maternity Home, Balaji Road.
Senawala Hospital, and Ashaktashram, Rampura.
Shantaben's Maternity Home, Panini Bhint.
Maekati Charitable Hospital, Opposite Tower.
Shri Ratan Kuverba Hospital, Baneda.
Lady Wilson Hospital for Women and Children, Baneda.
Dinath Maternity Hospital for Muslims, Rampura.
Lakhpatti Maternity Home, Nanavat.
Parsi General Hospital and Maternity Home, Shahpore.
Morarbhai Malvi Hospital for Women and Children, Bhagatalao.
T.B. Hospital and Lady Wilson Leprosy Clinic, Ashwanikumar Road.
Ayurvedic Hospital, Laldarwala Road.
Mission Hospital (Seventh Day Adventist), Athwalines.
Mission Hospital, Bulsar.
Sugrampur Nursing Home

CLUBS

Rotary Club.
Surat Tennis Club, Athwalines.
Union Gymkhana, Rander Road.
Digvir Club, Baneda.
Lions Club, Safe Deposit Chambers.

HOTELS, REST HOUSES

Savoy Hotel, Opp. Station.
Jay Bharat Hindu Lodging and Boarding House, Main Road.
Ukadji Dharmashala for Parsis, Muglisara.
Government Rest House, Nanpura.
P.W.D. Guest House, Nanpura.
Evergreen Lodging and Boarding House, Buranpuri Bhagal.
Rambharose Lodging and Boarding House, Chawk Bazar.

SPINNING & WVG. MILLS

GAEKWAR MILLS LTD., Spindles 20,556, Looms 660. Managed by Board of Directors, Mehta House, Apollo Street, Fort, Bombay. Mills at Billimora.

MAFATLAL FINE SPG. & MANUFACTURING CO., LTD., Spindles 51,996, Looms 896. Agents: Navinchandra Purohotamdas & Co., Ltd., Mafatlal House, Back Bay Reclamation, Bombay. Mills at Vejalpur Road, Navsari.

NAVSARI COTTON AND SILK MILLS LTD. (Formerly New Darbanga Mills), Spindles 18,776, Looms 435. Managed by Board of Directors, Mehta House, Apollo Street, Fort, Bombay. Mills at Vejalpur Road, Navsari.

NIRANJAN MILLS PRIVATE LTD. (Formerly Tikayaram Mills)—Spindles 9,088, Looms 320. Managed by Board of Directors, 70, Meadows Street, Fort, Bombay. Office on Mill premises. Mills at Falsawadi, Surat.

SURAT COTTON SPG. & WVG. MILLS PRIVATE LTD. Spindles 29,380, Looms 476; Mg. Director: Ramesh N. Mafatlal, Mafatlal House, Backbay Reclamation, Bombay. Mills at Nawabwadi, Surat.

SURAT TEXTILE MILLS LTD.—Spindles 10,000. Mg. Agents: Kanchanlal Kapadia & Co., Ltd. Office on Mill premises. Mills at Varachha Road, Surat.

THE SURAT ELECTRICITY COMPANY, LTD.

Agents: Messrs. Killick Industries Ltd., Bombay. Office & Power House: Tilak Maidan, P.O. Box 26, Surat. Tel. No. 34.

N. D. Desai, L.E.E., Mem. A.I.E.E., Chief Engineer & Manager.

C. K. Eastland, Asst. Chief Engineer & Manager (Gen.). J. T. Modi, B.Sc. (Eng.), A.M.I.E.E., Assistant Chief Engineer and Manager (Engg.).

B. M. Desai, B.Sc. (Eng.), Asst. Chief Engineer & Manager (Com.).

G. B. Mankar, Station Superintendent.

M. C. Desai, B.E., A.M.I.E. Assoc., Mem. A.I.E.E., Main Engineer.

R. P. Kinnariwala, D.M.E., D.E.E., Assistant Engineer (Com.).

Central Administration Department: 5, Graham Road, 4th floor, Ballard Estate, P.O. Box No. 109, Bombay 1.

THANA DISTRICT

Headquarters: Thana.

Talukas and Mahals: Thana, Kalyan, Bhiwandi, Shahapur, Murbad, Wada, Jawhar, Bassein, Palghar, Dahanu, Umbergaon, Mokhada Peta.

Area: 3,817 sq. miles. Population: 1,361,053.

Thana District lies between North Latitude 18°53' and 20°22' and East Longitude 72°39' and 73°48'. It is bounded on the north by the Portuguese territory of Daman and Surat District; on the east by the Districts of Nasik, Ahmednagar and Poona; on the south by Greater Bombay; and on the west by the Arabian Sea. Forty-seven villages from the former Bombay Suburban District were originally merged with the Thana District. Later, the area from Bion to Bhandup on the Central Railway and the area from Bandra to Jogeshwari on the Western Railway were merged with Greater Bombay. With the further extension of the Greater Bombay area on February 1, 1957, 24 villages of Thana District comprising the Municipalities of Malad, Kandivli, Borivli and Mulund and the village panchayats of Goregaon and Dahisar, were merged with Bombay. The population based on the 1951 census figures is 1,361,053. The languages spoken are Marathi, Gujarati and Urdu. The Christians of Salsette and Bassein, a very numerous community, are the descendants of the converts of St. Francis Xavier.

Thana consists of a distinct strip of low land, intersected by hilly tracts rising to an elevation of from 100 to 2,500 feet. Along the whole line of the coast the soil is fertile, and the villages are exceedingly populous. In the north-east the hills are covered with wood, and the valleys are but partially cultivated. The villages are seldom more than scattered groups of huts, and the population consists mainly of uncivilised aboriginal tribes, many of whom still wander from place to place as they find water or to suit their fancy. Inland the District is well watered and well wooded. Elsewhere than in the north-east, the country consists of a series of flat low-lying rice tracts, broken by well-marked ranges of hills.

Thana District is fast developing into a prominent industrial area. Hundreds of acres of land are being converted into sites for factories. Scores of factories have already been set up particularly along the railway track and the Bombay-Agra and Bombay-Poona Roads. Mulund village, which was in Thana Taluka and is now part of Greater Bombay, has been developed into a modern suburb with all the usual amenities.

Bhiwandi, a Taluka town nine miles from Thana situated on the Bombay-Agra Road is noted for handloom and power loom fabrics. The "Bhiwandi" variety of Indian saris is very popular among Deccani women. The town is mostly inhabited by Muslims and in some parts of the town every house has a spinning wheel. Bhiwandi Taluka is also famous for its timber and charcoal trade.

Kalyan, the biggest and the most thickly populated town in the District, is 34 miles from Bombay and is a junction on the Central Railway's north-east and south-east sections. "Ulhasnagar" the largest refugee township in Bombay State is situated in Thana District two miles from Kalyan near the Ulhas River. The township is designed to accommodate 90,000 people.

† Figures are taken from 1957 statement.

The main produce of the District is rice which is of superior Kolamb variety.

Dahanu, Bassein and Umbergaon, the three Talukas are specially famous for fruit gardens and the bulk of Bombay's fruit supply comes from these areas. Bassein plantains and betel-leaves are very much in demand.

At Thana, Bhyandar and Belapur there are extensive salt works.

The chief articles of export from Thana District are paddy, rice, vegetables, salt, betel-leaves, plantains, bricks, grass, firewood, charcoal, lime, fish fresh or dried, timber, coconuts, mangoes, flowers, saris, handloom fabrics, woollen cloth and milk.

Tansa and Vihar lakes and the Vaitarna river which are the main sources of Bombay's water supply are situated in Thana District and are connected with Bombay by a special trolley line.

The Thana District Prison is one of the major prisons in the State and there is also a mental hospital on the outskirts of Thana town.

Thana, the chief town, 21 miles north of Bombay, is as already mentioned a station on the Central Railway. The Fort, the Portuguese Cathedral, a few carved and inscribed stones, and several reservoirs are now the only signs that Thana was once an important city. There is a good travellers' bungalow in the town. Bassein, on the Western Railway, contains the famous ruins of the ancient Portuguese dominion in Salsette.

INSTITUTIONS

Marathi Granth Sangrahalaya, Thana.
Remand Home, Bhiwandi.
Industrial School, Bordi.

HOSPITALS

Civil Hospital, Thana.
Mental Hospital, Thana.

INDUSTRIES

Western India Match Factory, Ambernath.
Aluminium Factory, Kalwa, Thana.
Raymond Woollen Mills, Thana.
Wadia Woollen Mills, Thana.
Castle (Woollen) Mills, Thana.
National Machinery Manufacturers Ltd., Kalwa, Thana.
National Rayon Corporation, Mohoni, near Kalyan.
Century Rayon Corporation, Shahad, near Kalyan.
Amar Dye-Chem. Factory, Shahad, near Kalyan.

SPINNING AND WVG. MILLS

†† **ABDUL SAMAD HAJILAL MOHAMMAD WEAVING FACTORY**—Looms 246. Owner: Khan Sahib Abdul Samad Hajilal Mohammad. Office on Mill premises. Mills at Bhiwandi.

‡ **SECUNDER SARI MILLS**—Looms 103. Owner: Abdul Quadri Secunder Patel. Office on Mill premises. Mills at Sowdagar Mohulla, Bhiwandi.

‡ Proprietary concern.

WARDHA DISTRICT

Headquarters : Wardha.

Tahsils, Sub-Divisions : Wardha, Hinganghat, Arvi.

The District lies roughly between 20° and 21° 15' North Latitude and 78° 15' and 79° 15' East Longitude. It is bounded by the river Wardha on the south and south-west, by Chanda District on the south-east, and by Nagpur District on the east and north-east, and by Amravati District on the west. The area of the District is 2,434 sq. miles and the population 538,908. The languages spoken are Marathi and Hindustani.

HINDUSTANI TALIMI SANGH

Sevagram, Wardha.

The object is to propagate Nai Talim (new education), that is, national education for life through manual activity and handicrafts. Work is conducted at Sevagram in six departments: Pre-Basic, Basic, Post Basic, Teacher training, Adult education, Training of Workers for Gram Nirman Work in Gramadan areas.

President, E. W. Aryansayakam.

Secretary, K. S. Radhakrishna.

Jt. Secretary : K. Arunachalam.

JAMNALAL BAJAJ CENTRAL RESEARCH INSTITUTE FOR VILLAGE INDUSTRIES

Maganwadi, Wardha

Aims and Objects :—The Research Institute was established in 1955 under the First Five Year Plan for research and investigation for the improvement of the tools and techniques of village industries. It is under the Khadi & Village Industries Commission and is advised

* Proprietary concern.

ASSOCIATIONS

Wardha is noteworthy in that it has been the seat of a number of Gandhian institutions concerned with village uplift and the ideals of self-sufficiency and self-service. Wardha being centrally located is also an important junction on the Central Railway; trains which go from Madras to Delhi and from Bombay to Calcutta pass through Wardha.

Wardha has black cotton soil and the most important cash crops grown are jawar and cotton. Though there are rivers like Wainganga, agriculture depends on rain. There is thus an elaborate programme today for sinking new wells and deepening old ones. There are processing and ginning mills in the District and also textile mills.

by a Research Committee consisting of members of the Commission and of the Khadi & Village Industries Board, representatives of the Council of Scientific and Industrial Research, the National Laboratories and others. The Institute is in charge of a Deputy Director.

Deputy Director : Dr. M. Sadasivha Rao.

COTTON MILLS

PULGAON COTTON MILLS LTD. (Formerly Pulgaon Cotton Spinning, Weaving & Manufacturing Co. Ltd.). Spindles 22,040, Looms 492. Managing Agents : Hardayal Sons, 59, Apollo Street, Fort, Bombay, Mills at Pulgaon.

* **RAI BAHADUR BANSILAL ABIRCHAND SPG. & WVG. MILLS.** Spindles 31,600, Looms 396. Owners : Shrimati Sodradevi N. Daga and others. Office on Mill premises, Mills at Hinganghat.

RAI SAHEB REKHCHAND MOHOTA SPG. & WVG. MILLS PRIVATE LTD. Spindles 24,754, Looms 413; Mg. Director : Seth Mathuradas Mohota, Hinganghat, Mills at Hinganghat.

WEST KHANDESH DISTRICT

Headquarters :—Dhulia.

Talukas and Mahals :—Shirpur, Shahada, Taloda, Sindkheda, Nandurbar, Nawapur, Dhulia, Sakri, Akrani, Akal-kuva.

West Khandesh District lies roughly between 20° 35' and 23° North Latitude and 73° 35' and 75° 17' East Longitude. It is bounded on the north by Jhabua District in Madhya Pradesh, on the east by East Khandesh District, on the south by Nasik District and on the west by Baroda District.

The area of West Khandesh is 5,391 sq. miles and the population 1,148,024 (1951 census). In the western parts Bhils who number 400,000 predominate. The languages spoken are Marathi, Gujarati and Bhili.

West Khandesh along with East Khandesh forms the most northerly section of the Deccan table-land. The river Tapi flowing from east to west divides it into two unequal parts. Of these the bigger lies in the south and is drained by the rivers Burai, Panjara, Bori and Girna. This is a long central plain comprising an extensive area of rich alluvial soil. Northwards beyond the plains the land rises towards the Satpura Hills. The country is rugged and thickly wooded and is mainly inhabited by Bhils. On the whole the District is well supplied with surface water.

AGRICULTURE

The main crops of this District are cotton, wheat, bajra, jawar and groundnut. Sugar-cane and chillies form the main irrigated crops. Lately many more sugar-cane crushing factories and gur manufacturing factories have been started in the District. There are two agricultural research stations—one for Cereal research and another for Cotton research at Shahada and Dhulia respectively.

There are two types of irrigation in this District : (1) Well irrigation and (2) Bandhara irrigation. The rivers used for irrigation are chiefly the Panjara, Kan, Gural and Gomti, which are banded at a number of places. Each bund irrigates about 100 to 200 acres. The total area under Bandhara is about 4,000 acres. The main crops grown on these Bandharas are sugar-cane, wheat and paddy, in this rotation. This system is known as Fad System.

There are two educational institutions in the Bhil area—Bhil Sudharma Committee and Bhil Seva Mandal. The Government has also opened a Sarvodaya centre at Khandhara for the uplift of the Bhil community.

The headquarters of the District Dhulia, was also the old capital of the united district of Khandesh. It is situated on the branch of the Central Railway which joins the main line at Chalisgaon.

HOSPITALS

There are two civil hospitals at Dhulia, viz., Dhulia Civil Hospital, a Government institution and the Suvartha Memorial Hospital, run by the Presbyterian Mission, both being equipped with X-Ray apparatus. The Dhulia Civil Hospital also trains nurses and

Dais. The local Red Cross Society conducts an Ante-Natal Clinic, a Child Welfare Centre and a Family Planning Centre at Dhulia. There is also a free dispensary conducted by Prani-Rakshak Sanstha. There are also well equipped Kasturba Maternity Hospital and Municipal Dispensaries & Maternity Home.

EDUCATIONAL INSTITUTIONS

There are five High Schools in Dhulia, including one for girls. Dhulia is an S.S.C. examination Centre. There are 2 additional middle schools and about 30 primary schools, including one Urdu and Gujarati, where free and compulsory primary education is given to both boys and girls and 2 primary teachers' training colleges including one conducted by Government. There is also an Arts & Science College run by the S. M. P. Sanstha. The King Edward VII Technical School at Dhulia gives technical education to students. Government has started a graduates' Basic Education College, in the premises of Garud High School. The Institute of Engineering Technology, run by the Dhulia Education Society, Dhulia, started coaching students for Diploma in Civil Engineering, since June 1954. It has accommodation for about 125 students every year. There is also a Government Agricultural Institute, where Gram Sewaks are trained.

The Bhil Seva Mandal and the Bhil Sudhar Samithee, are working for the social and educational uplift of the Bhil community.

Two more institutions are the Gandhi Tatwadnyan Mandir, teaching Gandhian philosophy, and the Sanskrit Patashala teaching Sanskrit. There is a Historical Research Institute called Rajwade Sanstodhan Mandal where important manuscripts and historical articles and records are available for research and study. In Wak-Bewata Mandir, all works of Sant Ramdas and literature pertaining to him are carefully preserved and further studies are being pursued.

There is the century old Garud library along with Prani Rakshak Grantha Sangrahalaya.

Dhulia is the Divisional Headquarters of the Bombay State Transport Corporation, of the Khandesh Division. A direct bus service runs to Indore in Madhya Pradesh and to Surat in Gujarat. There is also a big repair workshop.

DHULIA EDUCATION SOCIETY.—The Society owns two high schools : (1) The J. R. City High School and (2) The New City High School. The Society started an Institute of Commerce in 1955, an Institute for Secondary Teachers' Certificate Course in 1957 and Madhyamik Vidyalaya, Deopur, Dhulia, in 1958.

ASSOCIATIONS

MAHARASHTRA HARIJAN SEVAK SANGH

The Provincial Board with the help of its District and Taluka committees and Propaganda workers, is carrying on, besides welfare work in the form of hostels, Sanakar Kendras, Balwadis for boys and girls and scholarships for Backward class students, education and propaganda for removal of untouchability.

THE INDIAN RED CROSS SOCIETY, WEST KHANDESH BRANCH, DHULIA.—The Society has been for the last eleven years conducting a Child Welfare Centre, the first of its kind in the District, at Dhulia where children are given free milk and ultra-violet light medical treatment. Ultra-violet light is also given to children and women under medical advice. The society also opened an ante-natal clinic. In 1953 the Society opened a family planning centre. In 1955 the Society conducted first aid and home nursing classes for ladies. The Society conducts milk centres in rural and urban areas, where about 300 children and women are given free milk everyday.

MAHATMA GANDHI TATWADNYAN MANDIR, DHULIA.—*Aims:* Founded at Dhulia in 1946 to perpetuate the memory of the late Mahadeobhai Desai, who devoted his whole life to the service of Mahatma Gandhi. It is designed to preserve all Gandhian literature and spread Gandhian philosophy. The site was given free by Shet Shaligram Ramchandra Bharti and Shet Rameshwar Joharmal Poddar. A small structure in memory of late Kasturba Gandhi has also been erected for use of students.

CLUBS

Dhulia Gymkhana. | Mahila Sadan (ladies).
Cumine Club. | Vanita Samaj (ladies).

Vijay Swimming Baths.

BANKS

DHULIA URBAN CO-OPERATIVE BANK, LTD.—This Institution known as Dhulia Taluka Urban Co-operative Society was established in 1908, the first co-operative society in West Khandesh District; in 1923 it was converted into Dhulia Urban Co-operative Bank.

RAJWADE MANDAL PEOPLE'S CO-OPERATIVE BANK LTD., DHULIA.—This bank, one of the very few of its kind in the State, was established in February 1938. The shareholders of the bank have agreed to pay one-fourth from their share of dividend due from the bank each year, to a research institution—Rajwade Sanshodhan Mandal—established in the memory of the late Mr. Vishwanath Kashinath Rajwade, an eminent research worker.

TEXTILE ASSOCIATION Khandesh Branch.

C/o New Pratap Mills Ltd., Dhulia.

President: W. R. Deo; *Hon. Secretary:* H. L. Rana; *Central Managing Cttee. Member:* V. G. Karnik.

INDUSTRIES

Dhulia is the biggest cotton centre in the Khandesh District and has a well regulated Cotton Market. There is also another regulated Cotton Market at Dondaloha in the Sindkheda Taluka on the Tapli Valley Section of the Western Railway.

There are Spinning and Weaving Factories.

The number of cotton ginning and cotton pressing factories is 47.

Dhulia has also been lately developing into a groundnut oil industry centre. There are about 42 oil mills, including 14 at Dhulia, which together produce about 2,000 tons of groundnut cake. One of these mills uses the latest type of expeller machinery. There are also saw mills.

SPINNING AND WEAVING MILLS

NEW PRATAP SPG., WEAVING AND MFG. CO. LTD., Spindles 47,324, Looms 1,040; Agents: Maganlal Motilal & Co. Office on Mill premises. Mills at Dhulia, West Khandesh.

YEOTMAL DISTRICT

Headquarters: Yeotmal.

Tahsils: Yeotmal, Darwha, Kelapur, Wun, Pusad.

The District lies between North Latitude 19° 26' and 20° 42' and East Longitude 77° 25' and 79° 9'. It is bounded on the north by Amravati, on the east by the Wardha River, on the south by the Penganga River, and on the west by Akola District. The area of the District is 5,219 sq. miles and the population 931,982. The language spoken is Marathi.

The District consists generally of hilly country formed by offshoots of the Ajanta chain. The rivers Wardha and Penganga and their tributaries constitute the drainage system of the District.

Yeotmal town is connected with the main railway line from Bombay to Nagpur through Darwha. The principal roads are those from Yeotmal to Dhamangaon, Darwha and Wun.

The staple foodgrain is jawar; other foodgrains are wheat and pulses. As elsewhere the most profitable cash crops are cotton and oilseeds. Forests cover a larger area than in any other District in the State and yield considerable quantity of timber and fuel. The principal industry is the preparation of cotton for the market. Exports include raw cotton, oilseeds, cereals and pulses, and the chief imports include cereals and pulses, salt and sugar.

ASSOCIATIONS

Yeotmal District Association, Yeotmal.

ZALAWAD DISTRICT (Surendranagar District)

Area: 3,500 sq. miles; *Population:* 405,928.

Headquarters: Surendranagar.

Tahsils:—Wadhwan (Wadhwan); Chotila (Chotila); Mull (Mull); Dhrangadra (Dhrangadra); Halvad (Halvad); Dasda (Dasda); Limbdi (Limbdi); Lakhtar (Lakhtar); Sayla (Sayla).

There are about 12 towns with a population of over 5,000 and 672 villages.

About 70 per cent of the population lives in the rural areas. The main occupation of the people is agriculture, and the important crops are bajra, jawar, cotton, paddy, groundnut, wheat and gram.

The main industries of the district consist of textiles, salt, soda ash, potteries, ginning and pressing factories.

ASSOCIATIONS

SAURASHTRA GINNING AND PRESSING FACTORIES ASSOCIATION

Dhrangadhra House, Surendranagar.

President: K. R. Shah; *Vice-President:* D. J. Acharya; *Secretary:* P. D. Trivedi.

SAURASHTRA MILLOWNERS' ASSOCIATION
Dhrangadhra House, Surendranagar.

President: Shantilal Mangaldas; *Vice-President:* Chandulal Vardhman Shah; *Secretary:* A. P. Shah.

COTTON MILLS

KANTI COTTON MILLS PRIVATE LTD. (Formerly Wadhwan Camp Mills), Spindles 16,244, Looms 320. Mg. Agents: Chandulal Ratilal & Co. Office on Mill premises. Mills at Mill Road, Surendranagar.

DELHI

Area: 578 sq. miles; Pop.: 1,744,072; Hindus: 1,467,854; Sikhs: 197,096; Muslims: 99,601.

Under the Constitution of India, Delhi is a Union Territory.

Parliament administers the areas directly through the Union Home Minister. The chief executive official of the Territory is the Chief Commissioner.

Delhi has an Advisory Council which is associated with the Home Minister.

The Council comprises (1) all members of Parliament representing Delhi, (2) the Mayor, (3) the Vice-Chancellor of Delhi University, and (4) the Vice-President of the New Delhi Municipal Committee.

The Council is consulted in regard to the (1) general question of policy relating to the administration of the Territory, (2) all legislative proposals concerning the Territory, including proposals to extend any State Acts, (3) general matters relating to the annual financial statement of the Union in so far as it concerns the Territory and such other financial questions as may be specified by the President and (4) any other matter about which it may be considered necessary or desirable by the Home Minister that the Committee should be consulted.

Subject to the discretion of the Home Minister, members of the Council have the right in regard to interpellations analogous to and under similar limitations as those of members of a State legislature.

The meetings of the Council are presided over by the Home Minister.

Besides, there are two Advisory Boards to advise the Chief Commissioner in regard to industrial matters and public relations. They are presided over by non-officials.

The Highest Court of Appeal in Delhi is the Punjab High Court—a circuit bench sits in Delhi.

GREATER DELHI

Delhi is really the size of a district. The majority of its population lives in the urban areas of Delhi.

Development work is being carried out under the supervision of the Development Department which is assisted by a Rural Development Committee.

New Delhi is an inflated officers' colony. The density of the population which is thin consists largely of Government officials. The density is only 45 persons per acre, as against 500 or more in Old Delhi. Apart from the lack of transport facilities, there are not enough post offices, schools or colleges, hospitals, libraries or recreation grounds either in Old Delhi or in New Delhi.

In order to accommodate an inflated population, the local authorities, with the help of the Central Government, embarked on the construction of numerous residential colonies in the immediate neighbourhood of Old and New Delhi. Most of these have their own shops, schools and police stations.

The following is a list of refugee housing schemes which have been completed:

(1) Rajendar Nagar; (2) Patel Nagar (Shadipur Extension); (3) Malkajanj; (4) Nizamuddin Village; (5) Nizamuddin Extension; (6) Jungpura Village Extension; (7) Kalkaji; (8) Kingsway (Camp Mud houses, Hudson Lines, Outram Lines, Roids Barracks); (9) Band-stand Area; (10) Lajpat Nagar; (11) Sheikh Sarai; (12) Indra Nagar; (13) Tilak Nagar; (14) Malviya Nagar; (15) Bharat Nagar; (16) Purana Qila; (17) Kotla Ferozshah; (18) Reharpura; (19) Angurbagh; (20) Vijaynagar; (21) Motia Khan; (22) Nicholson Road Colony; (23) Purdah Bagh; (24) Narela; (25) Allganj and (26) Andha Mughal.

The main railway station is the junction at Old Delhi, from where radiate the railway lines to the Punjab, U.P., Bombay, Calcutta and Madras. The headquarters of the Northern Railway are located here.

The following are the estimated quantities of certain selected commodities imported into the Municipalities of Delhi (monthly averages in tons) for the calendar year 1957: Wheat 22,555; Grams 7,929; Rice 1,092; Pulses 28,725; Refined sugar 3,167; Tea 288; Ghee, cream and butter 746; Dried fruits and nuts 2,101; Provisions 710; Spices 2,646; Steam coal, soft coke and hard coke 38,137; Kerosene oil 202,131 (gallons); Hides and skins 508; Agra stones 3,380; Cement 16,256; Asbestos sheets 10; Chemicals 1,215; Face cream, powder and tooth paste 31; Hair oil and perfumed oil 27; English medicines 529; Indian medicines 721; Soaps 904; Shoes and apparel 241; Hardware and cutlery 5,302; Photo goods 114; Betel leaf 79.

According to 1957 figures there were 6,572 registrations (monthly averages) at the Regional Employment Exchange and 769 placings, against 1,337 vacancies notified.

The average number of workers employed, latest available (last quarter of 1957), in the processes allied to Agriculture 15; Textile Industries 19,221; Printing, Publishing and allied industries 4,880; Chemical and Chemical products Industries 1,654; Non-metallic mineral product Industries 1,645; Manufacture of metal products 3,345; Manufacture of machinery 2,959; Electric machinery 1,691.

The number of broadcast receiving licences at the end of December 1957 was 80,932 and at the end of December 1958 was 85,608.

INDUSTRY

The main industries are: cotton mills; hand and powerloom weaving; hosiery; pottery; flour mills; vegetable oil mills and expellers; paints and varnishes; rubber goods; imitation jewellery; copper and brass utensils; wire netting; sola hats; leather goods, and tanning industry.

The total number of factories registered under the Act was 805 at the end of December 1957.

The provisions of the Minimum Wages Act are fully enforced in Delhi.

The number of registered trade unions at the end of December 1958 was 300.

Delhi was a great centre of artistic textile fabrics till the end of the Moghul era, and retained some importance till the advent of the modern textile mills.

In recent years the handloom industry has grown rapidly owing chiefly to the efforts of the Industries and Co-operative Societies Department, which helped in the promotion of weavers' co-operatives.

In 1951 there were only eight societies with a membership of 158. The number of looms was 65 and of weavers 63. The estimated production was 31,000 yds.

In 1957 there were 51 societies, with a membership of 890. The number of looms was 532. The production was estimated at 391,000 yds. The target for the Second Plan is 4 lakh yds. a year.

The total number (registered) of handlooms in Delhi at the beginning of 1959 was 771. The actual number may be in the neighbourhood of 1,000. The capital invested was between Rs. 3 and 4 lakhs. The industry provides livelihood for about 3,000 persons, and the total production is estimated at 5 lakh yds.

The Co-operative Department has opened emporia in Delhi to help marketing. A dyer-house has been set up under the control of the Indian Co-operative Union with an expert dyer-cum-printer attached.

Traders from neighbouring States regularly visit Delhi to make their annual purchases which include besides textiles, hardware, hosiery, utensils and stoneware.

There is also a very flourishing grain market, serving local needs.

As in all towns, different parts of Delhi specialize in different trades. The area round about Chandni Chowk for instance is the centre for textiles and general merchandise. The trade in copper and brass utensils is located in Chawri Bazar, which in addition has a market for hardware. Khari Bawli is the granary of Delhi with the adjoining streets specializing in condiments, spices, pickles, dry fruit, etc. Lal-Kuan Bazar is noted for building material, while Sadar Bazar deals in wholesale hosiery, glass and china-ware and general merchandise. Silver-ware is retailed in Dariba Kalan, while the bullion market is localized in Chandni Chowk.

Almost all the banks have their branches in Connaught Place which is New Delhi's chief shopping centre, and Chandni Chowk.

Tourist traffic has grown into a regular new trade. Almost all the Indian and foreign air companies and travel agencies have offices in New Delhi.

AGRICULTURE

Figures given below are for 1957-58 (Provisional):

Total land 495,593 acres; area under forests: 3,497 acres; area not available for cultivation: 84,930 acres; other uncultivated land excluding fallow land: 48,441 acres; fallow land: 11,636 acres; net area sown: 216,900 acres; total irrigated area: 69,987 acres.

The following is a crop-wise break up of the area under food and cash crops:

Wheat, 71,589 acres; Bajra, 48,630 acres; Jowar, 28,653 acres; Maize, 3,641 acres; Barley, 3,895 acres; Grams, 57,113 acres; Sugarcane, 11,469 acres; Oilseeds, 3,523 acres; Cotton, 681 acres.

The following is the production of major crops: Wheat 17,087 tons; Gram 2,392 tons; Jowar 4,158 tons; Bajra 10,439 tons; Sugarcane 6,543 tons; Cotton 142 tons; Oilseeds 189 tons; Maize 776 tons; Barley 612 tons.

A sum of Rs. 2.45 lakhs has been provided for the sinking of tube wells, boring of existing wells, construction of bunds and pumping out water from Najafgarh lake. A sum of Rs. 1.64 lakhs has been spent so far.

Till recently, Delhi had a large number of gardens where fruit such as bananas, pears, mangoes, pomegranates, lokats, figs, papais, caster-fruit and plums were grown. But they are getting less now because of urbanisation.

The pressure of population and anti-malaria drives resulted in clearing the land of these gardens.

Delhi now imports most of its fruits. But on large areas—a total of 8,106 acres—in and around the city vegetables are still grown.

It is estimated that there is one milch animal for every three or four persons. The average yield of a cow and buffalo comes to 2 seers and 4.5 seers respectively.

The annual average daily production of milk is estimated at 4,285 maunds.

There are about 40 poultry farms. It is believed about 140,000 eggs are daily imported into Delhi at an annual cost of Rs. 45 lakhs. A five-year scheme is in operation which aims at making Delhi self-sufficient in eggs.

The local consumption of fish is estimated at 150 maunds a day. Fish is at present imported, some caught in the Jamuna.

The village development scheme covers all the 309 villages. A sum of Rs. 81 lakhs has been allocated for a period of 5 years. A portion of this will be contributed by the Local Administration and the rest by the Centre towards recurring and non-recurring expenditure.

The Delhi Land Reforms Act, 1954 came into effect on July 20, 1954. The Land Revenue Act provides for a uniform system of Land Revenue administration. Previously, part of the land was under the Punjab laws and part under the U.P. laws.

The Act provides for the abolition of proprietary rights and conferment of ownership on all tenants and sub-tenants from whom compensation would be recovered and paid to owners. The rate of compensation varies from 4 to 40 times the land revenue, according to the nature of tenancy. A stay order passed by the High Court was vacated in April 1956 and implementation of the law is now in progress.

The Delhi Land Reforms Act was amended in October 1956 to exclude areas controlled, notified, held, occupied or owned by the Delhi Improvement Trust from the purview of the Act. Proposals for removing certain difficulties experienced in the working of the Act are under consideration.

Leases in future have been prohibited except by small owners holding less than eight standard acres and persons suffering from a disability. Future tenants will have a minimum term of five years.

The maximum rent has been fixed at one-fifth of the gross produce.

A ceiling has been placed on future acquisition of land holdings at 30 standard acres.

TRANSPORT

Delhi occupies a pivotal point in the network of national railways, highways and airways.

It is one of the biggest railway junctions in the country handling about 23 mail, 28 express trains besides several goods and passenger trains every day.

All the principal inter-State roads of significance converge on Delhi.

It is also linked with important cities and foreign countries by air through its two air ports, Willingdon and Palam.

There are in Delhi 650 cycle-rickshaws, over 200,000 bicycles, 13 tum-tum, 1,300 Kharkharas, 2,500 hand carts, 1,800 animal-driven carts, 5,500 tongas, 5,785 motor cycles, 1,380 taxis and hire cars, 10,392 cars, 1,038 buses, 1,582 motor rickshaws, and 2,800 lorries and goods vehicles. (Figures are for the quarter ending September 1958.)

Bustransport in the urban area is provided by the Delhi Transport Undertaking of the Delhi Municipal Corporation, which also operates the tramway service. There are a few private buses operating in suburban areas. In 1958 the Transport Service had 480 buses operating on 35 routes. Total mileage covered per day : 41,000

General Manager, P. K. J. Menon; Asst. Genl. Mgrs. : R. D. Mehta Adm., Khurshid Alam Khan (Traffic); Traffic Manager, C. W. Scott.

HEALTH, EDUCATION

Birth-rate : 33.0 ; death-rate : 9.2 ; infant mortality : 74.0 per thousand people. (Till December 1957). Births 73,663 ; deaths 20,605

There are 38 hospitals and 48 dispensaries of the modern system of medicine, two Ayurvedic and Unani hospitals and 15 dispensaries and six Homœopathic dispensaries. The total bed strength is about 4,000.

Some leading hospitals are :

Mrs. Girdhari Lal Maternity Hospital, Circular Road, outside Ajmeri Gate ; Hindu Rao Civil Hospital, The Ridge, Babai Mandi ; Infectious Diseases Hospital, Kingsway ; Irwin Hospital, Circular Road ; Jeewan General Hospital, Fanechkuin Road ; Lady Hardinge Hospital, Fanechkuin Road ; St. Stephen's Missionary Maternity Hospital, Tia Hazari ; Safdarjang Annexe Hospital, New Delhi ; Shroff Charity Eye Hospital, Daryaganj ; Silver Jubilee T.B. Hospital, Kingsway ; Victoria Zenana Hospital, Mochhiwalan, Daryaganj ; Willingdon Hospital, Irwin Road.

Money allotted under the Second Five-Year Plan for medical development schemes : Rs. 1.8 crores.

Mortality from individual diseases is as follows (for the first three months of 1958) : Small-pox 11 ; dysentery and diarrhoea 156 ; respiratory diseases 1,185 ; injuries and suicides 89. Live births 15,398 ; Stillbirths 182.

The statistics of educational institutions during the year 1958 were : Higher Secondary schools 158 (58 for girls) ; High schools 72 (23 for girls) ; Middle schools (non-basic) 72 (28 for girls) ; Senior basic 58 (14 for girls). Primary schools (non-basic) 390 (118 for girls) ; Junior basic schools 281 (60 for girls) and nursery schools 8. The total enrolment figures are 348,731.

In addition, there are special institutions also—10 schools for professional education, 8 for special education and 219 social education centres.

The grand total of all types of institutions is 1,215 of which as many as 271 are Government, 191 private aided and 753 of local bodies.

Community Development (1958)

Five development blocks are being run under the Community Development Programme covering the entire rural area of Delhi. The blocks are—Alipur, Najafgarh, Mehrauli, Shahdara and Kanjhawla. For the year 1958-59 a sum of Rs. 4.89 lakhs has been provided in the budget.

The Community Development Blocks comprise 305 villages, a population of 328,968, a total area of 3,166,300 acres.

The Co-operative Movement in 1957 comprised 1,565 societies, with a membership of 102,249 and a working capital of Rs. 374.56 lakhs and share capital of Rs. 55.78 lakhs. The loans advanced amounted to Rs. 1.13 crores.

DELHI MUNICIPAL CORPORATION

The Delhi Municipal Corporation, replacing all local bodies, except the New Delhi Municipal Committee and the Delhi Cantonment Board and constituted under the Delhi Municipal Corporation Act, 1957, came into being on April 7, 1958. The Corporation is patterned on the Bombay model. It has 86 members, including six aldermen.

The Corporation assumed charge of the responsibilities in regard to medical and public health, primary and basic education, roads, water supply, bus service, electric supply, fire services, etc. which were hitherto being discharged by the Delhi Administration. About 4,000 officials who were dealing with these matters in the Delhi Administration were transferred to the Corporation.

The Corporation would have an income of about Rs. 10 crores.

New Delhi Municipal Committee : A whole-time president for the New Delhi Municipal Committee was appointed during the year

Apart from its normal functions, the New Delhi Municipal Committee serves as the electricity distributing agency in its area. There are now 15,200 street lighting points in New Delhi area. Automatic traffic control signals have been installed at the junctions of Janpath, Connaught Circus, Parliament Street which were formerly hand operated.

The total number of members in the Delhi Corporation is 86—Councillors 80, Aldermen 6.

Elections to the Corporation took place on March 20, 1958.

An estimate of the party position including the six aldermen is as follows : Congress 34, Jan Sangh 27, Independents 16, Communists 7, P.-S.P. 1, Hindu Mahasabha 1

Members

The following are the members of the Corporation. The number in the brackets shows the number of the ward the member represents.

Mayor, Trilok Chand.

Deputy Mayor, Kidar Nath Salvi.

Members : Kirpa Narain (1), Prahlad Sharan (1), Gian Chand (2), Tilak Raj (2), Moti Ram Aggarwal (3), Parmeshwari Dass (3), Smt. Prakash Vati (4), Roop Narain (4), Janardhan (5), A. D. Malhotra (5), Madan Lal (6), Vidya Rattan (6), Smt. Saria Devi (7), Sham Nath (7), Ram Charan Aggarwal (8), Shri Krishna (8), Kashmeri Lal (9), Mohd. Sayeed (9), Daroga Mal (10), L. Hari Chand (10), Shiv Charan Gupta (11), Vasu Dev (11), Des Raj (12), Smt. Kartar Devi (12), Des Raj (13), Hans Raj (13), Ram Singh (13), Baldev Singh (14), Mittar Sain (14), Trilok Chand (14), Dev Prakash (15), Kharak Singh

(15), Vashlath Kumar (15), Hakumat Rai (16), Tilak Raj (16), Balraj Khanna (17), Vijay Kumar (17), Dhani Ram (18), Prem Sagar Gupta (18), Sher Singh (18), Khub Ram Jajoria (19), Rattan Lal (19), Santokh Singh (19), Boop Lal Batra (20), Smt. Savita Behan (20), Devki Nandan (20), Harish Chandra (21), Rattan Lal (21), Amar Nath Chawla (22), Devi Dass (22), Gobind Ram (22), Abdul Aziz (23), Bansil Lal (23), Dhanpat Rai (23), Bhikuram Jain (24), Om Parkash (24), Mahan Lal (25), Ram Krishan (25), Hari Datt (26), Radha Krishan (26), Dhyan Singh (27), Narain Datt (27), R. N. Aggarwal (28), Kanwar Lal Gupta (28), Bhagwan Datt (29), Sikander Lal (29), Fateh Singh (30), Ganpat Ram (30), Kishan Lal (30), Dara Singh (31), Gobind Sahai (31), Ram Dev (31), Ragbir Singh (32), Tara Chand (32), Chander Singh (33), Kure Mal (33), Prem Sukh (33), Harbans (34), Narain Singh (34), Prem Singh (34).

Aldermen: Smt. Aruna Asaf Ali; Kidar Nath; Smt. Lella; Smt. Kaushalia Devi; Bachittar Singh Bawa; Bal Krishan.

Officials

Commissioner, P. B. Nayak, I.C.S.
Deputy Commissioners, R. Bharadwaj I.A.S.; Ishwar Dayal.
Health Officer, Col. M. S. Boparai.
Chief Engineer, Water, R. S. Mehta.
Drainage Engineer, M. A. Lokhande.
Municipal Engineer, D. Dutt.
Gen. Manager, Electricity Undertaking, Vacant.
Gen. Manager, Transport, P. K. J. Menon.
Secretary, B. N. Seth.

Chairmen of Committees

Transport Committee, Bawa Bachittar Singh.
Electricity Committee, R. R. Jain.
Water and Sewage Disposal Committee, Dr. Dhyan Singh.

DELHI UNIVERSITY

The University of Delhi was established at Delhi in May 1922, to function as unitary teaching and residential university, but it became a Federal University by an Amendment Act No. XXIV of 1943, to the Delhi University Act VIII of 1922. The University Act was further amended by Act V of 1952. The University has now been made a teaching and affiliating University.

The University confers the following Degrees and Diplomas on students on passing the appropriate examinations:

Degrees: Ph.D. (Arts, Science, Law, Education, Medical Sciences and Social Sciences), M.A., M. Lib. Sc., M.Com., M.Sc., LL.M., B.C.L., LL.B., M.Ed., B.A. (Hons.), B.M., B.A. (Pass), B.Sc. (Pass), B.Com., B.Sc. (Home Science), B.Sc. (Nursing) Hons., B.Sc. (Agriculture) Hons., B.E. (Electrical, Mechanical & Civil), B.Ch.E., B. Text., B.Arch., M.B.B.S., M.Sc. (Physiology, Pharmacology and Anatomy), M.S., and M.D. (Medicine, Obstetrics and Gynaecology and Pathology), M.Sc. (Bacteriology).

Diplomas: D.T.D., Dip. Lib. Sc., Diploma in Russian Language, Diploma in Hindi, Urdu and Panjabi, Diploma in Economic Administration & Diploma in Business Management, Diploma in Anaesthesia, Diploma in Child Health.

Certificates: Certificate of Proficiency (Law), Special Subjects Certificate in Law, Certificate of Proficiency (Russian), Certificate in French, Certificate in German, Certificate in Italian, Certificate in Swahili, Certificate in Hausa.

Medium of instruction: English.

No. of students (Nov. 1957): 13,956 (including 4,164 women);
Income (1957-58): Rs. 46,08,777; **Expenditure (1957-58):** Rs. 39,08,419.

Chancellor, Dr. S. Radhakrishnan.
Pro-Chancellor, Mr. Justice B. P. Sinha.
Vice-Chancellor, Dr. V. K. R. V. Rao.
Registrar, T. P. S. Iyer.
Information Officer: T. V. Raghavan.

CENTRAL INSTITUTE OF EDUCATION (33, Probyn Road, Delhi 8)

The Institute was founded on 19th December 1947 as an all-India institution under the Central Ministry of Education, offering training particularly of an advanced nature to teachers and other educational personnel and for conducting researches in educational problems. It is affiliated to the University of Delhi for B.Ed., M.Ed. and Ph.D. degrees. Attached to it is a psychology wing with a well-equipped laboratory for conducting researches in psychology and education. There are also an experimental basic school, a nursery school and a child guidance centre as part of the institute set-up. The institution has its own hostels for men and women students.

Principal, Dr. E. A. Pires, M.A. (Lond.), Ph.D.

COLLEGE OF NURSING

(Jaswant Singh Road, New Delhi.)

The College was established by the Government of India in July 1946 for the purpose of developing a most highly qualified leadership for the nursing profession in this country. The College draws students from States throughout India. There is a 4-year course leading to the B.Sc. (Hons.) degree in Nursing. The College also provides four Post Certificate courses (1) Ward Sisters 3 months, (2) Sisters

Tutors, (3) Midwifery Tutors, (4) Nursing Administration. Courses 2, 3, and 4 can be taken after successful completion of Ward Sisters' Course and are for a duration of 7 months. Open to qualified nurses with experience and ability to fit them for senior and responsible position and constructive work in hospital nursing services and education. These courses lead to certificates from the Government of India, recognised by the All India Nursing Council.

Principal, Dr. (Miss) Edith Buchanan, D.Ed., B.A. (Hons.), R.N., R.M.

DELHI COLLEGE

(Ajmeri Gate, Delhi.)

Delhi College is the oldest college in Delhi having been established in 1828. Since September 1947, it has been reorganised as a non-communal and a co-educational college affiliated with the Delhi University. It has arrangements for teaching all Science & Arts subjects upto the M.A., M.Sc., standard.

The College building is centrally situated at the junction of Old Delhi and New Delhi at Ajmeri Gate, on premises of its own.

Principal, M. M. Begg, M.A.

DELHI POLYTECHNIC

(Kashmere Gate, Delhi.)

There are six senior departments, viz. Engineering (Elect., Mech., Civil), Applied Science (Chem. Eng. & Tech.), Textiles, Commerce, Architecture Art, where courses leading to Delhi University degrees or diplomas or Certificates of the All India Council for Technical Education and pre-Engineering Certificate (equivalent to I.Sc.) of the Government of India are offered. The degree courses are of four years' duration inclusive of practical training (Architecture 5½ years) and the diploma-certificate courses are of 3-7 years' duration.

Attached to the Polytechnic is a Technical Higher Secondary School in which, in addition to the usual subjects, Elementary Engineering Science, Drawing and Workshop Practice are taught in the last 3 years.

Principal, S. C. Sen, B.Sc. (Engg.) (Glasgow).

DELHI SCHOOL OF ECONOMICS

(Malkaganj Rd., Delhi 8.)

This is a post-graduate institution for advanced studies and research in Economics. It functions as the Department of Economics and Commerce of the University of Delhi.

Director: Dr. B. N. Ganguli, M.A., F.R.S., Ph.D.

DELHI SCHOOL OF SOCIAL WORK

(3, University Road, Delhi 3.)

Delhi School of Social Work is a Constituent College of the University of Delhi as a post-graduate institution training students for M.A. in Social work.

The College imparts training in Social Work to young men and women holding college degrees and have the aptitude for Social Work. The College occasionally offers courses of orientation and in Service training for specific fields of Service.

Limited hostel accommodation is available for both men and women.

Principal, M. S. Gore, M.A., Dip. S.S.A.

DELHI UNIVERSITY FACULTY OF LAW

(Old Viceregal Lodge, Civil Lines, Delhi.)

The Faculty provides courses both for legal practice and for study of Law as a cultural subject. It prepares students for the LL.B., B.C.L., LL.M. and Ph.D. Degrees, as well as for the Certificate of Proficiency Examination (Punjab) in Law. It has a well-equipped Library containing about 15,000 volumes including a large number of reports (Indian, English and American) and standard text-books. It also subscribes to a large number of journals, including English and American. The University Halls admit a certain number of students of the Faculty. Present strength: about 1,000 students; 34 teachers.

Dean, Prof. L. R. Sivasubramanian, B.A., M.L.

DESHBANDHU COLLEGE

(Kalkaji, New Delhi.)

The College was started in July, 1952, by the Ministry of Rehabilitation, Govt. of India, with the object of providing educational facilities to residents of the newly constructed colonies in the South of Delhi. It imparts instruction in Science and Arts to students preparing for the qualifying examination, the Pre-Medical examination the B.A. and B.Sc. Pass & B.A. (Hons.) Course. It is a co-educational institution.

Principal: Dr. A. N. Banerji, M.A., Ph.D.

HANS RAJ COLLEGE

(University Enclave, Delhi 8.)

Started in 1948, by the D.A.V. College Management & Trust Society (Lahore), Delhi, the College is housed in a newly constructed spacious building in the University Enclave. It is a constituent

college of the University of Delhi, and prepares students in Arts and Science for Preparatory, Pre-Medical, B.A. (Pass & Honours), B.Sc. (Pass & Honours) and M.A. examinations. It has a highly qualified staff, a well-equipped library, a prayer hall, playing-grounds and a hostel with modern amenities.

The college aims at an integrated development of the personality of the students, inculcating in them the spirit of service and qualities of good citizenship.

Principal : Dr. G. L. Datta, M.A., Ph.D. (Göttingen).

HINDU COLLEGE

(Imperial Avenue, Delhi.)

This is a first grade constituent college of the Delhi University. It imparts instruction to students upto the M.A. standard and registers candidates for the Ph.D. degree. It admits students to the Faculty of Science upto M.Sc. standard including the Pre-medical course. It has a well-equipped library and reading room and has a hostel for resident students.

Principal : Raj Narain Mathur.

THE INDIAN SCHOOL OF PUBLIC ADMINISTRATION

(Indraprastha Estate, Ring Road, New Delhi 1.)

Director of the Institute and Principal of the School : Prof. V. K. N. Menon, M.A. (Oxon.).

An institution primarily intended to impart higher education in the field of Public Administration (including Economic Administration and Social Administration).

Courses of instruction are designed to give the student a broad comprehension of the process of making of public policy as well as of the agencies, techniques and tools that facilitate its efficient administration. The main objective of the School may be briefly described as the provision of a liberal education in a professional subject.

The courses of instruction given by the School are of two types :—

- (1) Sessional courses, extending over two academic years, leading to a Master's Diploma in Public Administration meant for those who desire to enter public services, university teaching, or public life. The duration of the course is one year for those who hold a Masters' degree in Political Science, Public Administration, Economics, or Sociology or those who hold a Bachelor's degree and have been in the service of the Government, or a Public Enterprise or Local Authority for a minimum period of five years.
For the year 1954-55, as the first year of the course, and because of limited accommodation at 6, Bhagwandas Road, where the school was located till January 2, 1956—7 students were admitted to the First Year Course and 23 to the Second Year. There is provision for 50 students in the Second Year Class and a smaller number in the First Year for the 1955-60 session to commence on July 13, 1959.
- (2) Short-term courses on specific aspects of public administration for public servants, university teachers, and others engaged in or interested in public administration.

INDIAN SCHOOL OF INTERNATIONAL STUDIES

(Barakhamba Rd., New Delhi.)

Director, Dr. A. Appadorai; *Professor of International Law*, Prof. P. E. Corbett; *Head of the Department of American History and Institutions*, Prof. Phillips Bradley; *Head of the Department of East Asian History and Institutions*, Prof. Tasuko Ueda; *Head of the Department of Central Asian History and Institutions*, Prof. H. Iramura; *Head of the Department of Commonwealth History and Institutions*, Prof. F. H. Soward; *Head of the Department of International Economics*, Dr. S. Mookerjee; *Head of the Department of Southeast Asian History and Institutions*, Dr. B. R. Chatterji; *Head of the Department of South Asian History and Institutions*, Dr. Tara Chand; *Head of the Department of West Asian History and Institutions*, Prof. A. Aleem; *Hon. Administrative Officer*, Rai Bahadur A. P. Dube.

INDRAPRASTHA COLLEGE FOR WOMEN

(Allipur Road, Delhi.)

This is a constituent college of the Delhi University. It imparts education in Arts and Science upto the M.A. standard, and provides hostel accommodation as well as conveyance facility.

Principal : B. Das Gupta.

LADY HARDINGE MEDICAL COLLEGE FOR WOMEN

(Lady Hardinge Road, New Delhi 1.)

The college is situated on Lady Hardinge Road, New Delhi and the hospital on Panch Kuin Road. It was opened on 17th February 1916 and provides a 5 years' course of instruction and one year rotating internship for the M.B.B.S. degree of the Delhi University. It also gives post-graduate instruction for the M.Sc. degree in Anatomy, Physiology and Pharmacology, M.D. in Medicine, Obstetrics and Gynaecology, and Pathology and M.S. in Surgery. It has been re-

cognised for this course by the Delhi University from the year 1955. It is a residential college and has arrangements for accommodating 300 medical students in the college hostels. The hospital, which serves as a teaching field for the college students is well-equipped with X-ray, and Electrical appliances and has departments of Surgical, Obstetrical, Gynaecological, Medical and Ear, Eye, Nose and Throat for indoor and outdoor women and children patients only.

Principal : Lt.-Col. V. Srinivasan.

LADY IRWIN COLLEGE FOR WOMEN

(Sikandra Road, New Delhi.)

Lady Irwin College is the first institution for young women in the country to recognise the necessity for scientific and professional instruction in Home Science suited to Indian conditions of life. It was established on November 12, 1932.

Six departments are maintained at present (1) a Needlework Diploma Course extending over a period of 2 years, (2) a Teachers' Training Diploma Course extending over one year, (3) a Home Science Diploma Course extending over two years, (4) a B.Sc. Course in Home Science extending over a period of three years, (5) the B.Ed. course extending over one year and (6) M.Sc. course in Nutrition of 2 years' duration.

It also provides instruction in Vocal and Instrumental Music, Indian Dancing, Painting, Arts and Crafts, Shorthand and Typing. *Directress* : Mrs. B. Tara Bel.

MIRANDA HOUSE (UNIVERSITY COLLEGE FOR WOMEN)

(Central Avenue Road, Delhi 8.)

This college imparts University education to women students in all Arts subjects and Mathematics for the B.A., B.Sc. (Pass and Hons.), M.A. and M.Sc. degree courses. All Science subjects are taught at the University. The College building and the hostel are situated in the Delhi University Campus.

Principal, Mrs. S. Krishnasami.

RAMJAS COLLEGE

(Central Avenue Road, Delhi 8.)

The College was founded in 1917 and is one of the constituent colleges of the University of Delhi. It provides instruction for all the examinations of the University of Delhi including the Qualifying, Pre-medical, B.A., B.A. (Hons.), B.Sc. (Pass and Honours), B.Com., M.A. and M.Sc.

The new building in the University Campus was opened in July 1954.

Principal : B. B. Gupta, M.A.

SHRI RAV COLLEGE OF COMMERCE

(Patel Marg, Delhi 8.)

The institution is located on Central Avenue in the Delhi University Campus. It is a first grade professional college imparting instruction to students preparing for the B. com., M. com., B.A. (Hons.) and M.A. in Economics Examinations. The College was founded in 1920 by the Commercial Educational Trust and was recognised by the University of Delhi in 1926 as one of its constituent colleges. It was raised to the Degree standard in 1932, and has many different extra-curricular activities.

Principal : Jai Narayan Vaidh, M.A., G.D.A., F.C.A.

SRI GURU TEGH BAHADUR KHALSA COLLEGE

(Karol Bagh, New Delhi 5.)

The College was started in 1951 by the Delhi State Gurdwara Parbandhak Committee as a constituent college of the University of Delhi. It provides instruction for the Qualifying, Pre-medical, B.A./B.Sc. (Pass & Hons.) & M.A./M.Sc. examinations.

Principal, S. Gurbachan Singh Bal, M.Sc.

ST. STEPHEN'S COLLEGE

(Delhi 8.)

The College was founded in 1881 and is one of the constituent colleges of the University of Delhi. It has arrangements for teaching Science and Arts subjects upto M.A. and M.Sc. standard.

Principal, D. Raja Ram.

ASSOCIATIONS, SOCIETIES, ETC.

AERONAUTICAL SOCIETY OF INDIA

Talkatora Road, New Delhi.

President : K. K. Roy; *Hon. Secretary* : C. R. Rao; *Hon. Treasurer* : Air Commodore M. S. Chaturvedi.

ALL DELHI SARFAA ASSOCIATION

C/o M's. Mahfab Singh Jain & Sons, Dariba Kalan, Delhi.

Patron : Shri Krishan Khanna; *President* : Kishan Chand Jain; *Vice-President* : Kanahi Ram; *General Secretary* : Mahabab Singh Jain, B.A., LL.B.; *Secretary* : Mali Ram Hira.

THE ALL-INDIA ANGLO-INDIAN ASSOCIATION

Bombay Life Building, New Delhi.

President-in-Chief, Frank Anthony, B.A., Bar-at-Law, M.P.; *Honorary General Secretary*, A. E. T. Barrow, M.P., B.A., H. Dip. Ed. (Dublin).

ALL INDIA BLIND RELIEF SOCIETY

2F, Lajpatnagar, New Delhi 14.

Director & Secretary: Dr. Kumar Pal Agrawal, M.A., Ph.D.

ALL-INDIA BOY SCOUTS ASSOCIATION

(General Headquarters.)

7, Jangpura B Extension, Mathura Road, New Delhi 14.

Aims: The aim of the Boy Scouts Association is to help boys irrespective of race, creed, or caste, to become good citizens, reverencing God, living as loyal citizens and subordinating personal interests to the welfare of others, abstaining from violence of thought, word or action; to form their character by training them in habits of observation, obedience and self-reliance; inculcate loyalty, patriotism, thoughtfulness; to teach them services useful to the public and handicrafts useful to themselves, and to promote their physical development and health.

OFFICE-BEARERS.—*Chief Scout for India*, Col. Nawab Sir Muhammad Ahmad Naid Khan of Chhatari, M.P., G.B.E., K.C.S.I., K.C.I.E., M.B.E., LL.D.

Chief Commissioner for India, Vyas Dev Misra, M.A. (Eng.), M.A. (Econ.), B.Sc., LL.B., Barrister-at-Law.

Deputy Chief Commissioner for India, Nawab Syed Kaiser Hussain Rizvi, B.A. (Hons.), M.A., LL.B.

International Commissioner, Lieut.-Colonel C. L. Bhole, M.B.E.S., M.R.C.P. (Edin.), D.P.H., D.T.M. & H., I.M.S. (Retd.).

National Commissioner, Dr. P. D. Dhameja, M.B.E.S., L.R.C.P. (Lond.), M.R.C.P. (Eng.), D.A.

Camp Chief for India, A. S. Virley, B.A., M.B.E.

General Secretary for India, S. H. A. Jaffri, B.Com., D.C.C., Ak.L.

Editor (Indian Scouter): Prof. V. M. Misra, M.Sc., B.Sc. (Hons.).

National Secretary, Prof. Om Prakash, M.A.

ALL INDIA CATTLE SHOW COMMITTEE

3, Ansari Road, Daryaganj, Delhi 7.

Secretary: M. R. Sharma; *Asst. Secy.*: Nihal Chand; *Sales Intelligence Officer*: O. P. Tejpal.

ALL INDIA CO-OPERATIVE UNION

72, Jorbagh Nursery, New Delhi 3.

National organisation of the Co-operative Movement with State Institutions as members. Devoted to promotion of co-operation in all its aspects. Publishes monthly, "All India Co-operative Review" and fortnightly "All India Co-operative News Service".

President, K. D. Malaviya.

Vice-Presidents, Prof. N. G. Ranga, M.P., Dip.; Narain Sinha.

General Secretary, B. J. Patel.

ALL INDIA COUNCIL OF SPORTS

The All India Council of Sports which was reconstituted by the Government of India with effect from March 2, 1959, consists of 15 members including the President nominated by the Government of India for a period of two years. The new Council is entirely nominated in their personal capacity.

The Council is an Advisory Body.

Council: Dr. P. Subbarayan (*President*); H. H. the Maharaja of Patiala; Rajkumari Amrit Kaur; Naval H. Tata; General K. S. Thimayya; S. M. Moynul Haq; M. S. Dupleinghji; M. K. Kaul; G. D. Sondhi; M. N. Kapur; Prof. N. K. Sidhanta; S. N. Wanchoo; Jaipal Singh; P. N. Kirpal; M. N. Masud.

ALL INDIA DISTILLERS' ASSOCIATION

H-37, Connaught Circus, New Delhi.

President: Jivanlal Chhotalal; *Secretary*: O. N. Chandoke.

ALL INDIA FINE ARTS AND CRAFTS SOCIETY

Old Mill Road, New Delhi.

Acting President: Dr. M. S. Randhawa; *Chairman*: K. R. K. Menon.

ALL-INDIA GLASS MANUFACTURERS' FEDERATION

Gobind Mansion, Connaught Circus New Delhi.

President, C. L. Jain.

Hony. General Secretary, R. B. Sarkar.

Secretary, S. Jaswant Singh Sodhi.

ALL INDIA MOTOR UNIONS CONGRESS

16-A, Asaf Ali Road, New Delhi.

President: Rajkumari Amrit Kaur, M.P.; *Secretary General*: Kundan Lal; *Working President*: S. Harbhajan Singh.

ALL-INDIA NEWSPAPER EDITORS' CONFERENCE

50, Theatre Communication Bldg., New Delhi.

President: Durga Das; *Secretary-General*: Ranbhir Singh; *Treasurer*: Vivalandhu Gupta; *Office Secretary*: Jag Parvesh Chandra.

ALL-INDIA ORGANISATION OF INDUSTRIAL EMPLOYERS

Federation House, New Delhi 1.

Established in 1933. The objects of the Organisation are to promote and protect the industrial development of India by studying various problems relating to trade, industry and labour and advising the Central and State Governments suitably; to study questions coming up at the International Labour Organisation and other international and national conferences from the point of view of Indian industry and to enable the Indian representatives at these conferences to take an appropriate stand; and to promote harmonious relations between the management and labour.

Any association representing employers in any trade and industry is entitled to become an association member of the Organisation. Any individual, firm or joint-stock company engaged in any industry is eligible to the individual membership of the Organisation. The annual subscription for association members is Rs. 500 and for individual members, Rs. 100.

President, Iala Lakshmipt Singi ania, Calcutta.

Secretary-General, G. L. Bansal.

Secretary, P. Chentul Rao.

ALL-INDIA PEACE COUNCIL

14, Munshi Niketan, Kamela Market, New Delhi.

President: Pandit Sundarlal.

ALL-INDIA REFUGEE ASSOCIATION

Room No. 30, Lakshmi Insurance Bldg., Asaf Ali Road, New Delhi.

President: Feroz Chand; *Gen. Secretary*: Ishar Singh Grover.

ALL INDIA TRADE UNION CONGRESS

4, Ashok Road, New Delhi.

President: S. S. Mirajkar; *General Secretary*: S. A. Dange, M.P.

ALL INDIA TUBEWELL DRILLERS ASSOCIATION

12, Scindia House, New Delhi.

Hony. Secretary: R. R. Gupta.

ALL-INDIA WOMEN'S CONFERENCE

(See under some Women's Associations).

AMATEUR ATHLETIC FEDERATION OF INDIA

National Stadium, New Delhi.

President: Raja Bhallinder Singh; *Hon. Secretary*: M. G. Dhawan;

Hon. Treasurer: P. K. Mathur.

ASIAN THEATRE INSTITUTE

Conference Hall, Exhibition Grounds, Mathura Road, New Delhi.

Chairman of the Advisory Board: Shrimati Kamaladevi Chattopadhyay; *Director*: Dr. Nihar Ranjan Ray; *Deputy Director*: Prof. M. M. Bhalla.

ASOKA MISSION

Asoka Vihara, Mehrauli, P.O. New Delhi.

Educational, Social, Health, Cultural & Spiritual.

President: Shrimati Rameshwari Nehru; *Gen. Secy.*: V. Dharmawara.

ASSOCIATION FOR MORAL AND SOCIAL HYGIENE IN INDIA

C/o 211A, 'P' Block, Raisina Road, New Delhi.

Aims and Objects:—The eradication of commercialised vice and kindred evils and the securing of condemnation of all forms of State regulation of this vice. The raising of the standard of character and conduct and the upholding of a single high moral standard for men and women in matters relating to sex behaviour thus upholding the highest family traditions and ensuring a recognition that national life must be based upon a wholesome family life.

President: Dr. Sushila Nayar, M.P.; *Vice-Presidents*: Smt. Shanti Kabir, M.A., Rajmata Kamendumati Shah, Sardar B. S. Puri; *Hon. Gen. Secretary*: Smt. Shakuntala Lal, B.Sc., LL.B.; *Hon. Treasurer*: Sardar Mohan Singh.

AUTOMOBILE ASSOCIATION OF UPPER INDIA

Lilaram Bldg., 14 F, Connaught Place,

P.O. Box No. 28, New Delhi.

President: P. L. Mehta, J.P., I.P.; *Vice-President*: Bhal Mohan Singh; *Hony. Genl. Secretary*: P. L. Vohra.

BANASPATI MERCHANTS' ASSOCIATION

C/o Messrs. Prabhu Dayal Hari Ram, Khari Baoli, Delhi 6.

President: L. Hari Ram; *Secretary*: L. Dwarka Pershad.

BHARAT SCOUTS AND GUIDES

Regal Buildings, Parliament Street, New Delhi.

President, Mangaldas M. Pakvasa.*National Commissioner*, Mr. Justice Vivian Bose.*Chief Commissioner for Scouts*, Madan Mohan.*Chief Commissioner, Guides*, Mrs. Chubwala Jadhav.*National Organising Commissioner*, D. P. Joshi.*Jt. National Organising Commissioner, Guides*, Mrs. Wahabuddin Ahmed.*National Secretary*, Saroj Ghosh.*Jt. National Secretary*, Mrs. Sneha Patwardhan.**BHARAT SEWAK SAMAJ**

(47, Theatre Communications Bldg., New Delhi 1.)

A national organization, non-political, non-official in character, devoted to the task of economic and social reconstruction of India by mobilising public co-operation in the Five Year Plans.

Sponsored by the Planning Commission in 1952, as a result of a recommendation of the National Advisory Committee on Public Cooperation, the Bharat Sevak Samaj has, within a period of six years, grown into a country-wide organisation with branches in 29 Provinces and in about 200 Districts.

The Samaj has carried the message of the Plan to the people through about 200 district information committees and 3,000 village committees. It publishes a monthly bulletin in 15 regional languages. It has done extensive work in social welfare and has organised 253 adult education centres, 80 *Bal Haris*, 72 maternity and child welfare centres and 128 Craft and Aushar (Charkha) centres. The Central Social Welfare Board has allotted 21 pilot welfare extension projects to be run by the Bharat Sevak Samaj in urban areas.

About 2,500 work camps in which about 1,75,000 boys and girls have participated have been held. The Samaj has undertaken slum service in Delhi and Bombay.

Construction work has been a very important programme of the Bharat Sevak Samaj. Work costing Rs. one crore was done on the Kool. The work was organised on a cooperative basis and netted higher wages for the workers and brought down the cost to the Government. Similarly, work costing Rs. 10 lakhs has been done on Nagarjunasagar, about Rs. 5 lakhs on the Chambal, and about Rs. 11 lakhs on various undertakings in Delhi.

The Lok Karya Kshetra Scheme, the latest project evolved by the Bharat Sevak Samaj, will cover about 100 villages. The specific programmes of activity in the *Kshetras* will be generally implemented through the process of self-help and self-financing.

President, Jawaharlal Nehru; *Chairman*, Gulzari Lal Nanda; *Secretaries*: Krishna Prasad; Jugal Kishore Khanna.

BHARATIYA ADIMJATI SEVAK SANGH

Kingsway, Delhi 9.

Aims and Objects:—To work for the primitive and the aboriginal tribes in India and to uplift them socially, economically, culturally and educationally by recognising and affiliating such institutions and associations as have similar objects as those of the Sangh; by co-ordinating the work of the affiliated institutions through advice, guidance and help; by establishing centres for the amelioration of the conditions of the primitive tribes; by starting centres for training of workers for social and other work for primitive tribes, by encouraging research in anthropological study of the problems of the primitive tribes.

Office-Bearers:—*President*, Dr. Rajendra Prasad; *Vice-Presidents*, U. N. Dhebar, Dr. H. N. Kunzru, L. M. Shrikant; *Secretaries*, Shramdev Shastri, N. M. Wadia and D. J. Nalk; *Treasurer*, Bhagirath Kanoria.

BHARATIYA NATYA SANGH

(Theatre Centre, India)

Plot No. 34, New Central Market, Connaught Circus, New Delhi.

An all-India organisation set up in 1950. It reaches more than 300 groups through 23 centres in New Delhi, Calcutta, Simla, Rajkot, Bombay, Secunderabad, Cuttack, Ahmedabad, Belgaum, Bangalore, Madras, Meerut, Gwalior, Poona, Panarru (Krishna Dist.), Imphal, Botigiri (Mysore State), Nagpur, Patna, Bhopal, Coondapur (Mysore State) and Kanpur.

The main purpose is to stimulate drama, music and art and build an integral national theatre movement without detriment to local traditions.

During 1950 the Centre has undertaken projects to collect traditional theatre costumes and allied arts, a record of dramatic art forms and bibliography of notable plays in all Indian languages. It plans to hold a Theatre Architecture Exhibition in February, 1960.

President, Kamaladevi Chattopadhyaya, *Hon. General Secretary*, R. P. Dhamija.

BHARTIYA ORPHANAGE TRUST SOCIETY

Bazaar Mitra Ram, Delhi.

President: R. S. Seth Mina Mal Somani; *Secretary*: R. S. Sri Ram, Bar-at-Law.

BHARATIYA SANGEET VIDYALAYA

16 5, D. Kamala Nagar, Delhi.

14 4, East Patel Nagar, New Delhi.

A full fledged Degree College for the culture of classical music and dance. Affiliated to the Bhatkhande Sangeet Vidyapith, Lucknow, and recognised by the Sangeet Natak Akademy and Delhi State Government.

President: Padma Bhushan Dr. S. N. Ratanjanker (Vice-Chancellor, Indra Kala Sangeet Vishwa Vidyalaya); *Acharya and Founder Secretary*: Shripada Vandyopadhyaya.

THE BLIND RELIEF ASSOCIATION, DELHI

65, Bazar Road, New Delhi 1.

President, Ananthasayanam Aiyangar; *Honorary General Secretary*, U. A. Basurker; *Honorary Treasurer*, D. R. Bery.

BRIHAN MAHARASHTRA MANDAL

6/20, W. E. A., New Delhi 5.

President: Y. B. Chavan.*Working President*: N. V. Gadgil.*General Secretary*: N. B. Tikkar.**CAMBRIDGE BROTHERHOOD OF THE ASCENSION**

Cambridge Brotherhood House, 7, Court Lane, Delhi 8.

Head: Revd. K. G. Sharp, M.A.**THE CENTRAL DAIRY**

Near West Patel Nagar Rly. Station, Delhi.

The Central Dairy, India's biggest dairy, was expected to be completed by August 1959.

When in full operation, it will handle 12,000 maunds of milk per day. Initially, however, the daily supply will be 7,000 maunds, which should meet the needs of the 1.8 million population.

The dairy also provides for the manufacture of certain by-products such as butter, ghee, ice-cream and milk powder to absorb seasonal surpluses in supply over demand.

It is aimed to set up cattle colonies for housing the milch animals, at an estimated cost of Rs. 90 lakhs.

Milk will be made available to Delhi citizens through a chain of 1,000 milk depots and 50 all-day milk shops located in various parts of the metropolis.

CHILDREN'S FILM SOCIETY

Sapru House, Barakhamba Rd., New Delhi.

Established by the Govt. of India with the object of furthering the Children's Film Movement in India in May 1955. Produced "JALDEEP" which won the 1st prize at Venice International Film Festival, children's section and Prime Minister's Certificate of Merit as best film of 1956. Established State Committees, Madras: *President*, C. Subramanyam, State Minister for Education; Punjab: *President*, Smt. Anusya Bai (Gadgil); Bihar: *Dr. Zakir Hussain*, Governor; Bombay: *Sri Prakasa*, Governor; members included among others: N. K. Tirpude, Minister for Social Welfare, J. C. Jain, Smt. Nargis and D. N. Pradhan; Rajasthan: *President*, Devishankar Tiwari, Ex-Chairman, Rajasthan Public Service Commission; Mysore: *President*, V. Venkatappa, State Minister for Education; Kerala: *President*, E. M. S. Namboodiripad, Chief Minister; Andhra Pradesh: *President*, S. B. P. Pattabhirama Rao, State Minister for Education. The Committees arrange to show children's films and make versions in the regional languages of the films produced by the Children's Film Society. The Society has prepared 17 children's films.

Patron: Dr. Rajendra Prasad.*President*: R. R. Diwakar.*General Secretary*: Mahendra Nath.**CHURCH OF ST. JAMES**

Kashmere Gate, Delhi 6.

Vicar: Revd. I. C. Weatherall.**CHILDREN'S LITTLE THEATRE**

1, Sonohri Bagh Road, New Delhi.

Patron: Smt. Indira Gandhi; *President*: Smt. Kamala Devi Chattopadhyaya; *Chairman, Governing Body*, Smt. Lakshmi Mazumdar.

COMMITTEE ON RELIEF AND GIFT SUPPLIES, NATIONAL CHRISTIAN COUNCIL OF INDIA

17-B, Gangaram Hospital Marg, New Delhi.

Chairman: Samuel Mathai; *Director*: J. S. S. Malelu; *Acting Director & Representative, Church World Service*: Edward Benedict.

CONVENTION OF THE TEACHERS OF THE DEAF IN INDIA
C/o Govt. Lady Noyce School for Deaf & Dumb, New Delhi.

Aims and Objects:—To urge for compulsory education for the deaf-mute; To stimulate public interest; Removal of legal disabilities of the deaf-mute; Research in all matters concerning the deaf-mute; Resettlement of the deaf-mute.

Publications: *The Deaf in India*.

President: T. N. Singh, M.P.; *Hony. Treasurer*: Seth Govindram Hassaram; *Hony. General Secretaries*: Smt. Subhadra Joshi, M.P., A. C. Sen; *Editor*: T. R. Kuppaswamy.

CO-OPERATIVE FOR AMERICAN REMITTANCES TO EVERYWHERE INC.

124, Jan Path, New Delhi 1.

Chief of CARE: Oden Meeker.

Assistant Chief of CARE, Eastern India, P. Box 9076, Calcutta: Frederick T. Davis.

Staff Asst., Western India CARE, P. Box 1205, Bombay: Paul Rusby.

Staff Asst., Southern India CARE, P. Box 3761, Madras: Robert S. McClusky.

CULTURAL FILM SOCIETY (Sapru House, Barakhamba Road, New Delhi.)

Established in 1949. Started the Children's film movement in India in 1951.

President: Pt. H. N. Kunzru.

Secretary: Mahendra Nath.

DARIBA SARRAFA ASSOCIATION

C/o Messrs. Mahtab Singh Jain & Sons, Dariba Kalan, Delhi.

President: Shri Krishna Khanna; *Senior Vice-President*: Dwarka Das Sehgal; *Junior Vice-President*: Dhanno Mal Jain; *Secretaries*: Mahtab Singh Jain, B.A., LL.B.; Mali Ram Hira.

DELHI BUILDING MATERIAL DEALERS ASSOCIATION Ajmeri Gate, Delhi.

President: L. D. Mal Jain; *General Secretary*: Gunbir Kishore Mathur; *Treasurer*: L. Bilomal Jain.

DELHI CHAMBER OF COMMERCE

Dilbar Building, Paharganj, Desh Bandhu Gupta Road, Delhi 1.

Was established in 1949 and was registered under the Indian Companies Act, 1913 in January 1950. The main object for which the Chamber was established was to safeguard the interests of Indian Commerce, Industry, Trade and Agriculture of the State of Delhi in particular and of India in general. Member of the Federation of Indian Chambers of Commerce and Industry, New Delhi and of the Indian National Committee of the International Chamber of Commerce, Paris.

President: Kirpa Narain.

Senior Vice-President: Bhal Mohan Singh.

Junior Vice-President: Bhagwan Das Chopra.

Honorary Secretary: Sirdar P. S. Sodhbans, F.C.A., F.A.C.C.A. (Lond.)

DELHI DYERS DEALERS ASSOCIATION

Tobacco Katra, Delhi 6.

President: Ramkishandas; *Secretary*: Premkumar Jain; *Treasurer*: Mohanlal Shah.

DELHI ELECTRICAL TRADERS ASSOCIATION

Behind State Bank of India, Chandni Chowk, Delhi.

President: Radha Kishan; *Secretary*: Diwan Chand Gupta.

DELHI FACTORY OWNERS FEDERATION

Scindia House, Curzon Road, New Delhi 1.

President: M. D. Dalmia; *Vice-President*: S. Charanjit Singh; *Secretary*: S. Sangat Singh.

DELHI GRAIN MERCHANTS' ASSOCIATION

Swamy Shradhananda Road, Naya Bazar, Delhi.

President: L. N. Poddar; *Secretary*: B. R. Gupta; *Treasurer*: Ram Sarup.

DELHI HINDUSTANI MERCANTILE ASSOCIATION

641/1213, Chandni Chowk, Delhi 6.

OFFICE-BEARERS: R. S. Gur Pershad Kapoor (*President*); B. L. Kapoor (*Senior Vice-President*); K. G. Rohtagi (*Jr. Vice-President*); Ganpat Rai, M.A. (*Hon. Secretary*).

DELHI LIBRARY ASSOCIATION

Marwari Public Library, Chandni Chowk, Delhi 6.

President: Ch. Brahm Prakash, M.P.; *General Secretary*: P. N. Kaula; *Secretary*: K. S. Pareek.

DELHI MEDICAL ASSOCIATION

Medical Association Road, Darya Ganj, Delhi 7.

President: Lt. Col. Amr Chand; *Hon. Secretary*: Dr. Mahesh C. Gupta.

DELHI MOTOR TRADERS' ASSOCIATION

Post Box 1098, Kashmere Gate, Delhi 6.

President: Dr. Tirkok Singh; *Hony. Secy.*: Bhambher Dayal.

DELHI NATYA SANGH

7/A, Railway Colony, Hardinge Avenue, New Delhi 1.

OFFICE BEARERS: *President*, Begum Qudsia Zaidi; *Vice-Presidents*, R. G. Anand, D. R. Mankekar; *General Secretary*, B. R. Narula.

DELHI PAINT MERCHANTS ASSOCIATION

C/o Lalit & Co.

Fatehpuri, Delhi.

President: Bawa Bachittar Singh; *Secretary*: Lalit Mohan Sharma; *Treasurer*: Ram Parkash Mehra.

THE DELHI PROVINCIAL TEXTILE RETAILERS ASSOCIATION

"Vastrilok", 1, Queen's Garden, Delhi 6.

President, B. M. Ahuja; *Hony. General Secretary*, Trilokinath Garg.

DELHI PUBLIC LIBRARY

(Queen's Road, Delhi 6.)

The library was started under the joint auspices of the Government of India and UNESCO on November 1, 1951, as a model for similar institutions elsewhere.

The library is open to all, and no subscription is charged. The library provides home reading, reference and information services. There is a section for children. Extension service includes a mobile library with deposit stations, promotion of social education, training in library technique and allied matters.

On January 1, 1959 there were in all 41,841 members. The number of books in stock was 140,993 (Hindi 88,210; English 29,178; Urdu 25,332; Punjabi 4,273).

Director, M. M. L. Tandon.

DELHI SILPI CHAKRA

Flat No. 19, New Central Market, Connaught Circus, New Delhi. Assocn. of Painters & Sculptors.

Chairman: B. C. Sanyal; *Secretaries*: D. R. Howshik, Kanwal Krishna.

DELHI STATE CHEMISTS ASSOCIATION

Surgical & Medicine Market, Bhagirath Palace, Chandni Chowk, Delhi 6.

President: S. Jagmohan Singh Kochhar; *Hony. Secretary*: S. L. Nayyar, B.Sc., LL.B.; *Treasurer*: K. R. Sawhney.

DELHI STATE COUNCIL FOR CHILD WELFARE

Qudsia Garden, Allipur Road, Delhi 8

President: Dr. Sushila Nayyar; *Hony. Secy.*: Mrs. S. Krishna; *Hony. Joint Secretary*: Mrs. K. Tandon.

DELHI TUBERCULOSIS ASSOCIATION

Room No. 56, Old Secretariat, Delhi 8.

President: Dr. Yudhvir Singh; *Hon. Secretary*: Dr. R. Krishna; *Hon. Treasurer*: K. L. Rathee.

THE DELHI WATCH TRADERS SYNDICATE

Post Box No. 1751, Delhi.

President: Prem Nath of K. C. Roy & Co.; *Vice-President*: Hardayal of Swastik Watch Co.; *Hony. General Secretary*: D. N. Sondhi of D. N. Sondhi & Co.

DELHI WOMEN'S LEAGUE

Sarnawati Bhawan, Darya Ganj, Delhi.

President, Smt. Rameshwari Nehru; *Chairman*, Smt. Raksha Saran; *Hon. Secy.*, Smt. Kunti Sondhi.

DENTAL COUNCIL OF INDIA

Temple Lane, Kotla Road, New Delhi.

President: Dr. R. Ahmed, D.D.S., F.D.S., R.C.S., F.R.C.S., F.I.C.D. (Minister for Agriculture, W. Bengal); *Vice-President*: Col. N. N. Bery, D.D.S., D.E.D.P., E.D.S., F.D.S., R.C.S., F.I.C.D.; *Secretary*: Capt. S. Bratt, L.D.S.C., F.I.C.D.

THE FAMILY PLANNING ASSOCIATION

3, Cavalry Lines, Delhi 8.

President: Mrs. L. Pandit; *Hon. Secretary*: Mrs. Vinla Virmani; *Hon. Treasurer*: Dr. R. D. Sharma.

FEDERATION OF ALL INDIA FOOD GRAIN DEALERS' ASSOCIATIONS OF INDIA

3970, Naya Bazar, Delhi 6.

President: M. H. Hasham Premji; *Sr. Vice-Presidents*: Lachmi Narain Poddar, A. R. Kothandaram Reddier.

FEDERATION OF HOTEL AND RESTAURANT ASSOCIATIONS OF INDIA

Malden's Hotel, Delhi.

President: Rai Bahadur M. S. Oberoi; *Vice-Presidents*: Sir Ruston P. Masani, K. Heuer; *Hon. Secretary*: L. C. Nirula; *Jt. Hon. Secretary*: M. S. Shaw.

FEDERATION OF INDIAN CHAMBERS OF COMMERCE AND INDUSTRY

(Estd. 1927)

Federation House, Barakhamba Road, New Delhi.

The Federation is recognised by the Central Government as the premier organisation representing commercial and industrial interests in the country. The headquarters of the Federation are situated in New Delhi.

The Federation has on its roll 118 Chambers of Commerce and Trade and Industrial Associations and 225 Associate Members, comprising leading business houses in the country. The Federation, through its constituents, covers almost the whole of the organized Indian industry and trade. It is represented on almost all important Consultative Bodies of Government. The Central Advisory Council of Industries, the Import and Export Advisory Councils, Capital Issues Advisory Committee, are some of the important Bodies on which the Federation is represented.

The membership of the Federation is of four classes Ordinary, Honorary, Overseas and Associate.

The Federation issues a bulletin *Fortnightly Review* containing information and comments on current economic events in India and abroad.

The Federation has been instrumental in the establishment of two allied organisations—All India Organisation of Industrial Employers and the Indian National Committee of the International Chamber of Commerce.

President : Madan Mohan R. Ruia.
Vice-President : A. M. M. Murugappa (Chettiar).
Secretary-General : G. L. Hansal.
Treasurer : P. N. Talukdar.
Secretary : P. Chentassal Rao.

THE FORD FOUNDATION

32, Ferozshah Road, New Delhi.

Representative in India : Dr. Douglas Knemenger.

GANDHARVA MAHAVIDYALAYA

42-C, Prem House, Connaught Place, New Delhi.

President : S. K. Patil; *Secretary* : Smt. Satyavati Malik; *Principal* : Vinaya Chandra Mandgalya.

GANDHI SMARAK HARIJAN SHIKSHA SAMITI

179, Bhangli Colony, Reading Road, New Delhi.

President : Dr. Sushila Nayar, M.P.; *Treasurer* : S. L. K. Shivam; (*Office Secretary, Harijan Sewak Sangh*).

GANDHI SMARAK NIDHI

Rajghat, New Delhi 1.

Aims and objects of the Nidhi (Gandhi National Memorial Trust) are to conduct and promote constructive activities associated with Mahatma Gandhi; collection and preservation of places associated with his work and life.

Total money collected : Rs. 10.97 crores; Spent till end of 1958 : about Rs. 5.75 crores; Budget for 1959 : Rs. 1.38 crores.

OFFICE-BEARERS :—*Chairman*, R. R. Diwakar; *Vice-Chairman*, Smt. Sucheta Kripalani; *Secretary*, G. Ramachandran.

GOVERNMENT CO-EDUCATIONAL TEACHERS' TRAINING INSTITUTE

Daryaganj, Delhi.

Principal : Miss B. Sharma.

HAPPY SCHOOLS' SOCIETY

Daryaganj Road, Delhi 7.

Educational Organisation.

Founder & Hon. Director : Padam Chand.

HARIJAN SEVAK SANGH

Kingsway, Delhi 9.

President, Shrimati Rameshwari Nehru; *Hon. Gen. Secretary*, Viyogi Hari; *Working Secretary*, K. S. Shivam. The annual expenditure incurred by the Central and Provincial Branches throughout India during 1957-58 was Rs. 25,46,749.31 nP.

HARIJAN WELFARE OFFICE

Delhi Administration, Room No. 45, Old Secretariat, Delhi.

THE HIMALAYAN SOCIETY

Royal Hotel, Delhi.

Bombay Address : Shroonivas House, Waudby Road, Fort, Bombay.
Chairman, Lal Bahadur Shastri; *Secretary*, G. D. Joshi; *Organising Secretary*, Naren B. Joshi.

THE INDIAN ACADEMY OF PHOTOGRAPHY

ALFAC'S Bldg., Old Mill Road, New Delhi.

President : Dr. M. S. Randhawa, I.C.R.; *Vice-President* : J. N. Unwalla, F.R.P.S.; *Hon. Gen. Secy.* : N. Lakshminarasim, A.R.P.S.

INDIAN ADULT EDUCATION ASSOCIATION

30, Fais Bazar, Delhi.

It is the only national organisation of adult education workers and agencies in this country, having 108 affiliated institutions spread all-over India in addition to a large number of individual members.

The Association publishes a quarterly journal called *The Indian Journal of Adult Education*, a two-monthly magazine in Hindi called "*Pravda Shiksha*", and a monthly *Social Education News Bulletin* and publishes pamphlets and tracts on adult education techniques and methods as well as on important experiments in India and other countries. It also organises annual conferences and seminars for adult education workers.

OFFICE BEARERS :—*President* : Dr. Mohan Singh Mehta, Udaipur; *General Secretary* : S. C. Dutta, Delhi; *Treasurer* : M. Mujeeb, New Delhi; *Office Secretary* : Awadh Sharma.

INDIAN ASSOCIATION FOR AFRO-ASIAN SOLIDARITY

14B, Queensway Barracks, New Delhi. (Tel. No. 43650).

President : Mrs. Rameshwari Nehru; *Secretaries* : Dr. Anup Singh, M.P., Govinda Reddy, M.P.

INDIAN ASSOCIATION OF PATHOLOGISTS

Dept. of Pathology, All India Institute of Medical Sciences, Ansari Nagar, New Delhi 16.

President : Dr. P. G. Gollerkeri; *Secretary* : Dr. V. Ramalingaswami; *Treasurer* : Dr. M. Balasubrahmanian.

INDIAN AND EASTERN NEWSPAPER SOCIETY*

Address : P. O. Box 69, I.E.N.S. Building, Old Mill Road, New Delhi 1.

Formed in February 1939 to act as a Central Organisation of the Newspaper Press of India and of other countries in Asia and to promote the common business interests of its members numbering 101 at the end of 1958.

OFFICE BEARERS :—*President* : Upendra Acharya (Indian Nation); *Dy. President* : D. M. Harris (Statesman); *Vice-President* : Dr. N. B. Parulekar; *Hon. Treasurer* : K. Narendra (Pratap); *Secretary* : D. K. Thadani.

INDIAN BOARD FOR WILD LIFE

Ministry of Food & Agriculture, Department of Agriculture, New Delhi.

Chairman : H. H. the Maharaja of Mysore; *Vice-Chairman* : G. G. Takle, I.F.S.; *Inhji-Vice-Chairman* : K. S. Dharamkumars; *Secretary* : A. C. Jain.

THE INDIAN BUREAU OF PARLIAMENTARY STUDIES

16, Golf Link Road, New Delhi.

Aims : To promote the objective assessment of such political trends and events in India and abroad as have a bearing on democracy and democratic institutions in general. Organizes Seminars, Symposia, group discussions etc. Publishes a monthly journal "Parliamentary Studies". Membership includes M.P.s and leading public men.

President : Sohan Lal; *Vice-Presidents* : Sardar Hukam Singh and Pandit Thakur Dass Bhargava; *Secretary-General* : M. S. Gurupadaswamy.

INDIAN CONFERENCE OF SOCIAL WORK, DELHI STATE BRANCH

Panna Bldg., 2 Ansari Road, Daryaganj, New Delhi.

Ag. President : M. S. Gore; *Hon. General Secretary* : Mrs. Indira Renu; *Executive Secretary* : O. P. Dhillaga.

INDIAN CO-OPERATIVE UNION LTD.

'A' Barracks, Jan Path, New Delhi.

Co-operative body devoted to economic and social development.

President : Shrimati Kamaladevi Chattopadhyay; *General Secretary* : L. C. Jain.

INDIAN COUNCIL FOR CHILD WELFARE

14 & 15, Block A, Barracks B, Janpath, New Delhi.

Largest national organisation for child welfare with 14 State Councils and 4 in Centrally Administered Areas. Plans welfare policies and schemes, organises seminars, conferences, Children's Day November 14th, and confers awards on children for courage and service. Children's Bureau at Headquarters publishes monthly Newsletter and journals, undertakes research on child welfare problems, prepares plans for projects, acts as general information centre for all problems relating to children.

Affiliated to the International Union for Child Welfare, Geneva.

Patron-in-Chief : Dr. Rajendra Prasad; *Hon. Patrons* : Rajkumari Amrit Kaur; Sir Gangaram Kaula; *President* : Smt. Indira Gandhi; *Vice-Presidents* : Smt. Hansa Mehta, Smt. Achamma J. Mathai, Radha Raman; *Hon. Gen. Secretary* : Smt. Tara Ali Balg.

INDIAN COUNCIL FOR CULTURAL RELATIONS

Pataudi House, New Delhi 1.

Inaugurated by the Prime Minister of India in April 1950. Founder-President was Maulana Abul Kalam Azad.

Set up by the Govt. of India for the purpose of establishing, reviving and strengthening cultural relations with other countries by means of promoting a wider knowledge and appreciation of the cultural heritage of India and by encouraging dissemination in India of knowledge of the cultures of other countries.

The Council functions as an autonomous body.

Programme includes publications, exchange of scholars and students, setting up of Chairs of Indian Studies abroad, contacts with similar organisations in all countries and welfare of overseas students in India.

President : Prof. Humayun Kabir; *Vice-Presidents* : Acharya Kaka Kalelkar; K. G. Salydain; *Secretary* : Imam Rahman.

* The next Annual General Body Meeting was to be held in August 1959.

THE INDIAN COUNCIL OF MEDICAL RESEARCH

Medical Enclave, Near Safdarjung Hospital, C-11 Type Flats Nos. 14, 15 & 16, P.B. 494, New Delhi.

The Indian Council of Medical Research was formerly known as the Indian Research Fund Association and was constituted in 1911 by the Government of India with a sum of Rs. 5,00,000 set aside as an endowment.

The control and management of the Council is vested in a Governing Body, the President of which is the Health Minister of the Government of India. This body is assisted in scientific and technical matters by a Scientific Advisory Board of which the Chairman is the Director-General of Health Services. The Board in its turn is advised by a number of committees on specific subjects.

The Council annually publishes a technical report describing the research done by the various enquiries carried out under the auspices of the Council during each calendar year. This report is obtainable from the office of the Director, Indian Council of Medical Research, New Delhi. The Council publishes the *Indian Journal of Medical Research* and its *Memoirs* and the *Indian Journal of Malariology*. In addition, a number of special reports dealing with important subjects of medical research are also published from time to time. So far, over thirty-two such reports have been published.

The Council maintains the Nutrition Research Laboratory at Hyderabad, which is the premier institution in India entirely devoted to research in nutrition and allied sciences.

Besides financing a large number of enquiries, the Council has set up nutrition research units at the Seth G. S. Medical College, Bombay, and University College of Science and Technology, Calcutta, a Clinical Research and Neuropathological Unit at the Tata Memorial Hospital, Bombay, a Clinical Research Unit and a Haematological Research Unit at the School of Tropical Medicine, Calcutta, a Polio Research Unit at the Grant Medical College, Bombay, a Liver Research Unit at the S. N. Medical College, Agra, and an Industrial Health Research Unit and a Public Health Engineering Research Unit at the All-India Institute of Hygiene and Public Health, Calcutta. A Virus Research Centre has also been set up by the Council at Poona in collaboration with the Rockefeller Foundation of the U.S.A. A Blood Group Reference Centre has been set up in Bombay.

Besides, the Council maintains two Chairs, the Chair of the Professor of Bacteriology and Pathology and the Chair of the Professor of Protozoology at the School of Tropical Medicine, Calcutta.

The Council awards a number of research fellowships to deserving medical and science graduates with a view to training teachers and research workers for medical college staffs and aiding the development of certain departments in medical colleges as post-graduate training centres.

The Council maintains a library at the Central Research Institute, Kasauli. The Council has also established Micro-film Service and Photo-copy Service Units at Kasauli, and at the Tata Memorial Hospital, Bombay.

President, D. P. Karmarkar; Chairman, Scientific Advisory Board, Lt.-Col. Jaswant Singh; Director, Dr. C. G. Pandit.

INDIAN COUNCIL OF WORLD AFFAIRS

Sapru House, Sarakhamba Road, New Delhi 1.

President: Hriday Nath Kunzru.

Treasurer: P. A. Narielwala.

Secretary-General: S. L. Popal.

Research Secretary: M. S. Rajan.

Administrative Secretary: Devendra Nath.

Librarian: Girja Kumar.

The Indian Council of World Affairs is a private, non-partisan, academic and research organization. It was founded in 1943. Its primary object is to promote the study of Indian and international questions so as to develop a body of informed opinion on world affairs and India's relation thereto through study, research, discussion, lectures, exchange of ideas and information with other bodies in India and abroad engaged in similar activities.

Membership activities of the Council are built around general meetings and discussion groups both at the headquarters of the Council at Delhi as well as its 23 branch centres. It arranges non-governmental international conferences from time to time and also participates in those convened by other organisations.

A Research Board plans and supervises the Council's research programmes. The Council publishes *India Quarterly* and a monthly, *Foreign Affairs Reports*. It is also associated with the publication of another monthly *Indian Affairs Record*.

The Council has so far published about 40 monographs and a large number of pamphlets. Apart from occasional publications, the Council publishes two series of biennial volumes entitled *India in World Affairs* and *Select Documents on Asian Affairs*.

The Council maintains a research library on international affairs, consisting of about 50,000 volumes and 900 periodicals.

In addition, it has special collections such as newspaper clippings; publications of the United Nations, League of Nations and other international organisations; maps and back files of selected newspapers. It is rapidly building up special collections in foreign languages like Russian, Japanese, etc. Current acquisitions lay special stress upon the countries of Asia.

As on 31st December 1966, the Council had 23 branches in most of the leading cities of India and 1,800 members.

INDIAN FEDERATION OF WORKING JOURNALISTS

Travancore House Hutments, Canning Road, New Delhi.

President: J. P. Chaturvedi; Secretary-General: R. Narasimhan.

INDIAN INSTITUTE OF PUBLIC ADMINISTRATION

(Indraprastha Estate, Ring Road, New Delhi.)

President: Jawaharlal Nehru.

Vice-Presidents, Pandit Pant, T. T. Krishnamachari, Gurmukh Nihal Singh, Pandit Kunzru, Dr. G. S. Mahajan, Shri Ram.

Chairman: V. T. Krishnamachari.

Director: V. K. N. Menon.

Hon. Treasurer: S. Ranganathan.

THE INDIAN LAW INSTITUTE

Supreme Court Bldg., Hardinge Avenue, New Delhi.

Founded in December, 1956 with the object of promoting advanced studies and research in law and its administration, reform of administration of justice and improvement of legal education.

President: S. R. Das, Chief Justice of India; Executive Chairman: Dr. K. M. Munshi, D.Lit., LL.D.; Secretary: C. B. Agarwala.

THE INDIAN MEDICAL ASSOCIATION

"Central Office"

Hanging Bridge, Daryaganj, Delhi 7.

President: Dr. C. O. Karunakaran (Trivandrum); Hon. General Secretary: Dr. A. P. Mitra (New Delhi); Hon. Editor, "Journal of the I.M.A." Dr. P. K. Guha (Calcutta).

INDIAN NATIONAL TRADE UNION CONGRESS

17, Janpath, N.W. Delhi 1.

President, G. Ramaniujam; General Secretary, S. R. Vasavada; Treasurer, P. K. Sawant.

INDIAN PEOPLE'S THEATRE ASSOCIATION

33, Shanker Market, Connaught Circus, New Delhi.

Cultural body devoted to the study and demonstration of dance, music, drama and other classical traditional and folk activities. President: Vishnu Prabhakar; General Secretary: Satyabrata Datta; Secy.: Jawahar Chowdhury.

INDIAN RED CROSS SOCIETY

Red Cross Road, New Delhi 2.

President: Dr. Rajendra Prasad (President of the Republic of India).

Chairman, Managing Body: Rajkumari Amrit Kaur.

Hon. Treasurer: P. C. Padhi.

Secretary-General: Lt.-Col. C. K. Lakshmanan.

Constitution.—The Managing Body consists of a Chairman and 26 members, of whom 15 are the Vice-Presidents, 6 selected by the Society at the Annual General Meeting from among the members of the Society, and 5 nominated by the President.

Junior Red Cross.—Junior Red Cross which was started in 1926 is an integral part of the Indian Red Cross Society and is its youth section. The movement functions in over 30,000 schools and colleges with a membership of about 2½ million.

Medical After-Care Fund.—With a view to granting relief for medical treatment after-care and cognate purposes to the sick Indian ex-service personnel, who participated in the Second World War, the Indian Forces Medical After-Care Fund was instituted at the headquarters towards the end of 1941. The scope of the Fund was extended in 1949 so as to include the ex-servicemen of World War I. It was further extended in 1958 to include the ex-servicemen of the Kashmir Operations as the special allotment of Rs. 10,000 received from the Armed Forces Reconstruction Fund in 1952 for providing medical after-care to ex-servicemen personnel of these Operations had been exhausted. Assistance from the Fund is invoked by an increasing number of deserving cases. The total number of applications dealt with till the end of 1958 was 6,295. During 1958, 603 fresh applications were received from ex-servicemen suffering from tuberculosis, leprosy and other diseases, and from those requiring artificial limbs, dentures and spectacles. A sum of Rs. 77,419 was given in grants to 347 new and 256 old cases raising the total of disbursements from the Fund during the last 17 years to Rs. 15,13,128.

Bureau of Maternity and Child Welfare.—The Maternity and Child Welfare Bureau of the Society was established in 1931.

The Bureau administers the Lady Chelmsford League Fund for maternity and child welfare, the Victoria Memorial Scholarships Fund for the training of *dais*, and the Army Child Welfare Fund. The Bureau also acts as a Central office for information and offers technical assistance.

A grant from the Government of India has made it possible to initiate work in the backward areas of Tehri-Garhwal hilly district in the State of U.P. in 1964, which still continues. There are at present 5 Welfare Centres for providing Maternity and Child Welfare Services and 2 pre-primary schools.

Relief Activities.—Emergency relief forms an important aspect of Red Cross work in India and it comprises two categories: assistance with cash grants, medical and other supplies and provision of trained field workers for first aid, ambulance service, nursing and incidental duties for sudden emergencies.

Health Education.—Popular health education is another important activity. The Society publishes posters, pamphlets and other material on health subjects. Health lectures, film shows, demonstrations of slides, etc. are also regularly organised under Red Cross auspices. Two quarterly Journals are published, namely, the *Indian Red Cross Journal* and the *Indian Junior*.

Hospitals.—The Society runs a Red Cross Home in Bangalore well-equipped for 75 patients for giving expert medical aid and nursing care to permanently disabled ex-servicemen. It provides various amenities and comforts including newspapers, magazines and books to patients in all military hospitals in India and to Medical Units of Jammu and Kashmir Forces. Besides, diversional therapy stores and welfare service are also provided to the military hospitals.

Finances.—The investments of the Society at the end of 1957 stood at Rs. 1,68,43,500 and the floating and fixed deposits at Rs. 2,81,571. From the total income of Rs. 5,51,718 derived from investments of the Society, a sum of Rs. 1,58,160 is distributed under the Act to the State Branches in proportion to their contributions to the Central "OUR DAY" Fund raised in the First World War.

INDIAN ROADS CONGRESS

Jamnagar House, Mansingh Road, New Delhi 2.

President: U. J. Bhatt; **Vice-Presidents:** N. Durrani, B. Prasad; **Hon. Secretary:** A. J. D'Costa, B.E.; **Hon. Treasurer:** H. P. Sinha, I.S.E.

INDIAN SCHOOL OF INTERNATIONAL STUDIES

Supru House, Barakhamba Road, New Delhi.

Director: Dr. A. Appadorai; **Associate Director:** Dr. Subimal Mukherjee; **Administrative Officer:** R. B. A. P. Dube.

INDIAN SOCIETY OF ANAESTHETISTS

29, Rajpur Road, Delhi 8.

President: Dr. P. D. Dhameja, M.R.C.P., L.R.C.P., D.A., F.F.A.R.C.S. (Eng.); **Hon. Secretary:** Dr. Satyendra Singh, M.R.C.S., L.R.C.P., D.A., F.F.A.R.C.S. (Eng.).

INDIAN SOCIETY OF SOIL SCIENCE

Indian Agricultural Research Institute, New Delhi 12.

President: Dr. N. K. Dhar; **Hon. Secretary:** Dr. S. P. Raychaudhuri; **Hon. Jt. Secy.:** Dr. T. D. Blawan.

INSTITUTE FOR THE BLIND

Panchkuin Road, New Delhi.

President: Dr. B. K. Siddhu; **Secretary:** M. M. Agarwal; **Jt. Secretaries:** B. D. Seth, L. S. Bhalla.

INSTITUTE OF CHARTERED ACCOUNTANTS OF INDIA

Post Box 269, Mathura Road, New Delhi 1.

The Institute of Chartered Accountants of India which is an autonomous body of all Accountants with perpetual succession was established on the 1st of July, 1949.

The Institute had on its Register 1,183 Fellow and 2,998 Associate members as on 1st April 1958. Out of this 1,094 Fellow members and 1,800 Associate members are in practice and are entitled to style themselves as Chartered Accountants.

The Institute is governed by a Council consisting of 25 members, 12 of whom are elected from the various regions and five nominated by the Government of India.

Council of the Institute:—**President:** C. C. Chokshi; **Vice-President:** Sastri; **Secretary to the Council:** K. V. Srinivasan; **Registrar:** ramanian.

INSTITUTION FOR THE BLIND

Panchkuin Road, New Delhi.

President: Hari; **Incent:** Dr. Mrs. Brant Kaur; **Secretary:** M. M. Aggarwal; **Treasurer:** Gokal Chand Kapoor.

INTERNATIONAL CHAMBER OF COMMERCE,

INDIAN NATIONAL COMMITTEE

Federation House, New Delhi 1.

The Indian National Committee of the International Chamber of Commerce was established for the following purposes in the year 1929:—

- (i) To facilitate the commercial intercourse of countries.
- (ii) To encourage progress and to promote peace and cordial relations among countries and their citizens by the co-operation of business men and organisations devoted to the development of commerce and industry.

President: Madan Mohan R. Ruit; **Vice-President:** A. M. M. A. Murugappa Chettiar; **Treasurer:** P. N. Talukdar; **Secretary-General:** G. L. Bansal; **Secretary:** P. Chentul Rao.

JAIN SOCIETY FOR THE PROTECTION OF ORPHANS FOR INDIA

Daryawanj, Delhi.

President: Rajendra Kumar Jain; **General Secretary:** Ajit Parsi ad Jain; **Secretary:** Raghubir Singh Jain Kothi Wala.

JAMIA MILLIA ISLAMIA

P.O. Jamia Nagar, New Delhi.

Chancellor: A. M. Khwaja; **Pro-Chancellor:** Dr. Zakir Hussain; **Vice-Chancellor:** Prof. A. Mujeeb.

JANGID BRAHMAN MAHA SABHA

440/441, Haveli Haldar Quli, Chandni Chauk, Delhi 6.

President: Pt. Chhotalal Sharma; **Vice-Presidents:** Pt. Mahadev Prasad Sharma (Sr.), Pt. Moolchand Sharma (Jr.); **General Secretary:** Pt. Rupkishor Sharma.

KALAKENDRA RESEARCH AND INFORMATION ORGANIZATION

25E/6, East Patel Nagar, New Delhi 12.

Originally established in 1950, the Organization, as reorganised, is devoted to furthering research in Indian dance, drama and music, architecture, sculpture and painting, and to dissemination of news and views concerning these arts. It gives research guidance free; arranges free lecture-demonstrations; and maintains liaison with foreign institutions devoted to research in fine arts.

Board of Editors and Research Guides: **Chairmen:** Padma Bhushan Ustad Allauddin Khan (Bharatiya Music), Sangeeta Shastri Ratnam Mysore Vasudevacharya (Karnatak Music), R. V. (Mama) Warerkar (Theatre); **Vice-Chairmen:** Babu Gopinath Singh, M.P., Padma Shri Maharaj Shambhu Maharaj; **Members:** Ustad Sadiq Ali Khan, S. A. Shastri, Swami Prajnanananda, Dr. V. Raghavan, Guru Gopinath, Prof. B. R. Deodhar and others.

KASTURBA GANDHI NATIONAL MEMORIAL TRUST

8, Lodi Road, New Delhi.

KIRANA COMMITTEE

372, Khari Baoli, Delhi 6.

Hony. President: Durga Pershad Berry; **Hony. Vice-President:** Ram Narain Dass, B.Sc. LL.B.; **Hony. Genl. Secretary:** Paras Ram Kalra.

LALIT KALA AKADEMI

(National Academy of Art, New Delhi.)

The Lalit Kala Akademi was set up in August 1954 by the Govt. of India. Its aim is to promote the study of and research in painting, sculpture, architecture and applied arts. There is a General Council, an Executive Board and a Finance Committee.

Chairman, Executive Board, D. P. Roy Chowdhury.

Vice-Chairman: Karl J. Khandasavala.

Secretary: Barada Ukil.

THE LITTLE THEATRE GROUP

Flat 10, Shanker Market, Connaught Circus, New Delhi.

Has produced 40 full-length plays and in addition has sponsored a very large number of dance recitals. The Group produces plays in Hindustani, English and Punjabi.

It is recognised by the Sangeet Natak Akademi; publishes a monthly bulletin; is now busy in translating English Stage Words into Hindi.

Chairman: Prof. N. B. Malkani, M.P.; **Arts Director:** Inder Dass; **Hony. General Secy.:** Y. P. Tandan.

MOTION PICTURES ASSOCIATION

52.55, Mangal Market, Chandni Chowk, Delhi.

President: Seth Jagat Narain; **Senior Vice-President:** C. V. Desai, B.A., LL.B.; **Junior Vice-President:** L. Nandlal Oberoi; **Hony. General Secretary:** J. C. Bakshi; **Hony. Joint Secretary:** C. L. Chopra, B.A.; **Hony. Treasurer:** Suraj Parkash; **Office Secy.:** S. S. Garga, B.A., LL.B.

MUSEUM OF ARCHAEOLOGY

Red Fort, Delhi.

Curator: Narindar Nath.

NATIONAL AGRICULTURAL CO-OPERATIVE MARKETING FEDERATION LTD.

248-A, Kriehi Bhawan, New Delhi.

AIMS: To provide the co-operative sector with an outlet for entering into export and import markets and thus to protect them from unfair competition and exploitation; To circulate marketing intelligence and promote inter-State trade among the co-operatives. Membership is open only to co-operative organizations.

Chairman: Dr. Punjabrao S. Deshmukh; **Director:** D. Sandilya; **Asstt. Secretary:** Ganga Lal Casawa.

NATIONAL BOOK TRUST, INDIA

Old Mill Road, New Delhi 1.

To publish, or assist publishers, universities, learned societies etc. in the publication of large editions, at low cost, of books in Hindi and other Indian languages, and of the following categories: Indian classics, translation of famous books in foreign languages and all standard books from one Indian language into another, reproduction of Indian paintings, sculptures and other art treasures etc. Lists of short-term and long-term publications are drawn up for implementation. The funds of the society will consist of lump sum and recurring grants made by the Government of India for the furtherance of the objects of the Society and income from its publications and other sources.

Chairman: C. D. Deshmukh; **Secretary:** Manjeri S. Isvaran.

NATIONAL COUNCIL OF APPLIED ECONOMIC RESEARCH

Bombay Mutual Bldg., Parliament Street, New Delhi 1.

The National Council started functioning from 1st August 1956, as an independent research organisation to study current important economic problems on an objective basis on its own initiative or at

the instance of Government, business concerns, associations or individuals and to help in analysing and finding solutions to specific problems in the planning and management of industrial and other undertakings. The Council has been established with the active support and encouragement of the Government of India and the business community and on its Governing Body are represented Ministers of the Central Government, leading business men and other eminent persons. The organisation provides for a broad base of membership including Life, Ordinary and Corporate Members.

The Ford Foundation has made a generous offer of donation of \$500,000 (equivalent to Rs. 25 lakhs approx.) spread over a period of 5 years towards the Council's expenses in the formative period.

The Council has already completed a number of studies, on behalf of the Ministries of the Government of India, the State Governments, and the business community, some of which have also been published. Among these mention might be made of (i) Taxation and Foreign Investment, (ii) Marketing Research to aid Small Industries, (iii) Demand Forecasts for consumer goods and other materials, (iv) Managing Agency System, (v) Criteria for fixation of Water Rates, (vi) Export Market for Indian Lac, (vii) Techno-Economic Survey of Bihar, (viii) Traffic Survey of the Port of Tuttleoria, etc.

The Council is currently engaged in a number of studies, e.g. Problems of Energy in India, Savings and Domestic Capital in India, Techno-Economic Surveys of Madhya Pradesh, Madras, Orissa and Assam States. A number of other projects are likely to be taken up shortly, including Techno-Economic Surveys of other States like West Bengal, Kerala, Mysore, Andhra Pradesh, etc.

Publications: Taxation and Foreign Investment; Foreign Exchange Crisis and the Plan; Some Aspects of Road Transport in the Delhi Region; Prospects for a Mica Grinding Plant in India; Utilization of Primary Energy in India; Export Markets for Indian Lac and Lac Products. In Press: Criteria for Fixation of Water Rates; Commodity Disposition Survey; and Techno-Economic Survey of Bihar.

President, Dr. John Matthai.
Director-General, Dr. P. S. Lokanathan.
Secretary, Dr. B. Natarajan.

NATIONAL CULTURAL ORGANISATION

C-2 100, Lodi Road, New Delhi-3.

Chief Patron: G. D. Birla; *General Secretary & Treasurer:* N. P. Seshadri; *Joint Secretary:* N. P. Jagannathan.

THE NATIONAL FEDERATION OF P & T EMPLOYEES

9, Pusa Road, New Delhi.

President, V. G. Dalvi, Bar-at-Law; *General Secretary,* B. N. Ghosh; *Secretary,* V. S. Menon.

NATIONAL GALLERY OF MODERN ART

(Jaipur House, New Delhi.)

The Gallery was inaugurated on March 20, 1954. The institution is directly under the Ministry of Scientific Research & Cultural Affairs, Government of India. The collection consists of art objects ranging roughly from 1857 onwards. Among those displayed are 19th century Rajput, Kangra, Bengal School-paintings, sculptures, textiles and Metal images. Separate rooms have been devoted to the works of Abanindranath Tagore, Rabindranath Tagore, Ganganendra Nath Tagore, Jamini Roy, Nanda Lal Bose and Amrita Sher-Gill.
Curator: Prof. Prodosh Das Gupta.

NATIONAL INSTITUTE OF SCIENCES OF INDIA

Mathura Road, New Delhi 1.

Objects:—Founded in 1935 for the promotion of natural knowledge in the country including its practical application to problems of national welfare. Recognised by Government as the premier scientific organisation in India. Has three co-operating Academies, viz., Asiatic Society (Calcutta), Indian Academy of Sciences (Bangalore) and National Academy of Sciences, India (Allahabad). Annual Subscription Rs. 80.

Publications: Proceedings, Transactions, Bulletin, Progress of Sciences in India.

President: Prof. S. K. Mitra; *Treasurer:* Prof. Ram Behari; *Foreign Secretary:* Dr. B. Mukerji; *Secretaries:* S. Basu, Prof. P. Maheshwari; *Editor of Publications:* Prof. B. C. Majumdar.

NATIONAL PRODUCTIVITY COUNCIL

38, Golf Links, Parliament Street, New Delhi.

Aims and Objects: Launching productivity movement in the country by rousing productivity consciousness and to generate productivity services. Initially it is proposed to limit the scope only to the field of industries but eventually, the movement will include in its scope all economic activities of the nation.

This is an autonomous body representative of Government, employers, labour, technicians, consumers, consultants, scholars and small industries. All-India organisations of employers and labour, and the concerned Ministries of the Government of India, have nominated their representatives on it. The number of members is limited to 60. The size of the Governing Body is limited to 20 members.

President: Manubhai Shah, Minister of Industry, Government of India; *Chairman of the Governing Body:* Dr. P. S. Lokanathan;

Vice-Chairmen: G. P. Kapadia, Michael John, M.P.; *Executive Director:* H. D. Shourie, I.A.S.; *Secretary:* J. S. Sarason, M.Com. LL.B., D.P.A.

NATIONAL SCHOOL OF DRAMA & ASIAN THEATRE INSTITUTE

25-A, Nizamuddin West, New Delhi 14.

The School, which was to start functioning in April 1959 with a two year Diploma Course, is conducted by the Sangeet Natak Akademi.

It has been felt that in spite of widespread theatre activity all over the country, by amateur, semi-professional and some professional groups, and in spite of general acting talent available everywhere, the productions of these groups generally lack in proper training and sufficient understanding of the main purpose and various aspects of drama and theatre.

The School has the following aims: (a) to impart knowledge of acting, both in theory and practice, and of producing and directing plays; (b) to equip the students with the literary history of drama and also to acquaint them with the fundamentals of script-writing; (c) to run special short-term courses on specified subjects.

The course will be open to all men and women of at least 25 years of age. Maximum number of seats is 25 for the first year. At present the school has no hostel or any other arrangement for accommodation of any kind. The students will have to make their own arrangements.

Director: Satu Sen; *Administrative Officer:* N. C. Jain.

NAVSHAKTI VIDYA MANDIR

Pushpa Bhawan, Basti Ara Kashan, Paharganj, New Delhi 1.

President: Radha Raman, M.P.; *Honorary Secretary:* Lalita Prasad; *Manager:* Shri Krishna.

PUNJAB & DELHI CHAMBER OF COMMERCE

(Scindia House, Curzon Road, Post Box No. 130, New Delhi 1.)

Exists for the protection of mercantile and industrial interests on the usual lines in the Punjab and Delhi. Membership generally restricted to Banks, Merchants, Railways and large industrial interests. The Chamber is a member of the Federation of Commonwealth and British Empire Chambers of Commerce, London, and the Associated Chambers of Commerce of India, Calcutta. The Chamber is represented on the Boards and various Government Committees and Local Government Bodies.

Office-Bearers: I. P. Anand; (*Chairman*): H. C. Mahindra; (*Dy. Chairman*): Sardar Sangat Singh (*Secretary*).

PUNJAB MERCHANTS' CHAMBER (Regd.)

Sadar Bazar, Delhi.

President, L. Bhagwan Das Chopra; *Vice-President,* S. Jagat Singh Kwatra; *Hony. Secretary,* S. Kartar Singh.

QUAKER CENTRE

24, Rajpur Road, Delhi 8.

An international, social and educational body.
Directors: James Bristol; Dorothy Bristol.

RAMAKRISHNA MISSION

Ramakrishna Ashram Marg, New Delhi 1. (Phone No. 48480).

Secretary, Swami Ranganathananda.

THE ROCKEFELLER FOUNDATION

20/30, Diplomatic Enclave, Kauliliya Marg, New Delhi 1.

Representative in India & Field Director, Indian Agricultural Programme: Dr. Ralph W. Cummings; *Rep. in India for Medical Edn. & Public Health:* Dr. LeRoy R. Allen; *Adviser to the All India Institute of Medical Sciences, New Delhi:* Dr. Lucien A. Gregg.

THE ROLLER FLOUR MILLERS' FEDERATION OF INDIA

"Scindia House", Curzon Road, Post Box No. 637, New Delhi 1.

Chairman: R. K. Vishnuji; *Vice-Chairman:* P. Chandra; *Secretaries:* A. F. Ferguson & Co.

SADAR CAP MERCHANTS' ASSOCIATION

Gandhi Market, Sadar Bazar, Delhi.

President, M. Ghiasuddin; *Secretary,* Mohd. Jamil; *Treasurer,* Shujauddin.

SAHITYA AKADEMI (NATIONAL ACADEMY OF LETTERS)

(Theatre Communication Bldg., Janpath (Queensway), New Delhi.)

The Akademi is a national organization to work for the development and co-ordination of Indian letters, and to set high literary standards. It was inaugurated on March 12, 1954.

There is a General Council of 67 members and an Executive Board of 17.

Among the more concrete projects that are before the Akademi are a national bibliography of Indian literature, a Who's Who of Indian writers, standard works in English and Indian languages on the history of modern Indian literatures, anthologies covering poetry, drama and short stories in Indian languages, translation of select classics from one Indian language into another, translation of foreign classics into Indian languages, etc.

Every year since its inauguration in 1951, the Sahitya Akademi has been awarding prizes of Rs. 5,000 each to some outstanding books published in Indian languages. Books are eligible for prizes in 16 languages: the 14 major languages enumerated in the Indian Constitution and Sindhi and English (as written by Indian authors). Ten books in Bengali, Gujarati, Hindi, Kannada, Kashmiri, Malayalam, Marathi, Oriya, Tamil, Urdu respectively were adjudged worthy of award in 1958.

President, Jawaharlal Nehru.
Vice-President, Dr. S. Radhakrishnan.
Secretary, Krishna Kripalani.

SANGEET NATAK AKADEMI (National Academy of Dance, Drama & Music)

4-A, Mathura Road, Jangpura, New Delhi 14.

The Akademi was inaugurated on January 28, 1953. The purpose is to foster Indian Dance, Drama, Music and Film and promote through them the cultural unity of the country.

The organizational set up consists of General Council, an Executive Board, a Finance Committee. The General Council consists of representatives among others of Central and State Governments and leading cultural organizations.

It promotes research, encourages setting up of theatre centres and training institutions, organizes seminars and festivals, awards prizes and distinctions, publishes literature, grants financial assistance and promotes cultural exchange.

The Akademi conducts a survey of art-forms in the country; it is also building libraries of musical records, books and films.

It has some 208 recognized institutions and affiliated state Regional Academies all over the country. The work of survey of art-forms and other regional activities are carried on with the help of Regional Academies.

The Akademi organized two Music Festivals, one in March 1954 in Delhi and the other in March 1956 in Patna. The first National Drama Festival was organized in November 1955 in Delhi which lasted for more than three weeks. In the course of the festival 21 plays in 14 Indian languages including Sanskrit and a Greek play in English were presented. The first National Dance Festival was organized again in Delhi in November-December 1955 in which all the classical and traditional styles of Indian dance were presented by most eminent artists and groups in the country. The Akademi also organized Seminars one each in the field of Dance, Drama, Music and Film in 1955, 1956-57 and 1958 respectively.

These Seminars besides being planned on national scale were of highest values and in their respective fields. Top ranking artists, scholars, critics and experts took part in the deliberation and comprehensive recommendations were made for their development. The Akademi has drawn a programme of progressive implementation of recommendations.

It has two training institutions, National School of Drama and Asian Theatres Institute at Delhi and the Manipur Dance College at Imphal, for training in dramatics and Manipur dancing, respectively.

Chairman: Dr. Justice P. V. Rajamannar; *Vice-Chairman*, Kamaladevi Chattopadhyaya; *Treasurer*, A. V. Venkateswaran; *Secretary*: Nirmala Joshi.

SANGEET NIKETAN

2866, Ballimaran, Delhi.

President: Radha Raman, M.P.; *Hon. Principal*: Sangeet Vachaspati Gulab Rai.

SANT PARMANAND BLIND RELIEF MISSION

18, Alipore Road, Delhi 8.

Object: Eradication of blindness in India.

Office-Bearers:—Beth Jugal Kishore Ji Birla (*President*); Gaya Prasad (*Honorary Secretary*).

SCHOOL OF TOWN AND COUNTRY PLANNING

Office:—Indraprastha Estate, Near Harding's Bridge, New Delhi.
Director & Professor of Planning: T. J. Manickam; *Administrative Officer*: P. C. Kalcker.

SHARADA SANGH

115, Naya Itara, Delhi 6.

President: Dr. (Mrs.) Anusuyabai Gyanchand; *Vice-President*: (Mrs.) Pushpamala Kher; *Secretary*: (Mrs.) Sushila Talekar.

SHREE BALAK SUDHAR SABHA

(Delhi State)

32-A, Model Basti, New Delhi 5.

President, Kumari Vanita; *General Secretary*, H. B. Angula; *Treasurer*, Kamini Kanta.

SHRI MAHAVIR JAIN PUBLIC LIBRARY AND READING ROOM

11/1417, Shree S. S. Jain Mahavir Bhawan, Chandni Chowk, Delhi 6.

Object: To help the progress of religion and society.

Subscription: Life Member Rs. 101, Special Member Rs. 7 and Ordinary Member Rs. 5 per annum.

Office-Bearers:—Nihal Chand Jain (*President*); D. P. Lodha (*Secretary*); Kasturchand Jain, M.A. (*Treasurer*).

SHRI RAM INSTITUTE FOR INDUSTRIAL RESEARCH

19, University Road, Civil Lines, Delhi 8.

Directors, Dr. V. B. Chipalkatti, Dr. N. E. Kuloor.
Registrar: B. B. N. Maxena.

SOCIETY FOR PROMOTING CHRISTIAN KNOWLEDGE

Distribution: S. P. C. K., Post Box 1585, Kashmir Gate, Delhi 6; C.L.S., Park Town, Post Box 501, Madras 3.

SOCIETY OF INCORPORATED ACCOUNTANTS AND AUDITORS OF INDIA

Daryaganj, Delhi.

President: Dr. Sri Ram Srivastava, Ph.D. (Com.), M.A., LL.B., F.S.A.A. (India); *Vice-President*: Dr. L. N. Mehra, D.Sc. (Com.), LL.B., F.S.A.A. (India); *Secretary*: Dr. F. C. Soni, D.Sc. (Com.), M.Com., F.C.I.

SREE SHANMUKHANANDA SANGEETHA SABHA (Regd.)

S.I. Club Auditorium, Reading Road, New Delhi-1.

President: K. Annadham; *Vice-President*: K. Venkatarama Sastry; *General Secretary*: B. Srinivasan.

ST. JOHN AMBULANCE ASSOCIATION (INDIA) AND ST. JOHN AMBULANCE BRIGADE (INDIA)

Red Cross Road, New Delhi 2.

The St. John Ambulance Association was established in India in 1910 and has among its objects:—

The promotion of instruction and carrying out of works for the relief of suffering of the sick and injured in peace and war independently of class, nationality or denomination.

The association has five grades of members, namely, patrons, honorary councillors, life members, annual members and annual associates. Their respective subscriptions are Rs. 1,000, Rs. 500, Rs. 100, Rs. 5 and Rs. one.

The President of the Republic of India is the President of the Association. Its general business is conducted by an executive committee.

The St. John Ambulance Brigade is a uniformed, disciplined body of men and women, all of whom are holders of first aid, and in the case of women also home nursing certificates. They meet together regularly for practice, are inspected and re-examined annually and undertake to turn out for public duty whenever required.

The Brigade in India is commanded by Rajkumari Amrit Kaur as Chief Commissioner. Under her are 19 Districts covering almost all the States and major railways in India with headquarters at Bangalore, Bhubaneswar, Bombay, Calcutta, Chandigarh, Delhi, Gorakhpur, Hyderabad, Indore, Jaipur, Lucknow, Madras, Patna and Shillong.

Surgeon-in-Chief and Secretary-General: Lt.-Col. C. K. Lakshmanan.

TABLE TENNIS FEDERATION OF INDIA

National Stadium, New Delhi 1.

President: Rajkumari Amrit Kaur; *Hon. Secy.*: T. D. Ranga Ramaswami.

THREE ARTS CLUB

No. 1, School Lane, New Delhi.

Mainly devoted to Hindi Play production and revival of theatre movement in the country.

President: M. N. Kapur, M.Sc., T.D. (Lond.); *Hon. Gen. Secy.*: R. M. Kaul; *Hon. Organising Secy.*: S. N. Mathur.

TRAINED NURSES' ASSOCIATION OF INDIA

28, Alipur Road, Delhi 8.

The Trained Nurses' Association of India was founded in 1908 and incorporates the Association of Nursing Superintendents of India. It is affiliated with the International Council of Nurses, the National Council of Women in India and the Indian Conference of Social Work and the Nurses Auxiliary of the Christian Medical Association is its affiliated Association.

The Association has an associate consisting of Student Nurses' Association, Health Visitors' League, and Midwives' Association. The number of registered members is 5,261 and student members 7,715 totalling 12,976. The official organ of the Association is *The Nursing Journal of India*.

President: Miss E. H. Paull.

Vice-Presidents: Miss G. Kapadia; Miss M. Thomas; Miss I. Anderson; Mrs. A. Jacob.

General Secretary: Kumari Lakshmi Devi; *Secretary, Student Nurses Assoc.*: Miss I. Dorabji; *Hon. Treasurer*: Miss T. K. Adranvala; *Editor*: Kumari Lakshmi Devi; *Hon. Jt. Treasurer*: Sister M. Clare.

Hon. Secretaries:—Health Visitors' League: Miss K. Thomas; Midwives' Association: Miss M. Isaac.

Subscriptions.—Annual subscription which includes *Nursing Journal of India* Rs. 12, Health Visitors and Midwives Rs. 6, Life Membership: Rs. 150. Journal subscription Rs. 7 in India and Rs. 8 overseas.

TRIVENI KALA SANGAM

M Block, Connaught Circus, New Delhi 1.

Vice-President: K. G. Salykain (Secretary, Ministry of Education);
Gen. Secretary: Smt. Sundari K. Shridharani; **Jt. Secretary:** K. S. Kulkarni.

TUBERCULOSIS ASSOCIATION OF INDIA

Office:—3, Red Cross Road, New Delhi 2.

The aims and objects are the prevention, control and eventual eradication of tuberculosis in India.

Fifteen State Tuberculosis Associations are affiliated to this Association. It runs model T.B. institutions, namely, the Lady Lillithgow Sanatorium, Kasauli (Simla Hills) with which is annexed the King Edward Sanatorium, Dharampur; the New Delhi Tuberculosis Centre, New Delhi and Tuberculosis Hospital, Mehrauli (Delhi). Publishes the *Indian Journal of Tuberculosis* quarterly and brings out *Directory of Tuberculosis Institutions in India*. Conducts annually the T.B. Seal Sale Campaign, trains doctors and health visitors and organises every year conferences of T.B. workers. The Association is affiliated to the International Union Against Tuberculosis in Paris and works in close collaboration with the Government of India, the World Health Organization, the United Nations International Children's Emergency Fund and other international bodies and other welfare bodies.

Chairman: Lt.-Col. Jaswant Singh, Director-General of Health Services, Government of India; **Vice-Chairman,** Sir Shri Ram; **Hon. Treasurer,** S. Ratnam; **Tech. Adviser,** Dr. P. V. Benjamin, Tuberculosis Adviser to the Government of India; **Secretary,** B. M. Cariappa.

UNITED CHAMBER OF TRADE ASSOCIATIONS

Nai Sarak (Katra Rath), Delhi.

UNITED COUNCIL FOR RELIEF AND WELFARE

Rashtrapati Bhavan, New Delhi.

Aims and Objects:—Co-ordination of the activities of the charitable organisations, relief of distress, ailment, suffering or calamity.

Sources of funds are from the Prime Minister's National Relief Government of India and public donations.

Chief Office-Bearers:—**President and Chairman,** President of India; **Vice-President,** The Prime Minister; **Vice-Chairman,** Rajkumari Amrit Kaur, Sucheta Kripalani; **Executive Vice-Chairman,** Smt. Durgabai Deshmukh; **Hon. Treasurer,** N. Banerjee; **Secretary,** B. N. Banerjee.

UNITED NATIONS TECHNICAL ASSISTANCE BOARD

8-10, Parliament Street, New Delhi.

Resident Rep.: James Keen; **Dy. Resident Rep.:** Nicolas V. Gleboff;
Asst. Resident Rep.: Oscar Debonne.

VALLABHBHAI PATEL CHEST INSTITUTE

Univ. of Delhi, Patel Marg, Delhi 8.

Director: Dr. R. Viswanathan, B.A., M.D., M.R.C.P. (Lond.), T.D.D. (Wales), F.C.C.P. (U.S.A.)

THE WHOLESALE GENERAL MERCHANTS ASSOCIATION

Swadeshi Market, Sadar Bazar, Delhi.

President: Beharilal Kumar; **General Secretary:** Balram Dua.

WOMEN'S CHRISTIAN TEMPERANCE UNION

24, Rajpore Road, Delhi 8.

President: Mrs. M. C. Singh; **Secretary:** Mrs. A. S. Bundi.

YOUNG MEN'S SIKH ASSOCIATION

55-Hanuman Road, New Delhi.

President: Sardar Sucha Singh Anand; **General Secretary:** Sardar Meharban Singh Dhupia; **Treasurer:** Sardar Gurbachan Singh Anand.

YOUNG WOMEN'S CHRISTIAN ASSOCIATION OF INDIA

Parliament Street, New Delhi.

This is an international organization with headquarters in Geneva. Membership is open to all. Benefits are given to all. Governing body should consist of only Christians.

There are 70 branches in India in all the large towns and cities. In addition there are 32 Youth Groups known as 'Y-Deepsas.'

Holiday Homes are to be found in the hill stations of Ootacamund, Coonoor, Darjeeling, Mussoorie, Naini Tal and Simla.

Hostels are maintained in 32 centres.

The programme is varied to meet the needs and interests of all the members and the community. Welfare work has been promoted in rural areas. Vocational training classes and employment bureaux are special features of the programme in local centres as well as recreation and health education.

President: Mrs. Achamma J. Matthal; **Vice-Presidents:** Rani Maharaj Singh; Rajkumari Amrit Kaur; Mrs. L. Pithavadian; Mrs. Tharian Verghese; Mrs. B. K. Sirkar; Mrs. V. V. Joshi;
National General Secretary: Miss Ivy Khan.

YOUTH HOSTELS ASSOCIATION OF INDIA

No. 2, East Park Road, Karol Bagh, Delhi 8.

Chairman: Mrs. Shanti Kabir; **National Secretary:** R. G. Padki;
Treasurer: S. Valdyanatha Iyer.

OTHER ASSOCIATIONS

BHARAT SADHU SAMAJ

226, Connaught Circus, New Delhi.

INDO-GHANA CULTURAL ASSOCIATION

9A/85, W. E. A. Karol Bagh, New Delhi.

FARMERS FORUM OR BHARAT KRISHAK SAMAJ

Exhibition Grounds, Mathura Road, New Delhi.

I.A.F. AERO-MEDICAL SOCIETY

Old Willingdon Camp, Race Course, New Delhi.

CLUBS

THE AERO CLUB OF INDIA, LTD.

(United India Life Bldg., 'F' Block, Connaught Place, New Delhi 1.)

Founded for the association of persons, organisations and societies interested in the practice, encouragement and development of the study of aeronautics and aviation and, for that purpose to provide a centre of information and advice on matters pertaining to aviation and to undertake the control of all competitions, sporting events and trials in connection with aviation in India.

Member of the Federation Aeronautique Internationale.

CHELMSFORD CLUB

(Raisina Road, Delhi 2.)

Games and amenities include tennis, squash, swimming, billiards, ping-pong, badminton, and weekly dances, catering and bar.
Secretary, K. S. N. Rao.

DEFENCE SERVICES CLUB

(National Stadium, New Delhi.)

The Defence Services Club is open only to members of the Defence Services.

DELHI FLYING CLUB

(Bafdarjang Aerodrome, Delhi 3.)

DELHI GYMKHANA CLUB LTD.

(Race Course Road, New Delhi 12.)

Delhi Gymkhana Club Ltd. is a residential club for nationals as well as foreigners. It provides the usual club amenities including Tennis, Squash, Billiards, Swimming, Dancing, etc.

President: K. V. K. Sundaram, I.C.S.; **Secretary:** N. K. Misa.

GOLF CLUB

(Wellesley Road)

Delhi Golf Club is a private Club open to golfing and non-golfing members. Non-residents of Delhi are welcome to use the Club for a limited time as Casual Members on the payment of daily fees. A professional is available for tuition; clubs may be hired and balls, etc. purchased. Casual members can obtain refreshments after purchasing coupons.

ROSHANARA CLUB

(Roshanara Road, Delhi 6.)

The Club was founded by R. E. Grant Govan, in 1922 with a few Indian and European friends in Delhi with a view to having a club where Europeans and Indians could freely meet one another. It was formally inaugurated by Lord Reading on 9th December 1922.

The activities of the Club include cricket, tennis, hockey, football, swimming pool, billiards and cards. Weekly Guest Nights, Dinners and Dances are held as well as cocktail dances.

Life membership donation is Rs. 2,500; entrance fee, Rs. 200; monthly subscription, Rs. 15. Service officers are exempted from Ballot and entrance fee.

President, A. D. Pandit, I.C.S.; **Vice-President,** S. Surjit Singh Majithia; **Hon. Genl. Secretary,** B. C. Durant; **Hon. Treasurer,** Z. B. Irani; **Asst. Secretary,** S. G. Sarup.

ROTARY CLUB OF DELHI: ATMA RAM MANSION, 1/21 ASAF ALI ROAD, NEW DELHI 1.

Hon. Secy.: Sarbjit Singh.

OTHER CLUBS

CONSTITUTION CLUB: CURZON ROAD, NEW DELHI 1.

DELHI RACE LTD.: RACE COURSE ROAD, DELHI 2.

NATIONAL SPORTS CLUB OF INDIA, MITHRA ROAD, NEW DELHI 1.

NATIONAL CLUB: QUEEN'S GARDEN, DELHI 6.

NEW DELHI CLUB: IRWIN ROAD, NEW DELHI 1.

WORLD HEALTH ORGANIZATION
(Regional Office for South-East Asia.)
Patiala House, Princes Park, New Delhi.

Regional Director : Dr. C. Mani ; *Director of Health Services* : Dr. L. Bernard.

INDIAN STANDARDS INSTITUTION

Manak Bhavan, 9, Mathura Road, New Delhi 1.

The I.S.I. was brought into existence by the Government of India Resolution No. 1-Std.(4)/45 dated 3rd Sept. 1946.

The aims and objects of the Institution include the co-ordination of efforts of Producers and Consumers for the improvement of materials, products, appliances, processes and methods; introduction of codes of practice; provision or arrangement for facilities for examination and testing of commodities, processes and practices.

The affairs of the Institution are administered by a General Council, which is representative of various Ministries of the Government of India, the Governments of States, the professional societies of technologists and scientists, the chambers of commerce and industry, about 1,600 subscribing members of the I.S.I. and other allied interests.

The technical work of preparing standards, specifications, codes of practice, etc., is carried out under the authority of the eight division Councils, namely, (a) Engineering, (b) Textiles, (c) Chemicals, (d) Buildings, (e) Agricultural and Food Products, (f) Structural and Metals, (g) Electro-technical and (h) Certification Marks and a Statistical Section.

In regard to the introduction of metric system in the country, the Institution continued to serve as a clearing-house for information, and published a number of standards for the industry and commerce for the smooth changeover to the metric system. The Institution has chalked out a programme for revising published standards in terms of metric system and for preparing standards in future on the new basis.

In pursuance of the Institution's practice to provide a common platform for the sharing of the knowledge and experience in the relevant fields of their activities, the Fourth Indian Standards Convention was held in New Delhi in November 1954, having been inaugurated by the Prime Minister, Shri Jawaharlal Nehru.

The income of the Institution is derived from (a) Government grants, (b) contributions from industry and other interested public bodies, (c) subscriptions from members, and (d) sale of Indian Standards, etc.

Important Statistics

i)	Number of standards formulated	..	..	1,057
ii)	Number of licences issued for ISI Mark	..	..	100
iii)	Number of products carrying ISI Mark	..	..	37
iv)	Number of technical committees engaged on the task of formulating standards	..	..	772
v)	Committees' membership	..	..	8,696

GENERAL COUNCIL

President : Lal Bahadur Shastri (*Minister for Commerce & Industry, Government of India*) ; *Vice-Presidents* : E. A. Nadrshah (*Chief Engineer, Concrete Association of India, Bombay*) ; Lala Sri Ram ; *Secretary (ex-Officio)* : Dr. Lal C. Verma, *Director (Indian Standards Institution)*.

COMMERCIAL FIRMS

Abrol & Co., R. C., E Block, Connaught Place, New Delhi.

ADREMA LIMITED, Addressing Machines & Business System, Lakshmi Insurance Bldg., Araf. Ali Road, P.O. Box 315, Delhi. Phone : 24777.

Akashvani Ltd., M-53, Connaught Circus, New Delhi.

Allahabad Bank Ltd., Chandni Chowk, Delhi; Karolbagh & Scindia House, New Delhi.

Allenbury & Co. (Calcutta), Ltd., Connaught Circus, New Delhi.

Allied Motors Ltd., Connaught Circus, New Delhi.

Ama Ltd., Plaza Building, Connaught Place, New Delhi.

Ambica Trading Co., Katra Naya, Delhi.

American Radio & Auto Co., Queen's Road, New Delhi.

American Watch Co., Kashmir Gate, Delhi.

Andrew Yule & Co. Ltd., 12, Pusa Road, Delhi.

Art Museum, The, 1726, Bura Bastion Rd., Delhi-6.

Asia Udyog Limited, Connaught Circus, New Delhi.

Associated Cement Cos. Ltd., Queensway, New Delhi.

Associated Electrical Industries (India) Private Ltd., United India Life Bldg., Connaught Place, New Delhi.

Associated Industrial Development Co. Ltd., Kashmir Gate, Delhi.

Associated Press of America, 19, Narendra Place, Parliament Street, New Delhi.

Associated Press of India, 4, Parliament Street, New Delhi.

Associated Textile Engineers, Chawri Bazar, Delhi.

Atlantic Agencies, 1681/1, Jog Dhyani Colony, Bagirath Palace, Chandni Chowk, Delhi 6.

Atlas Cycle Industries Ltd., Sonapat, New Delhi.

Balmer Lawrie & Co. Ltd., 9A, Daryaganj, Delhi 7.

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Bansidhar Prem Narain Jain, Nayaktra, Chandni Chowk, Delhi.

Bansi Lal & Sons Ltd., 'N' Block, Piccadilly Bldg., Connaught Place, New Delhi.

Bawa Pradumansingh & Sons, Katra Naya, Delhi.

Bedi Company, Katra Rathi, Delhi.

Berry Studio, Kashmir Gate, Delhi.

Best & Co., Chandni Chowk, Delhi.

Bestways & Co., Outside Moti Cinema, Chandni Chowk, Delhi.

Bhagwandas Brothers, Katra Lal, Delhi.

Bhagwan Singh Namdhari & Sons, Moti Khan, New Delhi.

Bhajansingh Hardittsingh & Co., Katra Rathi, Delhi.

Bhanamal Gulzarimal, Ltd., Chawri Bazar, Delhi.

Bharat Bank Ltd., Daryaganj, Delhi.

Bharat Cloth Shop, Katra Subhash, Delhi.

Bharat Electricals, Dealers in Electrical Goods, 9A, Fais Bazar, Delhi 7.

Bharat Fire & General Insurance Ltd., Scindia House, New Delhi.

Bharat Hardware Mfg. Co., Naya Bazar, G. B. Road, Delhi.

Bharat Kala Kendra Ltd., Connaught Place, New Delhi.

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Bhawnani & Sons, F Block, Connaught Place, New Delhi 1, Booksellers, Stationers, Printers, Toys and Games. Phone : 47036.

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Birla Cotton Mills Cloth Shop, Katra Piarayal, Delhi.

Birla Cotton Spg. & Wvg. Mills Ltd., Subzi-
mandi, Delhi.

Bishambharial & Co., Katra Subhash, Delhi.

Bishanlal Aggarwal & Sons, Katra Subhash, Delhi.

Bishanlal Kapoor & Sons, Katra Subhash, Delhi.

B. K. Aswani, Presentation Articles. 14, Sundar Nagar Market, New Delhi.

Bilas & Cotton, 12E, Connaught Place, New Delhi-1.

B. Lilaram & Sons (Delhi), 14-15F, Connaught Place, New Delhi.

B. L. Ramrichpal, Polytechnic School, Kashmir Gate, Delhi.

Bombay Silk Store, Chandni Chowk, Delhi.

B. M. Ahuja & Co., Katra Mohan, Delhi.

B. M. Khanna & Sons, 383, Katra Naya, Delhi.

Bombay & Calcutta Cycle Co., 278, Esplanade Road, Delhi.

Brentford, James & Co. (India), 6, Pearsall Buildings, Queensway, New Delhi.

Brij Beharilal & Co., Katra Chohan, Delhi.

British Motor Car Co. Ltd., Connaught Circus, New Delhi.

British Overseas Airways Corporation, "Speedbird House," Service Road, Connaught Place, New Delhi.

British Radio Products, Connaught Place, New Delhi.

Burmah-Shell Oil Storage & Distributing Co. of India, Ltd., Burmah-Shell House, Connaught Circus, New Delhi.

Caltex (India) Ltd., Queensway, Delhi.

Camera, Krishna Niket, Delhi Gate, Delhi.

Central Arts Emporium, Connaught Place, New Delhi.

Central News Agency, 23/90, Connaught Circus, New Delhi.

Chartered Bank, The, Chandni Chowk, Delhi.

Chunilal Bhatia & Co., Sadar Bazar, Delhi.

Chuttan Lal Mattu Mal, Hardware Merchants & Ironmongers, Chawri Bazar, Delhi-6. Phone : 26734. Grams : "MACHINERY."

Coal Marketing Co. of India Ltd., Chandni Chowk, Delhi.

Continental Cycle and Motor Co., 278, Esplanade Road, Delhi.

Dalmia Cement and Paper Marketing Co. Ltd., 10, Daryaganj, New Delhi. Branch : 15-A, Elphinstone Circle, Fort, Bombay.

DELHI CLOTH & GENERAL MILLS CO. LTD., Bara Hindu Rao, Delhi.

Delhi Engineering Workshop and Foundry, Ajji Building, Chooona Mandi, Fajar-ganj, New Delhi.

DELHI GARAGE PRIVATE LIMITED, Connaught Circus, New Delhi. Branch : Lucknow. Workshop and Garage Equipment including specialised Lubrication Equipment for Automobiles, Tractors, Earth moving machinery, etc. Centralised Lubrication for Industrial Undertakings—Air Compressors—Spray Painting Equipment—Workshop and Garage Tools—Fire Protection Appliances—Canvas Hose, Hose couplings and rubber hoses.

Delhi Iron Syndicate Private Ltd., The, 20, Barakhamba Road, New Delhi.

Delhi Optical Co., Chandni Chowk East, Delhi 6.

Delhi Paints Corp., 4-51, Connaught Circus, Opp. Nirula, New Delhi.

Delhi Photo Company, 70, Queensway, New Delhi. Phone : 8575.

Delhi Safe Deposit Co. Ltd., Oriental Buildings, 86, Queensway, New Delhi.

Delhi Trading Agency, 651, Katra Bhangl, Delhi.



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Dhoomi Mal Dharam Dass, Stationers, Chowri Bazar, Delhi.

Dhannamal Silk Mills, Katra Rathi, Delhi.

Discount Bank of India Ltd., Chandni Chowk, Delhi.

DLF Housing & Construction Ltd., F. Connaught Place, New Delhi.

Docker Bell Ram & Sons, Mahalakshmi Market, Chandni Chowk, Delhi 6.

Dhogarmal & Sons, Katra Subhash, Delhi.

D. S. Bawa & Co., 14, Barakhamba Road, New Delhi.

Dunlop Rubber Co. (India) Ltd., Mori Gate, Delhi.

Eastern Cloth House, Katra Piarayal, Delhi.

Ede., Queensway, 'N' Block, New Delhi.

E. D. Jaigotia & Sons, Connaught Place, New Delhi.

Edward Kavanter (Successors), Private Ltd., Kitchner Road, New Delhi.

Electronics Ltd., Finest equipments from the houses of Electronics, Connaught Place, New Delhi-1.

Empire Stores, Wine & General Merchants, Connaught Place, New Delhi.

English Watch Co. (India), Bhagirath Palace, Chandni Chowk, Delhi.

Ensa Trading Co., Manufacturers' Representatives & Commission Agents, Behind Bhagirath Palace, Chandni Chowk, Delhi.

ESCORTS (AGENTS) PRIVATE LTD., Pratap Bldg., Connaught Circus, Post Box No. 187, New Delhi. Phone: 40146 (4 lines). Grams: "ESCORTS".

Fakirchand Mohanlal, Chawri Bazar, Delhi.

F. & C. Oser (India) Ltd., Scindia House, Queensway, New Delhi.

Firestone Tyre & Rubber Co. (India) Ltd., Hasan Building, Nicholson Road.

Foster Bell & Company, P.B. No. 406, New Delhi 1.

Fourbhai Ltd., 14, Fais Bazar (Daryaganj), Delhi 7.

Frontier Hosiery Stores, 5742/43, Gandhi Market, Sadar Bazar, Delhi 6.

Frontier Traders, Katra Nawab, Delhi.

Ganesh Flour Mills Co. Ltd., Subzi Mandi, Delhi.

Gangabaihan Bhasin & Co., Katra Subhash, Delhi.

Gannon Dunkerley & Co. Ltd., Connaught House, "E. Block", Connaught Circus, New Delhi.

Ghazalbad Engineering Co. Private Ltd., 44, Queensway, New Delhi.

Gestetner Duplicators Ltd., 9, Scindia House, Connaught Circus, New Delhi.

Girdharilal Bros., Diamond Merchants, Opp. Scindia House, New Delhi-1.

Glamour, 20-F, Connaught Place, New Delhi.

Golcha Properties Private Ltd., Gulcha Building, Fais Bazar (Daryaganj), Delhi.

Govan Bros. Ltd., Scindia House, New Delhi.

Greenways, Knitting, 20-E, Connaught Place, New Delhi.

G. N. Khanna & Co., 527, Katra Neel, Chandni Chowk, Delhi.

G. R. Khanna & Co., Chandni Chowk, Delhi.

Ghamandilal Nanchmal Jain, Sadar Bazar, Delhi.

Grover & Co., Katra Bhangl, Chandni Chowk, Delhi.

Gulab Singh Johrimal, Dariba Kalan, Delhi.

Gupta Brothers, Katra Naya, Chandni Chowk, Delhi.

Gurandittamal & Sons, Katra Naya, Chandni Chowk, Delhi.

Gurditt Singh & Sons, Katra Subhash, Chandni Chowk, Delhi.

Gwallor Potteries (Delhi) Ltd., Factory Road, New Delhi.

Hamilton & Co. Ltd., Jewellers, Connaught Place, Delhi.

Handicrafts, 10F, Connaught Place, New Delhi 1. Carpet Dealers.

Hanaraj & Co., Katra Rathl, Nai Sarak, Delhi.

Harichand Jain & Sons, 20, Daryaganj, Delhi-7.

Harinath Onkarnath, Ganesh Bazar, Cloth Market, Delhi.

Harishanker Bros., Katra Moti, Nai Sarak, Delhi.

Hassamal Bros., 5548, Katra Rathl, Nai Sarak, Delhi.

H. C. Sen & Co., (Estd. 1880), Dr. H. C. Sen Road, The Fountain, Delhi-6.

Himalaya Boot House, Connaught Place, New Delhi.

Himalaya Manufacturing & Sales Co., Park Mansions, Daryaganj, Delhi.

Himalaya Trading Co., Fatehpuri, Delhi 6.

Hind's Pure Drugs and Chemicals Ltd., Bhagirath Palace, Chandni Chowk, Delhi.

Hindustan Commercial Bank Ltd., Chandni Chowk, Delhi.

Hindustan Embroidery Mills Shop, Katra Asharf, Chandni Chowk, Delhi.

Hindustan Refrigeration Stores, 2, Fais Bazar, Delhi.

Hindustan Times, New Delhi.

Hithari Brothers (of Delhi), Wholesale Bicycle Merchants, 9, Fais Bazar, Delhi.

HOLLERITH (INDIA) PRIVATE LIMITED, P.O. Box 76, New Delhi; Hollerith Electronic and Electro-mechanical Punched Card Accounting Machines; Head Office: Fasalbhoy Building, Mahatma Gandhi Road, Bombay 1; District Offices: 83, N. Block, Connaught Circus, New Delhi; District Manager: K. S. Vasanathan; Phones: 48146 & 48448; Telegraphic Address: "TABULORIAL".

Howard Radio Co., Opp. Plaza, New Delhi; 6, Bhagirath Palace, Chandni Chowk, Delhi.

Howrah Motor Co. Ltd., Kashmere Gate, Delhi.

Ideal Cloth Stores, Butwal Bazar, Delhi.

Imperial Cycle Mart, Esplanade Road, Delhi.

Imperial Gramophone Co. (India) Regd., The, 1388, Chandni Chowk, Delhi.

Imperial Watch House, Direct Importers and Wholesale Dealers, Chandni Chowk, Delhi.

Indian Handicrafts Export Agencies, 57-F, Connaught Place, New Delhi.

Indian Jewellery Trading Co., Chandni Chowk, Delhi.

Indo Commercial Corporation, Jama Masjid Area, Delhi.

Indo Trading Co., Motor Parts Dealers, Kashmere Gate, Delhi-6. Phone: 5589.

Iron & Hardware (India) Co., Chawri Bazar, Delhi.

Ishar Singh Ramlal & Co., Katra Hiralal, Chandni Chowk, Delhi.

Jaico Publishing House, Gobind Mansion, "H" Block, Connaught Circus, New Delhi.

JEENA & CO., "Indra Palace", Connaught Circus (H. Block), New Delhi 1. Passenger Booking Agents to all Steamship, Air and Railway Lines, Tour and Travel Specialists. Shipping, Clearing, and Insurance Agents, Correspondents everywhere. Telegrams: "TRAVEL-JENA". Phones: 45821/22/23.

Jhalani Brothers, Gall Lobe Wall, Chawri Bazar, Delhi.

J. & J. DeChane Agency, Katra Neel, Chandni Chowk, Delhi-6.

J. Kimatral & Co., Katra Asharf, Chandni Chowk, Delhi.

Joginder Bros., Katra Rathl, Nai Sarak, Delhi.

John Tinson & Co. Ltd., Sanitary Engineers, 54, Queensway, New Delhi.

Kahanchand & Sons, Chandni Chowk, Delhi.

Kalyan Das & Company, Behind State Bank of India, Chandni Chowk, Delhi.

Kanjimull & Sons, Jewellers, Scindia House, Queensway, New Delhi.

Kapurchand & Bros., Importers & Exporters, 5806, Sadar Bazar, Delhi.

Kapur Di Hatti, Connaught Place, Near Odeon, New Delhi.

Kashmir Swadeshi Store, Chandni Chowk, Delhi.

Kemp & Co. Ltd., Connaught Place, New Delhi.

Kewal Rubber Products, Sadar Bazar, Delhi.

Khurja Blacuit Factory, Choona Mandi, Paharganj, New Delhi.

Khyber Electric Stores, Connaught Circus, New Delhi.

Kirpaldas & Co., Mahabir Bazar, Cloth Market, Delhi.

Kishorilal & Sons, Chawri Bazar, Delhi-6.

Key Cee Agencies (India), Katra Rathl, Nai Sarak, Delhi.

K. C. Brothers, Katra Rathl, Nai Sarak, Delhi.

K. N. Dawar & Co., 12-L, Connaught Circus, New Delhi.

Koolairs Ltd., Queensway, New Delhi.

Kunj Lal Sital Pershad Oswal, Sadar Bazar, Delhi.

K. Vishnuprasad & Co., Kucha Mahajan, Chandni Chowk, Delhi.

Lallons, Corner Sarakhamba Road, New Delhi.

Lawrence & Mayo (India) Ltd., Ophthalmic Opticians, 76, Queensway, New Delhi-1.

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Lorindamal Sethi & Co., Gandhi Cloth Market, Delhi.

Madanbabu & Co., Outside Moti Bazar, Chandni Chowk, Delhi.

Mal Nem Chand Jain, Jewellers, 1788, Damba Kalan, Delhi. Phone: 24859.

Manilal & Brothers, Chawri Bazar, Delhi-6.

MARSHALL SONS & CO. (INDIA) LTD. Engineers, Marshall House, Hanuman Road, New Delhi. Grams: "ENGINE." Phones: 48087 & 47088.

Matchwel Electricals (India) Ltd., Managing Agents: Kassels Ltd., Subzi Mandi, Delhi.

Madan Brothers, IV/86, Chandni Chowk, Near Dariba, Delhi.

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Metro Radio Corporation, 414, Lajpatral Market, Delhi.

Milawa Ram Lakhmichand, General Merchants, Sadar Bazar, Delhi.

Model Woollen & Silk Mills, Katra Bhangl, Nai Sarak, Delhi.

Mohan Brothers, Wholesale Wine Merchants, 3, Sadar Road, Delhi-6.

Mohata Agarwal Co., Katra Asharf, Chandni Chowk, Delhi.

Mongia Bros., Sports Goods Mfrs. & Dealers in Optical Goods, opp. Kumar Talkies, Chandni Chowk, Delhi.

Moradabad Art Emporium, Chandni Chowk, opp. Central Bank, Delhi.

M. R. Brothers, Cloth Market, Delhi.

Mumick Ltd., Opticians, 12-B, Connaught Place, New Delhi.

Munshi Ram Manohar Lal, Post Box 1165, Nai Sarak, Delhi 6.

Nandlal & Co. Ltd., Katra Hiralal, Chandni Chowk, Delhi.

Narotamal & Co., Katra Naya, Chandni Chowk, Delhi.

Nath Brothers, Kashi House, 7-8/A, Connaught Place, New Delhi.

Nathumal Durgadas & Co., Katra Nawab, Chandni Chowk, Delhi.

National Bank of India Ltd., Chandni Chowk, Delhi.

National Building Society Ltd., M. Block, Connaught Circus, New Delhi.

National Carbon Co. (India) Ltd., Peshad Exchange Building, Chandni Chowk, Delhi.

National Conduts Ltd., Electrical Goods Manufacturers, Kashmere Gate, Delhi.

Nayyar & Company, 16, Fais Bazar, Delhi. Dispensing Chemists & General Merchants. Phone: 25057. Grams: "GLUCOSE".

New Book Depot, Connaught Place, New Delhi. Phone: 40200.

New Friend Co., Ltd., 625, Chandni Chowk, Delhi.

New Garage Ltd., Scindia House, New Delhi.

New General Stores, 40, Connaught Circus, New Delhi.

Norfolk Syndicate (India) Ltd., Scindia House, Connaught Circus, New Delhi.

Northern India Tiles Corporation (Niteco Tiles), Manufacturers, Engineers & Contractors, Jindal Charitable Trust Bldg., 1-8-B, Asaf Ali Road, Delhi & Ajmeri Gate Extension, New Delhi. Phones: 27366, 49541, 27965.

Novex Dry Cleaners, Cleaners, 12C, Connaught Place, New Delhi.

Nursery School & Home Equipment Co., Opp. Minerva Cinema, Kashmere Gate, Gandhi Market, Delhi 6.

Omrakash & Co., Katra Hiralal, Chandni Chowk, Delhi.

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Oriental Radio & Electric Store, 17-C, Connaught Place, Post Box No. 103, New Delhi.

Oriental Sales Corporation, Connaught Circus, New Delhi.

Overseas Trading Co., Queen's Road, Delhi.

Pan American World Airways, Hotel Imperial, Delhi.

Pandit Bros., 10F, Connaught Place, New Delhi.

Panna Lal & Sons, Katra Piarayal, Chandni Chowk, Delhi.

Parco., 16/B, Connaught Place, New Delhi.

Paul Radio & Electric Corporation, 132, Sadar Bazar, Delhi 6.

Pearey Lal & Sons Ltd., Queensway, New Delhi.

Pearl Cycle Industries Private Ltd., New Delhi 15.

Phillips India, Calcutta, Bombay, Madras, Delhi, Lucknow, Kanpur, Patna & Bangalore.

Pokarmal Jain & Co., Katra Naya, Chandni Chowk, Delhi.

Premier Book Co., Nai Sarak, Delhi-6.

Premnath Motors Ltd., Scindia House, New Delhi.

Punjab Business and Supply Co. Ltd., Naya Bazar, Delhi.

Punjab Cloth Mills Ltd., Katra Ashraf, Chandni Chowk, Delhi.

Punjab National Bank Ltd., Chawri Bazar, Delhi.

Punjab Optical House, 740, Chandni Chowk (between Dariba & Gardwara), Delhi 6.

Punjab Spectacles Co., The Fountain, Delhi -6. Manufacturing Opticians.

Punnalal Jainy & Co., Gali Lehawa, Chandni Chowk, Delhi.

Raja Toys Co., Deputy Ganj, Sadar Bazar, Delhi (India).

Rajasthan Trading Co., Katra Nawab, Chandni Chowk, Delhi.

Rajendra & Co., Ladies Coats and Gents Wear Specialists, 16-E, Connaught Place, New Delhi.

RAJKAMAL PRAKASHAN PRIVATE LTD., Fais Bazar, Delhi. Branches at Bombay, Allahabad, Patna and Madras. Leading Hindi Publishers and Wholesalers.

Ram Kishen & Sons, 18, Marina Arcade, New Delhi.

Ramkishan Sethi & Sons, 283, Chandni Chowk, Delhi.

Rama Krishna & Sons, Book-Sellers, 16/B, Connaught Place, New Delhi.

Rama Textiles Ltd., Nicholson Road, Delhi.

Ramsingh Kundanlal, 6606, Gandhi Market, Sadar Bazar, Delhi 6.

RANBAXY & COMPANY PRIVATE LTD., Head Office: No. 16, Marina Arcade, P.O. Box No. 104, Connaught Circus, New Delhi; Branches: BOMBAY: 1st Floor, Queen's Mansion, Bastion Road, Fort; CALCUTTA: P/36, Royal Exchange Place, Extension; DELHI: Bhagirath Palace, P.O. Box No. 1664; KANPUR: Shyam Sunder Bldg., The Mall; MADRAS: Ibrahim Bldg., S. Erabalu Chetty Street; Sole Agents for: LEPETIT, S. P. A. Milan, Italy and MEDIMPEX, the Hungarian Company for Pharmaceuticals - also manufacturers of Vitamins and other Pharmaceutical specialities. (Managing Director: Bhal Mohan Singh); Cable Address: "LEPETIT", New Delhi, Bombay, Calcutta, Delhi, Kanpur & Madras.

Ranjitsingh & Sons, Esplanade Road, Delhi.

RANGON STUDIO (TELREJA BROS.), 58, Janpath, New Delhi, Phone: 47861.

Ravi Brother (Pvt. Ltd.), Kashmere Gate, Delhi.

Rawalpindi Automobiles, Kashmere Gate, Delhi.

R. B. Ramjidas & Co., 21, Deputy Ganj, Sadar Bazar, Delhi.

R. S. Madho Ram & Sons, Nai Sarak, Delhi.

Refrigerators (India) Private Ltd., 46, Janpath, New Delhi. Dealers in "Surfrige" - Refrigerators and Air-Conditioners and Super Collers.

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Roy Brothers (Cheap John) Ltd., Drapers & Tailors, Queensway, New Delhi.

Royal Fountain Pen Co., Near Fountain, Chandni Chowk, Delhi-6.

Royal Stores, General Merchants, 33, Gole Market, New Delhi.

S. Gupta & Co., Moti Bazar, Chandni Chowk, Delhi.

Sonabhai Muralilal & Co., Katra Ashraf, Chandni Chowk, Delhi.

S. B. Electric Company, Bismal Colony, Behind State Bank of India, Delhi 6.

S. Gupta & Co., Moti Bazar, Chandni Chowk, Delhi.

S. K. Diwan & Co., 24, Irwin Road, P.B. No. 233, New Delhi-1.

Saraswati, Jewellers, 10-E, Connaught Place, New Delhi.

Sarson & Co., Chawri Bazar, Delhi.

Sham & Co., 5529, Nai Sarak, Delhi.

Shambhunath & Co., Katra Subhash, Chandni Chowk, Delhi.

Shivmohanlal & Co., Katra Naya, Chandni Chowk, Delhi.

Sohanlal Prem Narain Jain, V/57, Chandni Chowk, opp. Central Bank, Delhi.

SPENCER & CO., LTD., Northern Branches Control Office-19-A, Allpore Road, Delhi; Wholesale and Retail Wine and Provision Merchants; Hotel Proprietors; Cigar Manufacturers; Cold Storage; Refrigeration and Air-Conditioning Specialists, etc. Branches: Kashmere Gate, Delhi & 2, Irwin Road, New Delhi; Grams: "PORTDOR" Delhi; Phones: 26222 & 25909; P.O. Box No. 2003.

Standard Radio & Electric Co., Opp. Scindia House, New Delhi.

State Bank of India, Chandni Chowk, Delhi & Parliament Street, New Delhi.

Suraj Perkaash & Bros., Katra Naya, Chandni Chowk, Delhi.

Surana & Company, Fountains, Chandni Chowk, Delhi.

Suresh Howley Mills, 20, Daryaganj, Delhi-7.

T. Motandas & Co., Thana Saddar Road, Delhi 6.

Tata Industries Ltd., United India Building, Connaught Circus, P.O. Box No. 68, New Delhi-1.

Tilak Chand Rajendra Kumar Jain, 5198, Sadar Bazar, Delhi 6.

Tilak Raj Bhasin & Co., Katra Nawab, Chandni Chowk, Delhi.

Time & Tide, Krishna Niket, Delhi Gate, Delhi.

Tomco, The Tata Oil Mills Co. Ltd., Sales Department, Delhi Gate, Delhi.

Trade Representation of the German Democratic Republic, The, New Delhi.

Trevillion & Clark, 21-B, Connaught Place, New Delhi.

Trikamlal Maganlal Butaria & Co., Katra Ashraf, Chandni Chowk, Delhi.

Uberoi Ltd., Sports Goods Dealers, 14/E, Connaught Place, New Delhi.

United Dairies Ltd., Connaught Circus, New Delhi.

United Soda Water Factory, Naya Bazar, Delhi.

United Sports Traders (Delhi), Ltd., 5838, Khaliq Mansil, Thana Street, Subzi Mandi, Delhi.

Universal Book & Stationery, Co., 16, Fais Bazar, Delhi 7.

Universal Publishing Co., Esplanade Road, Delhi.

Universal Radio Co., Chandni Chowk, Delhi-6.

Upper India Selling Agency, Katra Piarayal, Chandni Chowk, Delhi.

Upper India Trading Co. Ltd., Kashmere Gate, Delhi.

United Traders, Katra Neel, Chandni Chowk, Delhi.

Vallabh Das & Co., Dan Bazar, Cloth Market, Delhi.

Vigay Trading Co., Mahavir Bazar, Cloth Market, Delhi.

Vishva Sunder Fabrics Ltd., Katra Nawab, Chandni Chowk, Delhi.

Voltas Limited, 7, 1, Ajmeri Gate Extension, New Delhi.

Wholesale Textile Ltd., Chandni Chowk, Delhi.

CLASSIFIED LIST OF TRADES AND PROFESSIONS

ADVERTISING AND PUBLICITY AGENTS

Beecham's India Air Guide.—Beecham's Press Ltd. Building, M-Block, M-6, Connaught Circus, New Delhi 1.
 Bharat Publicity Service.—Delhi.
 Delhi Publicity Corp.—Kashmere Gate, Delhi.
 D. J. Keymer & Co. Ltd.—D.A.G. Extension, New Delhi.
 Gayways Publicity.—Rohtak Road, New Delhi.
 Grant Advertising Inc.—Delite Cinema Bldg., New Delhi.
 Hamdard Advertisers.—Hamdard Dawakhana, Delhi.
 Hind Publicity Service.—Kamla Market, New Delhi.
 Hindustan Publicity Corp.—23-24, Fais Bazar, Delhi 7.
 Jupiter Publicity Co.—G. B. Road, Delhi.
 Lintas Ltd.—D.A.G. Extension, New Delhi.
 National Publicity Service.—Connaught Place, New Delhi.
 Rama Publicity Service Private Ltd.—2542, Naiwara (Chawri Bazar), G.P.O. Box No. 1164, Delhi 6.
 Standard Publicity Service.—Chandni Chowk, Delhi.
 Studio Rattan Batra Ltd.—Bombay Life Buildings, Connaught Circus, New Delhi.
 Thompson Company (Eastern) Ltd.—Connaught Circus, New Delhi.
 Vasudeva Publicity Service.—50-M, Connaught Circus, New Delhi.

AERATED WATER MANUFACTURERS

Ashoka Soda Water Factory.—Opp. Police Station, Fais Bazar, Daryaganj, Delhi.
 Azad Soda Water Factory.—Library Road, Pul Bangash, Delhi.
 Bahadur Punjab Soda Water Factory.—Chandni Chowk, Delhi.
 Batra & Co. Regd. (India).—G. B. Road, Shahganj, Delhi.
 Behari Lal & Co.—Mori Gate & Connaught Circus, New Delhi.
 Bhola Ram & Sons Ltd., B. S.—Connaught Place, New Delhi.
 Chopra Aerated Water Factory.—Roshanara Road, Delhi.
 Coronation Soda Water Factory.—Mori Gate, Delhi.
 Crystal Aerated Water Factory.—8, Club Road, Delhi.
 Daulat Soda Water Factory.—Bara Hindu Rao, Delhi.
 Dilbahar Soda Water Factory.—Library Road, Pul Bangash, Delhi.
 H. S. Obra's Son & Co.—Naya Bazar, Delhi.
 H. S. Obra & Sons.—Connaught Circus, New Delhi.
 J. B. Soda Water Factory.—Dev Nagar, Original Road, Delhi.
 Kailash Soda Water Factory.—Queen's Road, Delhi.
 Kellys Soda Water Factory.—Nicholson Road, Delhi.
 National Aerated Water Factory.—Bara Tooti, Sadar Bazar, Delhi.
 Nonhal Soda Water Factory.—Bahadurgarh Road, near Deputy Ganj, Delhi.
 Prabhat Soda Water Factory.—Behind State Bank, Chandni Chowk, Delhi.
 Punjab Soda Water Factory.—Paharganj, Delhi.
 R. K. Goyal & Co.—Naya Bazar, Delhi.
 Ramsey Aerated Water Factory.—Arora Building, Original Road, Delhi.
 Royal Soda Water Factory.—Sadar Thana Road, Delhi.
 Shree Mahabir Soda Water Factory.—Model Basti, Delhi.
 Tepitits Aerated Water Co.—Church Road, Kashmere Gate, Delhi.
 United Soda Water Factory.—Naya Bazar, Delhi.

AGRICULTURAL ENGINEERS

B. K. Khanna & Co.—Connaught Circus, New Delhi.
 Delhi Garage Ltd.—Connaught Circus, New Delhi.
 Dinanath Balmukand.—Naya Bazar, Delhi.

AGRICULTURAL IMPLEMENTS

Delhi Garage Ltd.—Connaught Circus, New Delhi.
 East Asiatic Co. (India) Private Ltd.—Delite Cinema Bldg.; D.A.G. Extension, New Delhi.
 Escorts (Agents) Ltd.—Connaught Circus, New Delhi.
 Goodearth Agencies Private Ltd.—D.A.G. Extension, New Delhi.
 Jacks William & Co. Ltd.—Connaught Place, New Delhi.
 Jayems Engineering Co.—Connaught Circus, New Delhi.
 Larson & Toubro Ltd.—Indra Palace, Connaught Place, New Delhi.
 Man Mohan Lal & Co.—D.A.G. Extension, New Delhi.
 Seth Ram Narain Gupta & Bros.—Naya Bazar, Delhi.
 Tecalemit (India) Ltd.—L/13, Connaught Circus, New Delhi.

AGRICULTURAL MACHINERY

Bhans Mal & Co., Ltd.—Chawri Bazar, Delhi.
MARSHALL SONS & CO. (INDIA) LTD.—Marshall House, Banaman Road, New Delhi. Grams: "ENGINE." Phones: 49097 and 47066.

AIR-CONDITIONING AND REFRIGERATION

Ahuja (Refrigeration) Ltd.—D.A.G. Scheme, New Delhi 1.
 Air Conditioning Corporation Ltd.—Regal Buildings, New Delhi 1.
 Associated Electrical Industries (India) Private Ltd.—United India Life Bldg., Connaught Place, New Delhi.

Best & Co.—Connaught Circus, New Delhi 1.
 Blue Star Engineering Co. Ltd.—Behind Kamla Market, New Delhi 1.
 Bombay Ammonia & Refg. Co. Ltd.—D.A.G. Scheme, New Delhi 1.
 Capital Refrigeration Co.—72, Queensway, New Delhi 1.
 Gardners Corporation—25/90, Connaught Circus, New Delhi.
 Himalaya Manufacturing & Sales Co.—Fais Bazar, Delhi 7.
 Hindustan Airconditioning Corporation.—Asaf Ali Road, New Delhi 1.
 Kanwar Refrigerators (India).—M-45/1, Connaught Circus, New Delhi 1.
 Kapsons Refrigeration & Air Conditioning Engineers.—D.A.G. Scheme, New Delhi 1.
 Kooler's Refrigeration & Air Conditioning Co.—1/21, Block, Connaught Circus, New Delhi 1.
LLOYD ELECTRIC & ENGINEERING CO.—Panj House, M-13, Connaught Circus, New Delhi 1.
 Modern Electro-Mechanical Works.—25/8, Prem House, Connaught Place, New Delhi 1.
 National Refrigeration Works.—2, Fais Bazar, Delhi 7.
 New India Motors Ltd.—Connaught Circus, New Delhi 1.
 Oriental Radio Corporation.—D Block, Connaught Circus, New Delhi 1.
 Oriental Refrigeration & Engineering Co., Ltd.—D.A.G. Scheme, New Delhi 1.
 Refrigerators (India) Ltd.—46, Queensway, New Delhi 1.
 Refrigerator Service Corporation.—2, Regal Building, Connaught Circus, New Delhi 1.
 Standard Radio & Electric Co.—Opp. Scindia House, New Delhi 1.
 Tranga Engineering Works.—349-A, Jajpat Rai Market, Delhi 6.
 Veer Refrigerating & Air Conditioning Co.—X1/3485, Daryaganj, Delhi 7.
 Veer Refrigerators India.—Palewal Building, Ajmeri Gate, New Delhi 1.
 Vijay Electronics Ltd.—13-L, Connaught Circus, New Delhi 1.
 Voltas Ltd.—7/1, Ajmeri Gate, New Delhi 1.

AIR COMPRESSORS

Brady, W. H. & Co., Ltd.—Indra Palace, Connaught Place, New Delhi.
 Consolidated Pneumatic Tool Co. Ltd.—8-A/29, W.E.A., New Delhi.
DELHI GARAGE PRIVATE LTD.—Connaught Circus, New Delhi. Air Compressors for Spray Painting Jobs, Tyre Inflation and for all compressed air-operated equipment.
 East Asiatic Co., India (Private) Ltd.—Delite Cinema Bldg., D.A.G. Extension, New Delhi.
 F. J. Dillon Engineering Co.—D.A.G. Extension, New Delhi.
 Jayems Engineering Co.—Connaught Circus, New Delhi.
 Khosla, K. G. & Co., Private Ltd.—D. R. Gupta Road, New Delhi.
 Marshall Sons & Co., (India) Ltd.—Marshall House, Connaught Circus, New Delhi.
 Tecalemit (India) Ltd.—L/13, Connaught Circus, New Delhi.

AIR SERVICE

Air Carrier Service Corp.—43, Regal Bldg., Connaught Circus, New Delhi.
 Air France, General Agents Escorts (Agents) Ltd.—Connaught Circus, New Delhi.
 Air India International.—9, Connaught Place, New Delhi.
 Aryan Air Lines, Air Line Co.—Connaught Place, New Delhi.
 British Overseas Airways Corporation.—Speedbird House, Connaught Circus, New Delhi.
 Himalayan Aviation Ltd.—202, Jor Bagh Nursery, New Delhi.
 Indian Air Lines Corporation.—Malhotra Building, Queensway, New Delhi.
 K.L.M. Royal Dutch Air Lines.—9-A, Connaught Place, New Delhi.
 Pakistan International Air Lines.—Metro Hotel, Queensway, New Delhi.
 Pan American World Airways.—Hotel Imperial, New Delhi.
 S.A.S.—Western Court, Queensway, New Delhi.
 Segal Air Transport Ltd.—24/18, Daryaganj, Delhi 7.
 T.W.A.—General Agents, Saha & Rai, Connaught Circus, New Delhi.

ALUMINIUM & ALUMINIUM WARE MANUFACTURERS

Aluminium Hindustan Ltd.—Chowdhary Bldg., Block K, New Delhi.
 Chawla Brass & Aluminium Factory.—G.T. Road, Delhi-Shahdara.
 Chawla Metal Works.—Delhi-Shahdara.
 Delhi Brass & Aluminium Works.—Rohtak Road, New Delhi.
 Hind Metal Works.—G. T. Road, Delhi-Shahdara.
 Indian Aluminium Co., Ltd.—44, Janpath, New Delhi.
 Popular Metal Works.—Delhi-Shahdara.
 Rama Krishna Rolling & General Mills.—Rohtak Road, Delhi 6.
 Sardar Aluminium Factory.—G. T. Road, Delhi-Shahdara.
 Shahdara Aluminium Factory.—G. T. Road, Delhi.
 Swastik Metal Works.—G. T. Road, Delhi-Shahdara.

ARMS AND AMMUNITION

Basakha Singh & Co., Ltd.—6-L, Basakha Singh Buildings, Connaught Place, Delhi.
 Bawa Parduman Singh & Sons.—Cloth Market, Delhi.
 Debi Parshad Bagaria.—Subzimidandi Bazar, Delhi.
 Gift House.—Connaught Place, New Delhi.
 Manton & Co.—Scindia House, Connaught Circus, New Delhi.
 National Stores.—Connaught Circus, New Delhi.
 Oriental Arms & Ammunition Co.—Connaught Circus, opp. Fire Brigade, New Delhi.
 Oriental Sales Corporation.—Connaught Circus, New Delhi.
 Shakti Arms Corporation.—Connaught Place, New Delhi.

AUCTIONEERS

B. N. Ramji Das & Co.—278, Esplanade Road, Delhi.
 Behanlal & Co.—Connaught Circus, New Delhi.
 Naidar Mal Jai Kishan Das.—Fais Bazar, Daryaganj, Delhi.
 Ram Gopal Bhatti Ram.—Hamilton Road, Delhi.
 Rangji Lal Shri Krishan.—Hamilton Road, Delhi.
 Ravi Brothers.—Church Road, Kashmir Gate, Delhi.
 Seth Kishori Lal & Sons.—49, Panch Kuin Road, Delhi.

AUTOMOBILE DEALERS AND ENGINEERS

Aggarwal Automobiles.—Queen's Road, Delhi.
 Allenbury & Co., Ltd.—Connaught Circus, New Delhi.
 Allied Engineering Co.—Kashmere Gate, Delhi.
 American Radio & Auto Co.—Queen's Road, Delhi.
 Anand Automobiles Ltd.—Mehrauli Road, New Delhi.
 Associated Engineering Works Ltd.—Kashmere Gate, Delhi.
 Asu Traders.—Kashmere Gate, Delhi.
 Auto Home.—Kashmere Gate, Delhi.
 Auto Trading Co.—Kashmere Gate, Delhi.
 Bharat Automobiles.—Kashmere Gate, Delhi.
 Bharat Motor Co.—Queen's Road, Delhi.
 Bombay Auto & Electric Stores.—Kashmere Gate, Delhi.
 British Motor Car Co., Ltd.—Connaught Circus, New Delhi.
 Chopra Auto Stores.—Kashmere Gate, Delhi.
 Commercial Auto Stores.—Kashmere Gate, Delhi.
 Commonwealth Automobiles.—Queen's Road, Delhi.
 D. B. Dass & Co.—Kashmere Gate, Delhi.
 Dass Motor Stores.—New Delhi.
 Delhi Auto Stores.—Kashmere Gate, Delhi.
 Delhi Garage Ltd.—Connaught Circus, New Delhi.
 Delhi Motor Company.—Kashmere Gate, Delhi.
 Federal Auto Stores.—Kashmere Gate, Delhi.
 Ganeshdass Vishandas.—Mutfin Memorial Road, Delhi.
 General Agencies & Representatives.—Daryaganj, Delhi.
 General Automobiles.—Kashmere Gate, Delhi.
 General Motor Stores.—Queen's Road, Delhi.
 Goodwill Automobiles.—Kashmere Gate, Delhi.
 Gupta Bros.—Kashmere Gate, Delhi.
 Hind Automobiles.—Kashmere Gate, Delhi.
 Howrah Motor Co., Ltd.—Kashmere Gate, Delhi.
 Indo Trading Co.—Kashmere Gate, Delhi.
 Indra Prasth Traders.—Kashmere Gate, Delhi.
 International Industries.—Kashmere Gate, Delhi.
 Jain Motor Car Co.—Queen's Road, Delhi.
 Jullunder Motor Agency Ltd.—Kashmere Gate, Delhi.
 Kamal & Co. (Jaipur) Ltd.—Gandhi Market, Kashmir Gate, Delhi.
 Kanoor Motors.—Kashmere Gate, Delhi.
 Kanwal Bros. Ltd.—Scindia House, New Delhi.
 Kapoor Motors.—Kashmere Gate, Delhi.
 Lakshmi Motor Co.—Queen's Road, Delhi.
 Marble Motor Stores.—New Delhi.
 Mehta Auto Stores.—Kashmere Gate, Delhi.
 Midland Motor Co.—New Delhi.
 Midland Traders.—Kashmere Gate, Delhi.
 Modern Automobiles.—Kashmere Gate, Delhi.
 Mudgal Motor Co.—Kashmere Gate, Delhi.
 Narula Motor Works.—Queen's Road, Delhi.
 National Automobiles.—Kashmere Gate, Delhi.
 National Motor Works.—Queen's Road, Delhi.
 New Garage Ltd.—11, Scindia House, Connaught Circus, New Delhi.
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 Northern India Motor Co.—New Delhi.
 Orient General Agencies.—Kashmere Gate, Delhi.
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 Rama Motor Stores.—Queen's Road, Delhi.
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 Ratan Lal & Co.—Kashmere Gate, Delhi.
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 Seth & Sons.—Queen's Road, Delhi.

S. Krishna & Co.—Kashmere Gate, Delhi.
 Soodhi Motors Ltd.—Scindia House, New Delhi.
 Swastika Motors.—Kashmere Gate, Delhi.
 United Trading Co.—Kashmere Gate, Delhi.
 Upper India Trading Co., Ltd.—Kashmere Gate, Delhi.
 Vir India Motor Co.—Kashmere Gate, Delhi.

AUTOMOBILE PARTS & ACCESSORIES

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 Delhi Garage Ltd.—Connaught Circus, New Delhi.
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 Indo Trading Company.—Kashmere Gate, Delhi.
 The Jain Motor Car Co.—Queen's Road, Delhi.
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AUTOMOBILE REPAIRS & SERVICE STATION

Allied Motors Private Ltd.—Scindia House, New Delhi.
 Bagal Motor Service. 82-84, Janpath, New Delhi.
 British Motor Car Co., Private (1934) Ltd.—Connaught Circus, New Delhi.
 Kashyap Motors. G-40, Connaught Circus, New Delhi.
 New Garage Private Ltd.—Scindia House, New Delhi.
 Parey Lal & Sons Private Ltd.—Queensway, New Delhi.
 Prem Nath Motors Private Ltd.—Scindia House, New Delhi.

AUTOMOTIVE COMPONENTS MANUFACTURERS

GOETZE (INDIA) PRIVATE LTD.—Pratap Building, Connaught Circus, Post Box No. 187, New Delhi; Phone: 40146 (4 Lines); Grams: "PISTORING."

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Abduli Rashid Bakery.—Lal Kuan, Delhi 6.
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 Bharat Bakery.—Mehrauli, New Delhi.
 Blue Bird Bakery.—Tokrivan, Delhi.
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 Delhi Biscuit Co.—Rajn Pagh Road, Pul Panchesh, Delhi.
 Fancy Bakery.—9-A, Kothi Shona, Sulzhandi, Delhi.
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 Ideal Biscuit Co.—Pancharganj, Delhi.
 Jai Hind Bakery.—Chabkanj, Kashmir Gate, Delhi.
 J. B. Mangharan & Co.—Fatehpuri, Delhi.
 Kallash Bakery.—53, Gole Market, New Delhi.
 Khura Bakery.—Chhona Mandi, Pancharganj, New Delhi.
 Maqboos Bakery.—Near Jun & Masjid, Delhi 6.
 Modi Industries.—Fais Bazar, Delhi.
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 American Express Co., Inc., The.—Hamilton House, Block 'A', Connaught Place, New Delhi.
 Bank of Baroda Ltd.—Katra Munshi Gauri Shanker, Delhi & Connaught Circus, New Delhi.
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 Bank of India Ltd.—Indra Palace, New Delhi.
 Bank of Patiala.—Near Gurulwara, Chandni Chowk, Delhi.
 Central Bank of India, Ltd.—Chandni Chowk, Sadar Bazar, Delhi, and 70, Queensway, New Delhi.
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 Commilla Banking Corporation.—Chandni Chowk, Delhi.
 Delhi Co-operative Bank Ltd.—Khari Baoli, Delhi.
 Devkaran Nani Banking Co. Ltd.—Chandni Chowk, Delhi.
 First National Bank Ltd.—Opp. Moti Bazar, Delhi.
 Frontier Bank Ltd.—6-B, D.A.G., Extension, New Delhi.

Gadodia Bank Ltd.—Gadodia Market & Karol Bagh, Delhi.
 Grindlays Bank Ltd.—Chandni Chowk, Delhi; Connaught Place, New Delhi and Sadar Bazar, Delhi.
 Hindustan Commercial Bank Ltd.—Connaught Place, New Delhi and Chandni Chowk, Delhi.
 Laxmi Bank Ltd.—Chandni Chowk, Delhi.
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 Mercantile Bank of India Ltd.—Chandni Chowk, Delhi.
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 Oriental Bank of Commerce Ltd.—Chandni Chowk, Delhi.
 Palai Central Bank Ltd.—461, Chandni Chowk, Delhi and Connaught Circus, New Delhi.
 Prabhat Bank Ltd.—Chandni Chowk, Delhi and Connaught Circus, New Delhi.
 Punjab National Bank Ltd.—Head Office: 8, Under Hill Road, Delhi. Branches at: Connaught Circus, New Delhi and Fountain, Delhi; Karol Bagh, Kashmir Gate, Subalmandi, Sadar Bazar, Delhi; Minto Road, Chandni Chowk, Chawri Bazar, Delhi.
 Reserve Bank of India.—Chandni Chowk, Delhi.
 State Bank of India.—Chandni Chowk, Delhi & Parliament Street, New Delhi.
 Simla Banking and Industrial Co., Ltd.—88, Queensway Road, New Delhi.
 Traders Bank.—(Central Office: 13, Rajpur Road). Branch: Chandni Chowk, Delhi.
 United Bank of India.—Connaught Circus, New Delhi & Chandni Chowk, Delhi.
 United Commercial Bank Ltd.—Delhi.

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Balmer Lawrie & Co., Ltd.—D.A.G. Extension, New Delhi.
 Battery Supplying Co.—30, Gokhale Market, Delhi 6.
 Delhi Storage Ltd.—Connaught Circus, New Delhi.
 Kanwar Bros., Ltd.—Scindia House, New Delhi.
 Leela Separator Manufacturing Co., Ltd.—Post Box 1130, Delhi 6.
 Premnath Motors Private Ltd.—Scindia House, New Delhi.

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 Shree Mahalaxmi Trading Co.—Chawri Bazar, Delhi.

BLOWERS

LLOYD ELECTRIC & ENGINEERING CO.—Panj House, M-13, Connaught Circus, New Delhi 1.

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Arya Sahitya Bhawan.—Nai Sarak, Delhi.
 Amir Book Depot.—Nai Sarak, Delhi.
 Amrit Book Depot.—Bombay Life Building, Connaught Circus, New Delhi.
 ATMA RAM & SONS (HINDI & ENGLISH SECTIONS).—Book-sellers & Publishers, opp. Kashmir Gate Bus Stand, Delhi 6.
 Beecham's Press Ltd.—M Block, M-6, Connaught Circus, New Delhi 1.
 Bhagwan Das Baij Nath (School Books).—Esplanade Road, Delhi.
 BHARTI BHAWAN (Regd.).—Educational Publishers & Book-sellers Nai Sarak, Delhi & Adla Meharpur, Jalandhar City.
 Bhatia Book Depot.—Fahargunj, New Delhi.
 Bhawnani & Sons.—Connaught Place, New Delhi.
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Clifton & Co.—Hittkari Building No. 1, Karolbagh, Delhi.
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 D. B. Suraj Balram.—Esplanade Road, Delhi.
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 Federal Law Depot.—Kashmere Gate, Delhi.
 E. D. Gairola & Sons.—Connaught Place, New Delhi. Phone No. 43184. Books, Periodicals & Newspapers.
 General Book Depot.—Nai Sarak, Delhi.
 Gobind Ram Mangta & Sons.—Sadar Bazar, Delhi.
 Goyal & Co.—Dariba Kalan, Delhi.
 Gulab Chand Kapoor & Sons.—Lalson Gate, G. B. Road Delhi.
 Hall Publishing House.—Machhlwala, near Jama Masjid, Delhi.
 Hanf Book Depot.—Machhlwala, near Jama Masjid, Delhi.
 Hindi Pustak Agency.—Dariba Kalan, Delhi.
 Hindustan Kitab Ghar.—Esplanade Road, Delhi.
 Inandas Book Co.—Opp. Scindia House, Connaught Circus, New Delhi.
 Imperial Book Depot.—Nai Sarak, Delhi.
 Imperial Stationery Mart.—Chowri Bazar, Delhi.
 India Book House.—United India Assurance Building, Connaught Place, New Delhi 1.
 Indian Academy.—Fatehpuri, Delhi.
 Indian Book Depot.—Bafr Road, New Delhi.
 Indian Publishing House.—Agents: India Press Ltd., Nai Sarak, Delhi.
 Indian University Publishers.—Kashmere Gate, Delhi.
 Jagannath Gupta.—Lady Hardinge Road, New Delhi.
 Jalco Publishing House.—Gobind Mansion, "H" Block, Connaught Circus, New Delhi.
 Jai Hind Book Palace.—Nai Sarak, Delhi.
 Jain Book Agency.—Government Book Sellers, Connaught Place, New Delhi.
 J. M. Jaina & Bros. (Govt. Publications).—Mori Gate, Delhi.
 J. S. Sant Singh & Sons.—Dariba Kalan, Delhi.
 Kalckera.—Connaught Place, New Delhi.
 Kitab Mahals.—Queensway, New Delhi 1.
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 L. R. Bhandari & Sons (Homoeopathic Books).—Fais Bazar, Daryaganj, Delhi.
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 Lakshmi Book Store.—42-M. M., Queensway, New Delhi.
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 Oxford Book & Stationery Co.—Scindia House, Connaught Circus, New Delhi.
 Parkash and Co.—Dariba Kalan, Delhi.
 Preetnagar Shop.—Esplanade Road, Delhi.
 Premier Book Co. incorporating Swatantra Bharat Press, Delhi.—Chandni Chowk, Delhi 6.
 Punjab Book Store.—Fahargunj, Main Bazar, New Delhi.
 Punjab Publishers.—Fatehpuri, Delhi.
 Pustak Mandir, 347.—Chawri Bazar, Delhi 6.
 Raj Book Depot.—Nai Sarak, Delhi.

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 Sharda Mandir.—Nai Sarak, Delhi.
 Shakuntla Kala Niketan.—2588, Subzimandi (opp. Robin Talkies), Delhi 6.

Sharma Book Depot.—Nai Sarak, Delhi.
 Sikh Publishing House Ltd.—7C, Prem House, Connaught Place, New Delhi. Agents for Govt. Publications.
 Standard Book Depot.—Opp. Scindia House, Connaught Circus.

STUDENTS' STORES.—Kashmere Gate, Delhi 6. (Stockists: Macmillan & Co. Ltd.), Largest suppliers of Educational requirements of Principal Public and Anglo-Indian Schools in Northern India.

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 Friends Boot House.—Fahargunj, Main Bazar, Delhi.
 General Boot House.—Chandni Chowk, Delhi.
 Gianendar Shoe Co.—Chandni Chowk, near Dariba, Delhi.
 Good-will Shoe Co.—Connaught Place, New Delhi.
 Gwallor Foot Wear Agency.—Chandni Chowk, Delhi.
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 Hira Boot House.—Chandni Chowk, Delhi.
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 Punjab Boot House.—Chandni Chowk, near Fountain, Delhi.
 Punjab Dildad Shoe Store.—Fahargunj, Main Bazar, Delhi.
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 Royal Boot & Chappal House.—Fahargunj, Main Bazar, Delhi.
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 Hind Construction Ltd.—Connaught Circus, New Delhi.
 Kundan Lal & Bros.—Chawri Bazar, Delhi.
 Mehta Construction and Industrial Corporation, Ltd.—25, New Rajendra Nagar, New Delhi.
 Modern Tiles Manufacturing Co.—Fais Road, Karol Bagh, New Delhi.
 Oriental Construction Delhi Ltd.—24, Allpur Road, Delhi.
 Pratap & Co.—17, Fais Bazar, Daryaganj, Delhi.
 Punjab Electric & Construction Co.—Bhagirath Palace, Delhi.
 Sethi & Co.—D.B.G. Road, Sethi Bldg., New Delhi.
 Shah Construction Co., Ltd.—Mathura Road, New Delhi.
 Sikand Construction Co.—Parliament Street, New Delhi.
 Singwal Brothers.—Delhi Cantt.
 Sunder Das Sardar Singh, Bhai.—10-D.A.G. Extension, New Delhi.

BUILDING MATERIALS

Bird & Co.—74, Queenway Road, New Delhi.
 Botta Ram & Sons, Pt.—G. B. Road, o/s Ajmeri Gate, Delhi.
 Buildwell Stores.—Outside Ajmeri Gate, Delhi.
 Capital Industries, Ltd.—Serai Rohilla, New Delhi.
 Cement Marketing Co. of India Ltd.—(Bird & Co.)—Queenway, New Delhi.
 Cement Pipe Factory.—Delhi Krishanganj Bazar, Delhi.
 Channa Cement Stores.—Chooa Mandi, Pahargunj, Delhi.
 Dalmia Cement & Paper Marketing Co., Ltd.—Scindia House, New Delhi.
 Delhi Cement & General Agencies.—G. B. Road, o/s Ajmeri Gate, Delhi.
 Delhi Glass & Tile Co.—Fatehpuri, Delhi.
 Delhi Stone & Lime Syndicate.—G. B. Road, o/s Ajmeri Gate, Delhi.
 Delhi Tile & Sanitary Stone.—Ajmeri Gate, Delhi.
 Dewan Chand & Sons.—G. B. Road, o/s Ajmeri Gate, Delhi.

Diwan Lime & Co.—2, Keeling Road and G. B. Road, Delhi.
 Dyer Stone Lime Co.—10, Allpore Road, Delhi.
 Guru Nanak Cement Jolly Works.—G. B. Road (Ajmeri Gate), Delhi.
 Himalaya Trading Co.—Fatehpuri, Delhi 6.
 Hindustan Cement Tile Works.—Karol Bagh, Delhi.
 Jaipur Lime & Stone Co.—(Mallik Kartar Singh & Co.)—C-Block, Connaught Place, New Delhi.
 Kanahya Lal Punj, Pt.—Opp. Fire Brigade, Connaught Circus, New Delhi.
 Lakshmi Stone Lime Co.—G. B. Road, o/s Ajmeri Gate, Delhi.
 Mahabir Pershad & Sons.—Chawri Bazar, Delhi 6.
 National Cement & Lime Stone.—G. B. Road, o/s Ajmeri Gate, Delhi.
 National Tile Works.—G. B. Road, o/s Ajmeri Gate, Delhi.
 New Imperial Stone Lime Co.—G. B. Road, o/s Ajmeri Gate, Delhi.
 Popular Tile Works.—Karol Bagh, Delhi.
 Punjab Building Material Syndicate.—G. B. Road, Ajmeri Gate, Delhi.
 Raghunath Bros.—(Bricks Manufacturers), Daryaganj, Delhi.
 Ralsada Sons.—(Bricks Kiln Owners), G. B. Road, o/s Ajmeri Gate, Delhi.
 Ram Grover & Son.—G. B. Road, o/s Ajmeri Gate, Delhi.
 Sand Supply Co.—Near Gurdwara, Chandni Chowk, Delhi.
 Sanitary Goods Manufacturers.—Karol Bagh, Delhi.
 Sanitary Improvement & Tiles Mfg. Co.—G. B. Road and 96, Katra Baryan, Delhi.
 Shibban Lal & Sons.—G. B. Road, o/s Ajmeri Gate, Delhi.
 S. N. Sunderson & Co.—Connaught Circus and G. B. Road, Delhi.
 Sunder Lal Jain.—Lahori Gate, G. B. Road, Delhi.
 Tayal Brothers Ltd.—Chawri Bazar, Delhi.
 Union Cement Jolly Works.—G. B. Road, o/s Ajmeri Gate, Delhi.

CABLE & WIRE MANUFACTURERS

Allied Traders, Pahari Imli, Delhi.
 Associated Electrical Industries (India) Private Ltd.—United India Life Bldg., Connaught Place, New Delhi.
 Crompton Cable Co.—3455, Delhi Gate, Delhi.
DELTON CABLE COMPANY.—3455, Delhi Gate, P.O. Box 1179, Delhi. Telephone: 24414. Telegram: "DELTONCO."
 Fleming John & Co., Private Ltd.—Chowdhery Bldg., Connaught Circus, New Delhi.
 Henley's Telegraph Works Co.—12/3, D.A.G. Extension, New Delhi.
 Indian Traders Ltd.—Chandni Chowk, Delhi 6.
 National Insulated Cable Co. of India, Ltd.—1664, Lohian Road, Kashmir Gate, Delhi 6.
 Reliable Electric & Cable Co.—3881, Churiwala, Delhi.
 Standard Telephones & Cables Ltd.—Connaught House, Connaught Place, New Delhi.

CAP MERCHANTS

The Bharat Cap House of Lahore.—Kinari Bazar, Delhi.
 Jotiparsad Birjimal.—Dariba Kalan, Chandni Chowk, Delhi.
 Manakchand Gupta.—Chandni Chowk, Delhi.
 R. R. Topiwala.—Dariba Kalan, Delhi.
 Shahzada Cap Factory.—Dariba Kalan, Delhi.
 S. R. Kausli Ram & Co.—Esplanade Road, Delhi.
 Tannulal Sardari Mall.—Dariba Kalan, Chandni Chowk, Delhi.

CARPET DEALERS

Central Cottage Industries Emporium on Janpath, New Delhi.
 The East India Carpet Co., Private Ltd.—Connaught Place, New Delhi.
 Guptajee.—Connaught Place, New Delhi.
 Handicrafts.—10F, Connaught Place, New Delhi 1.
 Kallias Carpet Co.—Connaught Place, New Delhi.
 Oriental Carpet Mfgs. (India), Ltd.—Connaught Place, New Delhi.
 Oriental Carpets.—Near Post Office, Connaught Place, New Delhi.
 Oriental Sales Corporation.—Connaught Circus, New Delhi.

CHEMICALS

Arjan Dass Gupta & Bros.—25, Fatehpur, Delhi.
 D. Bagga & Co.—Tilak Bazar, Delhi 6.
 Doctor Bell Ram & Sons.—Mahalakshmi Market, Chandni Chowk, Delhi 6.
 Domestic Chemical Works.—27, Mata Sundri Road, New Delhi.
 Hardcastle Waud & Co., Ltd.—D.A.G. Extension, New Delhi.
 Hindustan Chemical & Industrial Corp.—Bajaj Bldg., Original Road, New Delhi.
 Imperial Chemical Industries (India) Private Ltd.—Malhotra Bldg., Janpath, New Delhi.
 Indo Genuine Chemical Works.—Juma Masjid, Delhi.
 Kamani Metallic Oxides Ltd.—United India Life Bldg., New Delhi.
 Kanhaiyalal Ratanlal.—Inside Habash Khan Gate, Delhi.
 K. C. Bhargava & Co.—P.O. Box No. 1247, Delhi.
 Mahalakshmi Chemical Works.—Sawal Phus, Delhi.
 Metro Paint Industries.—Qutab Road, Delhi 6.
 Oriental Chemical Industries.—Ara Kashan Road, Ram Nagar, New Delhi.
 Pioneer Chemical Co.—Delhi 6.
 Process Chemical Co.—Fatehpuri, Delhi.
 Punjab Toilet & Chemical Works Ltd.—26-B, Pusa Road, Delhi 6.
 Radium Chemical Works Ltd.—2563, Daryaganj, Delhi 7.

Sarabhai Chemicals.—D.A.G. Extension, New Delhi.
 United Chemical & Soap Mills.—Phatak Habash Khan, Delhi.

CHEMISTS AND DRUGGISTS

Addison & Co., Ltd.—64, Regal Building, Connaught Place, New Delhi.
 Atlantic Agencies.—1681/1, Jog-Dhyan Colony, Bhagirath Palace, Chandni Chowk, Delhi 6.
 Balkishen Kapoor & Co., Ltd.—35-36, Faiz Bazar, Daryaganj, Delhi.
 Bansal & Co.—Lal Kuan, Delhi.
 B. C. Sen & Co.—Fountain Area, Chandni Chowk, New Delhi.
 B. Gopal & Co.—Chandni Chowk, Delhi.
 Bellram & Bros.—Bhagirath Palace, Chandni Chowk, Delhi.
 Bengal Immunity Co., Ltd.—(Behind State Bank), Chandni Chowk, Delhi.
BHAGWAN DAS & CO.—P.O. Box No. 1166, Chandni Chowk, Delhi 6. Branches: Kanpur, Amritsar, Jaipur.
 Bhagwant Singh & Co.—Ajmal Khan Road, Karol Bagh, Delhi.
 Phone: 44927.

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British Medical Hall.—103, Baird Road, New Delhi.
 Calcutta Pharmacy.—Pahargunj, Main Bazar, Delhi.
 Castophene Mfg. Co.—Clock Tower, Chandni Chowk, Delhi.
 Central Medicine Store.—Pahari Dhiraj, Bara Hindu Rao, Delhi.
 Chatter Bhuji & Bros.—Chandni Chowk, Delhi.
 Chemleo.—Opp. Minerva Hotel, Connaught Circus, New Delhi.
 Chhaju Ram & Sons.—Connaught Place, New Delhi.
 Christie & Co., Ltd.—Chandni Chowk, Delhi.
 Chopra Medical Hall.—Pahargunj, Main Bazar, Delhi.
 Chowdhary Bros.—Bhagirath Palace, Chandni Chowk, Delhi.
 Chuni Lal & Sons.—118, Baird Road, New Delhi.
 Cosmetic Stores Ltd.—62, Queensway, New Delhi.
 Damodarsingh & Co.—Behind State Bank, Chandni Chowk, Delhi.
 Dayal Ayurvedic Chemical Works.—Fatehpur, Church Mansion Road, Chandni Chowk, Delhi.
 Dee Dee & Co.—Lal Kuan, Delhi.
 Delhi Medical Stores.—Chandni Chowk, Delhi.
 Delhi Medicine Syndicate Ltd.—Chandni Chowk, Delhi.
 Delhi Surgical Stores.—Chandni Chowk, Delhi.
 Digambara Chemical Works.—Jama Masjid Area, Delhi.
 Diwan Chand & Bros.—Chandni Chowk, Delhi.
 Dixit Bros.—Chandni Chowk, Delhi.
 Doctor Bell Ram & Sons.—Mahalakshmi Market, Chandni Chowk, Delhi 6.
 Ensa Trading Co.—Behind Bhagirath Palace, Chandni Chowk, Delhi.

E. Plomer & Co.—Kashmere Gate, Delhi.
 Edward Medical Hall.—Paharganj, Main Bazar, Delhi.
 Empire Stores.—Connaught Place, New Delhi.
 Frontier Medical Hall.—Paharganj, Main Bazar, Delhi.
 Gaiinda Mai Walayti Ram.—Connaught Place, New Delhi.
 Galen Medical Hall.—80/22, Connaught Circus, New Delhi.
 Ganson & Co.—Behind Imperial Bank, Chandni Chowk, Delhi.
 Geoffrey Manners & Co., Ltd.—Kashmere Gate, Delhi.
 Gopal Chemical Co.—Khari Baoli, Delhi.
 Harbans Singh & Sons.—Chandni Chowk, Delhi.
 Hari Bros.—Fais Bazar, Daryaganj, Delhi.
 Hazara Singh & Sons.—Connaught Place, New Delhi.
 Health & Co.—Chandni Chowk, Delhi.
 H. F. Chatterjee & Co.—Behind State Bank, Chandni Chowk, Delhi.
 India Chemical Co.—Khari Baoli, Delhi.
 India Drug House.—Bhagirath Palace, Chandni Chowk, Delhi.
 Indra Trade Agencies.—Connaught Circus, New Delhi.
 International Chemical Co.—Phatak Habash Khan, Delhi.
 The International Pharmacy.—Sabi Mandi, Delhi.
 Jamna Das & Co.—Chandni Chowk, Delhi.
 Kalsons.—Chandni Chowk, Delhi.
 Kanhaiyalal Ratanlal.—Inside Habash Khan Gate, Delhi.
 Kalyan Das & Company.—Behind State Bank of India, Chandni Chowk, Delhi.
 Kemp & Co., Ltd.—Connaught Place, New Delhi.
 Kidarnath Sita Ram.—Bhagirath Palace, Chandni Chowk, Delhi.
 Lal & Co.—Connaught Place, New Delhi.
 Modern Agencies.—Back of Moti Talkies, Chandni Chowk, Delhi.
 Modern Medical Store.—1670, Church Road, Kashmere Gate, Delhi.
 M. S. Lakshmi & Sons.—Chandni Chowk, Delhi.
 Narain Medical Stores.—Chandni Chowk, Delhi.
 Narang Medical Stores.—Chandni Chowk, Delhi.
 Neal & Co.—Kashmere Gate, Delhi.
 New India Chemical Co.—Dariba Kalan, Delhi.
 Prakash Bros.—Juma Masjid Area, Delhi.
 Prakash Medical Hall.—Subzi Mandi, Delhi.
 The Punjab Sind Medicine Co.—Esplanade Road, Delhi.
 Radhakishan Premchand.—Khari Baoli, Delhi.
 Radicura & Co.—Chandni Chowk, Delhi.
 Rama & Sons.—34-C, Connaught Circus, opp. Madras Hotel, New Delhi.
 R. N. Sharma Pharmacy.—Naya Bazar, Delhi.
 Royal Medical Hall.—Fountain Area, Chandni Chowk, Delhi.
 Sahib Singh & Sons.—16-F, Connaught Circus, New Delhi.
 Sawhney Brothers.—Esplanade Road, Delhi.
 Shame-ur-Arfeen & Co.—Fatehpuri, Delhi.
 Sohanlal & Sons.—Esplanade Road, Delhi.
 Sukh Dayal-Harnam Das.—Subzi Mandi (Tram Terminus), Delhi.
 Twin Brothers.—Bhagirath Palace, Chandni Chowk, Delhi.
 Wadhawan Brothers.—Back of Moti Talkies, Chandni Chowk, Delhi.
 Young Friend & Co.—Connaught Place, New Delhi.

CINEMAS AND THEATRES

Camp Cinema.—Delhi.
 Defence Services Cinema.—(C.S.D (1)), Delhi (antt).
 Excelator Cinema.—Delhi.
 Golcha Cinema.—Fais Bazar (Daryaganj), Delhi.
 Imperial Talkies.—Paharganj, Delhi.
 India Garrison Cinema.—Delhi Cantonment.
 Jagat Cinema.—Near Juma Masjid, Delhi.
 Jubilee Talkies.—Fountain, Delhi.
 Khana Talkies.—Paharganj, Delhi.
 Kumar Talkies.—Chandni Chowk, Delhi.
 Liberty.—Rohtak Road, New Delhi 6.
 Majestic Talkies.—Fountain, Chandni Chowk, Delhi.
 Minerva Talkies.—Kashmiri Gate, Delhi.
 Moti Talkies.—Chandni Chowk, Delhi.
 New Amar Talkies.—Delhi.
 Novelty Cinema.—Near Railway Station, Delhi.
 Odeon Cinema.—Connaught Circus, New Delhi.
 Palace Cinema.—Sabsimandi, Delhi.
 Palam Cinema.—New Delhi.
 Plaza Cinema.—Connaught Circus, New Delhi.
 Race Course Cinema.—New Delhi.
 Regal Cinema.—Connaught Circus, New Delhi.
 Ritz Cinema.—Delhi.
 Rivoli Cinema.—Connaught Circus, New Delhi.
 Robin Talkies.—Delhi.
 Shalimar Talkies.—Bhagal, New Delhi.
 Stadium Cinema.—New Delhi.
 Talkatora Palace.—New Delhi.
 West End Talkies.—Delhi.

CLOTH MERCHANTS (RETAILERS)

Ahuja Swadeshi Stores.—Chandni Chowk, near Tower, Delhi.
 Amin Chand Jiwan Ram.—Clock Tower, Amritsar and Chandni Chowk, Delhi.
 Banbasi Swadeshi Stores.—Near P.O., Karol Bagh, Delhi.
 Benares House.—Near Clock Tower, Chandni Chowk, Delhi.
 Bengal House.—Nai Sarak, Delhi.

Bharat Swadeshi Stores.—Nai Sarak, Delhi.
 Birbal Das Om Parkash.—Nai Sarak, Delhi.
 Nishen Singh & Co.—Chandni Chowk, Delhi.
 Bombay Silk Stores.—Chandni Chowk, Delhi.
 Cawapore Agency.—Nai Sarak, Delhi.
 Cheap Jaiyy.—Connaught Place, New Delhi.
 Chiranjil Lal Devi Daryal.—Nai Sarak, Delhi.
 Deougar Mal Lachhi Ram.—Nai Sarak, Delhi.
 Devichanda.—Connaught Place, New Delhi.
 Diwaan Singh Ram Singh.—Chandni Chowk, Delhi.
 Gandhi Ashram Khadi Bhandar.—Chandni Chowk, Delhi.
 Girwar Lal Baij Nath.—Chandni Chowk, Delhi.
 Guptajee.—Connaught Place, New Delhi.
 Hazari Lal Bashehar Nath.—Chandni Chowk, Delhi.
 Hazari Lal Ram Parkash.—Chandni Chowk, near Tower, Delhi.
 Hotu Ram Vas Dev.—Chandni Chowk, near Tower, Delhi.
 Indian Stores.—Opp. Central Bank, Chandni Chowk, Delhi.
 Jagat Narain Khanna.—Connaught Place, New Delhi.
 Jamna Das Khanna.—Chandni Chowk, Delhi.
 Jankidas & Co.—23/F, Connaught Place, New Delhi.
 Jauhari Mal Shiam Lal.—Nai Sarak, Delhi.
 Jhunnai Mal Daya Parkash.—Near Clock Tower, Chandni Chowk, Delhi.
 Kanahi Pershad Devi Pershad.—Nai Sarak, Delhi.
 Kanahi Ram Kesho Ram.—Chandni Chowk, Delhi.
 Karachi Cloth House.—Clock Tower, Chandni Chowk, Delhi.
 Kashmir House.—Chandni Chowk, Delhi.
 Kashmir Swadeshi Stores.—Chandni Chowk, Delhi.
 Khalsa General Stores.—Near Clock Tower, Chandni Chowk, Delhi.
 Khasana Mal Banwari Lal.—Chandni Chowk, Delhi.
 Kishan Chand Chella Ram (India) Ltd.—Chandni Chowk Tower, Delhi.
 Kishori Lal & Sons.—Nai Sarak, Delhi.
 Krishna Brothers.—Nai Sarak, Delhi.
 Lachhman Das Jain & Co.—Nai Sarak, Delhi.
 Lahore Silk Store.—Near Clock Tower, Chandni Chowk, Delhi.
 Lairo Brothers.—Chandni Chowk, near Hazar Ballimaran, Delhi.
 Lakshmi Chand Om Parkash.—Near Clock Tower, Chandni Chowk, Delhi.
 Madho Ram & Sons.—Connaught Place, New Delhi.
 Miri Mal Darbari Mal Jain.—Nai Sarak, Delhi.
 Mohan Bros. Ltd.—Connaught Place, New Delhi.
 Murshidabad Sarees Stores.—Chandni Chowk, Delhi.
 Nagin Chand Stores.—Chandni Chowk, Delhi.
 Novox.—12-U, Connaught Place, New Delhi.
 Oriental Cutpieces Stores Ltd.—Chandni Chowk, behind Kumar Talkies, Delhi.
 Pandit Bhow.—Chandni Chowk, Delhi 6.
 Fearay Lal Haldev Pershad.—Nai Sarak, Delhi.
 Radhey Lal Kanhya Lal.—Chandni Chowk, Delhi.
 Raja Bros.—Connaught Place, New Delhi.
 Ram Narain Tirlok Chand.—Near Tower, Chandni Chowk, Delhi.
 Ram Nath.—Nai Sarak, Delhi.
 Ram Sarup Sham Sunder.—Nai Sarak, Delhi.
 Rama Bros.—Chandni Chowk, Delhi.
 Roy Brothers (Cheapjohn) Ltd.—Drapers & Tailors, Queenway, New Delhi.
 Satya Dev Sudershan Lal.—Near Clock Tower, Chandni Chowk, Delhi.
 Shibban Lal Harnam Das.—Nai Sarak, Delhi.
 Shri Jawahar Shud Khadi Bhandar.—Nai Sarak, Delhi.
 Shyam Lal Sunder Lal.—Nai Sarak, Delhi.
 Sita Ram & Sons.—Nai Sarak, Delhi.
 Sobh Raj Silk Store.—Near Clock Tower, Chandni Chowk, Delhi.
 Sohanlal Prem Narain Jain.—V/57, Chandni Chowk, opp. Central Bank, Delhi.
 Tulsi Das Ganga Ram.—Kashmere Gate, Delhi.

CLOTH MERCHANTS (WHOLESALE)

Baij Nath Bala Pershad.—Jagiwara, Nai Sarak, Delhi.
 Baij Nath Tirlok Chand.—Katra Hira Lal, Delhi.
 Balwant Singh Harbans Singh.—Chandni Chowk, near Tower, Delhi.
 Bansidhar Prem Narain Jain.—Nayakatra, Chandni Chowk, Delhi.
 Bansil Lal & Sons Ltd.—'N' Block, Piccadilly Buildings, Connaught Place, New Delhi.
 Behari Lal Beni Pershad.—Maha Laxmi Market, Chandni Chowk, Delhi.
 Behari Lal Lakha Mal.—Laxmi Bazar, New Cloth Market, Delhi.
 Behari Lal Madan Lal.—Maha Laxmi Market, Chandni Chowk, Delhi.
 B. Lilaram & Sons (Delhi)—14-15-F, Connaught Place, New Delhi.
 Charan Singh Bindra.—Katra Lewa, Chandni Chowk, Delhi.
 Delhi Cloth and General Mills Co., Ltd.—Delhi Khabanganj, Delhi.
 Deougar Mal Lachhi Ram.—Nai Sarak, Delhi.
 Dwarka Das Murlil Dhar.—Cloth Market, Queen's Road, Delhi.
 Ghan Singh & Co.—Laxmi Bazar, Cloth Market, Delhi.
 Glamour.—20F, Connaught Place, New Delhi.
 Harikay Nath Bhargava & Co.—Cloth Market, Delhi.
 Harnath Omkar Nath.—Ganesh Bazar, Cloth Market, Delhi.
 Johri Mal Ghan Chand Jain.—Cloth Market, Delhi.
 Jugal Kishore Murlil Dhar.—Cloth Market, Delhi.
 Kallash Co.—Laxmi Bazar, New Cloth Market, Delhi.
 K. Hassaram & Co.—Chandni Chowk (near Fountain), Delhi.

Kedar Nath Dwarka Das.—Laxmi Bazar, New Cloth Market, Delhi.
Kela Chand Dev Chand & Co., Ltd.—Laxmi Bazar, New Cloth Market, Delhi.

Loke Nath Ram Saran Das.—Cloth Market, Delhi.

Mahabir & Girish.—Mahabir Bazar, Cloth Market, Delhi.

Malik Gobind Ram Rajinder Kumar.—Mahabir Bazar, Cloth Market, Delhi.

Mohan Brothers Ltd.—Clock Tower, Chandni Chowk, Delhi.

Morarka & Co., Ltd.—Laxmi Bazar, Cloth Market, Delhi.

Pratap Mills Co., Ltd.—Mahabir Bazar, Cloth Market, Delhi.

Raj Kumar Chander Kumar.—Laxmi Bazar, Cloth Market, Delhi.

Raj Narain Anant Ram.—Laxmi Bazar, Cloth Market, Delhi.

Rameshwar Das Dwarka Das.—Laxmi Bazar, Cloth Market, Delhi.

Rameshwar Das Potodiya.—Cloth Market, Delhi.

Roy Brothers (Cheap John) Ltd.—Drapers & Tailors, Queensway, New Delhi.

Sagar Mal Jagdish Perhad.—Laxmi Bazar, Cloth Market, Delhi.

Sara Bhai Murari Lal.—Mahabir Bazar, Cloth Market, Delhi.

Shiv Lal Atma Ram.—Katra Nawab, Chandni Chowk, Delhi.

Shub Karan Das Chiranji Lal.—Kucha Natwan, Chandni Chowk, Delhi.

Sohanlal Prem Narain Jain.—V/57, Chandni Chowk, opp. Central Bank, Delhi.

Style.—13/E, Connaught Place, New Delhi.

Surat Ram Atma Ram.—Laxmi Bazar, Cloth Market, Delhi.

COAL

Amir Chand & Sons.—Western Extension Area, Karol Bagh, Delhi.

Andrew Yule & Co. Ltd.—12, Pusa Road, New Delhi.

Arjan Dass Gupta & Bros.—25, Fatehpur, Delhi.

Baluja Coal Co.—Marina Camp, New Delhi.

Bhapat Ram & Co.—Chandrawal Road, Subzi Mandi, Delhi.

Bharat Coal Co.—Ajmeri Gate, Delhi.

Chamanlal & Brothers Ltd.—Haradani Queens Road, Delhi.

Chandan Mal Inder Kumar.—Chandni Chowk, Delhi.

Chander Bhan Anand Parkash.—Chawri Bazar, Delhi.

Coal Agents Ltd.—Behind Kumar Talkies, Chandni Chowk, Delhi.

Coal Marketing Co. of India Ltd.—Chandni Chowk, Delhi.

Coal Suppliers Ltd.—16, Asaf Ali Road, New Delhi.

Empire Coal Co.—8, S. Park, New Delhi.

Hindustan Coal Co.—69-H, Connaught Circus, New Delhi.

Karam Chand Thapar & Bros. (Coal Sales) Ltd.—Naya Bazar, Delhi.

Mahabir Coal Co.—49, Bengali Market, New Delhi.

New Bharat Charcoal Co.—Chawri Bazar, Delhi.

New Delhi Coal Co.—Block 205, Bahar Road, New Delhi.

Nilkanth Industries, Ltd.—4, Daryaganj, Delhi.

Oriental Coal Corporation.—6/5, W.E.A., Karol Bagh, New Delhi.

Ram Narain Satya Pal.—Jawala Bank Building, Chandni Chowk, Delhi.

Sikri Bros.—Connaught Circus, New Delhi.

S. N. Sunderson & Co. (Office).—Original Road, Paharganj, Delhi.

Sunder Lal Jain.—Lahori Gate, Delhi 6.

Sunderson, S. N. & Co.—Original Road, New Delhi.

COLOURS

Asian Chemical Works.—Queen's Road, Nahar Sadat Khan, Delhi.

Blakadas Ramchander.—Khari Baoli, Katra Tambaco, Delhi.

Calcutta Art Press.—Katra Buriyan, Fatehpur, Chandni Chowk, Delhi.

Chunnilal Kanhyal.—Khari Baoli, Delhi.

Dadajee Dhackjee & Co.—Khari Baoli, Katra Tambaco, Delhi.

General Paint and Colour Mart.—Sitaram Bazar, Delhi.

Harbhagwan Rangwala.—Khari Baoli, Katra Tambaco, Delhi.

Kaloo Mall Prithvi Raj.—Khari Baoli, Delhi.

Khatan Valabhdas & Co.—Khari Baoli, Katra Tambaco, Delhi.

Kohinoor Paint, Colours and Varnishes.—Katra Buriyan, Fatehpur, Chandni Chowk, Delhi.

Kokamal & Sons.—Khari Baoli, Katra Tambaco, Delhi.

Narayandas Jagtwan & Co.—Khari Baoli, Katra Tambaco, Delhi.

National Colour Company.—Khari Baoli, Delhi.

Ram Lubhaya Balgnath.—Khari Baoli, Katra Tambaco, Delhi.

CONFECTIONERY MFRS. & DEALERS

Ahuja Brothers.—Gandhi Wall Gate, Fatehpuri Masjid, Delhi.

Amrit Confectionary Works.—Rajendra Market, Delhi.

Ashoka Confectionary Works.—Rehgerpura, Delhi.

B. R. Prakash Confectionary Works.—Katra Fariyan, Delhi.

Calcutta Confectionary Works.—Mohalla Dhotran, Farash Khana, Delhi.

Cheap Biscuit Manufacturing Co.—Lajrat Rai Market, Delhi.

Delhi Biscuit Co., Ltd.—Ram Bagh Road, Delhi.

Fancy Biscuit Co.—Subzi Mandi, Delhi.

Gupta Biscuit Factory.—Kingsway Camp, Delhi.

Hindustan Confectionery Works.—Lal Kuan, Delhi.

Lahore Confectionary Works.—Farash Khana, Delhi.

National Peppermint Products.—Original Road, Palarganj, New Delhi.

Punjab Biscuit Factory.—Bahadurgarh Road, Delhi.

Punjab Confectionary Works.—Motia Khan, Delhi.

Reliance Confectionary Works.—Bazar Churiwalan, Delhi.

Shakti Confectionary Works.—Phatak Habash Khan, Delhi.

Sunlight Confectionary Works.—Roshana's Road, Delhi.

CYCLES & CYCLE ACCESSORIES

Atlas Cycle Industries Ltd.—Connaught Circus, New Delhi.

Bombay & Calcutta Cycle Co.—278, Esplanade Road, Delhi.

Hind Cycles Ltd.—Connaught Circus, New Delhi.

Hitkari Brothers (of Delhi).—9, Faiz Bazar, Delhi 7.

Malhotra & Co.—2/1668, Behind State Bank, Chandni Chowk, Delhi 6.

Orient Industrial Corporation.—XV-10/59, Original Road, Motia Khan, Delhi.

Pearl Cycle Industries.—Peary Lal Mansions, Kashmere Gate, Delhi.

Reliance Cycle Works.—10/89-A, Motia Khan, Delhi.

Republie Cycle Industries.—31, Na'afgarh Road, Delhi.

Wearwill Cycle Co. (India) Ltd.—46-M, Connaught Circus, New Delhi.

CYCLE MFRS. DEALERS AND IMPORTERS

Ahuja Cycle Mart.—Esplanade Road, Delhi.

Amarsing Peareial.—Esplanade Road, Delhi.

Appal & Co.—Lady Hardinge Road, New Delhi.

Bestways & Co.—Outside Moti Cinema, Chandni Chowk, Delhi.

B. Dass & Co.—Fountain area, Chandni Chowk, Delhi.

Bansilal & Co.—Esplanade Road, Delhi.

Bombay & Calcutta Cycle Co.—278, Esplanade Road, Delhi.

C. L. Sachdev & Co.—Esplanade Road, Delhi.

Continental Cycle Importing Co.—Esplanade Road, Delhi.

Cycle & Gramophone Stores.—47, Esplanade Road, Delhi 6.

Ennaths Cycle Shop.—D-3, Connaught Place, New Delhi.

Ganesh Cycle Store.—Fountain Area, Chandni Chowk, Delhi.

Gupta Motor Cycle Works.—Hamilton Road, Delhi.

Hemchand & Sons.—Jama Masjid Area, Delhi.

Hitkari Brothers (of Delhi).—9, Faiz Bazar, Delhi 7.

Imperial Cycle Mart.—Esplanade Road, Delhi.

Imperial Cycle & Motor Co.—Fountain Area, Chandni Chowk, Delhi.

Indo Commercial Corporation.—Esplanade Road, Delhi.

Jitendra Auto Engineers.—Faiz Bazar, Daryaganj, Delhi.

Jiwani & Co.—Dariba Kurd, Chandni Chowk, Phartawali Gali, Delhi.

Kallash Stores.—Punchquin Road, Bhagirath Malls Building, New Delhi.

Kanshal Cycle Trading Co.—Esplanade Road, Delhi.

Kapur Brothers.—Back of Moti Talkies, Chandni Chowk, Delhi.

Khanna Cycle Co.—Multan Dhandas, Paharganj, New Delhi.

Khol Brothers.—Esplanade Road, Delhi.

Khyber Cycle Mart.—Esplanade Road, Delhi.

Kumar Brothers & Co.—Esplanade Road, Delhi.

Mehta Cycle and Motor Works.—Esplanade Road, Delhi.

M. R. Malhotra & Co. of Jhelum.—Fountain Area, Chandni Chowk, Delhi.

Munjal Brothers.—Esplanade Road, Delhi.

Narayan Behari & Co.—696, Naughara, Kinari Bazar, Delhi 6.

National Cycle Co.—Subzi Mandi, Delhi.

National Cycle Mart.—Esplanade Road, Delhi.

National Cycle Works.—Esplanade Road, Delhi.

New Delhi Cycle Mart.—Connaught Place, New Delhi.

N. Kishore & Co.—Esplanade Road, Delhi 6.

Pindi Cycle Agency.—Esplanade Road, Delhi.

Rama Cycle Stores.—Ram Dwarra Road, Paharganj, New Delhi.

Sat Brothers.—Lady Hardinge Road, New Delhi.

Sethi & Co.—Queen's Road, Nahar Sadat Khan, Delhi.

Sharma Motor Cycle Co.—Hamilton Road, Delhi.

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The Krishna Cycle House.—Esplanade Road, Delhi.

The Punjab Cycle Parts Co.—Esplanade Road, Delhi.

The Royal Cycle Co.—Esplanade Road, Delhi.

Veer Cycle Co.—Esplanade Road, Delhi.

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 Delhi Motor & Cycle Co.—48, Queensway, New Delhi.
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 Indo Commercial Corporation.—211, Esplanade Road, Delhi.
 Ram Kashwar & Co.—11, Esplanade Road, Delhi.

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 Cow-field Dairy.—648, G. B. Road, Delhi.
 Dairy Farm Pinjrapol.—Delhi Kishanganj, Delhi.
 Dayal Bagh Dairy Ltd.—Connaught Circus, opp. Scindia House, New Delhi.
 Excelsior Dairy Co.—Old Gurgaon Road, Delhi.
 Health Dairy.—"B" Block, Connaught Place, New Delhi.
 New Royal Dairy.—68, Daryaganj, Delhi.
 Raj Dairy.—Nai Basti, inside Phatak Habash Khan, Delhi.
 Simla Dairy Ltd.—"B" Block, Connaught Place, New Delhi.
 United Dairies Ltd.—Connaught Circus, New Delhi.

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 Burn & Co.—Subzi Mandi, Delhi.
 Dherao Ram & Brothers.—Panchquin Road, Regal Building, New Delhi.
 Glamour.—20-F, Connaught Place, New Delhi.
 H. S. Bhagat.—Panchquin Road, Regal Building, New Delhi.
 Roy Brothers (Cheapjohn) Ltd.—Drapers & Tailors, Queensway, New Delhi.

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 Jal Hind Dye Cutting Works.—Maliwara, Back of Moti Bazar, Chandni Chowk Area, Delhi.
 Kaloomal Shorimal Sachdev.—Khari Baoli, Katra Tambaco, Delhi.

DYEING, PRINTING AND BLEACHING

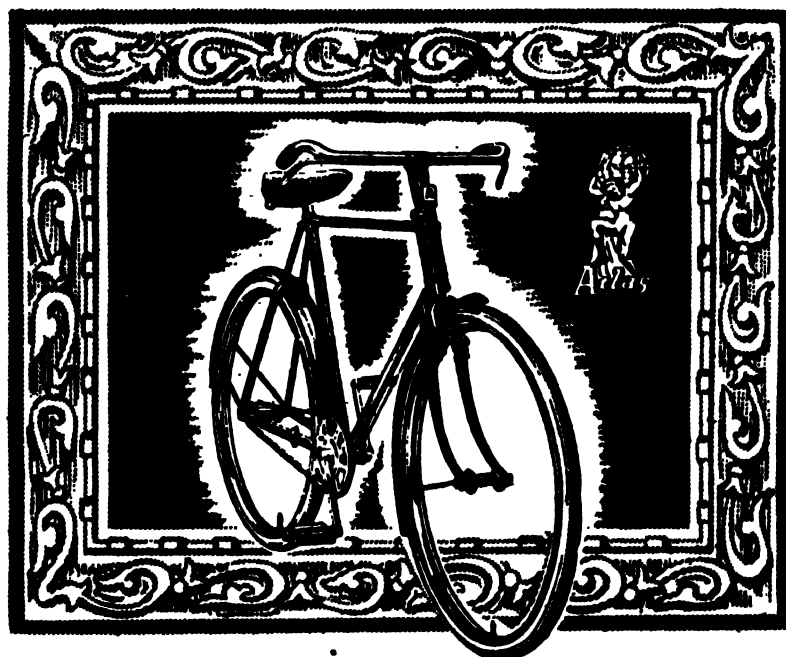
Motiram Sarendar Kumar.—Bhangli Katra, Chandni Chowk, Delhi.
 The New Calico Dyers & Cleaners.—Bhagirath Palace, Chandni Chowk, Delhi.

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 Bhatta Electric Co.—Paharganj, New Delhi.
 Brady, W. H. & Co., Ltd.—Indra Palace, Connaught Circus, New Delhi.
 British Insulated Callender's Cables Ltd.—Connaught Circus, New Delhi.
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 Central India Electric Works.—Jawalwar Natar, Delhi 6.
 Chicago Telephone & Radio Co. Ltd.—Janpath, New Delhi.
 Common Electric Co.—Bhagirath Palace, Delhi.
 Commercial Electric Works.—Chandni Chowk, Delhi.
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 Joti Sarup Goela & Son.—15-L, Connaught Circus, New Delhi.
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 Banal Electric Stores.—Dariba Kalan Bazar, Delhi.
 B. Datta & Sons.—Paharganj, Delhi.
BHAGWAN SINGH & SONS.—20-C, Connaught Place, New Delhi.
 Bhatta Electric Co.—Paharganj, Delhi.
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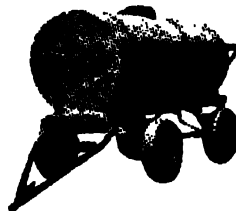
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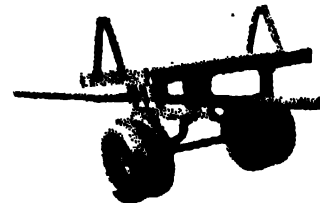
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 Khanna & Co.—Kashmere Gate, Delhi.
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 Vijay Furniture Mart.—Karolbagh, New Delhi.

GENERAL MERCHANTS AND COMMISSION AGENTS

A. D. M. Stores.—Katra Raji, G. B. Road, Delhi.
 Ahuja Bros.—Pahargunj, Main Bazar, New Delhi.
 Arjandas Gupta & Bros.—25, Fatehpur, Delhi.
 Asiatic International Traders.—Original Road, New Delhi.
 Associated Textile Engineers.—Chawri Bazar, Delhi. Phone: 23291.
 Atmaram Munjal & Sons.—Naya Bazar, Delhi.
 Baldevahal Rambhagat.—Naya Bazar, G. B. Road, Delhi.
 Banarsidas & Co.—Naya Bazar, Delhi.
 Bansidar Madan Lal.—Naya Bazar, G. B. Road, Delhi.
 Barasailal & Bros.—Khari Baoli, Delhi.
 Basant Store.—Baird Road, New Delhi.
 Basi Bros.—Pahargunj, Main Bazar, New Delhi.
 B. D. Brothers.—Pahargunj, Main Bazar, New Delhi.
 Bhagat Kaluram Manoharil.—Fatehpur, Chandni Chowk, Delhi.
 Bhagwandas Harkishandas.—Kinari Bazar, Delhi.
 Bhagwandas & Sons.—Naya Bazar, Delhi.
 Bharat General Store.—Main Bazar, Pahargunj, New Delhi.
BHOLA RAM RANGULAL JAIN.—(Also Props.: General Trade Agency), Sadar Bazar, Delhi 6.
 Bholi Ram Bikhbar Dass Jain.—Sadar Bazar, Delhi 6.
 Birbaladas Jagdishperahad.—Chandni Chowk, Delhi.
 Bombay House.—Chandni Chowk, Delhi.
 Bujamal Kundanmal.—Naya Bazar, G. B. Road, Delhi.
 Chandulal Surajmal.—Naya Bazar, G. B. Road, Delhi.
 Chhaganlal Shyam Sunder.—Mallwara, back of Moti Bazar, Chandni Chowk Area, Delhi.
 Devi Store.—Lady Hardinge Road, New Delhi.
 Desraj Bhagwandas.—opp. Chartered Bank, Chandni Chowk, Delhi.
 Das Singh Shivdev Singh.—Naya Bazar, G. B. Road, Delhi.
 Devdiyal Brijlal.—Naya Bazar, Delhi.
 Ellison, R. K. O.—Connaught Place, New Delhi.
 Empire Stores.—Connaught Place, New Delhi.
 Fashion Centre.—Chandni Chowk, Delhi.
 Frontier General Stores.—Multani Dhandia, Pahargunj, New Delhi.
 Ganeshlal Bhagwandas.—Naya Bazar, Delhi.
 Gianchand Dinanath Gujranwala.—Naya Bazar, G. B. Road, Delhi.
 Goyal Bros.—Regal Building, Punchquin Road, New Delhi.
 G. B. Rajpal & Sons.—Chandni Chowk, Delhi.
 Harbanslal Kanhayal.—Ballimaran, Chandni Chowk, Delhi.
 Indian Traders Ltd.—Lahori Gate, G. B. Road, Delhi.
 Indo Commercial Corp.—Jama Masjid Area, Delhi.
 Jagjit Bros.—Pahargunj, Main Bazar, New Delhi.
 Jankidas & Co.—23/F, Connaught Place, New Delhi.
 Kadar General Stores.—Pahargunj, Main Bazar, New Delhi.
 Kailash Stores.—Pahargunj, Main Bazar, New Delhi.
 Kanyalal Shamlal.—Naya Bazar, Delhi.
 Kapila Brothers.—Naya Bazar, Delhi.
 Kapurchand & Brothers.—5805, Sadar Bazar, Delhi.
 Kashiram Keshoram Mehta.—Nagpuri Katara, Delhi.
 Kedarnath Babulal Khemka.—Bhangi Katra, Chandni Chowk, Delhi.
 Kesrichand Mohanlal.—Naya Bazar, Delhi.
 K. Murari & Co.—Jogdhian Colony, Delhi.
 K. S. Lakhonir Singh & Co.—Chandni Chowk, Delhi.
 Kunjal Kundanlal Jain.—Naya Bazar, G. B. Road, Delhi.
 Lakhmal Ramnath.—Naya Bazar, G. B. Road, Delhi.
 Lotlram Makhani Lal.—Naya Bazar, Delhi.
 Ludharam Kishandas Atmaram Varma.—Katra Subhash, Chandni Chowk, Delhi.
 Madras Stores.—Baird Road, New Delhi.
 Malik Kalaram Boshanlal.—Naya Bazar, Delhi.
 M. R. Stores.—Connaught Place, New Delhi.
MILWA RAM LAKHMICHAND.—Sadar Bazar, Delhi. Ho-
 siery, Umbrellas, Trunks, Canvas shoes and general Mer-
 chants and Direct Importers.
 Monglal Bhooramal.—Naya Bazar, G. B. Road, Delhi.
 Nayyar & Co.—16, Faiz Bazar, Daryaganj, Delhi.
 New Fancy Stores.—Connaught Place, New Delhi.
 New General Stores.—4-G, Connaught Circus, New Delhi.
 Paliram Nanikchand.—771, Chandni Chowk, Delhi.
 Pioneer Stores.—Connaught Place, New Delhi.
 Prabhudayal Lachminarain.—Naya Bazar, G. B. Road, Delhi.
 Premsukhdas Narsinghdas.—Chandni Chowk, Delhi.
 Punjab Business & Supply Co., Ltd.—Naya Bazar, Delhi.
 Radha Fancy Stores.—Near Moti Bazar, Chandni Chowk, Delhi.
 Radhey Shyam Ram Gopal.—Mallwara, back of Moti Bazar, Chandni Chowk Area, Delhi.
 Ram Dallamal Dwarkadas.—Nagpuri Katara, Delhi.
 Rama Fancy Store.—Pahargunj, Main Bazar, New Delhi.
 Rama Stores.—Regal Building, Punchquin Road, New Delhi.
 Ramgopal Bhagwandas.—Naya Bazar, G. B. Road, Delhi.
 Ramgopal Santal.—Naya Bazar, G. B. Road, Delhi.
 Ramjamat Jhandulal.—Lahori Gate, G. B. Road, Delhi.
 Ratnial & Co.—Naya Bazar, G. B. Road, Delhi.

R. S. Bholaram & Sons, Ltd.—Mori Gate, Delhi.
Sadiram Balmukand.—Naya Bazar, G. B. Road, Delhi.
Sain Stationery Mart.—Jama Masjid Area, Delhi.
Santlal Kanhyalal.—Naya Bazar, G. B. Road, Delhi.
Santokh Singh & Sons.—Katra Subhash, Chandni Chowk, Delhi.
Sardaram Hariram.—Naya Bazar, G. B. Road, Delhi.
Saviri Store.—Malwara, Back of Moti Bazar, Chandni Chowk Area, Delhi.
Sethi Stores.—Chandni Chowk, Delhi.
Sewaram Brij Gopal (Multani).—Naya Bazar, Delhi.
Shadiram Chanderbhan.—Naya Bazar, G. B. Road, Delhi.
Shambhunath Naraindas.—Kinari Bazar, Delhi.
Shantilal Kashmerilal.—Naya Bazar, Delhi.
Shiblal Prabhu Dayal.—Naya Bazar, G. B. Road, Delhi.
Shiv Narain Brij Mohan.—Chandni Chowk, Delhi.
Shri Kishindas Devnandan.—Lahori Gate, G. B. Road, Delhi.
Shri Krishna & Co.—Ajji Building, Choonsa Mandi, Pahargunj, New Delhi.
S. K. Diwan & Co.—214, Irwin Road, P.B. No. 233, New Delhi 1.
Sohanlal Banaridas.—Naya Bazar, Delhi.
Standard Stores.—Fatehpur, Chandni Chowk, Delhi.
Tarachand & Sons, L.—Naya Bazar, G. B. Road, Delhi.
Teja Singh & Sons, S.—Naya Bazar, G. B. Road, Delhi.
The Art Museum.—1726 Burn Bastion Road, Delhi 6.
Tiagi Brothers.—Chandni Chowk, Delhi.
Tilak Chand Rajendra Kumar Jain.—5108, Sadar Bazar, Delhi 6.
Umarao Singh Bishan Sarup.—Behind Imperial Bank, Bissumal Colony, Chandni Chowk, Delhi.
Variety Stores.—Lady Hardinge Road, New Delhi.

GLASS

Baluja Glass Co.—Fatehpur, Chandni Chowk, Delhi.
Bawa Glass Co.—Fatehpur, Chandni Chowk, Delhi.
Belgium Glass House.—Fatehpur, Chandni Chowk, Delhi.
Bhalla Sales Corporation.—40, M. Block, Connaught Circus, New Delhi.
Bharat Glass Co.—Sardar Bazar, Delhi 6.
Bharat Glass Factory.—Shakur Basti, Delhi.
Delhi Glass House.—Chandni Chowk, Delhi.
Duggal & Co.—Fatehpur, Delhi 6.
Himalaya Trading Co.—Fatehpur, Chandni Chowk, Delhi.
Hindustan Glass Agency.—Qutab Road, Delhi 6.
Imperial Glass Co.—Fatehpur, Chandni Chowk, Delhi.

GLYCERINE

Godrej. Godrej Soaps Private Ltd.—168, Chandni Chowk, Delhi.
Hindustan Lever Ltd.—D.A.G. Extension, New Delhi.
Imperial Chemical Industries (India) Private Ltd.—Malhotra Eidge, Janpath, New Delhi.
Tata Oil Mills Co., Ltd.—D.A.G. Extension, New Delhi.

GRAIN MERCHANTS

Amin Chand Dwarka Dass.—Lahori Gate, G. B. Road, Delhi.
Baldevahal Rambhagat.—Naya Bazar, G. B. Road, Delhi.
Bansidar Madanlal.—Naya Bazar, G. B. Road, Delhi.
Banwarilal Radhe Mohna.—Naya Bazar, Delhi.
Bhart Singh Jai Chand.—Naya Bazar, Delhi.
Bujanmal Kundanmal.—Naya Bazar, G. B. Road, Delhi.
Chunilal Mangeram.—Naya Bazar, G. B. Road, Delhi.
Fatechand Brij Mohanlal.—Naya Bazar, Delhi.
Gianchand Gordhandas.—Naya Bazar, Delhi.
Hardev Sahai Munilal.—Naya Bazar, G. B. Road, Delhi.
Kalicharan Ramchandar.—Naya Bazar, Delhi.
Kunjilal Kundanlal Jain.—Naya Bazar, G. B. Road, Delhi.
L. Lalchand Mohandas.—Naya Bazar, Delhi.
Mamraj Chunilal.—Naya Bazar, Delhi.
Mongalal Bhoomal.—Naya Bazar, G. B. Road, Delhi.
Parbhudaya Lalchminarain.—Naya Bazar, G. B. Road, Delhi.
Ramgopal Bhagwandas.—Naya Bazar, G. B. Road, Delhi.
Ramjatalmal Jhandulal.—Lahori Gate, G. B. Road, Delhi.
Ratanlal & Co.—Naya Bazar, G. B. Road, Delhi.
Ratanlal Jai Bhagwan.—Naya Bazar, Delhi.
Rukmanand Jai Chandlal.—Naya Bazar, Delhi.
Sadiram Balmukand.—Naya Bazar, G. B. Road, Delhi.
Santlal Kanhyalal.—Naya Bazar, G. B. Road, Delhi.
Sardaram Hariram.—Naya Bazar, G. B. Road, Delhi.
Shadiram Chanderbhan.—Naya Bazar, G. B. Road, Delhi.
Shiblal Prabhu Dayal.—Naya Bazar, G. B. Road, Delhi.
Sundoomal Ram Swarup.—Naya Bazar, Delhi.
Udmichand Jagannath.—Naya Bazar, Delhi.
Ugarsen Ramnarain.—Naya Bazar, G. B. Road, Delhi.

GRAMOPHONE DEALERS

Bakshi Gramophone Co.—Fountain Area, Chandni Chowk, Delhi.
Calcutta Gramophone Agency.—1423, Chandni Chowk, Delhi 6.
Cycle & Gramophone Stores (Estd. 1933)—47, Esplanade Road, Delhi 6.
Delhi Gramophone Co.—Chandni Chowk, Delhi.
Gramophone Co. Ltd.—1, Maharaja Lal Lane, Civil Lines, Delhi 8.
Imperial Gramophone Dealers.—Chandni Chowk, Delhi.
K. R. Charan & Co.—Chandni Chowk, Delhi.
Maharaja Lal & Sons.—Chandni Chowk, Delhi 6.
Parkash Music House.—Fountain Area, Chandni Chowk, Delhi.

HANDICRAFTS EMPORIUMS

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HARDWARE MERCHANTS AND IRONMONGERS

Arjan Dass Gupta & Bros.—25, Fatehpur, Delhi.
Associated Textile Engineers.—Chawri P. a. ar, Delhi.
Badami Bagh Agency.—Naya Bazar, Delhi.
Batto & Nandwani.—M. J. Building, Chandni Chowk, Delhi.
Bhanamal Gulzarimal, Ltd.—Chawri Bazar, Delhi. Phone: 26432.
 Grams: "BHANAMAL".
Bharat Machine Tools & Hardware Co.—Naya Bazar, Delhi.

Tel.: 26734

Grams: "MACHINERY"

(Estd. 1901)

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Shaftings, Pulleys, Iron Tools, Asbestos, Packing
Materials & Jointing Sheets, Crucibles, Pipes &
Measuring Instruments, Etc., Etc., Etc.

Branch: 37, Bibijan Street, Barbhaj Mohalla,
Bombay 3.

Devindra & Co.—Katra Raji, G. B. Road, Delhi.
Dherumal Kapur & Sons.—Lahori Gate, G. B. Road, Delhi.

Phone: 29671.

Grams: "IRONDEAL."

FAKIR CHAND MOHANLAL

Chawri Bazar, Delhi 6.

Importers, Iron & Hardware Merchants, Government Regd.
Dealers for Weights & Measures.

General Engineering Co.—Katra Raji, G. B. Road, Delhi
Guran Das & Co.—Lahori Gate, G. B. Road, Delhi.
Hasuramall Kundan Lal.—Lahori Gate, G. B. Road, Delhi.
Jagannath & Co.—Naya Bazar, G. B. Road, Delhi.
Jai Hind Machinery Store.—Naya Bazar, Delhi.
Jay Dee Brothers.—Lahori Gate, G. B. Road, Delhi.
Jhalani Brothers.—Gall Lohi Wall, Chawri Bazar, Delhi.
Krishna Water Supply Co.—Lahori Gate, G. B. Road, Delhi.
Lachmandass Ramchand.—Chawri Bazar, Delhi.
Mahabir Pershad & Sons.—Chawri Bazar, Delhi 6.

Phone : 26634

Grams : "ALTOOLS"

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Importers & Stockists :—Beltings, V-Belts, Shaftings, Engineering & Precision Tools, Steel Files, Hoses, Bolts, Nuts, Pipes & Fittings etc. Authorised Stockist & Dealers for Asbestos Goods of Asbestos Magnesia and Friction materials ; Dunlop beltings and Hoses, Trolley Wheels, V-Belts ; Tata SL Pipes, "Grindwell" Products.

Offices : 626, Reid Road, Ahmedabad ; Sarabhai & Co., Chawri Bazar, Delhi.

Mills Store Co.—Naya Bazar, Delhi.
Nanda & Sons, S. D.—Lahori Gate, G. B. Road, Delhi.
Punjab Steel Works.—Naya Bazar, G. B. Road, Delhi.
Ramsingh Kundanlal.—5666, Gandhi Market, Sadar Bazar, Delhi 6.
Raunaq & Co.—Lahori Gate, G. B. Road, Delhi.
Seth & Co., A. N.—Katra Raji, G. B. Road, Delhi.
United Steel Industries.—Naya Bazar, G. B. Road, Delhi.
Uttamchand Bansilal.—Katra Raji, G. B. Road, Delhi.

HOSIERY MERCHANTS

Aggarwal Hosiery Mills.—Khaajur Road, Karol Bagh, Delhi.
Bharat Agencies.—Sadar Bazar, Delhi.
Bharat Hosiery Works.—Kutab Road, Delhi.
Bharat Trading Co.—Sadar Bazar, Delhi.
Bhola Ram Bikhhab Das Jain.—Sadar Bazar, Delhi.
Chunilal Bhatia & Co.—Sadar Bazar, Delhi. Phone : 23493.
Din Bhandhu Hosiery Mills Ltd.—Khaajur Road, Karol Bagh, Delhi.
Frontier Hosiery Stores.—5742-43, Gandhi Market, Sadar Bazar, Delhi 6.
Govind Ram Shri Kant.—Sadar Bazar, Delhi.
Haryana Hosiery.—Model Basti, Bara Hindu Road, Delhi.
Hindustan Hosiery & General Mills.—Mamman Jamadar Street, Pahari Dhira, New Delhi.
Jado Rai Madho Rai.—Chandni Chowk, Delhi.
Jankidas & Co.—23/F, Connaught Place, New Delhi.

Kapurchand & Brothers.—5805, Sadar Bazar, Delhi.
Kishori Lal Kesho Ram.—Sadar Bazar, Delhi.
Krishna Traders.—Seral Allawati, Sadar Bazar, Delhi.
Lakshmi Knitting Co.—Original Road (Karol Bagh), Delhi.
M. D. Bhageria.—Sadar Bazar, Delhi.
New Agency.—Pan Mandi, Sadar Bazar, Delhi 6.
Ram Hosiery.—Jawahar Nagar, Subsimandi, Delhi.
Ray Brothers (Cheapjohn) Ltd.—Queensway, New Delhi.
Style.—13/E, Connaught Place, New Delhi.
Suresh Hosiery Mills.—20, Daryaganj, Delhi 7.
Tilak Hosiery Store.—B-Block, Connaught Place, New Delhi.
Western Hosiery & General Mills Ltd.—142, Teliwara Road, Delhi.

HOSPITAL EQUIPMENTS AND SUPPLIES

Associated Electrical Industries (India) Private Ltd.—United India Life Bldg., Connaught Place, New Delhi.
Fourbhal (Private) Ltd.—14, Faiz Bazar (Daryaganj), Delhi 7.
Godrej, Godrej & Boyce Mfg. Co., Private Ltd.—20, Ajmeri Gate Extension, New Delhi.
Mittre Pharmacy.—Wholesale Chemists and Druggists, Ballimaran, Chandni Chowk, Delhi 6.

HOTELS

Agra Hotel.—16, Daryaganj, Delhi 7.
Apollo Hotel & Billiards.—Nicholson Road, Kashmir Gate, Delhi.
Associated Hotels of India Limited.—Simla : Cecil & Clarke's ; Delhi.
Cecil Hotel.—Ludlow Castle Road and Club Road, Delhi.
Coronation Hotel.—Fatehpuri, Delhi.
Crown Hotel.—Katra Baryan, Fatehpuri, Delhi.
Grand Hotel.—Underhill Road, opp. Exchange Store, Allpore Road, Delhi.
HOTEL CHITRA.—Katra Baryan, Fatehpuri, Delhi.
IMPERIAL HOTEL.—Church Mission Road, Fatehpuri, Delhi. Phone : 20594. (Prop. : New Standard Hotel, Karachi-wale.)
Lakshmi Hotel.—Chandni Chowk, Delhi.
Madras Boarding House.—Connaught Circus, New Delhi.
Maldens Hotel.—Allpore Road, Delhi.
MAHARAJA HOTEL.—Nahar Saadat Khan, Queen's Road, Delhi ; Boarding & Lodging House ; Estd. : 1911 ; Grams : "OLDEST". Phone : 25294.
Marina Hotel.—Connaught Circus, New Delhi.
Minerva Hotel.—Queen's Road, Delhi.

Grams : "AGRAHOTEL".

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Phone : 24606.

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New India Hotel & Restaurant.—Katra Baryan, Fatehpuri, Delhi.
New Empress Hotel.—Fatehpuri, Delhi.

OBEROI IMPERIAL.—New Delhi.

OBEROI MAIDENS.—Delhi.

Park View Hotel.—Fatehpuri, Delhi.

Pink Hotel.—Queen's Gardens, opp. Rly. Station, Delhi.

Princes Hotel.—Queen's Road, New Delhi.

Punjab Hotel.—Fatehpuri, Delhi.

Regal Hotel.—Queen's Road, Delhi.

River Hotel.—Fais Bazar, Daryaganj, Delhi.

Royal Hotel.—Queen's Road, New Delhi.

Sher-i-Punjab Hotel & Restaurant.—Bazar Pahargunj, New Delhi.

South India Boarding House.—Connaught Circus, New Delhi.

Standard Hotel & Restaurant.—Fais Bazar, Daryaganj, Delhi.

SWISS HOTEL.—Delhi.

ICE AND ICE-CREAM MACHINES

Himalaya Manufacturing & Sales Co.—Park Mansions, Daryaganj, Delhi.

National Refrigeration Works.—2, Fais Bazar, Daryaganj, Delhi.

IMPORTERS, EXPORTERS AND STOCKISTS

Arjan Dass Gupta & Bros.—25, Fatehpur, Delhi.

Arora Brothers.—Kucha Mahajani, Chandni Chowk, Delhi.

Aanand & Co.—Ph. Habas Khan, Khari Badli, Delhi.

Bansidhar Prem Narain Jain.—Nayakatra, Chandni Chowk, Delhi.

Bestways & Co.—Outside Moti Cinema, Chandni Chowk, Delhi.

Bhola Ram Rikhab Dass Jain.—Sadar Bazar, Delhi 6.

Bulakhidas Ramchander.—2104/1, Katra Tobacco, Delhi 6.

Chinnu Bhat Vadilal & Co.—Cloth Market, Delhi.

Chunilal Bhatia & Co.—Sadar Bazar, Delhi. Phone: 23403.

Coxwell & Company.—2, Fais Bazar, Delhi.

Eastern Trading Co.—Madras Road, Kashmir Gate, Delhi.

Foster Bell & Company.—P.B. No. 406, New Delhi 1.

Fourbhai Ltd.—14, Fais Bazar, (Daryaganj), Delhi 7.

Fakir Chand Mohanlal (Estd. 1840).—Chowri Bazar, Delhi.

Frontier Hosiery Stores.—5742/43, Gandhi Market, Sadar Bazar, Delhi 6.

G. T. Mehra & Co.—Chawri Bazar, Delhi.

Guilzarilal Suri & Co.—704, Katra Neel, Chandni Chowk, Delhi.

Gurprasad Kapoor & Bros.—534, Katra Neel, Chandni Chowk, Delhi.

Handicrafts.—10F, Connaught Place, New Delhi 1.

Hari Chand Jain & Sons.—20, Daryaganj, Delhi 7. Phone: 6878.

Himalaya Manufacturing & Sales Co.—Park Mansions, Daryaganj, Delhi.

Hind Overseas Trading Co.—Amar Bhawan, Behind State Bank, Delhi.

Hirdaynath Bhargava & Co.—Ganesh Bazar, Cloth Market, Delhi.

Indo Commercial Corporation.—211, Esplanade Road, Delhi.

J. Kishore & Co.—Chandni Chowk, Delhi.

Jagmohan Das Mashroowala, 91, Mahabir Bazar, Cloth Market, Delhi.

Jainy Bros. & Co.—Gali Leshwa, Chandni Chowk, Delhi.

Jaintiprasad & Co.—Roshanpura, Nai Sarak, Delhi.

Jamuna Trades Corporation.—Chandni Chowk, Delhi.

Jhalani Bros.—Gali Lohewali, Chawri Bazar, Delhi.

Kalicharan & Co.—Chatta Pratapsingh, Kinari Bazar, Delhi.

Kapurchand & Brothers.—5805, Sadar Bazar, Delhi.

Kantilal & Co.—Ganesh Bazar, Cloth Market, Delhi.

Khanna & Sons.—Kucha Ghasvan, Chandni Chowk, Delhi.

Kidarnath Kishinchand.—Ashraf Katra, Chandni Chowk, Delhi.

Kishorilal & Sons.—Chawri Bazar, Delhi 6.

Kunjilal Sital Pershad Oswal.—Sadar Bazar, Delhi. H.O. Amritsar.

L. N. Gadodia & Son Ltd.—Kucha Natwan, Chandni Chowk, Delhi.

Lachhman Dass Ramchand.—Chawri Bazar, Delhi.

Mera Chemicals.—Lahori Gate, G. B. Road, Delhi.

MILWA RAM LAKHMECHAND.—Sadar Bazar, Delhi.

Hosiery, Umbrellas, Trunks, Canvas Shoes and General Merchants and Direct Importers.

Modern Scientific Instrument Co.—Chawri Bazar, Delhi.

Mongia Bros.—Opp. Kumar Talkies, Chandni Chowk, Delhi. Phone: 25564.

Motandas & Co., T.—4E, Thana Sadar Road, Delhi 6.

Munshi Ram Manohar Lal.—Post Box 1165, Nai Sarak, Delhi 6.

National Refrigeration Works.—2, Fais Bazar Road, Delhi.

N. Kishore & Co.—Esplanade Road, Delhi 6.

Norfolk Syndicate (India) Limited.—Opposite Scindia House, Connaught Circus, New Delhi.

Northland (India) Limited.—Opposite Scindia House, Connaught Circus, New Delhi.

Oriental Electric Company.—Behind State Bank of India, Chandni Chowk, Delhi 6.

Oriental Radio & Electric Store.—17-C, Connaught Place, Post Box No. 103, New Delhi.

Oriental Stores.—Hamilton Road, Delhi.

Packer Wates & Co.—Chandni Chowk, Delhi.

Pandit Bros.—10F, Connaught Place, New Delhi.

Paul Radio & Electric Corporation.—122, Sadar Bazar, Delhi 6.

Pohoomal Bros. (India).—Chandni Chowk, Delhi.

Prem Brothers (Regd.).—414, Sadar Bazar, Delhi 6.

Raj Gupta & Co.—Fais Bazar, Daryaganj, Delhi.

Ram Esahwar & Co.—11, Esplanade Road, Delhi.

Ram Narain Gupta & Bros.—Naya Bazar, Delhi.

Ramkishin Bhatia & Sons.—Chandni Chowk, Delhi.

Ramkishore Sharma & Co.—Chandni Chowk, Kucha Ghasi Ram, Delhi.

Ramesingh Kundanlal.—5666, Gandhi Market, Sadar Bazar, Delhi 6.

Ranbaxy & Company Private Ltd.—Head Office: No. 16, Marina Arcade, P.O. Box No. 104, Connaught Circus, New Delhi.

Roy Brothers (Cheap John) Ltd.—Queensway, New Delhi.

S. B. Electric Company.—Bissumal Colony, Behind State Bank of India, Chandni Chowk, Delhi 6.

Seth & Co.—Naya Bazar, G. B. Road, Delhi.

Seth Ramnarain Gupta & Bros.—Naya Bazar, Delhi.

S. K. Diwan & Co.—214, Irwin Road, P.B. No. 233, New Delhi 1.

Style.—13-K, Connaught Place, New Delhi.

Sohanlal Prem Narain Jain.—V/57, Chandni Chowk, opp. Central Bank, Delhi.

Sudam & Co.—Esplanade Road, Delhi.

Suraj Bhan Agarwal.—Chawri Bazar, Delhi 6.

Tandon Bros.—16, Daryaganj, Delhi.

Tilak Chand Rajendra Kumar Jain.—5198, Sadar Bazar, Delhi 6.

T. J. Kishore & Co.—Cloth Market, Delhi.

Trevillion & Clark.—21-B, Connaught Place, New Delhi.

United Commercial Co.—Gali Qasimjan, Chandni Chowk, Delhi.

Vioto.—Esplanade Road, Delhi.

IRON AND STEEL MERCHANTS

Bhagratmal Govind Persad.—Chawri Bazar, Delhi.

Bhagwan Sahai & Co.—Chawri Bazar, Delhi.

Delhi Iron Syndicate.—20, Barakhamba Road, New Delhi.

Fakir Chand Mohanlal (Estd. 1840).—Chawri Bazar, Delhi.

Gangabhai Aggarwal.—Chawri Bazar, Delhi.

Godrej. Godrej & Boyce Mfg. Co., Ltd.—168, Chandni Chowk, Delhi.

Iron Traders Ltd.—Lal Kua, Delhi.

Jagannath & Co.—Naya Bazar, G. B. Road, Delhi.

Jwalanath Bhagwandas.—Chawri Bazar, Delhi.

Khandelwal Bros. Ltd.—Chawri Bazar, Delhi.

Lachmandas Jaldyal.—Chawri Bazar, Delhi.

Lachmandas Ramchand.—Chawri Bazar, Delhi.

Manilal & Co.—Chawri Bazar, Delhi.

Munali Ramdayal.—Chawri Bazar, Delhi.

Munshilal Omperkash.—Chawri Bazar, Delhi.

Parkash Iron & Steel Co.—Haus Kaji, Delhi.

Peayaral Kanumal.—Chawri Bazar, Delhi.

Ramchand Bengalmal.—Chawri Bazar, Delhi.

Rattanlal Rajkisan.—Chawri Bazar, Delhi.

Tata Industries Ltd.—Connaught Circus.

JARIWALA (SAREE BORDERS)

Bhukhandas Nathubai Suratwala.—Kinari Bazar, Delhi.

Central Cottage Industries Emporium on Janpath, New Delhi.

Chaganlal Jaikashindas.—Kinari Bazar, Delhi.

Chhaganlal Motiram Suratwala.—Kinari Bazar, Delhi.

Deyabhai Banchhodhbhai Patel.—Kinari Bazar, Delhi.

Hasmukhlal Jaikashindas.—Kinari Bazar, Delhi.

Hind Stores.—771, Chandni Chowk, Delhi.

Jagjivandas Keshavram.—Kinari Bazar, Delhi.

Manherlal Mohanlal.—Kinari Bazar, Delhi.

Motiram Narasinghdas.—Kinari Bazar, Delhi.

Om Parkash Agarwal.—Kinari Bazar, Delhi.

Om Sewaram Chhotelal.—Kinari Bazar, Delhi.

Prabhudas Bhailchand & Co.—Kinari Bazar, Delhi.

Punjab Jari House.—Kinari Bazar, Delhi.

Ramanlal Chunilal.—Kinari Bazar, Delhi.

Ramanlal Gulabdas.—Kinari Bazar, Delhi.

Ramesh Chander Ganesh Kumar.—Kinari Bazar, Delhi.

Sha Vasantlal Panchand.—Kinari Bazar, Delhi.

JEWELLERS

Babu Jewellery House.—Bazar Dariba Kalan, Delhi.

Babu Mull & Co.—Kashmere Gate, Delhi.

Bashehar Nath & Sons.—Bazar Dariba, Delhi.

Bhagwan Das & Sons.—Bazar Dariba, Delhi.

Bharata-Ji-Di-Hatti.—Chandni Chowk, Delhi.

Bihandas Barkatram & Co.—Connaught Circus, New Delhi.

CENTRAL COTTAGE INDUSTRIES EMPORIUM ON JANPATH
—Heavy-wrought or delicately handcrafted jewellery in Gold, Silver, Jade, Semi-precious Stones from all over India; Nepal Jewellery included.

Cook & Kelvy.—Scindia House, Connaught Circus, New Delhi.

Deepak India Jewellers and Art Dealers.—11-A, Connaught Place, (Near Post Office), New Delhi.

Dina Nath.—Connaught Place, New Delhi.

Girdharilal Bros.—Diamond Merchants, opp. Scindia House, New Delhi 1. No.

Gopal Das wal Rai.—Shanker Terrace, Fountain, Delhi.

Hamilton & Co. Ltd.—Connaught Place, New Delhi.

Hari Chand & Sons.—Dariba Kalan, Delhi.

Indian Art Palace (Regd.).—3, Kashmir Gate, Delhi.

Ivory Palace.—Connaught Place, New Delhi.
 Jagadhar Mai Dhannu Mai Jain.—Dariba Kalan, Delhi.
 Jagat Kishore.—Chandni Chowk, Delhi.
 Jagat Narain & Sons.—Chandni Chowk, Delhi and 64, Queensway, New Delhi.
 Jugal Kishore & Sons.—Chandni Chowk, Delhi.
 Kali Charan & Sons.—Chandni Chowk, Delhi.
 Kamala Jewellery House.—Subzimandi, Delhi.
 Kanjimull & Sons.—Scindia House, Queensway, New Delhi.
 Khanna & Co.—Chandni Chowk, Delhi.
 Kharati Lal & Sons.—80, Queensway, New Delhi.
 Kotai Arts.—Connaught Place, New Delhi.
 Krishana & Sons.—Connaught Place, New Delhi.
 L.P.Q.R. (Indian Jewellery Trading Co.).—Chandni Chowk, Delhi.
 Maha Laxmi Jewellery House.—Chandni Chowk (Fatehpuri), Delhi.
 Mahboob Singh Jain.—Dariba Kalan, Delhi.
 Mahboob Singh Ranjit Singh.—Dariba Kalan, Delhi.
 Mahrae-Di-Hatti.—Dariba Kalan, Delhi.
 Mal Nem Chand Jain.—1788, Dariba Kalan, Delhi.
 Mani Lal Sham Sundar.—Dariba Kalan, Delhi.
 Manick Chand.—Chandni Chowk, Delhi.
 Manohar Lal & Sons.—Near Odean, Connaught Circus, New Delhi.
 Manohar Lal & Son.—Connaught Circus, New Delhi.
 Miri Mai Nem Chand Jaini.—Dariba Kalan, Delhi.
 Mukha Mal Gokal Chand.—Chandni Chowk, Delhi.
 Nanak Chand Radha Kishan.—Dariba Kalan, Delhi.
 Panna Lal Roshan Lal.—Chandni Chowk, Delhi.
 Pearey Lal Amar Nath.—Dariba Kalan, Delhi.
 Pooran Mai Nannu Mai Jain.—Dariba Kalan, Delhi.
 Raj Narain & Sons.—Dariba Kalan, Delhi.
 Raja Jewellery House.—Dariba Kalan, Delhi.
 Rawalpindi Jewellery House.—Chandni Chowk and Subzimandi, Delhi.
 R. L. Jagdishwar Lal.—Dariba Kalan, Delhi.
 Roshan-Di-Hatti.—Dariba Kalan, Delhi.
 Saravati.—19-E, Connaught Place, New Delhi. Phone: 44067;
 Grams: "MANICK".
 Shibban Lal Raghib Singh.—Dariba Kalan, Delhi.
 Shiv Charan & Sons.—Dariba Kalan, Delhi.
 Shri Ram Hari Ram.—Dariba Kalan, Delhi.
 Sultan Singh Jain.—Dariba Kalan, Delhi.
 The Art Museum.—1726, Burn Bastion Road, Delhi 6.
 Uttam Singh Kala Singh, B.—Dariba Kalan, Delhi.
 Vir-Jee-Di-Hatti.—Dariba Kalan, Delhi.

LACES, RIBBONS, TRIMMINGS AND EMBROIDERY MERCHANTS

Bhagwandas Labhram & Co.—Chandni Chowk, Delhi.
 Bharat Embroidery & Lace Mill.—Roshanara Road, Delhi.
 Delhi Embroidery Works.—Nai Sarak, Delhi 6.
 Delhi Lace Mills.—Bertwala Bagh, Pul Bungash, Delhi 6.
 Dinkaria & Sons.—B. B. Road, Delhi 6.
 Fancy Silk and Smallware Weaving Mills, Ltd.—Khyber Pass Market, Civil Lines, Delhi 6.
 Guptajee.—Connaught Place, New Delhi.
 Imperial Lace Mills.—Nai Hatti, Sadar Bazar, Delhi 6.
 Munshilal Ajit Parshad.—Chandni Chowk, Delhi.
 National Embroidery Works.—1014, Library Road, Delhi 6.
 Raj Narain Lace Factory.—Dariba Kalan, Delhi 6.
 United Embroidery Works.—Bari Market, Sadar Bazar, Delhi.

LADIES HAND BAGS

Art Museum, The.—1726, Burn Bastion Road, Delhi 6.
 Guptajee.—Connaught Place, New Delhi.
 Jankidas & Co.—23-F, Connaught Place, New Delhi.

LEATHER GOODS

Anand Trunk House.—Chandni Chowk, near Fatehpuri, Delhi.
 Central Cottage Industries Emporium on Janpath, New Delhi.
 Deora Bhagwandas.—opp. Chartered Bank, Chandni Chowk, Delhi.
 Duffadar Dull Chand & Bros.—5, Regal Building, Parliament Street, New Delhi.
 Hindu Trunk House.—Chandni Chowk, opp. Central Bank, Delhi.
 Imperial Leather Works.—Connaught Circus, New Delhi.
 Jankidas & Co.—23-F, Connaught Place, New Delhi.
 Kashmir Stores.—Connaught Place, New Delhi.
 Leather & Artistic Craft Ltd.—Fais Bazar, Daryaganj, Delhi.
 Leatherite.—3F, Connaught Place, New Delhi.
 Mew Cawnpore Saddlers House (Regd.).—Chandni Chowk, Delhi.
 The Art Museum.—1726, Burn Bastion Road, Delhi 6.

LIME MERCHANTS

Bharat Stone Lime Co.—Naya Bazar, G. B. Road, Delhi.
 Delhi Stone & Lime Syndicate.—Katra Raji, G. B. Road, Delhi.
 Diwan Lime Co.—Naya Bazar, G. B. Road, Delhi.
 Jagannath & Co.—Naya Bazar, G. B. Road, Delhi.
 Lakshmi Stone Lime Co.—Katra Raji, G. B. Road, Delhi.
 Mahabir Pershad & Sons.—Chawri Bazar, Delhi 6.
 Multan Lime & Stone Co.—Naya Bazar, G. B. Road, Delhi.
 National Cement & Lime Stores.—Katra Raji, G. B. Road, Delhi.
 Punjab Lime & Stone Co.—Naya Bazar, G. B. Road, Delhi.

LOCK AND SAFE MERCHANTS

Godrej, Godrej & Boyce Mfg. Co., Private Ltd.—20, Ajmeri Gate Extension, New Delhi.
 Latham Abercrombie & Co., Private Ltd.—D. A. G. Extension, New Delhi.
 Marshall Sons & Co. (India) Ltd.—Marshall House, Connaught Circus, New Delhi.
 New Rattan Safe Factory.—70, Gokhale Market, Delhi.
 Western Engineering Co.—Library Road, Delhi 6.

LUBRICATION EQUIPMENT

DELHI GARAGE PRIVATE LTD.—Connaught Circus, New Delhi. All your requirements in Lubrication Equipment from the Smallest Grease Nipple to the Biggest Service Station.

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 Arjan Singh Khemchand.—Lahori Gate, G. B. Road, Delhi.
 Aster Engineering Co. (Regd.).—Naya Bazar, Delhi.
 Balbir Bros., Ltd.—Importers and Merchants of Paper, Stationery, Printing Machinery and other allied Material, Jama Masjid, Delhi.
 Batliboi & Co.—Lahori Gate, G. B. Road, Delhi.
 Bery Engineering Co.—Naya Bazar, Delhi.
 Bhagwandas & Sons.—Naya Bazar, Delhi.
 Bharat Engineering Corp. (of Lahore).—Naya Bazar, G. B. Road, Delhi.
 Bharat National Foundry and Workshop.—Motia Khan, New Delhi.
 Bombay Machinery Co.—Lahori Gate, G. B. Road, Delhi.
 Delhi Garage Ltd.—Connaught Circus, New Delhi.
 Dewan Sohan Lal & Co.—Naya Bazar, G. B. Road, Delhi.
 Dhermal Kapur & Sons.—Lahori Gate, G. B. Road, Delhi.
 Doyal & Co., H. M.—Lahori Gate, G. B. Road, Delhi.
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 G. D. Siegel & Co.—Church Road, Kashmere Gate, Delhi.
 G. J. Bros. & Sons.—Lahori Gate, G. B. Road, Delhi.
 G. L. Khanna & Sons.—65, G. B. Road, Delhi.
 Guran Das & Co.—Lahori Gate, G. B. Road, Delhi.
 Hans Raj & Co., J. R.—Naya Bazar, Delhi.
 Harischandra & Co.—Naya Bazar, G. B. Road, Delhi.
 Harish Bros. (Regd.).—Naya Bazar, Delhi.
 Hindustan Machinery Store.—Naya Bazar, G. B. Road, Delhi.
 Ice & Refrigeration Machinery Stores.—Lahori Gate, G. B. Road, Delhi.
 Imperial Engineering Co.—Naya Bazar, Delhi.
 Indo-Europa Trading Co.—Chandni Chowk, Delhi.
 J. Mahabir & Co., Ltd.—Jama Masjid, Delhi. Telephone: 6154.
 Jai Bharat Trading Co.—Naya Bazar, Delhi.
 Karam Singh Gian Singh Chhabra.—Naya Bazar, Delhi.
 K. B. Sons.—Naya Bazar, G. B. Road, Delhi.
 Lahore Machinery Corporation.—Katra Raji, G. B. Road, Delhi.
 Lakshmi Kai Bhandar.—Naya Bazar, G. B. Road, Delhi.
 Machinery & Oil Store Co.—Naya Bazar, Delhi.
 Manilal & Brothers.—Chawri Bazar, Delhi 6.
 Mano Ramesh & Co.—Lahori Gate, G. B. Road, Delhi.
 MARSHALL, SONS & CO., (INDIA) LTD.—Marshall House, Hanuman Road, New Delhi; Grams: "ENGINE". Phones: 47088 & 48087.
 Mill Store Co.—Naya Bazar, Delhi.
 Modern Machinery Store Co.—Naya Bazar, Delhi.
 National Engineering Co.—Naya Bazar, Delhi.
 Parhawk Co.—11, Esplanade Road, Delhi.
 Power Tools & Appliances Co.—Kashmere Gate, Delhi.
 Punjab Machinery Mart.—Katra Raji, G. B. Road, Delhi.
 Punjab Steel Works.—Naya Bazar, G. B. Road, Delhi.
 Ram Narain Gupta & Bros.—Lahori Gate, G. B. Road, Delhi.
 Refrigerators (India) Ltd.—Scindia House, Connaught Circus, New Delhi.
 Reliable Machinery Supply Co.—Katra Raji, G. B. Road, Delhi.
 Seth & Co., A. N.—Katra Raji, G. B. Road, Delhi.
 Seth & Sons, S. B.—Naya Bazar, G. B. Road, Delhi.
 Sharma Engineering Co.—Naya Bazar, Delhi.
 Talwar & Co.—Lahori Gate, G. B. Road, Delhi.
 U. K. Industrial Corporation.—Katra Baryan, Fatehpuri, Delhi.
 United Steel Industries.—Naya Bazar, G. B. Road, Delhi.
 Vijay Kumar & Co.—Lahori Gate, G. B. Road, Delhi.
 Volkart Bros.—70, Queensway, New Delhi.
 Worthington Simpson Ltd.—123, Baird Road, New Delhi.

MANUFACTURERS' REPRESENTATIVES

Coxwell & Company.—2, Fais Bazar, Delhi.
 D. S. Bawa & Co.—14, Barakhamba Road, New Delhi. Phone: 5935.
 Foster Bell & Company.—P. B. No. 406, New Delhi 1.
 India's Import & Export Syndicate.—International Merchants, 784, Burn Bastion Road, Delhi.

Mitra Pharmacy.—Wholesale Chemists and Druggists, Ballimaran, Chandni Chowk, Delhi 6.
S.B. Electric Company.—Balsamal Colony, Behind State Bank of India, Chandni Chowk, Delhi 6.
Sikandarial Shamai & Co.—Katra Subhash, Chandni Chowk, Delhi.
S. K. Diwan & Co.—214, Irwin Road, P.B. No. 233, New Delhi 1.
T. S. Thadhani & Sons.—Fountain Area, Chandni Chowk, Delhi.

MILL AND GIN STORE SUPPLIERS

Associated Textile Engineers.—Chawri Bazar, Delhi. Phone : 23291.
Chhuttan Lal Mattu Mal.—Chawri Bazar, Delhi 6.
Delhi Machinery Stores, The.—Chawri Bazar, Delhi.
Delhi Mill Stores.—Chawri Bazar, Delhi.
Devkinandan Krishan Kumar.—Lahori Gate, G. B. Road, Delhi.
Jhalani Brothers.—Gall Lobe Wall, Chawri Bazar, Delhi.
J. M. Bodiwala & Sons.—Chawri Bazar, Delhi.
Khanna & Sons, G. L.—Lahori Gate, G. B. Road, Delhi.
Seth & Co., A. N.—Katra Raji, G. B. Road, Delhi.

MOTOR PARTS AND ACCESSORIES

Aggarwala Automobiles.—Queen's Road, opp. Railway Station, Delhi.
Bharat Motor Company, The.—Queen's Road, opp. Railway Station, Delhi.
Coronation Motor Works.—Queen's Road, opp. Railway Station, Delhi.
Delhi Motor & Cycle Co.—48, Queensway, New Delhi.
Eastern Trading Co.—Madras Road, Kashmere Gate, Delhi.
Federal Auto Stores.—Kashmere Gate, Delhi 6.
General Motor Stores.—Queen's Road, opp. Railway Station, Delhi.
Howrah Motor Co. Ltd.—Kashmere Gate, Delhi.
Indo Commercial Corporation. 211, Esplanade, Delhi.
Indo Trading Co.—Kashmere Gate, Delhi 6. Phone : 5539.
Jain Motor Car Co., The.—Queen's Road, opp. Railway Station, Delhi.
Lakshmi Motor Company, The.—Queen's Road, opp. Railway Station, Delhi.
National Motor Stores.—Roshanara Road, Delhi.
Northern India Motor Co.—Connaught Circus, New Delhi.
Olympia Motors.—Hamilton Road, Delhi.
Orient General Agencies.—Hamilton Road, Kashmere Gate, Delhi 3.
P. S. Jain Motor Co.—Queen's Road, opp. Railway Station, Delhi.
Seth & Sons Ltd.—Queen's Road, opp. Railway Station, Delhi.
Universal Trading Corporation.—Hamilton Road, Delhi.

MUSICAL INSTRUMENT DEALERS

Godin & Co.—Regal Bldg., Parliament Street, New Delhi.
Jaswant Reed & Co.—Kashmere Gate, Delhi.
Lahore Music House.—Fais Bazar Road, Near Moti Mahal, Delhi 6.
Marquis & Co.—Connaught Circus, New Delhi.
R. K. Mohan Musical Instrument Mfg. Co.—Hamilton Road, Kashmere Gate, Delhi.
Rati Ram & Sons.—Nal Sarak, Delhi.
Rikhi Ram Musical Instrument Mfg. Co.—Connaught Place, New Delhi.
Sohan Singh Harmonium Co.—Esplanade Road, Delhi.
Victory Gramophone Co.—Behind State Bank Bldg., Chandni Chowk, Delhi.

NEWSPAPERS AND PERIODICALS

Agricultural Situation in India (Monthly).—Civil Lines, Delhi.
All-India Motorist (Monthly).—D-24, Odeon Bldg., New Delhi.
Bal Bharati (Monthly).—P.O. Box No. 2011, Delhi.
Banking Insurance & Commerce (Monthly).—Vinney Nagar, New Delhi.
Beecham's India Air Guide (Monthly).—M. Block, M-6, Radial Road, No. 7, New Delhi.
Chitra (Weekly).—Raghirath Palace, Chandni Chowk, Delhi 6.
Commerce & Industry (Weekly).—Prabhudayal Bldg., Connaught Circus, New Delhi.
Congress Sandesh (Weekly).—Jantar Mantar Road, New Delhi.
Congress Bulletin (Monthly).—7, Jantar Mantar Road, New Delhi.
Daily Pratap (Daily).—Mathura Road, New Delhi.
Daily Watan (Daily).—Chandni Chowk, Delhi.
Eastern Economist (Weekly).—52, Queensway, New Delhi.
Filmart (Weekly).—Burn Bastion Road, Delhi.
Food & Farming (Monthly).—D-24, Odeon Bldg., P.O. Box 540, New Delhi.
Hindustan (Daily).—Connaught Circus, New Delhi.
Hindustan Standard (Daily).—Qutab Road, Delhi.
Hindustan Saptahik (Weekly).—Connaught Circus, New Delhi.
Hindustan Times (Daily).—Connaught Circus, New Delhi.
Indian Express (Daily).—Mori Gate, Delhi.
Indian Farming (Monthly).—I.C.A.R., Queen Victoria Road, New Delhi.
Indian Labour Gazette (Monthly).—Civil Lines, Delhi.
Indian Listener (Weekly).—Curzon Road, New Delhi.
Jan Kalayan (Quarterly).—Lakshmi Insurance Bldg., New Delhi.
Journal of the United Service Institution of India (Quarterly).—Kashmir House, New Delhi.
Journal of Industry & Trade (Monthly).—Civil Lines, Delhi.
Kurukshetra (Monthly).—CPA, Rashtrapati Bhuvan, New Delhi.

Medical Review of Reviews (Monthly).—Post Box 1160, Burn Bastion Road, Delhi.

NAVABHARAT TIMES (Daily).—10, Daryaganj, Delhi.

Oversea Hindustan Times (Weekly).—Connaught Circus, New Delhi.
People (Weekly).—19-C Block, Connaught Place, New Delhi.
Pictoregoer (Monthly).—92, Daryaganj, Delhi.
Prasarika (Quarterly).—Post Box 2011, Delhi.
Sainik Samachar (Weekly).—F-Block, D.H.P.Q. New Delhi.
Statesman (Daily).—Connaught Circus, New Delhi.
Swarajya (Daily).—Dharam Nagar, Naiwara, Chawri Bazar, Delhi.
Tax & Commercial Reports (Monthly).—M-27, Connaught Circus, New Delhi.

TIMES OF INDIA (Daily).—10, Daryaganj, Delhi.

OFFICE EQUIPMENT

Blackwoods India Ltd.—D.A.G. Extension, New Delhi.
General Equipment Merchants Ltd.—2/90, Connaught Circus, New Delhi.
Gesteiner Duplicators Ltd.—9, Scindia House, New Delhi.
Godrej, Godrej & Boyce Mfg. Co., Private Ltd.—20, Ajmeri Gate Extension, New Delhi.
Kilburn & Co., Private Ltd.—28, Harakhamba Road, New Delhi.
Korss (India) Ltd.—22-A, D.A.G. Extension, New Delhi.
Remington Rand of India Ltd.—D.A.G. Extension, New Delhi.
Roneo Ltd.—Bombay Life Bldg., Connaught Circus, New Delhi.

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TATA OIL MILLS CO., LTD., THE.—28, Asaf Ali Road, New Delhi.

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OPTICIANS

British Optical Co.—Ballimaran, Chandni Chowk, Delhi.
Charandas Khanna & Sons.—1, Chandni Chowk, Delhi.
Comrades Optical Co., The.—Wholesale Opticians, 5245, Ballimaran Street, Delhi 6.
Delhi Optical Co.—Chandni Chowk East, Delhi 6.
Kirparam & Sons.—Connaught Circus, New Delhi.
Lawrence & Mayo (India) Ltd.—Queensway Road, New Delhi.
Modern Optical Company Ltd.—Chandni Chowk, Delhi.
Mumick Ltd.—Opticians, 12-B, Connaught Place, New Delhi.
Punjab Spectacles Co., The.—1458, Fountain, Delhi.
Punjab Optical House.—740, Chandni Chowk (Between Darila and Gurdwara), Delhi 6.

PAINTS, ENAMELS AND VARNISHES

A. S. Sobha Sing & Sons.—Chandni Chowk, Delhi.
Bharat Paint House (Regd.).—Chandni Chowk, Delhi. Phone : 24366. Grams : "Bharatpaints."
Buildwell Stores.—Katra Raji, G. B. Road, Delhi.
B. Uttamsingh Kesarsingh.—Chandni Chowk, Delhi.
Delhi Colour and Paint Mart.—Fatehpur, Chandni Chowk, Delhi.
Dewanchand & Sons.—Katra Raji, G. B. Road, Delhi.
Dherumal Kapur & Sons.—Lahori Gate, G. B. Road, Delhi.
Gladstone Lyall & Co. Ltd.—Connaught Circus, New Delhi.
Goodlass Wall Private Ltd.—Indersani Building, Behind Kamala Market, New Delhi.
Gwalior Paint & Chemical Industries, Ltd.—Kashmere Gate, Delhi.
Himalaya Trading Co.—Fatehpuri, Delhi 6.
Hoyle Robeson Barnett & Co. (India), Ltd.—Kashmere Gate, Delhi.
India Paint, Colour and Varnish Co. Ltd.—Chandni Chowk, Delhi.
India Trading House.—Fatehpur, Chandni Chowk, Delhi.
Jagannath & Co.—Naya Bazar, G. B. Road, Delhi.
Janwar Paint House.—Sadar Bazar, Delhi.
Lalit & Co.—Fatehpur, Chandni Chowk, Delhi.
Maheswari Chemicals.—Delhi Shahdara.
Matra Sales Corporation.—Fais Bazar, Delhi.
Narainsingh & Sons.—Chandni Chowk, Delhi.
National Paint House.—Chandni Chowk, Delhi.
Nikkamal & Sons, S.—Naya Bazar, G. B. Road, Delhi.
Northern India Paint & Colour Co.—Naya Bazar, Delhi.
RAM PRAKASH & SONS.—Fatehpuri, Delhi. Paint Factory : Patel & Prakash Industries, Delhi—Shahdara; Glue Factory : Sunlight Glue Manufacturing Co., Rhetak Road, Delhi. Mixing Material Suppliers : Glue "TREE" Brand, Ram Prakash & Sons, Fatehpuri, Delhi.
Santam Nikka Mal.—Fatehpur, Chandni Chowk, Delhi.
Shadi & Co.—Fatehpur, Chandni Chowk, Delhi.
Shalimar Products Ltd.—Connaught Circus, New Delhi.
Sprays Paints Corporation.—9, Fais Bazar, Delhi.
Sunderlal Jain.—Lahori Gate, G. B. Road, Delhi.
Swastika Colour & Paint Industries.—Katra Raji, G. B. Road, Delhi.
Tayal Brothers.—Katra Raji, G. B. Road, Delhi.
United Commercial Syndicate.—Fatehpur, Chandni Chowk, Delhi.

PAPER MERCHANTS

A. C. Goel & Sons.—Chawri Bazar, Delhi.
 Amar Singh Dhoomi Mal.—Chawri Bazar, Delhi.
 Bansal Dhar Kapoor & Sons (Hegd.).—Chawri Bazar, Delhi.
 Behari Lal Madan Lal.—Maha Laxmi Market, Chandni Chowk, Delhi.
 Bengat Paper Mills Co. Ltd.—Behind Jama Masjid, Delhi.
 Bhagwat Parahad & Sons.—Chawri Bazar, Delhi.
 Bhole Nath Bachho Mall.—Fatehpuri, Delhi.
 Birdhi Chand Naunag Ram.—Khari Baoli, Delhi.
 Birdhi Chand Jain & Sons.—Chawri Bazar, Delhi.
 B. N. Mehra & Co.—Importers, 5198, Sadar Bazar, Delhi 6.
 Chhutan Lal Chaman Lal.—Chawri Bazar, Delhi.
 Dalmia Cement & Paper Marketing Co. Ltd.—Scindia House, Queensway, New Delhi.
 Dasondhi Mal Kapur.—Chawri Bazar, Delhi.
 Eastern Paper Mart.—Chawri Bazar, Delhi.
 Frank Bros. & Co.—Chandni Chowk, near Dariba, Delhi.
 Ganga Saran & Sons Ltd.—Chawri Bazar, Delhi.
 Ghashta Mal Mela Ram.—Chawri Bazar, Delhi.
 Inder Mohan & Co.—Chawri Bazar, Delhi.
 India Paper Pulp Co. Ltd.—Nai Sarak, Delhi.
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 J. Mahaboor & Co., Private Ltd.—Jama Masjid, Delhi.
 Telephone: 24254.
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 Jeoti Parahad Mahabir Pershad.—Bara Tooti, Sadar Bazar, Delhi.
 Jhangli Mal Pearey Lal.—Chawri Bazar, Delhi.
 J. B. Bhalla & Bros.—Behind Jama Masjid, Chawri Bazar, Delhi.
 J. Mahabir & Co. Ltd.—Near Jama Masjid, Dariba, Delhi.
 Kalamasoo Parchment Paper Co.—37-G, Connaught Circus, New Delhi.
 Karam Chand Thapar & Bros. Ltd.—Naya Bazar, Delhi.
 K. C. Bhargava & Co.—Post Box No. 1247, Delhi.
 Kishori Lal & Sons.—Chawri Bazar, Delhi 6.
 K. N. Dawar & Co.—12-L, Connaught Circus, New Delhi.
 Phone: 43965.
 Munshi Lal Parkash Chand.—Chawri Bazar, Delhi.
 Munshi Lal & Sons.—Chawri Bazar, Delhi.
 Nand Ram Suraj Mal.—Chawri Bazar, Delhi.
 Nanu Mal & Sons.—Chawri Bazar, Delhi.
 Naunag Ram Sumair Chand Jain.—Chawri Bazar, Delhi.
 Nem Chand Rajender Kumar.—Chawri Bazar, Delhi.
 New India Paper Mart.—Chawri Bazar, Delhi.
 Paras Das Lalit Pershad.—Chawri Bazar, Delhi.
 Premier Trades & Agencies.—Chawri Bazar, Delhi.
 P. L. Bachu Mal.—Chawri Bazar, Delhi.
 Ragbar Dayal Panau Lal.—Chawri Bazar, Delhi.
 Raja Lal & Sons.—Chawri Bazar, Delhi.
 Ram Parahad Radhey Sham.—Charkhowalan, Chawri Bazar, Delhi.
 Ram Chand Jugal Kishore.—Chawri Bazar, Delhi.
 Ram Lal Kapoor & Sons.—Nai Sarak, Delhi.
 Ram Nath & Sons.—Chawri Bazar, Delhi.
 Ram Kishore Chaman Lal.—Khari Baoli, Delhi.
 Saroop Chand Jain.—Chawri Bazar, Delhi.
 Sehgal & Co.—Opp. Marina Hotel, Connaught Circus, New Delhi.
 Sher Singh Kirpa Ram.—Chawri Bazar, Delhi.
SIDDEO MAL & SONS.—Chawri Bazar, Delhi 6. Phone: 26442; Grams: "TISU". Importers of Paper, Boards & Stationery and Manufacturers of Stationery articles; Branch: 49, Sutar Chawl, Bombay 2.
 Simbu Nath & Sons.—Chawri Bazar, Delhi.
 S. S. Mian & Bros.—Chawri Bazar, Delhi.
 Sunder Lal Nathi Mal.—Chawri Bazar, Delhi.
 Swastika Paper Mart Ltd.—Chawri Bazar, Delhi.
 Ttashar Paper Mills Co. Ltd.—Shiv Narain Building, Chandni Chowk, Delhi.
 Upper India Paper Co.—Wholesale Paper Merchants, 4030, Chawri Bazar, Delhi.

PERAMBULATORS

B. L. Ramriehpal.—Lothian Road, Kashmir Gate, Delhi.
 Bestways & Co.—Outside Moti Cinema, Chandni Chowk, Delhi.
 Bharat Brass & Metal Industries.—G.T. Road, Delhi.
 Bright Steel Industries.—Near Jama Masjid, Delhi.
 British Perambulator Manufacturing Co.—Qutab Road, Delhi.
 Madan Brothers.—1V/86, Chandni Chowk, near Dariba, Delhi 6.
 N. Kishore & Co.—Esplanade Road, Delhi 6.
 Raja Lal & Sons.—1475-1, Chandni Chowk, Delhi 6.

PERFUMERS

Dharampal Premchand.—Chandni Chowk, Delhi.
 Gupta & Co.—Sadar Bazar, Delhi 6.
 Gupta & Co.—Khari Baoli, Delhi.
 Mathur Perfumery Works.—Faharganj, Main Bazar, New Delhi.
 Shanta Stores.—Fatehpur, Chandni Chowk, Delhi.

PHARMACEUTICALS

Albert David Ltd.—262, G. T. Road, Delhi.
 Bharat Pharmaceutical Works.—5, Model Basti, Karolbagh, New Delhi.
 British Drug House (India) Ltd.—24, Daryaganj, Delhi.
 Chemical, Industrial & Pharmaceutical Laboratories Ltd.—Connaught Place, New Delhi.
 Drug Research Laboratory.—8, Prithvi Raj Road, New Delhi.
 Hind Pure Drugs & Chemicals Ltd.—Delhi.
 Mac Laboratories Ltd.—69, Daryaganj, Delhi.
 Martin & Harris Ltd.—22-A, Mahanta Bldg., Near Kamla Market, New Delhi.
 May & Baker (India) Ltd.—Chaudhury Bldg., K-Block, Connaught Circus, New Delhi.
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 Ranbary & Co., Ltd.—16, Marine Arcade, Connaught Place, New Delhi.

PHOTOGRAPHERS AND PHOTOGRAPHIC MATERIAL DEALERS

A. R. Dutt.—Alipore Road, near Ludlow Castle, Delhi.
 Artland Studio.—Chawri Bazar, Delhi.
 Avatar Studios.—Chandni Chowk, Delhi.
 Bashimber Dayal & Sons.—Dariba Kalan, Delhi.
 Berry Studio.—Kashmere Gate, Delhi.
 Capital Studio.—Connaught Place, New Delhi.
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DELHI PHOTO COMPANY.—76, Jampath, New Delhi. All Kodak & Cine Supplies. Phone: 43575.
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 Imperial Photo Studio.—Connaught Place, near Post Office, New Delhi.
 Inderjit Rallia Ram & Co.—Connaught Circus, New Delhi.
 India Photos Camerarts.—53, Panchsquin Road, New Delhi.
 Jain Photo Service.—Bazar Subsimandi, Delhi.
 Kanwal Bros.—Esplanade Road, Delhi.
 Karachi Photo House.—Subsimandi Tower, Delhi.
 Kinsey Bros.—Connaught Place, New Delhi.
 K. L. Arora & Sons.—Baird Road, New Delhi.
 Kumar Bros.—Esplanade Road, Delhi.
 Lakshmi Photo Co.—Chandni Chowk, opp. Imperial Bank, Delhi.
 L. Dass & Sons.—Connaught Place, New Delhi.
 Lily-white Portrait Studio.—Connaught Circus, New Delhi.
 Mahatta & Co.—M Block, Connaught Circus, New Delhi.
 Mangal & Co.—Chandni Chowk, near Dewan Hall, Delhi.
 Metro & Co.—Chandni Chowk, near Imperial Bank, Delhi.
 Metro Studio.—Connaught Circus, New Delhi.
 Muik Raj & Son.—Nai Sarak, Delhi.
 Nise Photo Studio.—Chandni Chowk, Delhi.
 Oriental Art Studio.—Esplanade Road, Delhi.
 Photo Service Co.—Connaught Place, New Delhi.
PHOTO STUDIOS.—12-N, Connaught Circus, Opp. Scindia House, New Delhi. Grams: "SNAPSHOT."
 Ram Nath Photographer.—Kashmiri Gate, Delhi.
 Rangoon Studio.—55, Queensway, New Delhi.
 R. K. Gupta & Sons.—Baird Road, New Delhi.
 Royal Photos Co.—Connaught Circus, New Delhi.
 Royal Studios.—B-Block, Connaught Place, New Delhi.
 Simla Studios.—Regal Building, Connaught Circus, New Delhi.
 Soni Studio.—Esplanade Road, Delhi.
 Star Photo House.—Esplanade Road, Delhi.
 Talreja Bros. (Rangoon Studio).—56, Queensway, New Delhi.
 Phone: 47861.

PICKLES MFRS. & FRUIT PRESERVERS

Ambrosia Food Industries.—23/5-C, Rohtak Road, Karolbagh, New Delhi.
 Batra Fruit Products Corporation.—18, Amrit Kaur Market, Paharganj, New Delhi.
 Bharat Canning Industries.—Farash Khanna, Delhi.
 Blue Bird Manufacturing Co.—Dev Nagar, Karolbagh, New Delhi.
 Delhi Fruit Products.—Agmeri Gate, Delhi.
 Delhi Pickles Manufacturing Co.—Gali Bataashan, Khari Baoli, Delhi.
 Empire General Industries.—Haveli Hassan Uddin, Billimaran, Delhi.
 Excelstor Food & Chemical Industries.—40, Sohanganj, New Delhi.
 Hem Fruit Products.—Connaught Place, New Delhi.
 Imperial Fruit Industries.—P-52, Basti Harphode Singh, Delhi.
 India Fruit House.—Gali Farharullah Beg, G. B. Road, Delhi.
 Kashmir Fruit Products Laboratory.—Qutab Road, Delhi.
 Moti Canning Corporation.—Loni Road, New Delhi.
 Northern India Canning Industries.—16-E, Kamla Nagar, Subsimandi, Delhi.
 Peshawar Fruit & Canning Industries.—Jungpura, New Delhi.
 Royal Fruit Products.—6, Municipal Market, Panchsquin Road, New Delhi.

Sunshine Fruit Products.—70, Lajpat Rai Market, Delhi.
 Victoria Manufacturing Co.—Roopnagar, Delhi.
 Vijay Fruit Industries.—Gali Halwai, Paharganj, Delhi.

PICTURE DEALERS & FRAME MAKERS

Himalaya Trading Co.—Fatehpuri, Delhi 8.
 Rainbow Calendar Co.—No. 3, Daryaganj, Delhi. Manufacturers of
 High Class Calendar, Pictures by Photo-Offset Process.

PIPES AND FITTINGS MERCHANTS

Dunichand Keshoram of Lahore.—Ajmere Gate, Delhi.
 Fakirchand & Sons.—Ajmere Gate, Delhi.
 Gayfield & Co.—Chawri Bazar, Delhi.
 Indian Hume Pipe Co., Ltd.—Delhi Sarai Rohilla.
 J. B. Norton & Sons, Ltd.—Kashmere Gate, Delhi.
 John Tinson & Co. Ltd.—Queensway, New Delhi.
 K. Fairfield & Co.—Sita Ram Bazar, Delhi.
 Mahabir Parshad & Sons.—Chawri Bazar, Delhi 6.
 Mansilal & Bros.—Chawri Bazar, Delhi.
 Standard Tube & Hardware Mart.—Lahori Gate, G. B. Road, Delhi.
 The Punjab Pipe Merchants' Association Ltd.—Ajmere Gate, Delhi.

PRESENTATION ARTICLES

Bestways & Co.—Outside Moti Cinema, Chandni Chowk, Delhi.
 Jankidas & Co.—23-F, Connaught Place, New Delhi.
 Novelities Ltd.—Scindia House, New Delhi.

PRINTING PRESSES

Albert Printing Press.—Esplanade Road, near Jama Masjid, Delhi.
 Albion Press.—Kashmere Gate, Delhi.
 Alliance Press.—Kutab Road, Delhi.
 Anuja Printing Press.—Bara Tooti, Sadar Bazar, Delhi.
 Arjun Press.—Naya Bazar, Shardanand Road, Delhi.
 Army Press.—Allipur Road, near Khyber Pass Market, Delhi.
 Arohan Press.—Hathi Khana No. 13, Bahadurgarh Road, Delhi.
 Asad Electric Press.—Chawri Bazar, Delhi.
 Baluja Press.—Fatehpuri, Delhi.
 Bengal Press.—Pul Bangash, Delhi.
 Bhagwan Printing Works.—Chawri Bazar, Delhi.
 Bharat Prakashan (Delhi) Ltd.—Fais Bazar, Daryaganj, Delhi.
 Block Printing Press.—Bara Tooti, Sadar Bazar, Delhi.
 Broadway Press.—Bara Tooti, Sadar Bazar, Delhi.
 Cambridge Printing Works.—Kashmere Gate, Delhi.
 Capital Press.—Sadar Bazar, Delhi.
 Chanana Press.—G. B. Road, Delhi.
 Chandra Printing Press.—Naya Bazar, Delhi.
 Cinema Art Press (of Lahore).—G. B. Road, Delhi.
 Coronation Printing Works.—Fatehpuri, Delhi.
 Crescent Printing Works.—14/90, Connaught Circus, New Delhi.
 Daulat Press.—Bara Tooti, Sadar Bazar, Delhi.
 Dayals' Printing Press.—Fountain, Chandni Chowk, New Delhi.
 Delhi Press.—Connaught Circus, New Delhi.
 Delhi Printing & Publishing Co. Ltd.—Connaught Circus, Delhi.
 Delhi Printing Works.—Chawri Bazar, Delhi.
 Diamond Press.—Fais Bazar, Daryaganj, Delhi.
 Durga Art Press.—Nicholson Road, Kashmere Gate, Delhi.
 Eagle Art Press.—Sadar, Thana Road, Delhi.
 Federal Trade Press.—Connaught Circus, New Delhi.
 Gaya Dutt Press.—Bagh Dewar, Fatehpuri, Delhi.
 Gita Printing Press.—Library Road, Pul Bangash, Delhi.
 Gondal Press.—Connaught Circus, New Delhi.
 Great India Press.—G. B. Road, Delhi.
 Grover Art Press.—Esplanade Road, Delhi.
 Grover Printing Press.—Hamilton Road, Kashmere Gate, Delhi.
 Gulab Chand Kapur & Sons.—G. B. Road, Delhi.
 Gupta Printing Works.—Esplanade Road, Delhi.
 Harbans Art Press.—Nicholson Road, Delhi.
 Hind Society Press.—Sadar Bazar, Delhi.
 Hindustan Times Press.—Connaught Circus, New Delhi.
 I. M. H. Press.—Fountain, Chandni Chowk, Delhi.
 Imperial Fine Art Press.—Naya Bazar, Delhi.
 Indian Press.—441, Queen's Road, behind Novelty, Delhi.
 Indian Printing Work.—7A/28, W. E. A., Karol Bagh, Delhi.
 Indraprastha Printing Press.—Queen's Road, behind Novelty, Delhi.
 Jagdish Art Press.—Original Road, near Railway Bridge, Delhi.
 Jai Bharat Printing Works.—Teliwara, Delhi.
 Janna Printing Works.—Faisal Mahadev, Lal Kuan, Delhi.
 Janty Printing Works.—Near Jama Masjid, Delhi.
 Japan Art Press.—Hans Kari, Ajmeri Gate, Delhi.
 Jayyad Press.—Ballimaran, Chandni Chowk, Delhi.
 Kalish Fide Printing Works.—Bara Tooti, Sadar Bazar, Delhi.
 Kapur Printing Press.—Kashmere Gate, Delhi.
 Kay Kumm Press.—8/512, Mohd. Humain Road, near Joshi's Hospital, Karol Bagh, Delhi.
 Khanna Press.—Chandni Chowk, near Fountain, Delhi.
 Khosla Printing Press.—Thana Road, Sadar Bazar, Delhi.
 Koehbar Press.—Gali Lala, Kutab Road, Delhi.
 Kuldip Press (of Lahore).—Karol Bagh, Delhi.
 Lahore Economic Press.—Original Road, near Multani Tanda, Delhi.

Laxmi Printing Press.—Doriba, Delhi.
 Lion Press.—Chawri Bazar, Delhi.
 Mehra Printing Works.—Bahadurgarh Road, Delhi.
 Mehta Art Press.—Thana Road, Sadar Bazar, Delhi.
 Milap Press.—G. B. Road, Delhi.
 Model Press.—Naya Bazar, Delhi.
 Modern Fine Art Press.—Chawri Bazar, Delhi.
 Murari Fine Art Press.—Daryaganj, Delhi.
 Narain Printing Works.—Katra Nahi Bakshah, Sadar Bazar, Delhi.
 Narendra Electric Press.—Original Road, Paharganj, Delhi.
 Nath & Co. (Printers).—Connaught Place, New Delhi.
 National Printers Ltd.—Bahadurgarh Road, Teliwara, Delhi.
 Netaji Press.—Connaught Circus, New Delhi.
 New India Press.—Connaught Circus, New Delhi.
 O'key Art Press.—23, Daryaganj, Delhi.
 Oxford Printing Works.—Scindia House, Connaught Circus, New Delhi.
 Paramount Art Press.—Days Mand Road, Daryaganj, Delhi.
 Paramount Press, The.—19, Fais Bazar, Delhi. Offset Lithographers, Printers, Designers and Book Makers.
 P. B. I. Press.—Original Road, near Multani Tanda, Delhi.
 Pearson Press.—Fais Bazar, Daryaganj, Delhi.
 Pioneer Fine Art Press.—Ajmeri Gate, Delhi.
 P. & O. Printing Works.—Nicholson Road, Delhi.
 Press Art Press.—Kinari Bazar, Chandni Chowk, Delhi.
 Punjabi Press.—Bara Tooti, Sadar Bazar, Delhi.
 Puri Printing Works.—Chawri Bazar, Delhi.
 Raj Hans Press.—Bulki-Mandi, Sadar Bazar, Delhi.
 Ram Krishna Press.—Katra Nahi, Chandni Chowk, Delhi.
 Ranjit Printing Press.—Kutab Road, Delhi.
 Rashtriya Printing Press.—78, G. B. Road, Delhi.
 Rattan Press (Regd.).—Fatehpuri, Delhi.
 Roopani Printing House.—25, Daryaganj, Delhi.
 Rony Printing Press.—Connaught Circus, New Delhi.
 Sachdeva Printing Works.—Chawri Bazar, Delhi.
 Shanti Press.—Naya Bazar, Delhi.
 Sharda Printing Press.—Naya Bazar, Delhi.
 Shri Laxmi Printing Press.—Kochanara Road, Delhi.
 Shri Maha Laxmi Art Press.—Bahadurgarh Road, Delhi.
 Sorindro Press.—Bara Tooti, Sadar Bazar, Delhi.
 Statesman Press.—Connaught Circus, New Delhi.
 Style Printing Works.—Bara Tooti, Sadar Bazar, Delhi.
 Sunder Press.—Gali Lala, Kutab Road, Delhi.
 Swan Press.—Thana Road, Sadar Bazar, Delhi.
 Swatantra Bharat Press.—423, Esplanade Road, Gali Jainian, Delhi.
 Tej Press.—Naya Bazar, Delhi.
 Tropical Press.—Connaught Circus, New Delhi.
 Victoria Cross Press.—3, Daryaganj, Delhi.
 Victoria Electric Press.—Sadar Bazar, Delhi.
 Vijay Press.—Naya Bazar, Delhi.
 Vir Arjun Press.—Naya Bazar, Delhi.

PRINTING PRESS MATERIALS

Balbir Bros., Ltd.—Importers and Merchants of Paper, Stationery, Printing Machinery, Jama Masjid, Delhi.
 J. Mahabir & Co., Ltd.—Jama Masjid, Delhi.

PROVISION MERCHANTS

Army and Navy Stores, Ltd.—Regal Building, Connaught Circus, New Delhi.
 Arora Provision Store.—Paharganj, Main Bazar, New Delhi.
 Bahal Provision Store.—Ram Dawara Road, Paharganj, New Delhi.
 Bhola Ram & Sons.—Connaught Place, New Delhi.
 Capital Stores.—Connaught Place, New Delhi.
 Chopra Modern Stores.—Multani Dhand, Paharganj, New Delhi.
 Empire Stores.—Connaught Place, New Delhi.
 Foster Bell & Company.—P.B. No. 408, New Delhi 1.
 Friends Provision Store.—Paharganj, Main Bazar, New Delhi.
 Gaiindamull Hemraj.—Connaught Place, New Delhi.
 General Stores.—Lady Hardings Road, New Delhi.
 Handa Provision Store.—Main Bazar, Paharganj, New Delhi.
 Himalaya Manufacturing & Sales Co.—Park Mansions, Daryaganj, Delhi.
 Khana Provision Store.—Paharganj, Main Bazar, New Delhi.
 Lakshmi Stores.—Lady Hardings Road, New Delhi.
 Marwar Stores.—Lady Hardings Road, New Delhi.
 Motandas & Co., T.—4E, Thana Sadar Road, Delhi 6.
 Nayyar & Co.—18, Fais Bazar, Daryaganj, Delhi.
 New General Store.—4-G, Connaught Circus, New Delhi.
 Sargoda Provision Store.—Paharganj, Main Bazar, New Delhi.
 S. K. Diwan & Co.—214, Irwin Road, P.B. No. 233, New Delhi 1.
 Wedhara Provision Store.—Paharganj, Main Bazar, New Delhi.

RADIO MFRS., REPAIRERS, DEALERS AND PART SUPPLIERS

Best & Company.—M-53, Connaught Circus, New Delhi.
 BAKHSHI RADIOS.—Authorized National EKCO Radio Dealers, Radio Service Experts, 15, Fais Bazar, Darya Ganj, Delhi 7.
 British Radio Products.—Connaught Place, New Delhi.
 Chicago Telephone & Radio Co., Ltd.—68, Queensway, New Delhi.

Delhi Radio Company.—Chandni Chowk, Delhi.
Eastern Electric and Trading Co.—Connaught Place, New Delhi.
Electronics Ltd.—Connaught Place, New Delhi.
Empire Radios.—Connaught Place, New Delhi.
Empire Trading Co.—Esplanade Road, Delhi.
General Electronic Corporation.—Connaught Place, P. O. Box No. 316, New Delhi.
General Electric Co. of India, Ltd.—Connaught Place, New Delhi.
Howard Radio Co.—Opp. Plaza, New Delhi 6.
Indian Radio Corporation Ltd.—11, Chandni Chowk, Delhi 6.
Indiatone Radios Ltd.—Subsimandi, Delhi.
Jai Hind Radio Co.—Fatehpur, Church Mansion Road, Chandni Chowk, Delhi.
Jay Bay Radio and General Stores.—Lady Hardinge Road, New Delhi.
Modern Music and Electric Stores.—Esplanade Road, Delhi.
National Service Corporation.—Kashmere Gate, Delhi.
New Radio Service.—Baird Road, New Delhi.
Oriental Radio Corporation.—D Block, Connaught Place, P. O. Box No. 371, New Delhi.
Philips Electrical Co. (India), Ltd.—Lakshmi Insurance Building, Delhi. Ajmeri Gate Extension, New Delhi.
Radio Centre.—Opp. Clock Tower, Chandni Chowk, Delhi 6.
Sharma Electric and Radio House.—Kinari Bazar, Delhi.
Sima Trading Corporation (India), Ltd.—Connaught Circus, Delhi.
Standard Radio & Electric Co.—Opp. Scindia House, New Delhi.
Universal Radio Co.—Chandni Chowk, Delhi.
Vijay Electronics Ltd.—13-L, Connaught Circus, New Delhi 1.

READYMADE CLOTH MFRS., & DEALERS

Glamour.—20/F, Connaught Place, New Delhi.
MODERNA FORM BRASSIERE CO.—21-B, Connaught Place, New Delhi. Phone: 40736. Grams: "TREVILLION." Manufacturers of Brassieres, Ladies Swimsuits and other under garments.
Novax.—Cloth Merchants, 12C, Connaught Place, New Delhi.
Roy Brothers (Cheap John) Ltd.—Queensway, New Delhi.
Style.—13-B, Connaught Place, New Delhi. Phone No. 42072.
Trevillion & Clark.—21B, Connaught Place, New Delhi. Phone: 40736.

SANITARY ENGINEERS

D. S. Bawa & Co.—14, Barakhamba Road, New Delhi. Tel. Add.: "BEARAT". Phone: 9935.
Himalaya Trading Co.—Fatehpuri, Delhi 6.
J. B. Norton & Sons Ltd.—Kashmere Gate, Delhi.
John Tinson & Co., Ltd.—54, Queensway, New Delhi.
Mahabir Pershad & Sons.—Importers & Merchants, Chawri Bazar, Delhi 6.
S. D. Marker & Co.—57, Panchkuin Road, New Delhi 2.
Sunderson & Co., S. N.—Naya Bazar, G. B. Road, Delhi.

SAREE MERCHANTS

B. Lillaram & Sons (Delhi).—14-15F, Connaught Place, New Delhi.
Glamour.—20/F, Connaught Place, New Delhi.
Hazratil Sitaram Rastogi.—Near Moti Bazar, Chandni Chowk, Delhi.

SCIENTIFIC INSTRUMENT DEALERS

Capital Scientific Instrument Co., Ltd.—Fais Bazar, Daryaganj, Delhi.
Empire Scientific & Surgical Co.—Naya Bazar, Delhi.
Sindsagar (Scientific) Industries.—Daryaganj, Delhi 7.

SERVICE STATION EQUIPMENT

DELHI GARAGE PRIVATE LTD.—Connaught Circus, New Delhi. Workshop and Garage Equipment including Specialised Lubrication Equipment for Automobiles, Tractors, Earth moving Machinery, etc.—Compressors, High Pressure Car Washers, Tyre Inflation Equipment, Air Motors and Air Towers, Spray Painting Equipment, Workshop and Garage Tools, Battery Chargers, Spark Plug Cleaning & Testing Machines, etc.

SHAWL MERCHANTS

Aminchand Jeevanram.—771, Chandni Chowk, Delhi.
Girwaral Bajinath.—771, Chandni Chowk, Delhi.
Kakamchand Bholanath.—Moti Bazar, Chandni Chowk, Delhi.
Kakamchand & Sons.—771, Chandni Chowk, Delhi.
Kanohiram Keshoram.—771, Chandni Chowk, Delhi.
Khanamamal Banwarilal.—771, Chandni Chowk, Delhi.
Laxmi & Co.—Moti Bazar, Chandni Chowk, Delhi.
Maginchand Shori.—771, Chandni Chowk, Delhi.
Bagopal Krishandev.—Moti Bazar, Chandni Chowk, Delhi.
Ramratan Mehra.—771, Chandni Chowk, Delhi.
Vidyanam Satyanarain.—Moti Bazar, Chandni Chowk, Delhi.

SILK AND COTTON MERCHANTS

Ahuja Stores.—Chandni Chowk, Delhi.
Amritsar Tan-Di-Hatti.—Baird Road, New Delhi.
Beliram Amernath.—Katar Choban, Chandni Chowk, Delhi.
Benares House.—771, Chandni Chowk, Delhi.
Bhagwandas Narainji.—Ashrafi Katra, Chandni Chowk, Delhi.
Bishambarnath Amernath.—Katar Choban, Chandni Chowk, Delhi.
Boota Singh & Sons.—771, Chandni Chowk, Delhi.
Chetram Verma & Co.—Ashrafi Katra, Chandni Chowk, Delhi.
Delhi Silk Store.—Chandni Chowk, Delhi.
Deah Depak.—Chandni Chowk, Delhi.
Edde.—Queensway, 'N' Block, New Delhi.
Gian Singh Bajjit Singh.—Katra Subhash, Chandni Chowk, Delhi.
Glamour.—20/F, Connaught Place, New Delhi.
Gopalrai Ramkumar.—Katar Choban, Chandni Chowk, Delhi.
Jankidas & Co.—23/F, Connaught Place, New Delhi.
J. Kimtrai & Co.—771, Chandni Chowk, Delhi.
Khanna Silk Store.—Chandni Chowk, Delhi.
Kishanchand Chellaram.—Chandni Chowk, Delhi.
Kishandas Khilaram.—Chandni Chowk, Delhi.
Krishin Kumar Gupta & Co.—Katar Ashrafi, Chandni Chowk, Delhi.
Lahore Silk Store.—771, Chandni Chowk, Delhi.
Lairo Brothers.—Chandni Chowk, Delhi.
Lilaram & Sons.—Connaught Place, New Delhi.
Lokenath & Sons.—Connaught Place, New Delhi.
Mangaldas Valjee.—Katar Choban, Chandni Chowk, Delhi.
Moondra Brothers.—Katar Ashrafi, Chandni Chowk, Delhi.
Musdial Batanlal.—Ashrafi Katra, Chandni Chowk, Delhi.
Naraindas Vasdev.—771, Chandni Chowk, Delhi.
Parwar Dwarikadas.—Katar Choban, Chandni Chowk, Delhi.
Pindi Silk Store.—Chandni Chowk, Delhi.
Punjab Silk Store.—Nai Sarak, Delhi.
Rama Brothers.—Chandni Chowk, Delhi.
Ramburam Ramkumar.—Katar Ashrafi, Chandni Chowk, Delhi.
Roshanlal Satyapal.—Ashrafi Katra, Chandni Chowk, Delhi.
Sardar Silk House.—771, Chandni Chowk, Delhi.
Selection House.—Chandni Chowk, Delhi.
Silk Glamour.—771, Chandni Chowk, Delhi.
Sohanlal Prem Narain Jain.—V/57, Chandni Chowk, opp. Central Bank, Delhi.
Sri Ram & Son.—771, Chandni Chowk, Delhi.
Style.—13/E, Connaught Place, New Delhi.
Udmiran Phulchand.—Katar Ashrafi, Chandni Chowk, Delhi.
Vallram & Sons.—Chandni Chowk, Delhi.
Vensimal Tirathdas.—Chandni Chowk, Delhi.

SOAP FACTORIES

Asiatic Soap Works.—Khari Baoli, Delhi.
Bharat Soap Works.—Gali Bahuji, Sadar Bazar, Delhi.
Crown Soap Co.—Chapparwala Kuan, Karolbagh, New Delhi.
Ganga Industries.—Subsimandi, Delhi.
Hindustan Levers Ltd.—D. A. G. Extension, New Delhi.
GODREJ.—Godrej Soaps Private Ltd.—168, Chandni Chowk, Delhi.
Jubilee Soap Works.—Mohalla Nabi Karim, Delhi.
Krishna Soap Factory.—Ahata Kidara, Sadar Bazar, Delhi.
Punjab Soap Factory.—2659, Rasti Punjabi, Subsimandi, Delhi.
Railway Soap Works.—Sadar Bazar, Delhi.

SPORTS GOODS

Anand Industries.—564, Kucha Natwan, Chandni Chowk, Delhi.
Bestways & Co.—Outside Moti Cinema, Chandni Chowk, Delhi.
British Sports Works.—4066, Sir Syed Ahmad Road, behind P.O. Daryaganj, Delhi.
B. T. Shuttle Cock House.—Thana Street, Subsimandi, Delhi.
"Harisons Uppal".—9577, Bhargarh-Roshanara Road, Subsimandi, Delhi.
Job & Co.—Gali Tantawali, Fais Bazar, Daryaganj, Delhi.
Khoola Sports Industries.—28, Barakhamba Road, New Delhi.
Light Way Sports.—52, Municipal Market, Connaught Place, New Delhi.
Mongia Bros.—Opp. Kumar Talkies, Chandni Chowk, Delhi. Phone: 25564.
Norfolk Syndicate (India) Ltd.—Scindia House, Connaught Circus, New Delhi.
Northland (India) Ltd.—(Opposite Scindia House), Connaught Circus, New Delhi.
Ojhasons.—Near Clock Tower, Subsimandi, Delhi.
Prince Rose.—90, Daryaganj, Delhi.
Rattan & Co.—Gali Abdulla Beg, Roshanara Road, Subsimandi, Delhi.
Sahaney Shuttlecocks House.—Ajmal Khan Road, Karol Bagh, Delhi.
S. S. Balbir & Co. (Regd.).—Bhargarh, Roshanara Road, Delhi 6.
United Sports Traders (Delhi) Ltd.—5888, Khaliq Mansi, Thana Street, Subsimandi, Delhi.
Uppal & Co.—Gali Abdulla Beg, Roshanara Road, Subsimandi, Delhi.
Uppal Sports Ltd.—5888, Khaliq Mansi, Thana Street, Subsimandi, Delhi.

STATIONERS

Balbir Bros., Ltd.—Importers and Merchants of Paper, Stationery & Printing Machinery, Jama Masjid, Delhi.
 Jankidas & Co.—23/F, Connaught Place, New Delhi.
 K. N. Davar & Company.—12-L, Connaught Circus, New Delhi.
 New Book Depot.—Connaught Place, New Delhi.
 New Delhi Stationery Mart.—8C, From House, Connaught Place, New Delhi.
 Siddho Mal & Sons, Chawri Bazar, Delhi 6; Phone: 26442; Grams: "TISRU".

STEEL WINDOWS

Balmer, Lawrie & Co., Ltd.—D. A. G. Extension, Delhi.
 GODREJ, Godrej & Boyce Mfg. Co., Private Ltd.—20 Ajmeri Gate Extension, New Delhi.

SURGICAL INSTRUMENTS, REPAIRERS & DEALERS

Fourbhai Ltd.—14, Fais Bazar (Daryaganj), Delhi 7.
 Mittra Pharmacy.—Ballimaran, Chandni Chowk, Delhi 6.

TAILORS AND DRAPERS

Edde.—"N" Block, Piccadilly Buildings, Queensway, New Delhi.
 Jagat Narain Khanna, B.A.—Opp. Scindia House, New Delhi.
 Lal's.—L. Gopi Nath Block, 22-E, Connaught Place, New Delhi.
 Style.—13-E, Connaught Place, New Delhi.
 Trevillion & Clark.—21-B, Connaught Place, New Delhi.

TAILORS AND OUTFITTERS

Agit Tailoring House.—Chooona Mandi, Pahargunj, New Delhi.
 Amrit Tailoring House.—Chooona Mandi, Pahargunj, New Delhi.
 Brig Tailoring House.—Chooona Mandi, Pahargunj, New Delhi.
 Edde Tailors.—Connaught Place, New Delhi.
 Elite Style Tailors.—Connaught Place.
 Jai Bharat.—Pahargunj, Main Bazar, New Delhi.
 Kailash Tailoring Mart.—Behind Imperial Bank, Bismal Colony, Chandni Chowk, Delhi.
 Kapur Bros.—Fais Bazar, Daryaganj, Delhi.
 Kirpa Ram & Bros.—Connaught Place, New Delhi.
 Lachman Das & Sons.—Pahargunj, Main Bazar, New Delhi.
MOHANLAL SONS.—21-B, Connaught Place, New Delhi (Successors to TREVELLION & CLARK). Phone: 40736. Grams: "TREVELLION". Branch: 8-A, Lindsay Street, Calcutta and the Mall, Mussoorie.
 Narankari Cloth and Tailoring House.—Pahargunj, Main Bazar, New Delhi.
 Novex.—12-C, Connaught Place, New Delhi 1.
 Ragho Mull & Sons.—Connaught Circus, Delhi.
 Rajendra & Co.—16-E, Connaught Place, New Delhi.
 Ranken & Co., Ltd.—Scindia House, Delhi.
 Rashtriya Tailoring House.—Aji Building, Chooona Mandi, Pahargunj, New Delhi.
 Rattan Tailors.—Main Bazar, Pahargunj, New Delhi.
 Sohni Lal Prem Narain Jain.—V/67, Chandni Chowk, opp. Central Bank, Delhi.
 Roy Brothers (Cheap John) Ltd.—Queensway, New Delhi.
 Sham Tailoring House.—Chooona Mandi, Pahargunj, New Delhi.
 Sind Sagar Tailors.—Main Bazar, Pahargunj, New Delhi.
 Style.—13-E, Connaught Place, New Delhi.

TEA AND COFFEE MFRS. AND SUPPLIERS

Brooke Bond (India) Ltd.—Kashmere Gate, Delhi.
 Lipton Ltd.—Mori Gate, Delhi.
 Müller & Co.—Connaught Place, Delhi.
 Mukban & Co.—Fountain Area, Chandni Chowk, Delhi.

TIMBER MERCHANTS

Burma Timber Traders.—Original Road, Delhi.
 Delhi Timber Supply Co.—Katra Buriyan, Fatehpur, Chandni Chowk, Delhi.
 Hari Chand Jain & Sons.—8464, Katra Baryan, Delhi 6.
 Sehgal Timber Co., The.—Arora Building, Original Road, Delhi.
 S. Gopal Singh & Sons.—Original Road, Delhi.
 Sita Ram Timber Supply & Wood Works.—Katra Barayam, Delhi 6.
 V. Karnal Singh & Co.—Original Road, Delhi.

TIN BOX MANUFACTURERS

THE METAL BOX COMPANY OF INDIA LIMITED.—Hamilton House, Connaught Place, New Delhi. (For Details of Products Manufactured See page 1000).

TOILETRIES

"BELL" (Depth New General Store).—4G, Connaught Circus, New Delhi.
 GODREJ, Godrej Soaps Private Ltd.—168, Chandni Chowk, Delhi.
 Jankidas & Co.—23/F, Connaught Place, New Delhi.
 New General Store.—4-G, Connaught Circus, New Delhi.

TOOL MERCHANTS

P. SHARAN & CO.—Post Box 1148, Kashmere Gate, Delhi 6. For everything in Automobiles, Garage Tools and Service Equipments. Phones: 25314 and 25448. Grams: "SHARAN".

TOYS AND FANCY GOODS

Art Museum.—1726, Burn Bastion Road, Delhi 6.
 Bestways & Co.—Outside Moti Cinema, Chandni Chowk, Delhi.
 B. L. Hamriehpal.—Lothian Road, Kashmere Gate, Delhi.
 Central Cottage Industries Emporium on Janpath, New Delhi.
 Madan Brothers (Est'd. 1931).—1V/86, Chandni Chowk, near Dariba, Delhi 6.
 Raja Toys Co.—Deputy Gunj, Sadar Bazar, Delhi.
 Sunbeam Cottage Industries.—20, Daryaganj, Delhi.

TRANSPORT COMPANIES

Bharat Transport Co.—Naya Bazar, Delhi.
 First National Transport Co.—Naya Bazar, Delhi.
 Goods Transport Co.—Naya Bazar, Delhi.
 Green Bus Ltd.—Church Mission Road, Delhi.
 Ithad Motor Transport Ltd.—Fatehpuri, Delhi.
 Jaggi Oberoi Transport Co.—Naya Bazar, Delhi.
 Jai Motor Transport Co.—Naya Bazar, Delhi.
 Lyaipur Doabi Transport Co.—Naya Bazar, Delhi.
 New Golden Transport Co. Ltd.—Roshanara Road, Delhi.
 New India Transport Co. Ltd.—Roshanara Road, Delhi.
 Prem Nath Transport Co. Ltd.—Connaught Circus, Delhi.
 Ravi Goods Transport Co.—Naya Bazar, Delhi.
 Royal Goods Transport Co.—Naya Bazar, Delhi.
 Simla Hills Transport & Service Ltd.—Connaught Circus, Delhi.
 Vir Bharat Motor Transport Co.—Naya Bazar, Delhi.

TRAVEL AGENTS

ORIENT EXPRESS CO. PRIVATE LTD., THE.—70, Janpath, New Delhi 1. Phones: 40156 & 44014. Grams: "OREXPRESO."

TRUNK MFRS. AND DEALERS

Bharat Hardware Mfg. Co.—Naya Bazar, G. B. Road, Delhi.
 Dayal Trunk Factory.—Naya Bazar, G. B. Road, Delhi.
 General Trunk Manufacturers.—Naya Bazar, G. B. Road, Delhi.
 Harnamdas Gumanilal.—Naya Bazar, G. B. Road, Delhi.
 Isardas Tillaram (of Multan).—Naya Bazar, G. B. Road, Delhi.
 Kartarsing & Sons, S. (of Rawalpindi).—Naya Bazar, G. B. Road, Delhi.
 Khalsa Trunk Factory.—Naya Bazar, G. B. Road, Delhi.
 Lajpatral (Lahorewala).—Naya Bazar, G. B. Road, Delhi.
 L. Chanuram Vasirohand.—Naya Bazar, G. B. Road, Delhi.
 Lundaram Mulchand.—Naya Bazar, G. B. Road, Delhi.
 National Trunk Factory.—Naya Bazar, G. B. Road, Delhi.
 Quetta Steel Trunk Factory.—Naya Bazar, G. B. Road, Delhi.
 Ramlal Banarilal.—Naya Bazar, G. B. Road, Delhi.
 Sardar Fateh Singh Harnamding (Lyalpurwala).—Naya Bazar, G. B. Road, Delhi.
 Sardar Gulab Singh Ramsingh.—Naya Bazar, G. B. Road, Delhi.
 Seth Gandaram Banarilal.—Naya Bazar, G. B. Road, Delhi.
 Sham Singh (of Jhelum).—Naya Bazar, G. B. Road, Delhi.
 Western Vijay Industries Co.-op. Society Ltd.—Naya Bazar, G. B. Road, Delhi.

TYPEWRITERS

Allied Typewriters.—F-42, Connaught Place, New Delhi.
 Associated Typewriters.—1, Tindal House, D.A.G. Extension, New Delhi.
 Continental Commercial Co. Ltd.—M-42, Connaught Circus, New Delhi.
 GODREJ, Godrej & Boyce Mfg. Co., Private Ltd.—20, Ajmeri Gate Extension, New Delhi.
 India Typewriting Co.—1804, Chandni Chowk, Delhi 6.
 Pioneer Typewriter Co.—Hotel India Bldg., Queen's Garden, Delhi 6.
 Remington Rand of India Ltd.—D. A. G. Extension, New Delhi.
 Smith & Co.—276, Irwin Road, New Delhi.

WASHING AND DYEING COMPANIES

Eclipse Dry Cleaning Co.—Next to Spencers, New Delhi.
 Friends Dyers and Dry Cleaners.—Pahargunj, Main Bazar, New Delhi.
 Kienwel.—Connaught Circus, New Delhi.
 Multan Fancy Laundry (of Multan).—Lahori Gate, G. B. Road, Delhi.
 Novex Dry Cleaners, Dyers and Carpet Cleaners.—12C, Connaught Place, New Delhi.
 Parla Laundry.—Multani Dhand, Pahargunj, New Delhi.
 Snow White.—Connaught Place, New Delhi.
 Victoria Dry Cleaners.—Punchquin Road, Regal Building, New Delhi.
 Whiteways, The.—Fais Bazar, Daryaganj, Delhi.
 Young Dyeing Co.—Punchquin Road, Regal Building, New Delhi.

WATCHES AND CLOCKS DEALERS

American Watch Co.—Kashmere Gate, Delhi.
 Belkshindas & Sons.—Chandni Chowk, Delhi.
 British Watch Agency.—Fatehpur, Church Mansion, Chandni Chowk, Delhi.
 Buleshiram & Sons.—Chandni Chowk, Delhi.
 English Watch Co. (India), The.—Bhagirath Palace, Chandni Chowk, Delhi.
 Imperial Watch House.—771, Chandni Chowk, Delhi.
 Kapadia & Co.—Connaught Place, New Delhi.
 Krishna Watch Co.—Pahargunj, Main Bazar, New Delhi.
 Lakshminarain & Co.—Chandni Chowk, Delhi.
 New Friend & Co. Ltd.—625, Chandni Chowk, Post Box 1340, Delhi 6.
 Premier Watch Co.—Chandni Chowk, Delhi.
 Puranchand & Co.—Chandni Chowk, Delhi.
 Pyralall Watch Co.—Chandni Chowk, Delhi.
 S. B. Electric Company.—Bismal Colony, Behind State Bank of India, Chandni Chowk, Delhi 6.
 Singer Watch Co.—Chandni Chowk, Delhi.
 Singha Watch Co.—Pahargunj, Main Bazar, New Delhi.
 Swastik Watch Co.—Chandni Chowk, Delhi.
 Union Watch Co.—Chandni Chowk, Delhi.

WINE & SPIRIT MERCHANTS

Empire Stores.—Connaught Place, New Delhi.
 J. Ditch & Co.—Baird Road, New Delhi.

MOHAN BROTHERS.—3, Sedar Thana Road, Delhi 6. Offices at Bombay, Calcutta, Jodhpur and Hyderabad. Also Suppliers of Liquor, Provisions and Cigarettes to Foreign Ships and Embassies in India.

Motandas & Co., T.—4E, Thana Sedar Road, Delhi 6. Head Office: Bombay.
 Phipson & Co. Ltd.—Connaught Circus, New Delhi.
 Spencer & Co. Ltd.—Connaught Circus, New Delhi.

WOOLLEN PIECE-GOODS

Amarnath Talwar.—Katra Subhash, Chandni Chowk, Delhi.
 Glamour.—20/F, Connaught Place, New Delhi.
 Guiraj Babulal.—Himal Katra, Chandni Chowk, Delhi.
 Jankidas & Co.—23/F, Connaught Place, New Delhi.
 Joti Persad Bhashmdas.—Katar Choban, Chandni Chowk, Delhi.
 Kashmir Svadeshi Store.—771, Chandni Chowk, Delhi.
 Kandanal Girdharilal.—Katar Choban, Chandni Chowk, Delhi.
 Lakshmichand Matwalchand.—Katra Subhash, Chandni Chowk, Delhi.
 Lalimil Woollen Mills Depot.—Nai Sarak, Delhi.
 Mamman Lal.—Pahargunj, Main Bazar, New Delhi.
 Novex.—Cloth Merchants, 120, Connaught Place, New Delhi 1.
 Ragubhai Sharan Rakess Kumar.—771, Chandni Chowk, Delhi.
 Royal Stores.—Lady Hardinge Road, New Delhi.
 S. Bahadur Bros.—771, Chandni Chowk, Delhi.
 Sri Kanth Banwari Lal & Co.—Dua Bldg., 2160, Bahadur Garh Road, Delhi 6.
 Sohanlal Prem Narain Jain.—V/57, Chandni Chowk, opp. Central Bank, Delhi.
 Style.—13-F, Connaught Place, New Delhi.

HIMACHAL PRADESH

Area: 10,904 sq. miles; Population: 11,00,466;
 Capital: Simla: Strength of Territorial Council: 43 (41 elected and 2 nominated).

The centrally administered territory of Himachal Pradesh comprises 22 former Punjab Hill States and their 9 tributaries. The 22 States are Baghal, Baghat, Balran, Bilaspur, Bushahr, Bhaji, Bija, Chamba, Dinkoti, Dhani, Jubbil, Keonthal, Kumarsain, Kunihar, Kuthar, Mahlog, Mandi, Mangal, Sangri, Sirmur, Suket and Tharoch.

The 9 tributaries are Delath, Dhadi, Ghund, Khanet, Koti, Madhan, Ratesh, Rawingari and Theog.

The State came into being on April 15, 1948; the consolidation was achieved with the full agreement and support of the Rulers and the people.

Bilaspur was merged into Himachal Pradesh on July 1, 1954.

Himachal Pradesh lies between North Latitude 30° 30' and 33° 10' and East Longitude 75° 55' and 79° 50'. It is bounded on the north by the Jammu and Kashmir State, on the south by Tehri-Garhwal and Dehra Dun Districts of Uttar Pradesh and the Ambala District of Punjab; on the west by Ambala, Hoshiarpur and Kangra. On the east the boundaries are undefined.

The Territory is divided into five administrative districts, Mahasu, Sirmur, Mandi, Chamba and Bilaspur.

Mahasu District has a population of (1951) 330,614 (Rural 322,616; Urban 7,998) and is divided into the following tehsils: Rampur, Rohru, Chini, Jubbil, Chopal, Theog, Arki, Solan and Kasumpti and the sub-Tehsils of

Kumarsain, Suni and Kotkhal. 312,761 persons out of the total population are agriculturists.

Sirmur District has a population of (1951) 166,077 (Rural 155,700; Urban 10,377) and is divided into four Tehsils, Nahau, Pachhad, Rainka and Paonta. 147,144 persons out of the total population depend upon agriculture.

Mandi District has a population of (1951) 310,626 (Rural 294,458; Urban 16,168) and contains the Tehsils of Mandi Sedar, Karsog, Sundernagar, Jogindernagar, Sarkaghat and Chachlot. 286,763 persons out of the total population depend upon agriculture.

Chamba District has a population of (1951) 176,050 (Rural 169,192; Urban 6,858) and is divided into the Tehsils of Chamba, Churah and Bhattiyat and the Sub-tehsils of Bharmaur and Pangl. 167,570 persons are agriculturists.

Bilaspur District has a population of (1951) 126,099 (Rural 122,354; Urban 3,745). It lies on both the banks of the Sutlej River and is divided into two tehsils Bilaspur and Ghumarwin. Agriculture is the main occupation of the people, 114,398 persons being agriculturists.

ECONOMY

The main agricultural wealth of the Territory consists in potatoes and fruits such as apple, peach, almond, nuts, pomegranate.

The climatic conditions in this Territory are suitable for the growing of a large variety of fruits. Citrus and other sub-tropical fruits like mango, guava, loquat, pomegranate are grown in the valleys while stone fruits are grown in low and mid-hills. Apples, pears are grown in the cooler regions. The superior varieties of apples which were restricted to a few progressive

areas like Kotgarh and Kotkhal are now grown extensively in several other suitable places. At present about 50,000 maunds of apples are exported to various parts of India. With the new plantation coming up, the production of fruit will increase considerably.

Salt is another important item; while forests yield timber, fire-wood and charcoal. Handicrafts which include Pashmina shawls, wool of fine quality, resin, herbs, musk and skins are a third source of income.

Himachal Pradesh forests supply the largest quantities of coniferous timber in Northern India. They are the main source of revenue in the Territory, the estimated revenue during 1957-58 being Rs. 135 lakhs. The forests are also useful in ensuring the safety of the catchment areas of the Jumna, Sutlej, Beas, Ravi and Chenab rivers. On the protection of these catchment areas depends the steady and constant flow of water in these rivers, and the success of irrigation and engineering works in the plains. For purposes of forest utilization the Territory has been divided into twelve territorial forest divisions, viz., Chamba, Churaha, Mandi, Bilaspur, Suket, Jubbil, Simla, Solan, Nahau, Rajgarh, Upper and Lower Bushahr.

Seed potato is the chief cash crop. The Territory has established itself as a vital source of potatoes, especially seed potatoes, for the plains of India. It exports nearly 10 lakh maunds of potatoes annually out of which over six lakh maunds are directly utilised as seed potatoes.

There is a resin and turpentine factory at Nahau.

Five year plan investment for 1958-59: Rs. 5-8 crores. The total investment for the whole plan: Rs. 14-72 crores.

JAMMU AND KASHMIR STATE

Area: 85,861 sq. miles; Population: 4.41 millions (1951); Capital: Srinagar.

Official language: Urdu; Regional languages: Kashmiri, Dogri, Balti, Dardi, Punjabi, Fahari, Ladakhi. There are 33 local bodies, three municipalities, 25 town area committees and four notified area committees in the State.

The State has now a Legislative Assembly (100 including 25 for occupied areas) and a Legislative Council (34).

For administrative purposes, the State is divided into two provinces: Kashmir (including the Frontier District) and Jammu.

Districts: in Kashmir Province: Srinagar, Baramulla, Anantnag and the Frontier District of Ladakh; in Jammu Province: Jammu, Kathua, Udhampur and Doda.

Names of districts showing within brackets the names of tehsils and the population of each tehsil:

Kashmir Province: Srinagar (Srinagar City 230,000; Khas 123,000; Badgam 181,000; Baramulla (Baramulla 141,000; Sopore 165,000; Handwara 184,000; Uri and Karnah 53,000); Anantnag (Anantnag 231,000; Kulgam 193,000; Pulwama 173,000); Ladakh (Ladakh 37,000; Kargil 43,000).

Jammu Province: Jammu (Jammu including Jammu City 180,000; Samba 68,000; Akhnor 81,000; Ranbithangpora 87,000); Kathua (Kathua 49,000; Jamnigraha 41,000; Basoli 75,000); Udhampur (Udhampur 50,000; Ramnagar 63,000; Reasi 97,000); Doda (Kishtwar 65,000; Bhaderwah 59,000; Ramban 92,000).

The Jammu and Kashmir State constituting the extreme western section of the Himalayas, lies between 32°17' and 36°58' north latitude, and 78°23' and 80°30' east longitude.

The density of population is 51 per sq. mile.

Non-Muslims form about 23 per cent of the total population—a percentage slightly higher than the one which Muslims formed in India before the partition. Culturally both Muslims and Hindus belong to the same group. Consequently, they speak the same language and have common customs and conventions, and sometimes even places of common worship.

About 10.3 per cent of the total population is urban. There are 2 cities, 37 towns and 3,740 villages in the whole State.

A double tube 1½ miles long low level tunnel, the Jankhir Tunnel, was bored through the mountain of Banihal and traffic has been allowed through one of its tubes from 1957. The tunnel has provided an all weather link between Kashmir Valley and the outside world.

AGRICULTURE

Kashmir State has a delightful climate, though winter months are very cold. The maximum recorded temperature of the Kashmir Valley is 99.3 degrees and the minimum 11°. In Jammu the temperature in summer goes upto 115°, or sometimes even higher, but comes down to 30° and even to 20° during winter in some parts of the State. The average rainfall for the whole of the State is 25.45".

Forests hold an important place in the economy of the State. They yield fine wood of many varieties, medicinal herbs and also provide game and fodder for the cattle. The forest operations do not extend to the Frontier Province which forms three-fourths of the total area of the State. In the two remaining provinces, 11,058 sq. miles or about 50 per cent of their total areas constitute forest land.

The oldest forest industry is that of rosin and turpentine. In 1955-56, 52,927 maunds of rosin and 108,875 gallons of turpentine were manufactured in the factory and the income from sales amounted to about Rs. 19 lakhs.

Agriculture is the main occupation of the people. But the soil is not very fertile. Only 3.6 per cent of the total area is cultivable, and the remaining portion is full of mountains and deserts. The total amount of land actually

under cultivation in the State is 2,000,767 acres. The main crops grown are rice and maize, and in Jammu wheat and maize. The State on the whole is deficit with regard to food supply.

The total area of the State in acres is 54 million. Out of this the cultivable area today would be of the order of 2.1 million acres. The area under irrigation in 1955 was 744,000 acres.

With the completion of several new irrigation canals and lift irrigation projects 47,325 acres of land were brought under cultivation. In the Second Plan an additional acreage of 1.44 lakh acres is expected to come under cultivation and food production to increase by 15 lakh maunds.

The Pratap Canal which would irrigate 20,000 acres was expected to be completed in 1958-59.

The State has three development blocks under the Community Projects programme, one at Badgam in Kashmir, one at Manesar in Jammu and the third in Ladakh where it covers the whole district. The three blocks cover about 579 villages and a population of 1.75 lakhs. The projects cost Rs. 20 lakhs (Badgam), Rs. 20 lakhs (Manesar), Rs. 10 lakhs (Ladakh).

There are also ten National Extension Blocks.

By the end of the Second Plan the entire State will have been covered by NES Blocks—37 in number.

The Government passed the 'Big Landed Estates Abolition Act' in 1951, by virtue of which the right of ownership held by a landlord owning more than 22½ acres was extinguished without compensation and was thereafter vested in tillers of such lands. In pursuance of this Act, the Government distributed the land held by big landlords (as defined in the Act) among the tillers and thus landlordism, to a large extent, was abolished in the State. 8,989 persons held more than 22½ acres each and together accounted for 900,000 acres. The area of land from which expropriation took place without compensation was 4.5 lakh acres. About 2.3 lakh acres of land were transferred in ownership right to about 3 lakh tillers with more than 7 lakh dependents. Land vested in the State amounted to 2.2 lakh acres.

The Government has started a new land settlement drive beginning with Baramulla and Poonch districts.

Legislation for abolition of intermediary interests in land held by occupancy tenants and inferior owners is under consideration of the State Government.

Tenants holding lands at the commencement of the Tenancy (Amendment) Act of 1955 were declared protected tenants. Landlords have a right to resume land for personal cultivation from them to the extent of two acres of wet land or four acres of dry land in Kashmir Province and four acres of wet land or six acres of dry land in Jammu Province. However, where the holding of a landlord exceeds four acres of wet land or six acres of dry land in Kashmir Province and six acres of wet land or eight acres of dry land in Jammu Province, the protected tenant will have to be left with a minimum area of two to six acres.

The maximum rent payable by tenants owning more than 12½ acres is not to exceed one-fourth of the gross produce for wet lands and one-third for dry lands. In the case of other tenants it is not to exceed half of the gross produce. Ceiling on holdings has been fixed at 22½ acres. This limit applies to lands owned by proprietors.

The Government propose to import only nine lakh maunds of foodgrains (rice five lakh maunds and wheat four lakh maunds) during the year 1958 Oct. to 1959 Oct.

INDUSTRY, MINERALS

Woolen textile manufacturing is the biggest single industry in the State. It gives employment to about 800,000 people, including both part-time and whole-time workers. Kashmir

woolens, such as shawls, carpets, namdas and gabbas have a world-wide popularity. During the 18th and 19th centuries especially Kashmir shawls had a wide demand in England, and, as it was expressed at the time, 'adorned the proudest beauties in Europe and the rest of the world.'

Next in importance comes the silk industry. Kashmir siltures are the largest in the world for a single unit of production, and produce one of the finest quality silks.

Silk worm rearers number about 60,000. The total number of persons employed would be over 100,000 and the number dependent on the silk industry would be about a million. The industry is run by a Government department.

A joinery mill has been set up in Kashmir. The factory is a unique venture, as very few such industries exist outside Europe and North America. The factory has an installed capacity for the manufacture of 36,000 doors and 36,000 windows which on an average should mean a turn-over of goods worth Rs. 35 lakhs per year.

Two other factories set up are a tannery and a carpet factory.

Papier-mache, silver-ware, and wood-carving are among the other minor industries of the State.

The industrial co-operatives include carpet weaving, pashmina weaving and embroidery, chain stitch weaving, tapestry weaving, wood carving and papier-mache. The total value of the goods sold by the Induscos in one year is about Rs. 3 lakhs.

Production centres of calico printing, khadi, wooden articles, hand-made paper etc. have been recently started at various places in both the Provinces.

The production of some industries is given below: Government woollen mills (1955-57): Yarn, 3,84,945 lbs.; cloth, 2,03,892 yds.; total sales: Rs. 12,50,242.

Sericulture (Government) (1954-55): Raw silk, 3,45,340 lbs.; bye-products, 1,27,898 lbs.

Drug Research Laboratory (1955-56): Spirituous, non-spirituous ampoules, tablets, etc., value Rs. 6,84,294.

Government Silk Weaving Factory (1955-56): Georgetown crepe, 3,29,870 yds., value Rs. 14,84,415.

Government Joinery Mills (1955-56): Windows, doors, flooring, ceiling, sales Rs. 3 lakhs.

Match Factory, Baramulla (1954-55): Gross boxes of matches 92,265, value Rs. 5,88,189-6-0.

Tanneries (Government) (1956-57): Leather goods, 1,200 mds. of tanned hides, 2,000 pairs of shoes; sales Rs. 1,10,200.

The total no. of factories in the State: 47. Total labour: 5,060.

Total no. of workers in cottage industries: about 14,500.

Woolen manufactures, silks, forest products such as timber, herbs, some chemicals, furs and skins, and fruit and vegetables are the main items of export, whereas foodstuffs, textiles, sugar and tea, spices and hardware form the main imports into the State.

The following is a list of the minerals found in the State: Coal, Lignite (possibilities of petroleum), Bauxite, Iron ore, Copper ore, Lead, Zinc, Nickel ore, Manganese, Gold, Arsenic, Chromite, Ochre, Gypsum, Graphite, Kaoline, Bentonite, Fuller's Earth, Marble, Slate, Steatite, Turpentine, Barytes, Corundum (Sapphire and Ruby), Beryl and Aquamarine and Tourmaline. There are other minerals too, suitable for glass manufacture. But it is not known, whether the exploitation of all these minerals is an economic proposition. Coal, Lignite and Iron ore are supposed to be in existence in fairly large quantities.

Tertiary coal deposits in Jammu occupy an important position in the economy of north India. The two fields are Jangal Gali about 40 miles from Jammu and Kalakot about 76 miles from Jammu.

Soap stone, barytes and china clay are worked by the Mining Department of the State and products sent to the Government Paint and Mineral Factory at Jammu. The total production during 1956 was 100 tons. Number of workers, 15.

The sapphire mines are about 200 miles from Jammu and are not worked at present.

Gypsum deposits occur in areas 75 to 100 miles from Jammu. A Plaster of Paris factory is being established by private business men.

The bentonite deposits which occur about 40 miles from Jammu are not worked at present. In the past a few hundred tons were raised every year. There are plans for re-starting the mines.

Power Schemes: During the First Five-Year Plan, the Rs. 2.30 crore Hindh Hydro-electric Project was completed and the production of electric power increased from 5,110 kWs. to 11,461 kWs. Besides, 1,500 kWs. were purchased from the Punjab Government. In the Second Five-Year Plan 17,385 additional kWs. of energy will be generated. Out of this about 16,000 kWs. will be utilized in industry.

The new schemes undertaken in the Second Five Year Plan are Ganderbal Power House Extension of 9,000 kW and Extension to Mohora Power Station, 9,000 kW. Both are expected to be completed by 1960-61.

The purchase of power from Jogindernagar, Punjab has further been augmented by 2,000 kWs. more. This has improved the power position in Jammu. Besides electrification of Samba, Kathua and Aknur, 67 rural areas have been supplied with electric energy. Power has also been supplied to about two dozen tube-wells and dug wells.

Tourism in the State: Tourist traffic is one of the main sources of income both to the State and the people.

During 1956-57, the number of tourists who visited the State touched the record figure of 70,000. This is more than a four-fold increase in the number of visitors who came to the State in 1947.

Great efforts have been made by the State to develop this traffic to the maximum possible extent and attract more and more tourists to this place.

To further stimulate tourist traffic, a Reception Hall at Srinagar and a number of Dak Bungalows at various places have been built, and more beauty spots are being opened up.

The new Banihal Tunnel which has been thrown open to traffic, will, besides making a profound influence on the economy and social life of Kashmir, encourage tourist traffic in the winter also as the road will no longer be snow-bound.

The permit system for travel between India and Pakistan was abolished on 15th April 1959.

EDUCATION

Education was declared free throughout the State from Primary to the University stage, in the year 1953. This has resulted in an increase of about 70 per cent in the budget for education. Over 1.5 lakh students have benefited by this reform.

During the Plan period education in the Jammu and Kashmir State progressed by big strides and the whole structure and content of the primary and secondary education was re-organised. The following table will show the number of institutions:

	1957-58	1958-59
Primary schools ..	2,270	2,426
Secondary schools ..	306	366
Colleges ..	12	12

Against the total number of scholars attending educational institutions in the year 1951-52 which was 1,32,000, the number went up to 2,00,000 in 1958. The status of a number of institutions was raised. In 1957 a Polytechnic was also opened at Srinagar.

The target for the Second Five-Year Plan would be the opening of 1,500 basic activity schools, conversion of 40 high schools into higher secondary schools and 200 primary schools into senior basic schools, establishing of a separate training college for women and opening of six post-matric training schools. The largest number of the existing primary schools have to be converted into the basic pattern and the present teachers are to be refreshed with the modern technique of education.

Another target is the expansion of the inspectional agency and to remodel collegiate education on the pattern adopted by the Government of India and to strengthen the staff of the primary and secondary schools and colleges. The Government has sanctioned a construction programme for providing sufficient accommodation in schools, costing about Rs. 40 lakhs.

In 1958 two industrial training institutes one at Jammu and the other at Srinagar, were opened. The polytechnic has been reorganised. The result of the Educational Survey of the State, districtwise and statewide is expected to be ready shortly. Great progress has been made in the field of physical education like games and inter-school competitions in sports. Scout-movement has been revived in the State.

(For detailed statistical information on education in the State, see tables under the main article on Education).

ROAD DEVELOPMENT

In respect of means of communication the State was very backward having a very poor road system. Before the Plan was taken in hand there were 2.5 miles of road per 100 sq. miles and only one mile of road per 2,000 of population. There were only 1,000 miles of motor road, 427 miles of jeep track and 2,400 miles of bridle path.

During the Plan Period, 425 miles of new road were constructed, 482 miles of existing roads improved and over 20 major bridges of 7,000 ft. aggregate length constructed.

In the Second Plan the target set is construction and development of 820 miles and upgrading of 740 miles of roads and the building of 19 major bridges.

Jawahar Tunnel: More than one and half miles in length and located at 7,250 feet above sea level, the Jawahar Tunnel, is actually two tunnels in one. When complete, each of its tubes will carry traffic in one direction. For this purpose each tube will have ten feet and six inches wide concrete road-way, a four feet wide footpath on one side and two feet wide kerb on the other.

The tunnel is designed to carry 250 vehicles per hour.

The western tube of Jawahar Tunnel was to be permanently thrown open to traffic from Sunday, December 21, 1958. The first batch of vehicles was expected to enter the tube from the south at 4.00 p.m. on that day.

The opening of the western tube to traffic permanently would provide an all-weather artery between the two wings of Jammu-Kashmir State and between the Valley of Kashmir and the rest of India. The Tunnel will bring Jammu and Srinagar closer by 18 miles.

PUBLIC HEALTH

There are two central hospitals at Srinagar (450 beds) and Jammu (250 beds), two tuberculosis hospitals at Srinagar (100 beds) and Jammu (70 beds).

Number of Sanatoria: 2. (One at Tangmarg with 63 beds (35 paid) and one at Balote with 30 free beds).

No. of District Hospitals: 7. Each has a bed strength of 30 with arrangements for anti-rabic treatment. Pathological, gynaecological, surgical, laboratory and dental treatment is also provided.

No. of dispensaries: 445 (Allopathic); 84 (Ayurvedic); 69 (Unani).

One more T.B. clinic has been opened in Srinagar.

There are two central laboratories attached to the two central hospitals.

Mass campaigns against malaria, typhus, tuberculosis and venereal diseases continue successfully in various parts of the State. The B.C.G. campaign has almost completed the first round except in a few tahsils which will be covered in the remaining two years.

A medical registration council, pharmacy registration tribunal and a drug advisory board have been set up in the State. A State medical faculty has been formed for the control and conduct of para medical examination.

There is a lady visitors' training school for training 15 candidates every year.

There are two ancillary medical training schools one in Srinagar and the other in Jammu attached to the two central hospitals, where nurses, mid-wives, sanitary inspectors and laboratory, X-ray and dental technicians are trained.

There is a mental hospital with modern equipment and 50 beds at Srinagar.

For the treatment of the local population 1,000 first aid boxes have been distributed through the N.E.S. department in several parts of the State.

There are two mobile medical units in the State one for eye diseases and the other for general surgical treatment. Two family planning centres have been opened.

No. of maternity and child welfare centres: One.

There are 10 health centres in the State, where X-ray, dental and surgical treatment is provided and steps have been taken to provide anti-rabic treatment.

CO-OPERATION

The figures relate to 1957-58:

The total no. of societies: 1,589; no. of members: 217,830; working capital: Rs. 297 lakhs.

The table below gives the details:

Name	Number of Societies	Members	Working Capital
Agricultural Credit (Ltd.) Societies (Multi-purpose)	477	174,809	Rs. 82,69,608
Agricultural Credit (un-Ltd.) Societies ..	878	15,378	6,27,814
Non-Agricultural Credit Societies (Urban) ..	88	2,472	7,67,354
Central Co-op. Banks ..	9	1,806	68,23,480
State Co-op. Banks ..	1	880	69,87,779
Fishermen's Co-op. Societies ..	1	192	5,133
Milk Society ..	1	163	35,552
Provincial Supply & Marketing Societies ..	2	567	24,15,710
Marketing Societies, Stores & Unions ..	62	16,278	29,83,825
Induscos ..	12	1,579	5,04,761
Oil Ghani Processing Societies ..	1	21	325
Transport Workers' Societies ..	3	885	1,43,582
Kashmir Arts Co-operative ..	1	6	2,35,819
Weavers' Societies ..	52	1,127	71,810
Forest Labour Co-operative Societies ..	1	768	3,23,784
Industrial Forest Labour Societies ..	1	18	9,005
Farming Societies ..	4	582	11,453
Jammu and Kashmir Union ..	1	299	5,142

Deposits in Central Banks: Rs. 13,40,431; Share Capital: Rs. 3,75,548; Other funds and reserve: Rs. 4,80,445.

Deposits in J. & K. State Co-operative Bank: Rs. 6,98,419; Share Capital: Rs. 15,42,800; Reserve and other funds: Rs. 2,98,250.

About 40 per cent of the families are in the co-operative fold.

BUDGET ESTIMATES FOR 1958-59

(See under 'Late Particulars')

HOUSING

A Housing Board under the Chairmanship of the Prime Minister, Jammu and Kashmir deals with housing schemes in the State.

A sum of Rs. 95,00,000 has been allocated by the Government of India for the Low Income Group Housing and Industrial Housing Schemes under the Second Five-Year Plan.

One hundred and fifty quarters have been built in the newly established townships of Gandhinagar, Jammu (104 quarters), and Jawaharnagar, Srinagar (50 quarters), on Government account. About 150 houses have been constructed for the low-income group in both the townships.

The cost of the building of each class of house is about Rs. 4,500, 3,500, 3,000 and 2,500 respectively as specified for the different classes of loanees.

COMMUNITY DEVELOPMENT

The amount given by the Centre to the State during 1958-59 upto Sept. 1958 under the Community Projects and N.E.S. schemes totalled Rs. 27.54 lakhs including Rs. 12.57 lakhs as loan and Rs. 14.97 lakhs as grant.

The distinction between N.E.S. and Community Development Blocks has been abolished with effect from April 1, 1958.

FIVE-YEAR PLANS

The Government of the State revised the First Five-Year Plan to meet the genuine requirements and needs of the people. The provision for the Plan was raised from Rs. 700.00 lakhs to Rs. 973.21 lakhs in the Central Sector and from Rs. 300.00 lakhs to Rs. 300.94 lakhs in the case of the State Sector.

The State's Second Five Year Plan is estimated to involve a total outlay of Rs. 3,302.07 lakhs as against Rs. 1,274.2 lakhs of the First Five-Year Plan. The Plan gives high precedence to the development of agriculture and industry and the expansion of educational and medical facilities. It is estimated that employment opportunities to the tune of 14.85 lakh man-months will be created during the Plan-Period.

POLITICAL DEVELOPMENTS

The Jammu and Kashmir State acceded to India on October 26, 1947. The offer of accession was made by the Maharaja supported by the leadership of the biggest political party of the State, the National Conference. The Maharaja invited Sheikh Mohammad Abdullah, President of the All Jammu and Kashmir National Conference, to form an interim Government, and to carry on the administration of the State. The interim Government later changed into a full-fledged Cabinet, with Sheikh Abdullah as the first popular Prime Minister.

The Maharaja handed over power to his 21-year-old son, Yuvraj Karan Singh, who formally took over as Regent on June 20, 1949.

For the first time in history, the people of Kashmir elected a sovereign Constituent Assembly which met in Srinagar in October-November 1951.

On November 20, 1951 was promulgated the Jammu and Kashmir Constitution (Amendment) Act which amended 42 Sections of 78 clauses of the old constitution. By this the State attained complete and unfettered responsible democratic government.

The new enactment transferred power from the ruler to the popular Government and gave legal recognition to the principle of full, responsible Government which, in theory only, was enforced by the Maharaja's proclamation of March 6, 1948.

The Sadar-i-Riyasat dismissed the cabinet headed by Sheikh Abdullah on August 9, 1953. The reasons for this action were that the "Cabinet was lacking in unity of purpose and action and had lost the confidence of the people; the economic distress of the people had considerably increased which needed prompt and serious attention; the process of honest and efficient administration had become impracticable; and the functioning of the Cabinet on the basis of joint responsibility had become impossible and the resultant conflicts had gravely jeopardised the unity, prosperity and stability of the State".

Sheikh Abdullah is at present standing trial in the Court of Special Magistrate in Jammu under section 121-A of the R.P.C. for "conspiracy to overthrow the Government by use of criminal force".

It is estimated that in 1957 and 1958 there were 91 bomb explosions through sabotage. Twenty-two arrests (including 9 Pakistan security personnel and 10 enemy agents) were made.

CONSTITUTION

A Constitution was finally approved and adopted unanimously on November 17. It came into effect on January 26, 1957.

The Constitution declares the State of Jammu and Kashmir to be "an integral part of the Union of India."

The territory of the State will comprise all the territories which on August 15, 1947, were under the sovereignty or suzerainty of the Ruler of the State.

The executive and legislative power of the State will extend to all matters except those with respect to which Parliament has powers to make laws for the State under the provisions of the Constitution of India.

The Directive Principles of the Constitution lay down that the prime object of the State should be the promotion of the welfare of the mass of the people by establishing and preserving a socialist order of society wherein all exploitation of man has been abolished and wherein justice—social, economic and political—informs all the institutions of national life.

Every person who is, or is deemed to be, a citizen of India shall be a permanent resident of the State, if on the 14th of May, 1954 he was a State subject of Class I or of Class II or having lawfully acquired immovable property in the State, he has been ordinarily resident in the State for not less than 10 years prior to that date. Any person who, before the fourteenth day of May, 1954, was a State Subject of Class I or of Class II and who, having migrated after the first day of March, 1947, to the territory now included in Pakistan, returns to the State under a permit for re-settlement in the State or for permanent return issued by or under the authority or any law made by the State Legislature will on such return be a permanent resident of the State. The permanent residents will have all the rights guaranteed to them under the Constitution of India.

The Constitution lays down that the Executive of the State should consist of the Sadar-i-Riyasat who will be elected by a majority of the total membership of the Legislative Assembly. He will hold office during the pleasure of the President. The executive power of the

State will be vested in him and shall be exercised by him. The Sadar-i-Riyasat will hold office for a term of five years.

The Council of Ministers will be collectively responsible to the Legislative Assembly. The Prime Minister will be the head of the Council of Ministers.

The Legislature of the State will consist of the Sadar-i-Riyasat and two Houses, to be known respectively as the Legislative Assembly and the Legislative Council. The Legislative Assembly will consist of one hundred members chosen by direct election from territorial constituencies in the State.

Twenty-five seats in the Legislative Assembly will remain vacant to be filled by representatives of people living in Pakistan-occupied areas of the State.

Seats have been reserved for Scheduled Castes in the Legislative Assembly. This provision will cease to have effect on the expiration of five years from the commencement of the Constitution.

The Legislative Council will consist of 36 members. Eleven members will be elected by the members of the Legislative Assembly from amongst persons who are residents of the Province of Kashmir, provided that of the members so elected at least one shall be a resident of Tehsil Ladakh and at least one a resident of Tehsil Kargil, the two outlying areas of the State. Eleven members will be elected by the members of the Legislative Assembly from amongst persons who are residents of the Jammu Province. Of the remaining 14 members, 6 will be elected by various electorates, such as municipal councils, educational institutions, etc., 2 will be elected by Panchayats and such other local bodies and 6 will be nominated by the Sadar-i-Riyasat.

The fixation of parity in membership of the Legislative Council as between Kashmir and Jammu is very significant and important as the population of Kashmir is much larger than that of Jammu.

The High Court of the State will consist of a Chief Justice and two or more other judges. Every judge of the High Court will be appointed by the President after consultation with the Chief Justice of India and the Sadar-i-Riyasat, and in the case of appointment of a judge other than the Chief Justice, the Chief Justice of the High Court.

There will be a Public Service Commission for the State. The Commission along with its Chairman will be appointed by the Sadar-i-Riyasat.

The superintendence, direction and control of the preparation of the electoral rolls for the election will be vested in an Election Commissioner appointed by the Sadar-i-Riyasat. There will be one general electoral roll for every territorial constituency and elections will be on the basis of adult franchise.

Every member of the civil service or one holding a civil post will hold office under the pleasure of the Sadar-i-Riyasat.

The official language of the State will be Urdu, but English will, unless the Legislature by law otherwise provides, continue to be used for all official purposes of the State.

There will be an Academy of Arts, Culture and Language in the State where opportunities will be afforded for the development of art and culture of the State and for the development of its languages.

The Constitution can be amended by the introduction of a Bill in the Legislative Assembly and passed in each House by a majority of not less than two-thirds of the total membership of that House. But no Bill or amendment seeking to make any change in the provisions relating to the relationship of the State with the Union of India, the extent of executive and legislative powers of the State or the provisions of the Constitution of India as applicable in relation to the State shall be introduced or moved in either House of the Legislature.

The emoluments of the Sadar-i-Riyasat will be Rs. 5,500 a month.

Elections: Elections to the new legislature were held in March 1957 under the new Constitution. The National Conference secured 68 seats in the 75 member Legislative Assembly and formed the Government in July 1957.

Later some members of the National Conference Parliamentary party seceded from the main body and formed a separate party, called the Democratic National Conference. The strength of the different political parties in the Assembly is:—

National Conference 56; Democratic National Conference 13; Praja Parishad 5; Harijan Mandal 1.

In the 36 member Legislative Council, there are 30 elected and 6 nominated members.

LOCAL BODIES

The Municipal Councils and Town Area Committees now consist wholly of elected representatives. The powers of the Municipal Councils have been increased. Similar changes have been brought about in the case of Town Area Committees.

Financial condition of the local bodies has improved. Income of local bodies in Srinagar has increased from Rs. 10.41 lakhs per annum to Rs. 16 lakhs and in Jammu from Rs. 33,448 per annum to Rs. 10 lakhs.

Names of the Town Area Committees, their previous income and their income since 1954 respectively are given below: Anantnag, Rs. 40,000; Rs. 1,40,000; Baramulla, Rs. 30,000; About Rs. 70,000; Sopore, Rs. 40,000; About Rs. 1,00,000; Udhampur, Rs. 20,000; About Rs. 40,000; Samba, Rs. 15,000; Over Rs. 20,000; Reasi, Rs. 12,000; over Rs. 20,000.

Contributory provident fund has been introduced for the employees of local bodies.

Public Service Commission: The Sadar-i-Riyasat appointed a Public Service Commission which was empowered to conduct examinations for appointments to civil service and advise the Government on all matters relating to methods of recruitment and principles of appointment to civil services and civil posts.

Academy of Culture and Arts: In pursuance of the provisions of the Constitution, an Academy of Culture and Arts was set up in 1958 with the objective of promoting Art and Culture and Regional Languages of the State. The Academy has taken up translation into Urdu of the famous book on history—the Rajatarangini, written by Kalhana in Sanskrit in the 12th century.

ADMINISTRATIVE PERSONNEL
(See under 'States Administrative Personnel').

LEGISLATIVE ASSEMBLY
(See under 'General Elections').

LEGISLATIVE COUNCIL
(See under 'General Elections').

THE UNIVERSITY OF JAMMU AND KASHMIR
Chancellor: Yuvaraj Karan Singh Ji, Sadar-i-Riyasat.

Pro-Chancellor: Bakshi Ghulam Mohammed, Prime Minister.

Vice-Chancellor: A. A. A. Fyzee.

Registrar: Ghulam Mohammad.

Honorary Treasurer: R. L. Gupta, Accountant General.

Deputy Registrar: S. Bhagat Singh.

Deans of Faculties:

Arts: S. L. Pandit; *Science:* Ghanashyam;

Oriental Learning: G. N. Mattoo; *Education:*

Agha Ashraf; *Commerce:* M. L. Shandilya.

Number of affiliated colleges: 25.

Number of students who appeared for the previous examinations in 1957: Men 11,923; Women 2,866.

Budget for 1958-59:
Income: Rs. 6,50,100.
Expenditure: Rs. 6,48,000.
Govt. grant: Rs. 2,00,000.

COLLEGES

Amar Singh College, Srinagar.
Sri Pratap College, Srinagar.
Govt. Women's College, Srinagar.
Gandhi Memorial College, Srinagar.
Govt. Gandhi Memorial Arts College, Jammu.
Govt. Gandhi Memorial Science College, Jammu.
Govt. Women's College, Jammu.
T. T. College, Srinagar.
T. T. College, Jammu.
S. P. M. Rajput Commerce College, Jammu.
Govt. Inter College, Anantnag, Kashmir.
Govt. Inter College, Sopore, Kashmir.
St. Joseph's College, Baramulla, Kashmir.
Govt. Inter College, Bhatnagar.
Govt. Inter College, Poonch.
Jamia Madinatul Uloom, Hazratbal.
Mahila Maha Vidyalaya, Srinagar.
Government Oriental College, Srinagar.
Shri Rugh Nath Sanakrit Mahavidyalaya, Jammu.
Rupa Devi Sharda Peeth, Srinagar.
Vishwa Bharti Girls College, Rainawari, Srinagar.
Hindu Kanya Maha Vidyalay, Chakral Mohalla, Srinagar.
Sanatan Dharm Kanya Vidyalaya, Jammu.
Vidya Peeth Mahila Oriental College, Jammu.
Nusrat-ul-Islam Oriental College, Srinagar.

ASSOCIATIONS

REOPAR MANDAL

Sri Ranbir Ganj, Srinagar 2.

President: Haji Abdul Aziz Mir; *Vice-President:* L. Girdhari Lal; *Secretary:* A. N. Saraf.

KASHMIR CHAMBER OF COMMERCE
Srinagar.

President: Jal Dev; *Vice-President:* S. K. Kaul; *Secretary:* G. R. Mattoo.

KERALA

Area: 15,035 sq. miles.

Total population: 13,549,118 (1951 Census).

Capital: Trivandrum.

Names of Districts with names of District Headquarters within brackets: Trivandrum (Trivandrum); Quilon (Quilon); Kottayam (Kottayam); Alleppey (Alleppey); Trichur (Trichur); Cannanore (Cannanore); Kozhikode (Kozhikode); Palghat (Palghat); Ernakulam (Ernakulam).

Total number of Districts: 9.

POPULATION

Area and population of Districts (the first figure within brackets shows the area in sq. miles and the second figure population):

Trivandrum District (847; 1,327,862); Quilon District* (1,036; 1,513,383); Kottayam District (2,954; 1,783,771); Trichur District (1,672; 2,171,552); Cannanore District (2,759; 1,484,781); Kozhikode District (2,022; 1,957,228); Palghat District (1,974; 1,594,067); Ernakulam District (1,568.5; 1,530,143); Alleppey District* (703.9; 1,512,079).

Names of Districts showing the names, area and population respectively of the talukas in each District:

Trivandrum District—Neyyattinkara: 234 sq. miles; 395,206; Trivandrum: 98 sq. miles; 371,001; Nedumangad: 368 sq. miles; 266,424; Chirayinkil: 147 sq. miles; 296,182.

Quilon District—Quilon: 147 sq. miles; 397,780; Kottarakkara: 212 sq. miles; 250,302; Pattanam: 413 sq. miles; 171,992; Pathanamthitta: 926 sq. miles; 251,779; Kunnathur: 150 sq. miles; 185,072; Karunagapally: 88 sq. miles; 256,578.

Kottayam District—Changanachery: 269 sq. miles; 361,454; Kottayam: 214 sq. miles; 343,584; Vaikom: 137 sq. miles; 197,425; Muvattupuzha: 279 sq. miles; 379,087; Perambur: 451 sq. miles; 96,259; Devikulam: 667 sq. miles; 86,185.

Trichur District—Cranganur: 17 sq. miles; 54,111; Mukundapuram: 615 sq. miles; 384,935; Trichur: 248 sq. miles; 375,741; Talapilly: 258 sq. miles; 276,262; Chowghat: 99.9 sq. miles; 260,996.

Cannanore District—Kasargod: 360.4 sq. miles; 224,015; Hosdurg: 405.6 sq. miles; 187,016; Taliparamba: 523.8 sq. miles; 211,061; Cannanore: 164.3 sq. miles; 323,829; Tellicherry: 484.1 sq. miles; 369,560; North Wynad: 288.3 sq. miles; 59,580.

Kozhikode District—Badagara: 214.5 sq. miles; 262,208; Quilandy: 291.5 sq. miles; 291,883; Kozhikode: 373 sq. miles; 516,372; South Wynad: 532.8 sq. miles; 109,700; Ernad: 684.2 sq. miles; 404,571; Tirur: 278.4 sq. miles; 480,550.

Palghat District—Chittur: 388.7 sq. miles; 242,308; Palghat: 329.3; 273,489; Alathur: 220 sq. miles; 213,942; Ottappalam: 254.1 sq. miles; 291,505; Ponnani: 161.6 sq. miles; 261,971; Perinthalmanna: 618.9 sq. miles; 281,952.

Ernakulam District—Cochin: 51.9 sq. miles; 260,524; Kanayannur: 104.1 sq. miles; 313,055; Parur: 113 sq. miles; 243,112; Kunnathunad: 363 sq. miles; 321,222; Alwaye: 143.2 sq. miles; 174,458; Thodupuzha: 362 sq. miles; 159,862; Muvattupuzha: 575 sq. miles; 259,885.

Alleppey District—Karthikapally: 89.5 sq. miles; 224,841; Mavelikkara: 109.5 sq. miles; 225,861; Thiruvella: 132.5 sq. miles; 273,823;

Chengannur: 77.6 sq. miles; 177,579; Ambalapuzha: 68.8 sq. miles; 220,954; Kuttanad: 102.7 sq. miles; 134,748; Shertihalli: 123.3 sq. miles; 254,774.

Strength of the Legislative Assembly: 127 (126 elected and one nominated).

Number of members returned from the State to the Lok Sabha: 18.

Number of members returned from the State to the Rajya Sabha: 9.

Geography: The climate of the whole region is generally temperate and the rainfall heavy. Languages spoken in the State are Malayalam and Tamil.

GOVERNMENT

Kerala is the only State in India ruled by a non-Congress Party. The strength of the party in power, the Communist Party, in the legislature is 64 in a house of 126 members excluding the Speaker, who was also a member of the Communist Party.

The Ministry headed by Mr. E. M. S. Namboodiripad assumed office on April 5, 1957. There is a woman member in the Cabinet Smt. Gouri Thomas.

The Government constituted in 1957 an Administrative Reforms Committee with the Chief Minister Mr. E. M. S. Namboodiripad as Chairman to inquire into the working of the administrative machinery existing at that time and the systems and procedures under which it was functioning with a view to assessing their adequacy and devising measures for improving the efficiency of the machinery. The Committee has submitted its report embodying recommendations for enhancing efficiency and for the devolution and decentralisation of powers with special emphasis on Panchayats.

* The totals of the area and population were worked out in office. They are not official.

New land legislation has been passed by the Assembly. The bill, which went through a Select Committee, is based broadly on the recommendations of the Land Reforms Panel of the Planning Commission, proposes to confer on the permanent tenant ownership rights of the land he tills on payment of purchase price, fix fair rents and a ceiling on land holdings.

The measure has fixed the maximum holding at 15 acres of double crop land or its equivalent and draws up maximum and minimum rates of fair rent. Excess lands are to be surrendered to the Government and compensation will be paid.

Land tribunals are to be constituted to fix fair rents.

The cost of production and land revenue tax are to be borne by the tenant.

The quantum of compensation has been fixed at 16 times the annual fair rent or two and two-thirds of the annual gross produce. This is payable in instalments.

Pending legislation, the Government has banned all eviction of tenants. Occupants of Government lands will also not be evicted if they had occupied the lands before April 26, 1957.

The Government of Kerala issued an order on January 7, 1958, empowering the Collectors to compel holders of waste or arable land to cultivate it with food crops either personally or through lessees.

The order called the "Kerala Land Utilization" Order, 1958, was issued under the Essential Commodities Act of the Centre and with the prior approval of the Central Government.

An experiment, the first of its kind in Kerala, to reconstruct the villages on Sarvodaya lines, was launched on November 24, 1957 with the inauguration by the Governor of Kerala of 27 gram panchayats to take charge of the Gramdan villages around Malayalil, 22 miles from Trivandrum. According to the organizers, over 1,000 families in 30 villages had surrendered their lands and come forward to establish a new social order based on Sarvodaya.

The Kerala Education Bill was passed by the Kerala Legislative Assembly on September 2, 1957 and was sent to the Central Government for the President's assent. The Union Home Ministry decided to refer the Bill to the Supreme Court for its opinion on certain controversial clauses of the measure.

The Bill, the main object of which is to protect the rights and privileges of teachers, lays down that the teachers' salaries even in private aided schools should be paid by the Government directly. Recruitment of teachers will be by the Public Service Commission. The Bill also seeks to bring about equality in the conditions of service of the teachers in all schools, Government and private, to secure authority for Government to proceed against grossly mismanaged schools and to take over any category of schools if Government are convinced of the desirability of such action in the interests of education. The private schools however have the option to waive Government grants and function only as recognised schools without the regulations regarding recruitment and payment of salaries.

The Supreme Court which gave its opinion on May 22, 1958 held that the power to take over the management of certain schools which the Bill vested in the Government and the provision that no fee should be charged in primary schools offended against the Constitution.

The Education Bill, as modified in the light of the Supreme Court opinion, obtained the President's assent in February 1959.

Pursuant to the decision of the Government for the progressive adoption of Malayalam as the official language of Kerala, a committee was constituted in August 1957 to submit recommendations in the matter. The Committee submitted its report in August 1958 recommending that the change over should be effected in stages in the course of the next seven years starting with 17 Departments which have day-to-day contact with the public.

BUDGET ESTIMATES FOR 1958-59

(See 'Late Particulars').

KERALA FINANCIAL CORPORATION

K.F.C. Buildings, Vellayambalam, Trivandrum-1

The Kerala Financial Corporation was established under the State Financial Corporations Act, 1951, on 1st Dec. 1952, with an authorized capital of Rs. 2 crores divided into 200,000 shares of Rs. 100 each and an issued, subscribed and paid-up capital of Rs. 1 crore divided into 100,000 shares of Rs. 100 each. The Corporation was started with the object of making available long term credits to industrial concerns in Kerala in need of financial assistance and thereby quickening the pace of industrialisation of the State.

The shares of the Corporation were distributed among the various classes of shareholders as follows as on 31st March, 1958:—

State Government 60,415 Shares.

Reserve Bank of India 15,750 Shares.

Scheduled Banks, Co-operative Banks, Insurance Companies, Investment Trusts, and other financial institutions 22,290 Shares.

Parties other than those referred to above 2,045 Shares.

Total No. of applications received till March 31, 1958 : 123; Total amount applied for: Rs. 2,48,47,400; Total No. of applications disposed of : 97; Total amount of loan sanctioned: Rs. 1,59,46,300; Total amount disbursed: Rs. 1,33,32,850; Total amount of instalments received: Rs. 34,08,183.59.

The Corporation charges an interest on all its loans and advances at the rate of 7 per cent, subject to a rebate of 1 per cent for prompt repayment of all instalments. Hence the effective rate of interest levied by the Corporation is 6½ per cent.

During the year ended 31-3-1958, the Corporation earned a gross profit of Rs. 5,93,829.61 nP. The total expenses during the same period amounted to Rs. 1,07,830.69 nP. After providing Rs. 2,72,317 towards income-tax and corporation tax, and setting apart Rs. 24,300 for the reserve fund, the Corporation had at its disposal Rs. 1,89,382.37 nP. whereas the total amount of guaranteed dividend payable by it for the year ended 31-3-1958 was Rs. 3,60,000. The Corporation was therefore obliged to call upon the State Government to give a subvention for the balance of Rs. 1,60,617.63 to make up the guaranteed dividend.

On 21st March 1958, the Corporation issued 4½ per cent 10 Year Bonds for the face value of Rs. 50 lakhs, repayable in 1968 in consultation with the State Government and the Reserve Bank of India. The Bonds, repayment of which with interest fully guaranteed by the State Government, were oversubscribed before closing of the issue on March 31, 1958. The Corporation has retained subscriptions in respect of Bonds for the face value of Rs. 55 lakhs only.

P. K. Krishnakutty Menon (Chairman)
M. G. Achuthan Nair (Managing Director,
appointed by Government).

Secretary: C. Nilakanta Menon, B.A.
Chief Accountant: N. Gopinathan, B.A., A.C.A.

INDUSTRIES

Important industries of the State: Coir, textiles, tea, rubber, manufacture of brooks and tiles, cashew nut processing, printing, saw milling including plywoods and manufacture of splints and veneers for matches, rice milling and extraction of oils.

Main large-scale industries of State: Rubber, Plywood, Fertilisers and Chemicals, Rayons, Glass, Paper, Aluminium, Sugar, Cement, Textiles, Rare Earths and Engineering.

Chief products of the large-scale industries of the State: Chemicals, ammonium sulphate, ammonium chloride, ammonium phosphate, superphosphate, sulphuric acid, ammonia, caustic soda, chlorine, calcium carbide, copper sulphate, titanium dioxide, rare earth salts.

Miscellaneous: Aluminium ingots, glassware, cement, rayon, transparent paper, vegetable oils and soaps, vanaspathi, alcohol, pharmaceuticals, galenicals, plywood, ceramic ware, rubber goods, paper, cotton textiles and engineering materials.

State-owned Industrial Undertakings: Travancore Rubber Works, Trivandrum; Travancore Plywood Industries, Punalur; Government Press, Trivandrum; Government Press, Ernakulam; Government Stamp Manufactory, Trivandrum; Station Workshop, E.M.E., Cochin, Wellington Island; Government Engineering Workshops, Trivandrum; Government Tramway Workshop, Chalakudy; Government Hydrogen Station Factory, Kozhikode; Cochin Harbour Workshops, Dry Dock and Power station, Wellington Island; Kera's Soap Institute, Kozhikode; Pallivasal Hydro-Electric Generating Station, Chithirapuram; Indian Rare Earths, Udyagamandal, Alwaye; Government Oil Factory, Kozhikode; State Transport District Garage, Thayakathukara Pakuthy, Alwaye; State Transport District Garage, near Boat Jetty, Quilon; State Transport District Garage, Puzumon, Kottarakara; State Transport District Garage, Alleppey; State Transport District Garage, Kottayam; State Transport District Garage, Trivandrum City; State Transport Garage, Ernakulam; State Transport Boat Building Yard, Perumanoor, Ernakulam; State Transport Central Works, Pappanamcode; State Transport Central Depot, Thampanoor; Body Building Workshop, State Transport, Cantonment, Trivandrum; Kerala Cycles Private Ltd., Trivandrum.

(The various Transport garages in the state are registered as factories according to the Factories Act, 1948).

State-sponsored Industrial Undertakings: The Fertilisers and Chemicals (Travancore) Ltd., Alwaye; The Travancore Cochin Chemicals Ltd., Alwaye; The Travancore Rayons Ltd., Perumbavoor; The Travancore Opale Glass Mfg. Co. Ltd., Alwaye; The Punaloor Paper Mills Ltd.; The Aluminium Industries Ltd., Kundara; The Travancore Sugars and Chemicals Ltd., Trivandrum; The Travancore Electro-Chemical Industries Ltd., Chingavanom; The Travancore Cements Ltd., Kottayam; Forest Industries Travancore Ltd., Perumbavoor; The Vihayana Mohini Mills Ltd., Trivandrum; Balaramavarma Textiles Ltd., Shenottah; The United Electrical Industries Ltd., Quilon; West Coast Fisheries (Travancore) Ltd.; The Indian Aluminium Co., Ltd., Alwaye; Pallathara Tiles and Bricks Private Ltd., Kottayam; The Travancore Titanium Products Ltd., Trivandrum.

Private Sector (Important Industrial Undertakings): The Alagappa Textiles (Cochin) Ltd.; The A.D. Cotton Mills Ltd., Quilon; Sri Chitra Mills, Alwaye; The Ashok Textile Mills Ltd., Alwaye; The Juma Thread Mills Ltd., Koratti Angadi; Harrisons & Crossfield Ltd., Quilon; Tata Oil Mills Company Ltd., Ernakulam; Western India Plywood Ltd., Balipatam; Commonwealth Trust Ltd., Calicut; Chankola Spinning & Weaving Mill Ltd., Alwaye; Indian Transformers Ltd., Alwaye.

The management of the Sitaram Spinning and Weaving Mills Ltd., Trichur, and the Cochin Mahalakshmi Mills, Mahakunthukaver has been taken over by Government. Besides these two industrial concerns, the Electrical and Allied Industries, Kundara, which was defunct for some time, has also been reopened under Government auspices.

Steps have been taken to reorganise the Shark Lyster Oil Factory on a commercial basis, 80 per cent of the world's output of lemon grass oil is from Kerala. A Lemon Grass Research Station has been started in a suitable site covering 25 acres. A State Aid to Industries Act has been passed by Government.

A rayon wood pulp factory is to be started in the Nilambur-Beyyore area by the Gwalior Rayon Silk Manufacturing and Weaving Company.

A spinning mill with a spindleage of 12,600 is to be started in the public sector at Balaramapuram and another with a like capacity will be started in the co-operative sector at Cannanore with the assistance of the All India Handloom Board.

Main cottage industries: Coir and Handloom.

Their location: Alleppey and Coastal areas for Coir, Handloom in many parts of the State.

Number of workers employed in the Coir Industry: About 5 to 6 lakhs.

Total number of workers engaged in the Handloom Industry under co-operative fold: 40,000.

Value of handloom cloth produced by weavers under the co-operative fold during 1955-56: Rs 94,81,917.

Chief minerals produced in the State: The beach sands contain the much valued and strategic mineral monazite besides five others of great economic value namely ilmenite, rutile, zircon, sillimanite and garnet. The extensive white clay deposits contribute to the ceramic industry. Other minerals available are mica, graphite, limestone, quartz-sand and lignite.

A Production Council was set up in December 1956 to promote industrial growth and harmony.

LABOUR

Names of industries in which a minimum wage is fixed: Oil mills, coir, public motor transport, panchayats and municipalities, leather and hides, rice mills, road and building construction, stone-crushing plantations, cashew, beet, tiles, toddy, agriculture and carpet making, mica and stone crushing in mines (in Malabar area only)

The following table shows the area under these crops, average yield per acre, production in tons and value in crores of rupees for the period 1955-56:

Name of crop	Area (1,000 acres)	Average yield per acre (Lbs.)	Production in 1,000 tons	Value (in crores of rupees)
All crops	5,466	—	—	180.0
Paddy	1,954	1,559	1,358	41.4
Pulses	111	343	17	0.4
Tapioca	558	6,258	1,569	7.8
Bananas	116	6,005	311	8.5
Sugarcane	18	40,698	327	1.3
Pepper	214	280	27	7.1
Ginger	26	1,120	13	2.8
Cardamom	69	32	1	3.0
Areca nut	144	45,000*	648@	9.9
Cashew nut	93	1,340	56	3.8
Coconut	1,107	2,800*	310@	49.4
Groundnut	33	950	14	0.8
Rubber	160	294	21	6.8
Coffee	41	164	3	1.6
Tea	99	679	30	14.2
Sesamum	50	290	7	0.6
Lemongrass	35	60	1	1.7
Turmeric	11	2,850	14	1.1
Cotton	22	560	6	0.5
Other miscellaneous crops	605	—	—	17.3

@ In crores of nuts.

* No. of nuts.

Total value of fruits and other minor crops: Rs. 21.2 crores.

FORESTS

The figures relate to 1957-58.

Total forest area in State: 4,774 sq miles (Reserved Govt. forests 3,485 sq miles, Private forests (only in Malabar) 1,213 sq. miles)

Location of forest: The main forest tract lies north to south bordering the eastern boundary of the State.

The main types of forests: Evergreen, deciduous and semi-evergreen.

Total revenue from the forests for the year (1957-58): Rs. 2,90,78,148.

Total expenditure (1957-58): Rs. 74,98,297.

No. of registered factories in the State as on 31-12-1957: 1,650. Average daily employment in registered factories: 1,61,792.

No. of accidents in registered factories during 1957 (including fatal cases): 2,553.

No. of fatal accidents: 3.

No. of trade unions as on 31-3-1958: 1,220.

Total number of trade disputes for the period November 1, 1957 to September 30, 1958: 6,307. No. of disputes pending at the beginning of the period: 629. No. of fresh cases during the period: 5,678. No. of disputes settled: 5,626. No. of cases leading to strike or lock out: 266. No. of man-days lost from strikes and lock-outs (for 1957): 9,39,773. (Strikes and lock-outs in which the number of workers affected is less than 10 are not included)

Names of important State laws affecting trade disputes: Industrial Disputes Act (Central Act No. XIV of 1947) and Kerala Industrial Disputes Rules (1957)

There are over 500 tea and rubber estates in the State employing about 1.5 lakh workers.

AGRICULTURE

Of the total population 53.6 per cent depend upon agriculture, though the per capita extent of cultivated land is only 30 cents.

Main food crops of the State: Rice, Tapioca and Sweet-potato.

Annual rice deficit in the State: 700,000 tons.

Quantity of rice required to meet the needs of the fair price shops: 10,000 to 12,000 tons a month.

Main cash crops of the State: Coconut, Areca nut, Tea, Coffee, Cardamom, Rubber, Pepper, Ginger, Lemon grass, Groundnut, Cashewnut.

Name of Transport Authority: Kerala State Transport Department, Telegraphic Address: Kertrans, Trivandrum.

Capital invested: Rs. 2,38,46,375 (as on 31-3-1958).

Figures for the following items are as on 30-9-1958:

Road mileage monopolised: 573.3.

Road mileage over which services are operated along with private operators: 1,236.2.

Number of routes: 299.

Road mileage: 5,611.

Number of buses owned: 529.

Number of lorries owned: 67.

Total number of employees: 5,340.

Number of motor cycles: 1,523.

Number of private motor cars: 10,094.

Number of taxis: 341.

Number of buses: 2,110.

Number of goods vehicles: 4,009.

The following three figures represent the average for September 1958:

Mileage operated per day by buses: 62,013.

Mileage operated per day by lorries: 1,927.

Number of persons transported per day: 1,70,584.

Total amount of goods carried: 25 lorries of 5 tons each a day.

The pay scales of 3,000 odd State Transport employees were revised in June 1957 fixing the lowest grade of an employee at Rs. 30 to Rs. 50 as against Rs. 20 existing before.

POWER PROJECTS

Projects in Operation

Pallivasal 1st stage: In the high ranges in Devikulam below Munnar. Started in 1940. Installed capacity 13,500 kW.

Pallivasal 2nd stage: In the high ranges in Devikulam. The work was started in 1944 and was completed in 1956-57. Estimated cost of the project—Rs. 205 lakhs. Installed capacity of the 1st stage increased to 37,500 kW. Actual production during 1957-58: 251 million units.

At Madupatti in Kerala the waters of a tributary of the Periyar are again harnessed for the generation of electricity at Pallivasal.

Sengulam Hydro-Electric Scheme: The power station is located at Vellathuvai below Pallivasal in Devikulam. The installed capacity is 48,000 kW. The project was commenced in 1947. The work was completed in 1955 and all the generating sets have been commissioned for service. Estimated cost of the scheme is Rs. 564.73 lakhs. Production during 1957-58: 145 million units.

Poringalkuthu Hydro-Electric Scheme: The power station is located at Poringalkuthu on the Chalakudy river in Trichur District. The installed capacity now is 24,000 kW. The works connected with the project were started in 1947 and were completed in May 1957. The estimated cost is Rs. 359.30 lakhs. Production during 1957-58: 45 million units.

Projects in Execution

Poringalkuthu Hydro-Electric Scheme 2nd Stage: Extension to the existing station by installing one more set of 8,000 kW involving an expenditure of Rs. 40 lakhs. The work is now in progress.

Neriamangalam Hydro-Electric Scheme: The power station is located at Panankutty on the right bank of the Periyar river. The installed capacity will be three units of 15,000 kW each. Work was started in January 1956 and the various works connected with the scheme are in progress. Estimated cost is Rs. 290 lakhs.

Pannier Hydro-Electric Scheme: The power house is to be located on the left bank of the Mudhirapuzha river almost opposite to the Sengulam power house. The installed capacity will be two sets of 15,000 kW each. The estimated cost is Rs. 295 lakhs. The work is in progress.

Main forest produce: Timber, Firewood, Charcoal, Bamboo, Reeds, etc.

Quantity of each variety: Timber 25,95,778 cubic feet; Firewood 24,069 tons.

TRANSPORT

Total mileage of roads: 10,739 miles.

Metalled roads: 3,089 miles.

National highways: 276 miles

Total mileage of waterways: About 1,100 miles.

Total number of aerodromes: Two.

Number of broadcasting stations: 2.

Transport has been partly nationalised in the State.

Sholayar Hydro-Electric Scheme: This scheme is located on the bank of the Sholayar river, a tributary of the Chalakudy river in Trichur District. The generating station will have three sets each of 18,000 kW capacity. The estimated cost of the scheme is Rs. 391 lakhs. The preliminary works connected with the scheme have been started.

Pamba Hydro-Electric Project 1st stage: On the bank of Kakkiar, a tributary of Pambayar in Quilon District. The preliminary works connected with the first stage of the project have been started. The first stage works with an estimated capacity of 100,000 kW involving an expenditure of Rs. 965 lakhs.

The proposals to construct two reservoirs one in Pambayar and the other in Kakkiar and to install generators in an underground powerhouse near Kakkiar. Six vertical sets of 50,000 kW each will be installed. The cost of the scheme excluding transmission lines is Rs. 2,080 lakhs.

All the above schemes are programmed under the Second Five Year Plan of the State. The plan also includes provision for investigation of idikli and other hydro-electric schemes and the construction of new transmission lines, sub-stations and distribution lines.

Estimated rise in output by the end of the Second Plan: On the completion of the Second Five Year Plan the total installed capacity of the Hydro-electric stations will be 246,500 kW, as against 109,753 kW at present. The corresponding rise in the potential generating capacity will be from 560 million units to 1,300 million units per annum.

Organisation: An Electricity Board was set up for the State from 1st April 1957 under the provisions of the Electricity Supply Act, 1948.

IRRIGATION

Major Irrigation Schemes: The following are the major irrigation projects:

Name of Scheme.	Estimated cost in Rs. lakhs	Area to be served in acres
1. Peechi Scheme ..	235.00	46,000
2. Chalakudy Scheme— (1st stage) ..	153.85	48,650
(2nd stage) ..	60.00	
3. Wadakkancherry (Vashani) Scheme	107.57	12,800
4. Neyyar Scheme— (1st stage) ..	146.00	34,100
(2nd stage) ..	108.00	
5. The Kuttanad Development Scheme— Spillway ..	57.65	121,000
6. Malampuzha Project	527.75	47,600
7. Walayar Project ..	116.66	8,000
8. Mangalam Reservoir ..	97.51	6,000
9. Periyar Valley Scheme	348.00	68,800
10. Cheerakuzhy ..	47.34	4,000
11. Meenpara (1st Stage)	88.00	7,500
(2nd Stage)	47.00	3,200

Of the above schemes the Peechi Irrigation Project situated 15 miles south east of Trichur was completed in 1957.

The Chalakudy Irrigation Project 1st stage, 10 miles east of Chalakudy was started in 1950 and completed in 1954 at a cost of Rs. 153.35 lakhs. The area benefited is 28,400 acres.

The Kuttanad Development Scheme, situated 12 miles south of Alleppey, was started in 1951 and completed in 1954 at a cost of Rs. 57.65 lakhs. The area benefited is 1,21,000 acres.

Works under construction:

Chalakudy Irrigation Project (2nd Stage). Started in 1956. Area expected to be irrigated is 20,250 acres. Probable date of completion: 1960-61.

Vashani Irrigation Project, six miles east of Wadakkancherry, was started in 1950.

Neyyar Irrigation Project (1st Stage), 16 miles south-east of Trivandrum, was started in 1951. The area to be irrigated will be 15,000 acres.

Neyyar Irrigation Project (2nd Stage), six miles east of Wadakkancherry, was started in 1956. Area to be irrigated will be 19,100 acres. Probable date of completion: 1961.

Malampuzha Irrigation Project, eight miles east of Palghat, was started in 1949.

Walayar Irrigation Project, 12 miles east of Palghat, was started in 1954.

Mangalam Irrigation Project, 20 miles south east of Palghat, was started in 1953.

Periyar Valley Scheme, 30 miles south east of Alwaye, was started in 1956.

Cheerakuzhy Irrigation Project, 15 miles north east of Wadakkancherry, was started in 1957. Probable date of completion: 1960.

Meenpara Irrigation Project, six miles east of Kollengode, was started in 1956 and is expected to be completed in 1958-60.

Three more major irrigation schemes were taken up for execution during the year 1957-58. They are Kuttanad Development Scheme (Salt Water Barrier at Thannirmukkom), Pothundy and Kattampally. The details of these schemes are as follows:—

Kuttanad Development Scheme (Salt Water Barrier at Thannirmukkom).

Location: 12 miles north of Alleppey; Nearest Railway Station: Cochin; When started: 1958; Cost: Rs. 150 lakhs; Area to be benefited: 1,21,000 acres.

Pothundy Irrigation Project:

Location: 20 miles south of Palghat; Nearest Railway Station: Palghat; When started: 1958; Cost: Rs. 88 lakhs; Area to be benefited: 9,128 acres.

Kattampally Project:

Location: 8 miles west of Cannannore; Nearest Railway Station: Cannannore; When started: 1958; Cost: Rs. 28.63 lakhs; Area to be benefited: 4,000 acres. Expected to be completed in 1960-61.

Lift Irrigation Works: Extensive lands are located on a higher level from the rivers by the side of Chalakudy, Periyar, Muvattupuzha and Pampa. A series of schemes have been started by the Government whereby water is lifted from rivers by means of electric pumps and led on to the fields through channels.

About 2,000 items of minor irrigation works are being attended to annually in aid of the G.M.F. Programme.

In 1954-55 minor and lift irrigation works in the State were transferred to the Panchayat Department. This work has been started on a mass and intensive scale in furtherance of the G.M.F. campaign.

Land Reclamation: Area of land reclaimed by State Tractor Organisation: About 50,000 acres.

Land Tenure: There are a number of land tenure systems in the State. Janmam lands, Pandaram, Kenappattam, Verumpattam, etc., are some of these.

Edavagil Abolition Act abolished special tenancy rights of four ancient chieftains and conferred full rights on tenants. This bill was part of one of seven bills viz. Special Rights Abolition Bills.

CO-OPERATION

Information as on June 30, 1958:

Rs. thousands.

Class of Societies	Total No. of Societies	No. of Members	Paid up share capital	Working capital
The Kerala State Co-operative Bank	1	1,765	2,052	14,588
Co-operative Central Banks ..	2	1,497	2,029	24,082
The Kerala Co-op. Central Land Mortgage Bank	1	476	2,653	4,979
The Cochin Co-op. Land Mortgage Bank ..	1	6,767	244	4,440
Agricultural Credit Societies ..	2,072	4,74,054	8,665	28,098
Primary Land Mortgage Banks	4	4,392	104	1,269
Non-Agricultural Credit Societies ..	407	2,75,955	4,481	10,912
Agricultural non-credit Societies	265	26,906	346	2,152
Non-Agricultural non-Credit Societies ..	413	51,090	793	3,073
Supervising Unions ..	52	3,294	..	..
Co-operative Institutes ..	3	135	..	..
Total ..	3,221	8,46,342	21,567	93,593

COMMUNITY DEVELOPMENT

There are 69 blocks functioning in the State comprising 44 N.E.S. Blocks, 12 Community Development Blocks and 13 Post Intensive Blocks covering an area of 5,666 sq miles and a population of 60.5 lakhs.

Physical achievements (cumulative) in the Blocks to the end of March 1958 are as follows:

Agriculture and Animal Husbandry: Fertilizers distributed (Mds.) 6,40,984; improved seeds distributed (Mds.) 24,696; agricultural demonstrations held (No) 30,439; pedigree animals supplied (No) 212; pedigree birds supplied (No) 12,355.

Irrigation: Area irrigated (acres) 62,154.

Health and Rural Sanitation: Rural latrines constructed (No.) 14,925; drains constructed (Yds.) 27,637; drinking wells constructed (No) 972; drinking wells renovated (No) 778.

Social Education: Adult education centres functioning (No) 734; adults made literate (No) 42,816; community centres functioning (No) 1,257.

Construction: Kutchra roads constructed (Miles) 1,256 2; kutchra roads improved (Miles) 437 7; new co-operative societies started (No) 1,807.

EDUCATION

Position in the area covered by the Kerala State during 1957-58: Number of lower primary schools 7,063 (both departmental and private); upper primary schools 1,740 (both departmental and private); high schools 434; nursery (kindergarten) schools 10; pre-basic schools 8; junior basic schools 441; senior basic schools 98; basic training schools 28; post-basic schools 2; non-basic training schools 61; nursery training schools 2; music, dancing and fine arts schools ..

* 95 high schools were converted into higher secondary multipurpose schools.

8; technical schools 4; commercial schools 38; fishery schools 52; adult schools 311; certified school 1; schools for the handicapped 7, post-graduate basic training college 1.

Number of students under instruction 29,62,638 (boys 16,45,351; girls 13,17,287)

Percentage of the total number of pupils under instruction to the total population . 21.86.

Enrolment in lower primary schools: boys 9,41,270; girls 8,10,222; upper primary schools: boys 3,20,997; girls 2,54,837; high schools: boys 2,96,295; girls 1,90,032; special schools: boys 96,760; 62,135 Total enrolment in schools. boys 16,45,322, girls 13,17,276.

Teacher-pupil ratio : 1 : 40
Expenditure on primary education : Rs. 4,91,29,549.

Expenditure on secondary education : Rs. 2,95,70,302.

Expenditure on special education : Rs. 33,00,938.

Total number of arts and science colleges : 45.
Number of women's colleges : 10.

Total number of professional colleges : Medical Colleges 2; Law Colleges 2; Engineering Colleges 2; Ayurveda College 1; Training Colleges 11; Veterinary College 1, Technical institutions 4.

Total number of students in the colleges under the Kerala University during 1958-59 33,217.

Percentage of literacy : 47.38

Polytechnic : Started in 1951. Provides Diploma courses in Automobile Engineering, Chemical Engineering, Food Technology and Fisheries Technology.

Elementary education is free and compulsory in six taluks of the Travancore-Cochin area and in certain selected areas in 16 taluks of the Malabar area. Middle school education is free.

Place of language in the education system : The media of instruction in schools in this State are Malayalam, Tamil and Canarese. In parallel divisions of the primary classes in a few schools English had been permitted as the medium of instruction for the benefit of pupils coming from outside the State. Also Anglo-Indian Schools were allowed to have English as the medium of instruction. Hindi taught as a compulsory subject (third language from St. VII to St. XI) in Travancore-Cochin area was made compulsory in Malabar area also from St. VII. Three periods per week were allotted for the purpose. English except at college stage is taught as second language. English the medium of instruction in college education. There are no plans for replacing English at the college stage.

Basic Education : There are a few basic schools in the State. Steps have been taken to constitute a Board of Basic Education.

In the Post-graduate Basic Training College there were 40 pupil trainees of whom 29 were men and 11 women. The graduates trained in this college were employed in basic training schools. The duration of the course is one year.

There were 32 social education centres in the State. About 16,000 men and women were made literate with the help of the adult literacy classes conducted by these centres. Instruction in one or more cottage industries was imparted. Cultural activities were undertaken by these centres.

A Vocabulary Research Unit was started in 1956 with the object of collecting simple words in Malayalam which may be usefully employed later for the preparation of adult literature.

A Literary Workshop organised by the Government of India was being conducted by the Department of Education. Eighteen simple books were written by the members of the Workshop and 19 of them were printed and published.

The pupils belonging to the Backward Communities were allowed free education. Deserving pupils belonging to other communities were allowed half fee concession as per rules in force. The poor and deserving candidates of the Backward Communities were exempted from payment of examination fees.

SECOND FIVE-YEAR PLAN

Total outlay : Rs. 87 crores.
Agriculture and Community Development : Rs. 15.82 crores.

Irrigation and Power : Rs. 32.09 crores.
Industry and Mining : Rs. 6.84 crores.

Transport and Communications : Rs. 5.57 crores.

Social services : Rs. 23.81 crores.
Miscellaneous : Rs. 2.87 crores.
Total : Rs. 87 crores.

Kerala now has a Central Planning Advisory Board. A Development Committee to co-ordinate the activities of all departments implementing the Second Five Year Plan in Kerala was set up with the Chief Minister as the Chairman and the ten ministers as members of the Committee.

UNIVERSITY OF KERALA

Trivandrum.

(The University of Travancore was reconstituted as the University of Kerala with effect from 30th August 1957).

Chancellor.

Dr. B. Ramakrishna Rao, B.A., LL.B., LL.D.

Pro-Chancellor.

Joseph Mundassery, M.A.

Vice-Chancellor.

Dr. John Mathai, M.A., B.L. (Med.), B.Lit. (Oxon), D.Sc. (Lond.), C.I.E.

Registrar.

V. F. Kannan Nair, M.A., LL.B.
Type of University : Teaching and Federal.

Subjects in which there is provision for post-graduate teaching and or research : English, History, Economics, Politics, Philosophy, Psychology, Education, Mathematics, Physics, Chemistry, Botany, Zoology, Statistics, Malayalam, Sanskrit and Hindi.

The Research Institute offers facilities for research courses leading to the M.Sc., Ph.D. and D.Sc. Degrees of the University in the following branches of pure and applied Science : Pure and Applied Chemistry, Statistics, Marine Biology and Oceanography and Pure and Applied Geology.

Number of colleges under the University : Arts and Science Colleges 45; Professional Colleges 22; Colleges under the faculty of Oriental Studies 7.

Total number of students in the University during 1958-59 : 33,217.

List of Colleges under the University :

Agricultural College, Vellayani, Trivandrum.
Assumption College for Women, Changanacherry.
Ayurveda College, Trivandrum.
Bishop Chulaparambil Memorial College, Kottayam.
Catholicate College, Pathanamthitta.
Christ College, Irinjalekuda.
College for Women, Trivandrum.
College of Engineering, Trivandrum.
C. M. S. College, Kottayam.
Farook College, Feroke.
Fatima Mata National College, Quilon.
Govt. Brennen College, Tellicherry.
Govt. College, Chittur-Cochin.
Govt. College, Kasargod.
Govt. College, Madappally, via Badagara.
Govt. Training College, Kozhikode.
Govt. Training College, Trichur.
Govt. Victoria College, Palghat.
Guruvayurappan College, Kozhikode.
Law College, Ernakulam.
Law College, Trivandrum.
Little Flower College, Guruvayur.
Madeenathul Uloom Arabic College, Pulikkal P.O., Via Feroke.

Mahajana Sanskrit College, Peradalla.
Maharaja's College, Ernakulam.
Mahatma Gandhi College, Trivandrum.
Malambar Christian College, Kozhikode.
Mar Athanasius College, Kothamangalam.
Mar Ivanios College, Trivandrum.
Mar Theophilus Training College, Trivandrum.
Mar Thomas College, Tiruvalla.
Medical College, Kozhikode.
Medical College, Trivandrum.
Mount Carmel Training College, Kottayam.
Nirmala College, Muvattupuzha.
Noorul Huda Arabic College, Kanjirappally.
N.F.S. College for Women, Trivandrum.
N.S.S. College, Pandalem.
N.S.S. Hindu College, Changanacherry.
N.S.S. Training College, Changanacherry.
N.S.S. Training College, Pandalem.
Providence Women's College, Kozhikode.
Rounathul Uloom Arabic College, Feroke.
Sacred Heart College, Thevara.
Sahitya Deepika Sanskrit College, Pavarathy.
Sanatana Dharma College, Alleppey.
Sanskrit College, Trivandrum.
Sree Kerala Varma College, Trichur.
Sree Narayana College for Women, Quilon.
Sree Narayana College, Quilon.
Sree Narayana Training College, Nedungarda.
Sri Neelakanta Central Sanskrit College, Pattambi.
Sree Bankara College, Kalady.
St. Albert's College, Ernakulam.
St. Perchmans' College, Changanacherry.
St. Joseph's College, Devagiri.
St. Joseph's College for Women, Alleppey.
St. Joseph's Training College for Women, Ernakulam.
St. Joseph's Training College, Mannanam.
St. Mary's College, Trichur.
St. Teresa's College, Ernakulam.
St. Thomas' College, Kozhikode.
St. Thomas' College, Palai.
St. Thomas' College, Trichur.
St. Thomas' Training College, Palai.
Sulamaslam Arabic College, Arracode.
Thangal Kunju Musaliar College of Engineering, Karikode, Quilon.
Titus II Teachers' College, Tiruvalla.
Training College, Trivandrum.
Union Christian College, Alwara.
University College, Trivandrum.
University Intermediate College, Trivandrum.
Veterinary College, Mannuthy, Trichur.

Finance :

The year 1957-58 opened with a balance of Rs. 61,39,449. The total receipts under fees, State Govt. grant of Rs. 25,00,000 and miscellaneous accounts (including a grant of Rs. 87,030 from the Govt. of India for the development of science, equipment, etc. amounted to Rs. 48,99,006.

The total expenditure during the year under the various heads came to Rs. 57,84,665. The closing balance for the year came to Rs. 60,45,790.

ADMINISTRATIVE PERSONNEL

(See under State Administrative Personnel)

ASSOCIATIONS, ETC.

ALLEPPEY PRODUCE MERCHANTS ASSOCIATION

Alleppey.

President : A. R. Sulaiman Sait; Vice-President : V. J. Joseph; Hon. Secretary : Karamasee Morarji.

ANANDA NRITYA KALALAYAM

Palace Ward, Thevalli, Quilon.
School of Kathakali Dance.

Vice-President : V. Gangadharan; Secretary : S. Krishna Pillai; Dance Director : P. Narayanan Nambisan.

ARCHDIOCESE OF CHANGANACHERRY

Archbishop's House, Changanacherry.
Metropolitan : Most. Rev. Dr. Mathew Kavukattu;
Vicar-General : Rt. Rev. Mgr. L. J. Chittoor;
Chancellor : Very Rev. Fr. C. Tharathumalil.

ARCHDIOCESE OF TRIVANDRUM

Archbishop's House, Trivandrum 4.

His Grace the Most Rev. Benedict Mar Gregorios, O.F.C., M.A., D.D., Archbishop of Trivandrum.
 Rt. Rev. Magr. Philipose Remban, *Vicar General*. Rt. Rev. Magr. G. T. Kuruvilla, *Vicar-General*.

ARYA VAIDYA SALA

Kottakal (Via Tirur), (Dt. Kozhikode).

Ayurvedic institution with pharmacy and clinic.
 Runs an Ayurvedic college and hospital.

Managing Trustee: Aryavaldyan P. K. Warriar;
Chief Physician: Aryavaldyan S. Warriar;
General Manager: K. Govinda Warriar.

THE CALICUT CHAMBER OF COMMERCE

Beach Road, Calicut 1.

Chairman: A. L. Mathunny.*Hon. Secretary*: P. N. Bryant.**THE CALICUT PIECEGOODS MERCHANTS' ASSOCIATION**

Husur Road, Calicut.

President: L. N. Mehta; *V. President*: Janab S. M. Syed Mohammed Sahib; *Hon. Secretaries*: K. Dinkar Rao, V. R. Goray.

THE CALICUT TOBACCO MERCHANTS UNION

Big Bazaar, Kozhikode 1.

President, K. Unnikrishna Pillai; *Secretary*, G. Umanath Maller; *Treasurer*, M. L. Patel.

CENTRAL COCONUT RESEARCH STATION

Kayangulam, Ochira P. O.

Director: Dr. K. P. V. Menon; *Entomologist*: Dr. Chandy Kurian; *Soil Chemist*: E. J. Varghese.

THE CASHEW & PEPPER EXPORT PROMOTION COUNCIL

Willingdon Island, Cochin 3.

Chairman: K. Ranganawami, B.A., B.L. (Jt. *Chief Controller of Imports & Exports, Madras*); *Vice-Chairman*: K. I. Thomas (Jt. *Chief Controller of Imports & Exports, Cochin 3*); *Secretary*: R. K. Pillai.

CENTRAL COCONUT RESEARCH STATION

Kasaragod.

Joint Director: Dr. K. M. Pandalai, M.Sc., Ph.D., F.R.I.C.; *Cyto-Anatomist*: S. R. Gangolly, B.Sc. (Sg.); *Agronomist*: M. M. Krishna Marar, B.Sc. (Ag.).

CENTRAL FISHERIES TECHNOLOGICAL RESEARCH STATION

XXI/29, Kochangadi, Cochin 5.

Asst. Directors: G. K. Kuriyan, M.Sc. (Gear); R. Balasubramanyam, B.Sc. (Craft); E. Venkataraman, M.Sc. (Processing).

CENTRAL RESEARCH INSTITUTE

University of Kerala, Trivandrum.

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Empress Hotel Road, Kozhikode 1.

President: V. K. Eradi. *Hon. Secretary:* D. M. S. Rao.

LACCADIVE, MINICOY AND AMINDIVI ISLANDS

Administrator, C. K. Balakrishnan Nair; Headquarters (temporary): Kozhikode.
Secretary, M. V. Narayana Iyer Area: 10 sq. miles; Pop: 21,035

Island	Area	Population	Density
Minicoy	1.75 sq. miles	3,447	1,970
Kalpeni	1.02 sq. miles	2,260	2,223
Androth	1.67 sq. miles	3,650	2,186
Agathy	1.08 sq. miles	2,038	2,020
Kavarathy	1.35 sq. miles	2,250	1,667
Ameni	0.97 sq. mile	3,150	3,257
Kadamath	1.17 sq. miles	1,642	1,403
Chetlat	0.39 sq. mile	994	2,549
Kiltan	0.62 sq. mile	1,252	2,013
Bitra	0.05 sq. mile	76	1,520

With the reorganisation of States, in Nov. 1956 the Government of India took over the administration of the Laccadive, Minicoy and Amindivi group of Islands, a small sprawling group of coral islands in the Arabian Sea, lying between the latitudes of 8° and 12° north lat.

They now constitute a Union Territory under an Administrator.

Ten of the islands are inhabited out of a total number of 19. Minicoy, Kalpeni, Kavarathy, Agathy and Androth lie in the Laccadive group and Ameni, Kadamath, Kiltan, Chetlat and Bitra in the Amindivi group.

Before the reorganisation, the Laccadive and Minicoy Islands were part of Malabar District and the Amindivi Islands, of South Kanara District, forming part of the former composite State of Madras.

The administration of the islands was carried on by the Collectors of Malabar and South Kanara.

The islands lie from north to south, Minicoy being the southernmost and Chetlat the northernmost. They are within 20 to 114 miles away from one another except Ameni and Kadamath which are only six miles apart. They are 125 to 250 miles off the Malabar and South Kanara coast.

The area and population of the inhabited islands are given according to the latest census, which also show that the density of population is high. There is thus no scope for colonisation in the small satellite islands on any appreciable scale.

All the inhabitants of the Islands are Muslims. Originally Hindus, from Malabar (except for Minicoites) the islanders appear to have been converted to Islam sometime in the sixteenth century. In appearance, mode of dress, manners and customs, the islanders, except those from Minicoy, are indistinguishable from the Moplahs of Malabar. Their dialect is old Malayalam, with local variations peculiar to each island. The Minicoites are more akin to the inhabitants of the Maldives and their language, Mahli, is said to be allied to primitive Sinhalese. In appearance too they are strikingly different from the inhabitants of the Laccadives and the Amindivi. Their customs and manners are also different.

The inhabitants of the Laccadives can be divided into three classes the Koyas, Malmis and Melacheris, the first are landed classes, the second sailors or fishermen and the third are small tenants or belong to the servant class.

Practically the same distinction of class exists in the Amindivi group and also in Minicoy, where the cast system is even more rigid. The classes here are known as Manikfan, Malmis, Thakrus and Raveris.

Mainly as a result of isolation, the islanders have remained backward economically, though in point of intelligence and initiative they are in no way inferior to the Moplahs of Malabar. They have been declared 'Scheduled Tribes' but in reality are far more advanced than similar tribes elsewhere.

The islanders have never had what may be described as benevolent rule. Patriarchal Government prevailed from the earliest known times, and all authority vested in a chief assisted by a Panchayat formed by members from leading families. This form of Government exists in a modified form to this day. In an intermediate period when they came under the sway of the Cannanore Rajahs, the administration fell virtually into the hands of the latter's paid agents who practised a regular system of extortion which did not relax even when native islanders were appointed to the posts.

In the islands formerly administered from South Kanara, the British Government had right from the start, a Resident Manager assisted by Karanis or clerks in every island. This system has taken root and at the moment a Deputy Tahsildar exercises the powers of a Second Class Magistrate, a Police Officer, a Revenue Officer and a Port Officer in the Amindivi. He is also a Civil Judge without monetary limits operating under the customary laws of the islands and is assisted both in his civil and criminal work by Panchayats known as Mukthasars in Ameni and by Moopans in the other islands.

In the Malabar group the present system is based on Amins appointed from among competent and influential islanders, assisted by clerks. Neither post is hereditary. In the place of Mukthasars or Moopans in the Amindivi group there are here Karanavans or assessors to assist the Amins in the administration of civil and criminal justice, which is governed by the Island Regulation of 1912. The Amin is usually selected from Karanavans.

The Island law is a curious mixture of the ordinary Muhammadan law and the Marumakkathayam law of Malabar, a distinction being made between self-acquired and inherited property. In the early years there was no private property in land, but with the increase of population and the resultant pressure on land, a tendency grew among the people to demarcate plots by means of boundaries mentioned in documents. This is now a source of civil litigation among the islanders, which has assumed alarming proportions. Civil disputes in the Laccadive group are decided by Amins in the first instance, while appeals lie to the Secretary to the Administrator and the Administrator.

In the Amindivi group the Civil Procedure Code is applicable to a limited extent, but there are no well defined laws. Consequently much depends upon the interpretation of the customary law, which is no easy matter and is again a source of perpetual litigation.

Criminal Justice is also administered by the Amin in the Laccadive group in accordance with Regulation I of 1912 which endows him with an authority equal to that of a Magistrate of the Third Class on the mainland. Appeals from this decision lie to the Secretary to the Administrator and the Administrator. The Deputy

Tahsildar who administers criminal justice in the Amindivi group is a Magistrate of the Second Class under the Criminal Procedure Code and was under the jurisdiction of the District Magistrate Judicial of South Kanara, till the States reorganisation.

Appeals now lie to the Administrator who has been invested with powers of a District and Sessions Judge under the Criminal Procedure Code. First class offences in the Amindivi group will be dealt with by the Secretary to the Administrator who is invested with powers of a First Class Magistrate under the Criminal Procedure Code.

The Union Territory is now under the jurisdiction of the Kerala High Court.

The Government of India have now sanctioned the appointment of Two Tahsildars, one for Minicoy and the other for the Laccadive group with a view to improving the existing administrative machinery.

There is no land tax on any of the islands of the Malabar group but only a tree tax on Government land. On private land no tax is leviable on the trees. Government land is either leased to the community as a whole under the description of Pandaram land or as cowle land where a tax is collected on yielding trees from individuals to whom they are leased. The register of trees maintained by Government is a rough and ready document. Unauthorised excursions into Government cowle land have also opened up a large field of litigation, made possible by the out-of-date measurement books which are all that Government have to go by, in the absence of a proper survey of the islands.

There is also complication in the revenue rates of the islands as they are calculated on a tree basis. There has been no proper demarcation of land and the account relating to the number of trees is only rough and ready.

The total revenue from these sources can never be a large amount, because the occupied area of the islands is only about 10.67 sq. miles. The present average annual income from this source is only about Rs. 20,000.

There is no tax of any kind in the Amindivi group of islands except from two minor leases of Government Pandaram lands and also from court fees, search fee, copying fees, magisterial and customary fines.

The Minicoy Island, which deserves separate mention, pays a lease amount on Pandaram lands, a poll tax of Re. 0-4-0 per unmarried woman, Re. 0-6-0 per unmarried man, and 12 annas per married couple, and two other lease amounts for garden crops and village sites. The poll tax is subject to exceptions.

To set right the existing system of land ownership and collection of taxes it is proposed to conduct a survey of all islands after changing the basis of ownership from one of trees to one of land.

ECONOMY

The major source of income from the islands is however the coir monopoly held by the Government. The islanders are given rice in exchange for coir at depots at the exchange rates fixed by Government from time to time by reference to market rates for coir and rice on the mainland. Government have coir depots in all the islands except Minicoy which is not subject to this monopoly. Islanders are prohibited from selling coir to the public. The object is to ensure the islanders, whose main occupation is coir twisting, a regular supply of rice in exchange for coir, thereby minimising the chances of middlemen interfering in the coir trade.

The only agriculture on the island is coconut cultivation but no scientific approach to the question has ever been made. Over-planting is the rule with the result that there is a decrease in the annual crop. There is also no wide scope for development of food crops on the islands. However attempts are made to cultivate paddy in one or two islands on a small scale.

Proposals for the development of fisheries are under consideration. On Minicoy, the bonite or mass fishing forms an important and valuable industry. There is provision for the expansion of the fishing industry in the island under the Second Five-Year Plan. A sum of Rs. 14.10 lakhs has been set apart for development of fisheries in the islands. The relative schemes are under execution.

The main health problems are the eradication of leprosy and filariasis.

Leprosy is on the increase in two islands, Minicoy and Androth. A leper colony started in 1952 with the aid of a local committee has now been taken over by the Government. The entire expenditure on the maintenance of this colony is now met by the Government.

In Minicoy too there is a leper colony run by Government.

In the Laccadive group, each island has a Government dispensary, with a Civil Assistant Surgeon, a compounder, a maternity assistant, a ward boy and a sweeper.

In the Amindivi group there is a Government dispensary at Amenl in the charge of a Civil Assistant Surgeon which caters for the medical needs of all the five islands. Another dispensary was opened in this group at Kiltan early in 1958.

Three Health Inspectors were also appointed in 1958 to combat the spread of filariasis and other diseases in the islands and to teach the islanders about living hygienically.

There are nine primary schools, one in each island except Bitra where free midday meals and books and slates are given to the students. The schools were under-staffed and the teaching equipment poor. Furniture and buildings were also inadequate. But now adequate staff has been appointed and teaching aids, equipment and furniture have been supplied. Most of the buildings have been repaired and new buildings are under construction.

Lack of proper communication is however the biggest single handicap of the administration. Contacts of officers under the Madras Government with the administration have been as few as once in two years through vessels specially chartered for the purpose when the officers made a hurried inspection tour. The normal communication to the islands is by means of island sailing boats during the months of October to May when the islanders buy all their requirements from the mainland and sell their produce especially copra, coconuts, cadjan leaves, vinegar, palm gur, mas fish and coir in the mainland markets. For the rest of the year the islands are practically cut off from any contact with the mainland. In Minicoy there is a wireless station in other islands there were not even postal

facilities. Inter-island communication is also rare because the islanders have more contact with the mainland than among themselves.

A steamer service has been introduced by chartering a power vessel for service to the islands during fair season. A small power launch has also been purchased by the Administration for inter-island communication of touring officials.

Branch post offices have also been established in seven of the islands, which will work only during the fair season.

SECOND FIVE-YEAR PLAN

Immediately after the Government of India took over the administration, a draft Second Five-Year Plan was drawn up involving an expenditure of Rs. 73.95 lakhs as approved by the Planning Commission.

As approved by the Planning Commission, the broad proposals for improvement of these islands under a Second Five-Year Plan, that is, for the three and a half years still left, are as below:

	Rs.
Agriculture and Community Development including development of Fisheries ..	19.69 lakhs
Transport and Communication ..	19.75 "
Industries ..	4.11 "
Education ..	12.40 "
Publicity ..	0.02 "
Public Health ..	16.40 "
Electricity ..	1.00 "
C.P.W.D. ..	0.58 "
Total ..	73.95 "

Under agriculture which on the islands consists mainly of coconut cultivation, the improvements in view are the organisation of demonstration plots, the supply of seedlings at concessional rates, the eradication of coconut disease through a free supply of insecticides, the eradication of rat nuisance, subsidised compost schemes and the introduction of homestead horticulture.

Under veterinary, poultry units have been established in some of the islands and goats of good variety have been sent for improving the breed of goats in the islands.

Fisheries improvement, which is a major development scheme for the islands, consists of mechanised fishing through pable boats in off shore waters, new types of fishing gear, expansion of 'mas' fishing, extraction of shark liver oil and research.

Co-operative societies will be introduced in all the islands.

The most important item in reconstruction will however be a monthly steamer service as an experiment with a cargo vessel touching all the islands.

A new lighthouse will be opened in Androth and the existing lighthouse at Kiltan will be improved as general lighthouses under the Lighthouse Department.

Wireless stations will be established in three islands in 1959.

Under industry, coir twisting will be developed through training-cum-production centres in all islands and oil pressing through Wardha Ghanies. Cottage industries like mat making, soap making, spinning etc., will be set up as an experiment.

Under education the main items of development will be the conversion of at least four out of the nine primary schools now in existence into middle schools, out of which one will be converted into a Secondary School with hostel facilities by the end of the Plan period. The existing hostel for island boys at Kozhikode will be improved and its strength increased to 100.

To improve sanitation safe drinking water will be introduced through a scheme of subsidised draw wells. Water seal squatting slabs will be distributed to the islanders practically free. A lady doctor will be appointed and local 'Dais' trained under a 'Dais' training scheme. One of the island dispensaries will be converted into a hospital by the end of the Plan period. One more dispensary will be opened in the Amenl group.

Among other miscellaneous improvements will be the provision of community listening sets for all islands.

A lump sum provision of Rs. 50,000 is also made for self-help schemes under community development.

It is also proposed to move the headquarters of the Administrator to the islands after a regular steamer service is established and wireless stations opened in all the islands. A land revenue system will be organized by the end of the Plan period. A regular administrative machinery will gradually come into existence.

The Plan also includes many construction works including community hall-cum-library in each island involving an expenditure of more than Rs. 17 lakhs.

This is an ambitious plan almost two and a half times the size of the plan which the Madras Government had in mind. The outlay on the Plan items alone works out to about Rs. 350 per head of population, which is much more than any allocation to any backward area on the mainland of India. It is hoped that this Plan will succeed in diversifying the occupational pattern of the islands.

An Advisory Council has been constituted by the Ministry of Home Affairs with five islanders to advise the Administrator on matters of administration involving general policy, schemes of development, improvement in sanitation, communications, education, health and other items intended for the betterment of the condition of the population and to make the islands self-supporting.

One member is nominated to the Lok Sabha from the islands. The name of the present member is Koyilat Nallakoya from Androth Island.

MADHYA PRADESH

Area : 171,501 square miles.	
Population (1951) : 26,071,654* (Males 19,264,996. Females 12,816,718)*	
Density of Population per square mile : 152.	
Number of Hindus	24,653,276
Sikhs	39,877
Muslims	1,040,345
Christians	81,005
Number of persons :	
Scheduled Castes	3,490,761*
Scheduled Tribes	3,665,254*
Rural Population	22,958,898
Urban Population	3,161,164
Number of persons speaking each of the Languages prevalent :	
Hindi	19,965,972
Urdu	365,969
Marathi	582,821
Rajasthani	896,644
Gujrati	114,000
Sindhi	128,041
Other Languages	4,392,000
Literacy : 9.9 per cent.	

ADMINISTRATIVE SET-UP

For administrative purposes, the State has been split up into seven divisions with a Commissioner at the head of each. The headquarters of each of these are located at Bhopal, Bilaspur, Gwalior, Indore, Jabalpur, Raipur and Rewa. The following are the names in italics of the headquarters of the divisions with the area in sq. miles and population of each division and names of districts (headquarters in brackets) under their charge :—

- 1) *Bhopal* (22,178 ; 30,46,817) : Sehore (Sehore) ; Balen (Balien) ; Bhilsa (Vidisha) ; Hoshangabad (Hoshangabad) ; Betul (Betul) ; Rajgarh (Rajgarh) ; Shahjapur (Shahjapur).
 - 2) *Bilaspur* (21,257 ; 34,21,198) : Bilaspur (Bilaspur) ; Raigarh (Raigarh) ; Surguja (Ambikapur).
 - 3) *Gwalior* (17,199 ; 28,11,074) : Gwalior (Gwalior) ; Bhind (Bhind) ; Morena (Morena) ; Shivpuri (Shivpuri) ; Guna (Guna) ; Datia (Datia).
 - 4) *Indore* (27,327 ; 46,46,831) : Indore (Indore) ; Ratlam (Ratlam) ; Ujjain (Ujjain) ; Mandasaur (Mandasaur) ; Dewas (Dewas) ; Dhar (Dhar) ; Jabhua (Jabhua) ; Nimar (Kharagone) ; Nimar (Khandwa).
 - 5) *Jabalpur* (29,345 ; 46,99,850) : Jabalpur (Jabalpur) ; Balaghat (Balaghat) ; Chhindwara (Chhindwara) ; Seoni (Seoni) ; Nagar (Nagar) ; Mandla (Mandla) ; Damoh (Damoh) ; Narsimhapur (Narsimhapur).
 - 6) *Raipur* (30,876 ; 40,35,508) : Raipur (Raipur) ; Bastar (Jagdalpur) ; Durg (Durg).
 - 7) *Rewa* (22,870 ; 34,10,376) : Rewa (Rewa) ; Sidhi (Sidhi) ; Satna (Satna) ; Panna (Panna) ; Chhatarpur (Chhatarpur) ; Tikamgarh (Tikamgarh) ; Shahdol (Shahdol).
- | | |
|--|------|
| Number of Districts | 48 |
| Number of Tahsils | 190 |
| Number of Municipalities | 150 |
| Strength of the State Legislative Council | 90 |
| Strength of the State Legislative Assembly | 289† |
| Number of members returned from State to the Lok Sabha | 96 |
| Number of members returned from State to the Rajya Sabha | 16 |

DISTRICTS & TALUKAS

Names of Districts showing the area in square miles and population respectively of each district followed by the names, area in square miles and population respectively of the talukas in that particular district within brackets.

Balaghat Dist. : 3,573 ; 6,93,379 (Balhar : 1,556 ; 1,24,772 ; Balaghat : 1,085 ; 2,45,756 ; Waraseoni : 916 ; 3,22,851).

Bastar District : 15,132 ; 9,13,746 (Antagarh-Narayanpur : 2,885 ; 73,258 ; Bhanupratappur : 489 ; 46,706 ; Bijapur : 3,299 ; 72,912 ; Dantewara : 1,036 ; 1,04,329 ; Jagdalpur : 1,935 ; 2,79,965 ; Kanker : 941 ; 1,15,235 ; Kondagaon : 1,921 ; 1,44,563 ; Konta : 1,986 ; 76,730).

Betul District : 3,899 ; 4,51,655 (Betul : 1,598 ; 1,57,670 ; Bhainsdehi : 1,340 ; 1,07,816 ; Mutial : 972 ; 1,86,669).

Bhilsa District : 2,894 ; 3,89,161 (Basoda : 912 ; 1,28,497 ; Bhilsa : 721 ; 1,11,149 ; Kurwai : 341 ; 53,377 ; Sironj-Lateri : 850 ; 98,138).

Bhind District : 1,723 ; 5,27,978 (Bhind : 537 ; 1,91,240 ; Gohad : 386 ; 1,06,407 ; Lahar : 418 ; 1,34,947 ; Mehgaon : 367 ; 95,384).

Bilaspur District : 7,644 ; 17,57,660 (Bilaspur : 2,208 ; 5,57,875 ; Janjgir : 1,325 ; 5,78,522 ; Katghora : 2,553 ; 2,75,899 ; Mungeli : 1,452 ; 2,67,341 ; Sakli : 106 ; 58,028).

Chhatarpur District : 3,380 ; 4,81,140 (Bijawar : 1,378 ; 1,36,697 ; Chhatarpur : 1,316 ; 2,41,694 ; Laundi : 695 ; 1,02,479).

Chhindwara District : 4,578 ; 6,46,430 (Amarwara : 1,483 ; 1,40,592 ; Chhindwara : 1,981 ; 3,31,354 ; Sausar : 1,114 ; 1,74,484).

Damoh District : 2,022 ; 3,57,463 (Damoh : 1,248 ; 2,34,427 ; Hattia : 774 ; 1,23,030).

Datia District : 782 ; 1,64,314 (Datia : 414 ; 97,103 ; Seondha : 319 ; 67,211).

Dewas District : 2,765 ; 3,45,306 (Bagli : 551 ; 56,194 ; Dewas : 393 ; 97,558 ; Kannod : 522 ; 55,425 ; Khategaon : 413 ; 42,874 ; Sonakatch : 497 ; 93,255).

Dhar District : 3,154 ; 5,05,268 (Badnawar : 425 ; 66,008 ; Dhar : 748 ; 1,12,139 ; Kukshi : 664 ; 1,13,682 ; Manawar : 844 ; 1,83,478 ; Nardarpur : 449 ; 50,961).

Durg District : 7,576 ; 14,81,756 (Remetara : 1,567 ; 2,99,236 ; Chhikhadan : 137 ; 33,757 ; Dongargarh : 302 ; 78,055 ; Durg : 1,184 ; 3,88,033 ; Kawardha : 399 ; 89,830 ; Khairagarh : 310 ; 65,214 ; Khamariya : 16 ; 37,127 ; Rajnandgaon : 742 ; 2,18,844 ; Sanjari : 2,015 ; 3,21,661).

Gird District : 2,014 ; 5,50,299 (Bhandar : 252 ; 51,964 ; Ghatigaon : 600 ; 59,659 ; Gird : 518 ; 3,05,657 ; Pichhore : 620 ; 1,13,019).

Goona District : 4,271 ; 4,78,810 (Chachaura : 447 ; 71,550 ; Goona : 1,126 ; 1,05,654 ; Mungoli : 879 ; 97,489 ; Pachhar : 929 ; 1,20,798 ; Raghogarh : 761 ; 83,324).

Hoshangabad District : 3,713 ; 5,08,788 (Harda : 1,127 ; 1,46,513 ; Hoshangabad : 776 ; 1,56,226 ; Pachmarhi : 23 ; 5,242 ; Seoni Malwa : 521 ; 62,850 ; Sohagpur : 1,266 ; 1,37,957).

Indore District : 1,479 ; 5,96,622 (Depalpur : 396 ; 69,315 ; Indore : 360 ; 3,78,334 ; Mhow : 298 ; 90,705 ; Rawer : 271 ; 52,268).

Jabalpur District : 3,918 ; 10,45,596 (Jabalpur : 999 ; 4,30,381 ; Murwara : 1,057 ; 2,67,915 ; Patan : 542 ; 1,06,648 ; Sihora : 1,181 ; 2,38,752).

Jabhua District : 2,616 ; 3,82,673 (Alirajpur : 92,766 ; Jabhua : 496 ; 88,588 ; Johat : 284 ; 90,672 ; Petlawad : 383 ; 47,129 ; Thandla : 403 ; 63,518).

Mandla District : 5,127 ; 5,47,620 (Dindori : 1,561 ; 1,42,472 ; Mandla : 2,108 ; 2,55,367 ; Niwas : 1,388 ; 1,49,781).

Mandasaur : 3,961 ; 6,06,601 (Bhanpura : 453 ; 72,866 ; Garoth : 437 ; 70,139 ; Jawad : 578 ; 72,409 ; Malhargarh : 311 ; 69,035 ; Manasa : 562 ; 81,746 ; Mandasaur : 511 ; 1,19,340 ; Neemuch : 315 ; 78,691 ; Sitamau : 499 ; 80,635).

Morena District : 4,476 ; 6,33,581 (Ambah : 417 ; 1,44,034 ; Bijaypur : 1,080 ; 55,646 ; Jaura : 596 ; 1,17,151 ; Morena : 397 ; 1,21,136 ; Sabalgarh : 497 ; 1,00,153 ; Sheopur : 1,461 ; 95,461).

Narsimhapur District : 1,978 ; 3,39,110 (Gadarwara : 909 ; 1,74,292 ; Narsimhapur : 1,069 ; 1,64,818).

Nimar (Khandwa) District : 4,132 ; 5,23,496 (Burhanpur : 1,138 ; 1,76,410 ; Harud : 1,218 ; 1,02,775 ; Khandwa : 1,871 ; 2,44,311).

Nimar (Kharagone) District : 8,200 ; 7,54,694 (Barwaha : 450 ; 86,534 ; Barwani : 253 ; 82,633 ; Bhikanganon : 617 ; 68,770 ; Kasrawad : 388 ; 64,281 ; Kharagone : 679 ; 1,52,700 ; Maheshwar : 281 ; 60,007 ; Rajpur : 512 ; 1,16,865 ; Rindhwa : 518 ; 1,27,144).

Panna District : 2,716 ; 3,58,703 (Ajajgarh : 264 ; 45,410 ; Panna : 1,219 ; 1,12,920 ; Pawal : 1,306 ; 1,00,373).

Raigarh District : 5,044 ; 8,61,497 (Gharghoda : 519 ; 1,08,007 ; Jashpur : 1,764 ; 2,55,328 ; Kharwa : 219 ; 86,515 ; Raigarh : 324 ; 1,34,473 ; Sarangarh : 341 ; 1,42,856 ; Udaipur : 677 ; 1,34,018).

Raipur District : 8,214 ; 16,40,006 (Baloda Bazar : 1,780 ; 4,26,289 ; Bindranawagarh : 1,877 ; 1,84,324 ; Dhamtari : 1,628 ; 2,84,932 ; Mahasamund : 1,922 ; 3,69,834 ; Raipur : 1,115 ; 3,84,269).

Raisen District : 3,272 ; 3,15,358 (Barilly : 520 ; 70,401 ; Begumganj : 351 ; 41,390 ; Ghalratganj : 361 ; 28,260 ; Gohargunj : 672 ; 45,824 ; Balen : 526 ; 43,721 ; Siwani : 499 ; 35,584 ; Udaipur : 322 ; 50,178).

Rajgarh District : 2,343 ; 4,27,523 (Bisara : 440 ; 75,962 ; Khichipur : 625 ; 1,19,106 ; Narsingarh : 517 ; 93,584 ; Rajgarh : 423 ; 67,149 ; Sarangpur : 349 ; 71,718).

Ratlam District : 1,736 ; 3,83,894 (Aliot : 369 ; 72,077 ; Jaura : 793 ; 1,19,004 ; Ratlam : 501 ; 1,38,313 ; Sailana : 475 ; 54,500).

Rewa District : 2,509 ; 6,33,706 (Hazar : 707 ; 1,86,056 ; Mauganj : 694 ; 1,70,465 ; Nirmour : 526 ; 1,57,977 ; Teonthas : 586 ; 1,19,208).

Sagar District : 3,770 ; 6,36,191 (Handa : 512 ; 92,391 ; Khurai : 940 ; 1,52,163 ; Rehl : 1,254 ; 1,51,644 ; Nagar : 1,064 ; 2,39,993).

Satna District : 2,823 ; 5,55,603 (Amar Patan : 390 ; 1,18,321 ; Maihar : 413 ; 89,523 ; Nagod : 665 ; 1,09,615 ; Raghuraj Nagar : 1,272 ; 2,38,144).

Schore District : 3,599 ; 5,21,116 (Akhia : 555 ; 83,108 ; Bernasia : 548 ; 65,678 ; Budni : 415 ; 37,325 ; Husar : 517 ; 1,69,987 ; Ichhawar : 429 ; 34,629 ; Narmullahganj : 510 ; 32,746 ; Sehore : 607 ; 97,443).

Seoni District : 3,216 ; 4,34,061 (Lakhnadon : 1,460 ; 1,53,768 ; Seoni : 1,756 ; 2,80,293).

Shahdol District : 5,412 ; 6,50,757 (Bandhogarh : 1,403 ; 1,30,486 ; Beohari : 1,051 ; 1,06,457 ; Pashpargarh : 684 ; 66,283 ; Sohagpur : 2,381 ; 3,47,531).

Shajapur District : 2,328 ; 4,33,216 (Agar : 565 ; 90,327 ; Shajapur : 698 ; 1,41,517 ; Shujalpur : 637 ; 1,20,621 ; Sumner : 495 ; 80,781).

Shivpuri District : 3,981 ; 4,76,092 (Kasera : 784 ; 1,15,841 ; Kolarar : 857 ; 92,146 ; Pichhore : 890 ; 1,28,613 ; Pohri : 612 ; 64,597 ; Shivpuri : 760 ; 74,905).

Sidhi District : 4,060 ; 4,64,302 (Deosar : 1,479 ; 1,13,656 ; Gopadbanas : 1,839 ; 2,66,111 ; Simgrauli : 754 ; 84,535).

* The figure is slightly different from the Central Govt. figure.

† Includes Sunel Tappa transferred to Rajasthan.

‡ Not formed yet (June 1959).

§ One nominated.

Surguja District: 8,623; 8,22,041 (Ambikapur: 1,865; 2,77,703; Baikunthpur: 493; 66,513; Bharatpur: 1,224; 24,100; Manendragarh: 742; 77,694; Pal: 1,352; 90,503; Samri: 632; 59,789; Surajpur: 2,085; 2,25,739).

Tikamgarh District: 1,943; 3,66,165 (Jafara: 776; 1,28,796; Newari: 403; 99,119; Tikamgarh: 769; 1,34,250).

Ujjain District: 2,352; 5,44,280 (Barnagar: 453; 84,029; Khachraud: 483; 91,304; Mahidpur: 436; 73,277; Tarana: 409; 77,461; Ujjain: 568; 2,17,202).

GEOGRAPHY

On November 1, 1956, as a result of the States reorganisation, Madhya Pradesh emerged as the second largest State on the new map of India. Stretching from the Chambal in the north to the Godavari in the south, the new State is composed of the former Madhya Bharat, Bhopal and Vindhya Pradesh States together with the 17 Hindi districts of the former Madhya Pradesh, and Sironj Sub-division of Kotah district of Rajasthan, excluding the Sunel enclave of the Mandasaur district in former Madhya Bharat. It comprises an area of 171,201 sq. miles with a population of 26,071,654. Situated centrally, gridded by six states, viz., Uttar Pradesh, Bihar, Orissa, Andhra Pradesh, Bombay and Rajasthan, it lays a rightful claim to be the heart of India.

Physical Regions: Ranging between latitudes 18°N and 24°N and between longitudes 74°E and 81°E, with the Tropic of Cancer running along parallel to the Narmada, the main physical regions of the new State are, the Gird Region, the Malwa Plateau, the Narmada Valley, the Satpura ridge and the Chhattisgarh plains. Except for a few undulations the level of the plains is generally unbroken. The Vindhya and Satpura are the two parallel ranges running west to east through the middle of the State. The main river systems are the Chambal, Betwa, Sone, Narmada, Tapti, Mahanadi and Indrawati.

Nearly the entire State receives good rainfall ranging from 30 to 60 inches generally and between 30 and 35 inches in Bhopal, 30 and 40 inches in Malwa, 30 and 35 inches in Bundelkhand and nearly 60 inches in Chhattisgarh.

Soil and Crop: The State possesses soils of almost every class, from the rich black cotton soil to the dry and stony red earth. The Malwa region abounds in rich black cotton soil. The low-lying areas of Gird, Bundelkhand and Baghelkhand have lighter soils with a proportion of sand in them. The Narmada Valley is formed of deep alluvial deposits of extreme richness and the Chhattisgarh plains have yellow and sandy soil.

The chief food crops are wheat in Malwa, Narmada Valley, Satna, Chhatarpur and Bhopal, rice in Chhattisgarh, Shahdol, Rewa, Dhar and Indore, and Juar in Bhopal, Khargone, Ujjain, Shajapur, Mandasaur and Guna and pulses all over the State. Cash crops include cotton in Malwa, and Nimar and sugarcane and oil seeds all over the State.

Nearly 20 per cent of the State's area is covered by forests. The forests are chiefly sal, palas, babul, salai, dhavra, tendu, mahua, bamboo, teak, sal, anjan and harra. The largest products of the best quality teak in India come from these forests. In 1954-55 (Budget Estimates) the yield from forests to the State Government is expected to figure Rs. 643.55 lakhs.

The total cultivated land in the State during 1950-57 amounts for 38,351,503 acres which is 85 per cent of the total area. Of this, irrigated land is 2,048,508 acres with 1,089,187 acres under rice, 406,216 acres under wheat and 125,573 acres under sugarcane. Percentage of irrigated land to the net cropped area is 5.3.

Economy: The economy of the State is predominantly agricultural, since 78 per cent of its total population is dependent on agriculture for its livelihood. Nearly a third of its area has been brought under the plough, principal crops being rice, wheat, juar, maize, bajra, pulses, oil seeds and cotton.

MINERALS

The State contains extensive belts of mineral deposits. Nearly 25 various minerals are at present being exploited from 591 mines. In 1951, the estimated value of the output of these mines was round about Rs. 8.4 crores. The State has great industrial potential. The expansive coal and iron and manganese deposits in the Chhattisgarh Division promise to make it the industrial beehive of the country. Deposits of bauxite have been located in Amarkantak, Balaghat, Seoni and other districts. The mineral areas of former Vindhya Pradesh are Sidhi, Rewa, Panna, Chhatarpur and Tikamgarh, the minerals exploited being coal, ochre, sillimanite, corundum and diamond. Limestone is also found extensively. The number of leases in 1957 was: coal 68, manganese 248, limestone 142, china-clay 13, bauxite 11, steatite 14, felspar 2 and diamond 3. The diamond mines are spread over an area of 23-50 sq. miles and are responsible for 95 per cent of India's diamond production.

The chief Minerals in the State with location in brackets are as below:

Coal (Chhindwara, Bilaspur, Raigarh, Surguja, Shahdol), Iron Ore (Durg, Bastar, Jabalpur, Gird, Mandasaur, Khargone, Chhatarpur, Sidhi), Manganese Ore (Balaghat, Chhindwara, Jabalpur, Jabua, Bilaspur, Mandla), Bauxite (Jabalpur, Surguja, Bilaspur, Mandla, Balaghat, Raigarh, Shahdol, Satna), Diamond (Panna), Corundum and Sillimanite (Sidhi), Glass sand (Satna, Jabalpur, Morena), Graphite (Betul), Barytes (Sidhi, Jabalpur, Tikamgarh, Dewas), Felspar (Chhindwara, Shahdol), Talc (Jabalpur, Jabua), Soap stone (Durg, Jabalpur, Sidhi, Jabua, Chhatarpur), Yellow ochre (Satna, Datia), Red Ochre (Gird, Shivpuri), Red Oxide of Iron (Jabalpur), Kaolin (Jabalpur, Shahdol, Dewas), White clay (Satna, Jabalpur), Fuller's Earth (Jabalpur), Fire Clay (Surguja, Bilaspur, Shahdol, Chhindwara, Mandasaur, Narsinghpur, Raigarh, Sidhi), Dolomite (Bilaspur, Khargone), Slate-pencil-shale (Mandasaur), Limestone (Jabalpur, Satna, Rewa, Raipur, Durg, Bilaspur, Raigarh, Raisen, Sehore, Mandasaur, Morena).

The following non-ferrous metals are reported to occur in districts shown in bracket against each.

Lepidolite (Bastar); Mica (Surguja, Balaghat); Fluorspar (Durg, Jabalpur, Raigarh); Lithographic stone (Damoh, Nimar); Copper (Bastar, Sidhi, Jabalpur, Balaghat, Narsinghpur, Sheopuri, Dewas); Lead Ore (Jabalpur, Sheopuri, Gird, Surguja, Raipur, Durg); Alluvial gold (Raipur, Surguja, Raigarh, Balaghat, Bastar).

The total production of minerals in 1957 and 1956 (in brackets) was Coal, 4,638,746 tons (4,840,211 tons); Manganese ore 332,326 tons (443,368 tons); Lime stone 873,487 tons (844,553 tons); Iron ore 31,665 tons (34,569 tons); Talc 4,923 tons (3,918 tons); Fireclay and White Clay 84,671 tons (72,327 tons); Bauxite 48,191 tons (41,644 tons); Red and Yellow Ochres 1,272,734 tons 4 cwts. (10,229 tons); Felspar 1,156 tons (941 tons); Graphite nil (25 tons); Asbestos 10 tons (387 tons); Shale 118,029 cwt. (112,241 cwt.); Corundum 431.7 tons (339 tons); Sillimanite 2,628.7 tons (839 tons); Diamonds 719 Rattis 10 annas (1,190 Rattis 7 annas); Steatite 42,609 cwt. (in 1954); Dolomite 11,442 tons (in 1954).

The value of minerals produced and despatched for consumption during the year 1956 was Rs. 12,80,35,000 and the State receipt by way of royalty was Rs. 59,25,000 to which coal contributed Rs. 32,08,597, Manganese Rs. 18,13,163 and other minerals Rs. 8,43,217.

The total number of labourers employed in the mines of major minerals was 71,437.

TRANSPORT

1957-58 figures: Total mileage of roads: 17,236.

Mileage of metalled roads: 11,357.

Mileage of unmetalled roads: 5,879.

Transport has been partly nationalised in the State.

Name of the Authority:—

Central Provinces Transport Services and Madhya Bharat Roadways.

(Government owned and operated.)

LARGE-SCALE INDUSTRY

Main large-scale industries of the State with location in brackets:—

Cotton Textile (Indore, Gwalior, Ujjain, Mandasaur, Dewas, Bhopal, Ratlam, Burhanpur, Rajnandgaon); Newsprint (Nepanagar); Cement (Kymore, Banmore, Satna, Durg); Sugar (Dabra, Dalauda, Jaora, Sehore, Saranpur, Mahidpur); Potteries (Gwalior, Jabalpur, Ratlam, Mandla); Biscuits (Gwalior); Art-Silk (Gwalior, Ujjain, Indore, Burhanpur, Nagda); Glass (Jabalpur); Jute (Raigarh); Rayon (Gwalior, Nagda); Heavy electricals (Bhopal); Textile machinery (Gwalior); Engineering (Gwalior, Indore, Ujjain); Iron and Steel (Bhilai); Refractories (Jabalpur, Katni); Staple fibre (Nagda); Strawboard (Bhopal, Ratlam); Vanaspathi (Indore); Flour (Bhopal, Basoda, Ujjain, Raipur).

The cotton textile industry in the State has 12,520 looms and 4,99,044 spindles in 19 mills. The biggest cement factory of the country is located at Kymore near Katni. The country's only newsprint mill is located at Nepanagar. The Bhilai Steel Plant near Durg is fast coming up. Other important industries are potteries, biscuits, sugar, art silk, diesel engines, jute, glass, engineering goods and rayon.

Production in each industry: Cotton textiles 40 crore yards; Sugar 9,23,523 maunds (1957-58); Biscuits and confectionery 3,000 tons; Cement 4,10,000 tons; Newsprint 30,000 tons.

Total no. of registered factories: 1,973.

Total no. of workmen employed: 1,42,723.

COTTAGE INDUSTRIES

The State is also famous for traditional village and home crafts. The handloom industry has earned a good reputation for its Chanderi and Maheshwari sarees, Kosha Silk and other traditional fabrics. The well known handicrafts are printing (chunari, Nanda, Tie and Dye), leather toys, papier-mâché, lacquerware articles, dolls, earl, upari work, softstone work and others.

Main Cottage Industries in the State with location in brackets.—Handloom (nearly 1,10,000 looms spread all over the State but best developed at Chanderi, Maheshwar, Burhanpur, Jabalpur, Raipur, Sehore, Ashtha and Panna); Kosa or Tusser silk (Raigarh, Chhapa, Raipur, Surguja); Mulberry (Indore, Dewalpur, Dhar); Fine sarees (Chanderi, Maheshwar, Burhanpur); Wood work and lacquerware (Sheopur, Sabalgarh, Budhni, Rewa, Gwalior); Wooden toys (Rewa, Bhopal, Ratlam); Soft-stone (Jabalpur, Chhatarpur); Lac (Seoni, Raipur, Bilaspur, Umrina and Rewa); Saw Milling (Betul, Bhopal, Balaghat, Bilaspur and Mandla); Brassware (Balaghat, Chhindwara, Raipur and Chhatarpur).

AGRICULTURE

Figures for 1956-57:

Main food crops of the State: Rice, Juar, Wheat, Gram, Tur, Maize, Bajra, Barley.

Main cash crops of the State: Cotton, Sugarcane, Tobacco, Groundnut, Castor, Sesamum, Rape, Mustard, Linseed.

Total production of food crops in tons: 7,701,654.

Production of individual food crops in tons: Rice 3,264,000; Wheat 1,702,900; Juar 1,082,100; Gram 991,300; Bajra 89,416; Maize 187,874; Barley 131,432; Tur 252,632.

Production of cash crops in tons: Cotton 569,276 (bales); Sugarcane 187,154 (in terms of gur); Groundnut 108,012; Castor 2,452; Sesamum 66,500; Rape and Mustard 55,574; Linseed 130,438; tobacco 4,007.

Total area cultivated (net area sown): 38,351,563 acres.

Total area under wet cultivation (total net irrigated area: 2,048,508 acres).

Total area under food-crops: 36,889,453 acres.

Area under individual food-crops: Rice 9,618,442 acres; Juar 4,083,474 acres; Wheat 8,009,370 acres; Bajra 425,071 acres; Maize 1,063,941 acres; Barley 809,261 acres; Gram 3,408,918 acres; Tur 847,635 acres.

Area under cash crops: Sugarcane 130,820 acres; Groundnut 822,450 acres; Cotton 1,894,200 acres; Tobacco 15,825 acres; Castor 28,937 acres; Sesamum 794,100 acres; Rape and Mustard 377,140 acres; Linseed 1,713,783 acres.

Plantation in State: Jute.

Forests: Total Forest Area of State 33,443,172 acres

Main forest produce: Timber, Firewood and Charcoal wood, Katha.

Cattle: Total number of Cows: 7,242,274; Total number of Buffaloes 2,240,910; Total number of Horses and Ponies: 253,156; Total number of Sheep: 901,015; Total number of Goats: 5,218,949; Other Livestock: 428,330; Poultry: 5,388,549

(For more statistical information see main article on Agriculture.)

ELECTRIC POWER

The development of electricity in the constituent units of Madhya Pradesh is recent, the First Five-Year Plan being responsible for the establishment of a number of power projects. Including the installed capacity of the former Madhya Pradesh, Vindhya Pradesh, Bhopal and Madhya Bharat, the total installed capacity was nearly 180,000 kW.; of this total, the former Madhya Pradesh alone had a capacity of 100,000 kW. Apart from the share to be available from Khaparkheda, the new State has a capacity of about 80,000 kW. apart from the new projects being installed. The major power stations in the 17 districts of Madhya Pradesh include a pilot power station at Raipur with an installed capacity of 5,000 kW., Chandni Power House with 17,000 kW., Jabalpur Power House with 9,250 kW., Katni Power House with 3,300 kW., Itarsi Power Station with 3,000 kW. A total of 31,100 kW. in former Madhya Bharat, includes 14,000 kW. Power House at Indore, 4,500 kW. Power House at Gwalior, and a dozen other power houses. The former Vindhya Pradesh had a total capacity of 5,985 kW. and Bhopal 3,600 kW. The power projects in the offing include among others the Korba Power Station with a capacity of 90,000 kW. and the Gwalior Thermal Station with a capacity of 25,000 kW. The Sagar Power Station was opened on 3-11-1957. It has a capacity of 2,500 kW. and the cost of the station is Rs. 7 lakhs.

Among the important power schemes under the Second Five-Year Plan are the Chambal Power Project with a capacity of 210,000 kW., the Bhopal Power Scheme, and the Birsinghpur power station with a capacity of 60,000 kW.

During 1959-60 a sum of Rs. one crore is to be spent on the expansion of Chandni Power Station

Power supply to NEPA will increase and the production will increase from 65 to 100 tons a day.

CO-OPERATION

(See under article on Co-operation.)

LAND TENURE

Different land tenure systems have been operating in the four constituent units of the new State but a uniform pattern is slowly emerging. In the former Madhya Pradesh, Vindhya Pradesh, Bhopal and Madhya Bharat, Zamindari, Malguzari and Jagirdari systems were abolished and legislative enactments have been framed and implemented. The former Madhya Pradesh also codified all land laws into what is now known as the Land Revenue Code.

The Madhya Pradesh Abolition of Proprietary Rights (Estates, Mahals, Alienated Lands) Act, 1950 (1 of 1951), has now been fully implemented and the State has taken possession of all the villages vested in the State under the above Act.

Number of persons expropriated under the law: about 150,000.

The compensation money will be paid from the State Revenue.

The State Government have decided that in future, Government land should be given for cultivation purposes to only co-operative societies of landless and petty cultivators or to landless or petty cultivators.

Under the new Land Revenue Code, there would be only two classes of tenures (besides Government leases) for persons holding land from the State Government. After the abolition of proprietary rights, the land is now held directly from the State Government.

Any person who held land as a *malik-makbuz* in the Central Provinces or the merged territories or who held land as *raiyat malik* in the Central Provinces, or who held land as an absolute occupancy tenant or a plot proprietor or as a lessee of the Government will now be called "Bhumiswami."

Any person who held land as an occupancy tenant in the Central Provinces, as a *raiyat* in the merged territories, or as a permanent tenant or lessee of Government will be called "Bhumidhari."

A "Bhumiswami" may transfer any interest in his land and a "Bhumidhari" may transfer, otherwise than by way of mortgage, any interest in his land. No decree or order shall be passed for the sale or foreclosure of any right of the "Bhumidhari" in his land nor shall such right be attached or sold in execution of any decree or order.

The Madhya Pradesh Abolition of Proprietary Rights Act, 1950, provided for the acquisition of *malik-makbuz* rights on payment of a multiple of land revenue which varied from two to five times. To secure uniformly a multiple of three times has been prescribed for acquisition of "Bhumiswami" rights.

The "Bhumiswami" will have full rights in trees standing on his holdings; but a "Bhumidhari" will have no right in the corpus of the trees.

Any person who holds land for agricultural purposes from a tenure-holder and who is not occupancy tenant or protected lessee and who

pays lease money in the form of crop share will be ordinary tenant of such land.

The Land Tenure System in the former Madhya Bharat State—Kiyotwari.

Number of cultivators under the system: 1,569,182.

Law governing land tenure system: Madhya Bharat Land Revenue and Tenancy Act, Samvat 2007.

Main provisions of the Act: No land to be allotted to a person holding 50 acres or more as pucca tenant. Allotment of land for any purpose other than agriculture can only be made by Government sanction.

No partition of pucca tenant's holding unless the tenant is left with at least 15 acres; A pucca tenant may mortgage his land by a simple or usufructuary mortgage to a *bona fide* agriculturist for a period not exceeding six years.

Pucca tenant's rights not to be sold if his total holding is 15 acres or less; Tenant to be exempt from arrest and imprisonment in execution of decrees passed by civil court or revenue authority.

Subject to rules under the Act, pucca tenant entitled to have, free of charge, suitable house site in village; Allotment of land to be made by auction, preference being given to those having less than 15 acres in the same village or to those who have no land as pucca tenant.

Zamindari and Jagirdari abolition: Laws for abolition of Zamindari and Jagirdari (Madhya Bharat Zamindari Abolition Act, Samvat 2006, and Madhya Bharat Jagirdari Abolition Act, Samvat 2008) have been enacted and enforced. Compensation payment to zamindars and jagirdars already commenced.

Provision of compensation: Eight times the net income for zamindars and seven times the net income for jagirdars.

In the former Vindhya Pradesh region 1/3 area was under the Jagirdari system. The V.P. Abolition of Jagirs and Land Reforms Act, 1952 was passed and the Jagir rights were abolished by 30-6-1954. According to this Act, rights of 21,722 jagirdars were abolished and the State revenue increased by Rs. 40,44,000.

The dispossessed jagirdars have challenged the Abolition of Jagirs and Land Reforms Act before the Supreme Court and meanwhile receive interim compensation.

In about 1/4th of former State of Bhopal there were Jagirdars and their rights were abolished by the Bhopal Abolition of Jagirs and Land Reforms Act, 1953

The following table gives an idea of the progress in the payment of compensation as at the end of 1958:

Region	Amount payable (in lakhs) Rs.	Amount paid (in lakhs) Rs.	Balance payable (in lakhs) Rs.
Mahakoshal	300	240	60
Madhya Bharat	900	500	400
Vindhya Pradesh	205	82	123
Bhopal	7.2	6.2	1.00
TOTAL	1,412.2	828.2	584

EDUCATION AND PUBLIC HEALTH

The figures relate to 1958:

Total no. of Degree Colleges: 60.

Total no. of Intermediate Colleges: 8.

Total number of Teacher Training Colleges: 9.

Total no. of Professional Colleges: 16.

(Medical 4, Engineering 4, Agriculture 4; Veterinary 2; Ayurvedic 2).

Number of Universities 3

Names of the Universities with location in brackets:—University of Sagar (Sagar), Jabalpur University (Jabalpur), Vikram University (Ujjain).

PUBLIC HEALTH

Figures upto March 1958 Source: Public Health (G.A.D.) Report for 1-11-1956 to 31-3-1958:

Common diseases in the State: Malaria, Filaria and Tuberculosis.

Number of Medical Institutions: 1,011.

Number of beds: 12,396.

Number of Medical Colleges: 4

No. of allopathic hospitals: 204.

No. of allopathic dispensaries: 481 (1956-57).

Total no. of beds in the allopathic hospitals: 7,498 (1956-57).

No. of T.B. hospitals: 8.

No. of T.B. clinics : 22.
 No. of leprosy homes and hospitals : 10.
 No. of leprosy clinics : 85.
 No. of leprosy study-cum-treatment centres and subsidiary Clinics : 5.
 No. of primary health centres : 105.
 No. of Maternity and Child Welfare Centres (rural and urban) : 92.
 No. of mental hospitals : 2 (1956-57).

LABOUR

Position as on 31st Dec. 1957 :
 Number of registered factories (excluding ordinance factories) : 1,973.
 Number of workers employed in registered factories : 142,723.
 Important industries with the number of units and workers employed respectively in each industry within brackets :

Textile (20 ; about 52,000) ; Sugar (5 ; 4,460*) ; Cement (3, 3,375) ; Potteries (4 ; 2,508) ; Engineering (5 ; 2,467) ; Paper and Straw Board (3 ; 1,590) ; Rayon Silk (2 ; 1,450) ; Jute (1 ; 816) ; Biscuits and Confectionery (1 ; 750).

On March 31, 1958, the no. of registered trade unions was 250, out of which the membership of 157 unions submitting returns was 28,906.

Total number of employments covered under the Minimum Wages Act : 14 (1957).

Approximate number of workers employed in the above employments : 525,000 (1957).

Important categories of employment under the Minimum Wages Act and the approximate number of workers employed in each category :

Bidi Making 232,000 ; Road construction and building operations 117,500 ; Local authorities 91,061 ; Cotton ginning and pressing 29,600 ; Stone breaking and stone crushing 14,000 ; Rice,

Dal, Flour, Oil 12,930 ; Public Motor Transport 8,979 ; Cement 5,000 ; Potteries 2,670 ; Leather goods manufacturing and tanneries 2,500 ; Lac manufacture 1,500 ; Glass 1,080.

Number of employees in shops and commercial establishments in 18 important towns in the Madhya Bharat and Mahakoshal regions (1957) : 41,080.

No. of factories covered by the Provident Fund Scheme (March 31, 1958) : 144 ; no. of factories exempted : 19 ; no. partly exempted : 10. Total no. of workers contributing under the scheme : 88,222.

No. of employees covered by the Employees State Insurance Scheme (March 31, 1958) : 65,000. The scheme is in operation in Indore, (Gwalior, Ujjain, Ratlam, Burhanpur and Jabalpur.

The Madhya Pradesh Shops and Establishments Act was passed at the end of December 1958.

IRRIGATION

Name of Project.	Location District.	When Started.	When to be completed.	Capacity M. cft.	Area proposed for Irrigation (in Acres).	Total cost (lakhs of Rs.)	Estimated rise in output after completion.
<i>Projects in execution :</i>							(Foodgrains in Tons)
Chambal Valley Development Scheme	Mandsaur	1952	1962	..	14,00,000	7,715-00	4,75,000
Dudhwa Tank Project	Bastar	October, 1953	June, 1960	10,119	1,40,000	212-00	43,750
Sarodha Tank Project	Durg	January 1954	June, 1959	1,853	18,000	70-00	4,300
Chandra Kesar Tank Project	Dewas	..	June, 1963	1,600	12,000	88-59	..
Tawa Project	Hoshangabad	1958	1968	2,005	7,50,000	2,000-00	2,00,000
Satah Tank Project	West Nimar	May, 1955	June, 1960	..	10,000	65-00	..
Nahonara Tank Project	Balaghat	..	June, 1962	..	11,300	55-00	..
Bila River Project	Sagar	1957	1963	..	26,000	138-27	5,200
Kedar Nala Project	Raigarh	February 1957	June, 1962	..	11,500	28-00	..
Keswa Nala Project	Rajpur	October, 1956	..	..	8,000	24-00	..
Development of Maniari	Bilaspur	..	..	..	24,000	25-00	..
Begwal Tank Project	West Nimar.	December, 1955	June, 1961	..	4,500	21-00	..
<i>Projects in Operation :</i>							
Gangulpura Tank Project	Balaghat	May 1953	March 1959	387-47	5,500	50-00	1,705
Dukrikheda Tank Project	Hoshangabad	..	..	406-908	6,400	38-00	1,320
Gondli Tank Project	Durg	October 1953	..	3,080-01	7,500	84-00	10,000
Sampna Tank	Betul	..	..	528-87	9,500	48-00	1,900
Mola Dam	Guna	..	..	..	7,000	30-00	..

* During the season.

SECOND FIVE-YEAR PLAN

The Second Five-Year Plan of the State involves a financial outlay of Rs. 19,090-27 lakhs. The First Five-Year Plan of the four units envisaged a total outlay of only Rs. 8,375 lakhs. The Second Plan, in contrast, is much bigger in size as well as in scope. The distribution of the total outlay between various sectors of development is as follows :—

Head of development	Total
	(In lakhs of Rs.)
1. Agriculture & Community Development	4,262-14
2. Irrigation & Power	7,278-07
3. Industry & Mining	1,035-46
4. Transport & Communications	1,299-62
5. Education	2,062-85
6. Health	1,433-11
7. Housing	450-24
8. Other Social Services	928-17
9. Scientific & Industrial Research etc.	324-53
10. Trade & Commerce	6-08
Total	19,090-27

Broadly speaking, 74-70 per cent of the total outlay represents real investment which would lay the foundations of the State's growing prosperity, both in industrial as well as in agricultural fields. The remaining outlay of 25-30 per cent will be spent on social services including education, health, housing etc. Besides, there are the Central Government Projects such as the Rs. 131-crore Steel Plant at Bhilai, opening of the Korba Coal Mines with an approximate cost of Rs. 21 crores and the establishment of a Heavy Electrical Equipment Plant at Bhopal.

Agriculture : Continued emphasis has been given to agriculture and allied subjects including the Community Development Programmes. During the period, about 55,000 acres of land will be brought under the plough and over 3 lakh acres of land under irrigation. During the same period, Rs. 728-66 lakhs will be spent over agricultural production and Rs. 618-03 lakhs over land development. The Animal Husbandry Plan is for Rs. 385-40 lakhs. For Dairying and Milk supply Rs. 77-59 lakhs, for Co-operation Rs. 376-80 lakhs, for Forests Rs. 276-64 lakhs and for Fisheries Rs. 24-80 lakhs have been provided in the Plan.

Community Development Programmes : By October 1963, every village will be covered by the Community Development Programme. The State has been divided into 416 N.E.S. Blocks.

On 31st August 1958, there were 100 N.E.S., 10 multi-purpose tribal, 58 C.D. and 44 post-intensive phase blocks, totalling 212 blocks. They covered 40,724 villages and a population of approximately 125 lakhs.

Irrigation & Power : 38-17 per cent of the total outlay is provided in the Plan for irrigation & power plans. Irrigation projects of the State comprise multi-purpose projects, major and medium projects, minor irrigation projects, tube-wells and flood protection works. These include the Chambal Hydel & Irrigation Project, remodelling of Mahanadi Canal in Rajpur District, Bila River Project in Sagar, Sukta River Project in Nimar, Pampavati Tank Project in Jabara District, Choral River Project in Indore District, Chilar River Project in Shahapur District, Ravigawan Canal Project in Satna District, the upper Ken Valley Project in Panna and the Nagod Canal in Satna District.

The Chambal project alone will irrigate about seven lakh acres of land and generate 2,10,000 kW. of power. The Korba Thermal Scheme will generate 90,000 kW. of power.

Important among the power schemes are the Chambal Power Project with a capacity of 2,10,000 kW., the Korba Thermal Station Scheme with 90,000 kW. and the Bhopal Power House.

Another important project is the Birsinghpur Power House estimated to cost Rs. 10.63 crores with a capacity of 60,000 kW.

Special mention may be made of the Korba Thermal Station Scheme which was originally estimated to cost Rs. 1,148.31 lakhs. The scheme is intimately connected with the Bhilai Steel Plant. The progress of this scheme has to be maintained according to schedule to meet the demands of the Bhilai Project.

The original proposal for constructing a new Thermal Station at Gwalior has been changed for an alternative proposal for laying a transmission line under the Chambal grid from Sawal-Madhupur to Gwalior. This is now being undertaken by the Chambal Hydel Organisation.

Industry & Mining: During the Second Plan period, 2 Sugar Factories on co-operative basis will be started. A spinning mill of 12,500 spindles will be started which will have a production of 10,000 bales per year. A vegetable oil and solvent extraction plant will be set up at a cost of Rs. 14.28 lakhs. A distillery for power and industrial alcohol is proposed to be started. Preliminary steps have already been taken for the establishment of a synthetic petrol plant at Korba, and a cement factory in Bilaspur district. Nearly 1,000 industrial co-operatives with a membership of 10,000 would be opened to help small scale industries.

All these besides the three major industrial undertakings, viz. the Bhilai Steel Plant, the Heavy Electrical Equipment Plant and the exploitation of the Korba Mines, as also the harnessing of the rich deposits of a variety of mineral resources will make Madhya Pradesh an important industrial area.

Roads will also be improved in the State for which Rs. 1,599.63 lakhs have been provided.

Education: In the Plan, Rs. 800.22 lakhs have been provided for primary, Rs. 471.15 lakhs for secondary, Rs. 287.18 lakhs for technical and vocational and Rs. 300.47 lakhs for higher, Rs. 83.50 lakhs for social and Rs. 10.94 lakhs for physical education.

Over 10,000 primary schools, 7 new girls' high schools, one degree college, one University and a number of junior technical schools, polytechnics and multi-purpose schools will be started during the Plan.

Public Health: New schemes for the control and eradication of diseases, opening of new hospitals, providing medical facilities in rural areas will be taken up. The Plan provides Rs. 496.09 lakhs for hospitals, Rs. 284.10 lakhs for water-supply, Rs. 176.29 lakhs for control of diseases, Rs. 283.18 lakhs for medical education and training, etc.

Provision has also been made for other social services e.g. Rs. 134.10 lakhs for industrial housing, Rs. 92.31 lakhs for urban land development and Rs. 197.17 lakhs for special housing schemes.

The Plan also provides a sum of Rs. 490 lakhs for the welfare of Scheduled Tribes, Rs. 200.00 lakhs for Scheduled Castes and Backward classes and Rs. 127.01 lakhs for labour welfare. A sum of Rs. 18.48 lakhs has also been earmarked for developing tourist traffic.

BUDGET ESTIMATES FOR 1958-59 (See under 'Late Particulars').

MADHYA PRADESH FINANCIAL CORPORATION (Shiv Vilas Palace, Indore City.)

The Madhya Bharat Financial Corporation was set up by a notification of the former Madhya Bharat Government dated 30th June 1955 in exercise of the powers conferred by the State Financial Corporations Act, 1951. After the integration of M.B. into Madhya Pradesh it is now called M. P. Financial Corporation.

The Corporation started functioning on 1st July 1955.

The object of the Corporation is to assist and further the industrialisation of the State by providing institutional credit, medium and long term, to industrial concerns in Madhya Pradesh.

The rate of interest will be six per cent per annum with half-yearly rests.

The period of loan will be decided on the merits of each case, but will not ordinarily exceed 10 to 12 years though the maximum period upto which loans can be granted has been fixed at 20 years. The principal amount of loan will be repayable by instalments which would be determined according to the circumstances of each case.

The assets offered in mortgage to the Corporation should be insured by the borrowing concern upto their full value with insurance companies approved by the Corporation.

The authorised share capital of the Corporation is Rs. 2 crores divided into two lakh fully paid shares of the face value of Rs. 100 each, out of which one lakh fully paid shares of the value of Rupees one crore are issued in the first instance. A dividend of 3½ per cent per annum on the share capital of the Corporation has been guaranteed by the former Madhya Bharat Government by their notification dated 18th July 1955.

Since inception the Corporation received 76 completed loan applications till 31st March 1959. The Board sanctioned advances to 24 industrial concerns for Rs. 90,65,000 and rejected 28 cases for Rs. 55,94,000. Ten applications for Rs. 21,75,000 were withdrawn by the applicants. Ten applications for Rs. 16,89,000 were under consideration as on 31st March 1959.

Board of Directors:

D. P. Mandella (Chairman), Secretary, Finance Dept., M.P. (M. Y. Godbole, I.A.S.), Secretary, Commerce and Industry Dept., M.P. (P. D. Chatterjee, I.A.S.), Nominee of the Reserve Bank (O. B. Srinivasan), Nominee of the Industrial Finance Corporation of India (D. R. Madhok), Elected by financial institutions like Scheduled Banks, Co-operative banks, etc. (N. D. Joshi, D. G. Bhalerao, Suganmal Bhandari), Elected by share-holders (Lakhand B. Sethi), C. B. Gupta (Managing Director).

GWALIOR MUNICIPAL CORPORATION

Commissioner, B. S. Arora, M.B.A.S. (Senior). (On deputation).

Income for 1957-58 : Rs. 22,91,819.53 nP.

Expenditure for 1957-58 : Rs. 18,67,268.71 nP.

The Gwalior Municipal Corporation comprises 40 elected and 10 nominated members. Fresh elections were held in March 1958. The Congress Party has majority in the Corporation.

Mayor : Syed Hamid Ali Shah, B.A., LL.B., (Congress).

INDORE MUNICIPAL CORPORATION

Mayor, Balkrishna Gobar, B.A., LL.B., Bahilya Ratna.

Deputy Mayor, Sardar Nheral Singh.

Commissioner, B. M. Joshi, T.A.S.

Estimated income for 1958-59 : Rs. 76,76,700

Estimated Expenditure for 1958-59 : Rs. 76,59,700.

JABALPUR MUNICIPAL CORPORATION

Mayor, Sawaimal Jain, B.Com., LL.B.

Deputy Mayor, Rameshwar Prasad Guru, M.Sc.

Estimated income for 1957-58 : Rs. 42,12,487.00.

Expenditure during 1957-58 : Rs. 43,51,736.00.

ADMINISTRATIVE PERSONNEL (See under 'State Administrative Personnel').

LEGISLATIVE ASSEMBLY (See under 'General Elections').

UNIVERSITIES JABALPUR UNIVERSITY

Shaheed Smarak Bhawan, Golbazar, Jabalpur.

The Jabalpur University was established on 11th March 1957. It is a teaching and affiliating University.

Chancellor, H. V. Patankar, B.A., LL.B., Governor of Madhya Pradesh.

Vice-Chancellor, Pandit K. L. Dubey, B.A., LL.B., M.L.A.*

Rector, U. Miara, M.A., LL.B.

Registrar, K. R. Pandya, M.A.

Number of affiliated colleges : 19. (The status of colleges as constituent colleges to be decided later).

Number of students in the University : Approximately 7,000.

List of Colleges affiliated to the University :

G. S. College of Commerce & Economics, Jabalpur.

Mahakamal Mahavidyalaya, Jabalpur.

Prantiya Shikshan Mahavidyalaya, Jabalpur.

Govt. Engineering College, Jabalpur.

Govt. Veterinary College, Jabalpur.

Hitkarini Mahavidyalaya, Jabalpur.

Hitkarini Law College, Jabalpur.

New Education Society Law College, Jabalpur.

Hawabagh Teacher's Training College for Women, Jabalpur.

D. N. Jain College, Jabalpur.

St. Aloysius College, Jabalpur.

M. H. College of Home Science, Jabalpur.

Mahila Mahavidyalaya, Jabalpur.

Govt. Polytechnic, Jabalpur.

Govt. Agriculture College, Jabalpur.

Govt. Medical College, Jabalpur.

Post Graduate Basic Training College, Jabalpur.

Institute of Languages & Research, Jabalpur.

Shyam Sunder Agrawal College, Mithora (Jabalpur).

SAGAR UNIVERSITY

Founded : 1946.

Chancellor, Dr. K. N. Katju, Chief Minister, Madhya Pradesh.

Vice-Chancellor, Dr. D. P. Mishra, B.A., LL.B., D. Litt.

Registrar, Prof. Ishwar Chandra, M.A.

It is a teaching, affiliating, examining and residential University.

Number of affiliated Colleges : 36.

Number of Students : Teaching Departments : 1,192 (men, 1,112 ; women 80). Affiliated Colleges 9,837 (men 8,748 ; women 1,089).

Library : 51,706 volumes, 4,872 bound periodicals - 420 pamphlets.

Budget (1958-59).

Total income : Rs. 44,38,049

Total expenditure : Rs. 40,55,066

Excluding Funds in grants for new site buildings.

COLLEGES

C. M. Dubey Commerce & Arts College, Bilaspur.

Chhattisgarh College, Raipur.

College of Science, Raipur.

Damoh Arts College, Damoh.

D.S.V. Sanskrit Mahavidyalaya, Raipur.

Digvijai Mahavidyalaya, Rajnandgaon.

Government Arts & Science College, Drug.

Government Ayurvedic College, Raipur.

* Term expires June 1959.

Government College of Engineering and Technology, Raipur.

Government Degree College, Satna.

Government Degree College, Shahdol.

Government Degree College, Datia.

Government Degree College, Tikamgarh.

Government Degree College, Panna.

Government Degree College, Balaghat.

Government Girls' Degree College, Raipur.

Government Training College, Khandwa.

Government Training College, Raipur.

Jagannath Mahavidyalaya, Chhindwara.

Janata Arts College, Betul.

Janjgir College of Arts & Commerce, Janjgir.

Kirodimal Govt. Polytechnic, Raigarh.

Kirodimal Govt. (Science & Arts) Degree College, Raigarh.

Law College, Durga Education Society, Raipur.

Maharaja College, Jabhatpur.

Mahatma Gandhi Memorial College, Itarsi.

Narmada Mahavidyalaya, Hoshangabad.

Narsingh Mahavidyalaya, Narsinghpur.

New Arts and Commerce College, Raipur.

Rani Durgavati Mahavidyalaya, Mandla.

Seva Sadan Arts College, Burhanpur.

Shri Nilkantheshwar College, Khandwa.

Shri Shikhar Chand Jain Science & Arts College, Seoni.

S. B. R. College, Bilaspur.

Lahiri College, Chirmiri.

Thakur Ranawat Singh College, Rewa.

VIKRAM UNIVERSITY

(Ujjain)

The Vikram University was established by law under Act 18 of 1955 and came into being on March 1, 1957. It is an affiliating and teaching University.

Chancellor : H. V. Pataskar, B.A., LL.B., Governor of Madhya Pradesh.

Vice-Chancellor, Dr. Mata Prasad, D.Sc., F.B.I.C., F.N.I.

Registrar, G. D. Widhani, M.A.

DEANS OF FACULTIES

Arts : P. C. Malhotra, M.A., Principal, Govt. Hamidia College, Bhopal.

Sciences : Dr. W. V. Bhagwat, D.Sc., Principal, Holkar College, Indore.

Commerce : R. C. Shukla, M.Com., LL.B., Prof. & Head of the Deptt. of Commerce, Hamidia College, Bhopal.

Law : P. R. Sharma, B.Sc., LL.B., Part-time Professor of Law, Holkar College, Indore.

Agriculture : Dr. P. S. Lamba, M.Sc. (Ag.), Ph.D. (Win.), Principal, M. B. College of Agriculture, Gwalior.

Medicine : Dr. B. C. Bose, M.D., D.Sc., Principal, M. G. Medical College, Indore.

Engineering : N. N. G. Dastidar, B.Sc. (Tech.), A.M.C.T. (Mech.), M.I.E., Principal, Madhav Engineering College, Gwalior.

Veterinary Science & Animal Husbandry : R. L. Kaushal, L.V.P. (Ph.), P.G. (Vet.), P.G. (Vetology), Principal, College of Veterinary Science & Animal Husbandry, Mhow.

Education : Dr. G. Chaurasia, M.A., LL.B., D.Ed., Principal, P. G. B. T. College, Bhopal.

Number of Constituent Colleges : 11.

No. of affiliated Colleges : 14.

No. of students : 8,656 (1957-58).

Total income including Govt. grants (1957-58) : Rs. 8,68,214.

Total expenditure : Rs. 6,00,637.

Central Govt. grants : Nil.

State Govt. grants : Rs. 4,25,000.

The names of the constituent and affiliated colleges are given below :

CONSTITUENT COLLEGES :

(These colleges provide post-graduate course also).

Indore Christian College, Indore (Arts).

Holkar College, Indore (Arts, Science & Commerce).

Madhav College, Ujjain (Arts, Science & Commerce).

M.G.M. Medical College, Indore.

Maharani Laxmibai College, Gwalior (Arts, Science & Commerce).

G. R. Medical College, Gwalior.

Government Hamidia College, Bhopal (Arts, Science & Commerce).

M. B. College of Agriculture, Gwalior.

Rafi Ahmed Kidwai Agricultural Research Institute, Mehore.

Post Graduate Basic Training College, Bhopal (Education).

Post-graduate Basic Training College, Ujjain (Education).

AFFILIATED COLLEGES :

(These colleges provide courses upto the Bachelor's degree).

Girls' Degree College, Indore (Arts).

Shri Govindram Seksaria Technological Institute, Indore (Engineering).

Kamla Baje Girls' College, Gwalior (Arts).

Government Degree College, Ratlam (Arts & Science).

G. P. Degree College, Morena (Arts & Commerce).

M. B. College of Veterinary Science and Animal Husbandry, Mhow.

Govt. Teachers' College, Dewas (Education).

Madhav Maha Vidyalaya, Lashkar, Gwalior (Arts & Commerce).

Gandhi Medical College, Bhopal.

Madhav Engineering College, Gwalior.

Govt. Degree College, Barwani (Arts & Science).

Govt. Degree College, Mandasaur (Arts & Science).

Govt. Degree College, Guna (Arts & Science).

Anand College, Dhar (Arts & Science).

ASSOCIATIONS, SOCIETIES, ETC.

A.C.C. ENGINEERING INSTITUTE

P.O. Kymore (Via Jukehi).

Technical Training Centre in metal working trades and in diesel mechanics course.

Superintendent : H. P. Bhadury, M.Sc. (Eng.), M.I.E. (India), A.M.I. Prod. E.

ALL-INDIA LOCAL BODIES FEDERATION

"Chandra Lok", Satna (M.P.).

President : Dr. L. P. Khare ; *Vice-President* : R. N. Agrawal ; *Gen. Sec.* : K. Narasimha Rao ; *Jt. Sec.* : Parmanand Verma ; *Treasurer* : Dr. B. N. Singh.

BHATKHANDI LALITKALA SHIKSHA SAMITI

Gandhi Chowk, Raipur.

Runs two educational institutions, viz., Kamaladevi Sangeet Mahavidyalaya and L. N. Girls' Higher Secondary School.

Founder : Arun Kumar Sen ; *President* : Laxminarayan Das ; *Chief Directress* : Smt. Anita Sen.

CENTRAL TRAINING INSTITUTE & INDUSTRIAL TRAINING CENTRE

(Government of India—Ministry of Labour and Employment).

Koni, Bilaspur (M.P.).

Principal : B. M. Bose ; *Vice-Principal* : S. Sundaresan ; *Registrar* : G. V. Khanwalkar.

THE CHAMBER OF COMMERCE

Ratlam.

President : Laxminarayanji Jhalani ; *Hon. Secretary* : Nathulalji Agarwal.

CHAMBER OF COMMERCE

Ujjain.

President, M. D. Singh.

Vice-President : C. L. Baboo.

Secretary, Meghraj Kothari.

CHRIST CHURCH

Mhow.

Priest in charge, Rev. Wilfred Farmer.

Hon. Secretary, Lt. Col. E. G. Pettengel.

CHURCH OF ENGLAND

Neemuch.

Visiting Chaplain, Revd. A. M. Dalaya.

Secretary & Treasurer, H. E. Osbourne.

DIOCESE OF INDORE

Bishop's House, Catholic Church, Indore.

Bishop of Indore, Rt. Rev. Dr. Francis M. Simons, S.V.D.

Superior Regular, Very Rev. Father Henry Wichelmann, S.V.D.

THE DIOCESE OF JABALPUR

Bishop's House, Jabalpur.

Bishop of Jabalpur, C. Dubbelman, O.Praem. D.D.

THE CATHEDRAL OF S.S. PETER & PAUL
1, Queen's Road, Jabalpur.

THE CHURCH OF THE MOST H. TRINITY
23, Napier Town, Jabalpur.

THE CHURCH OF ST. THOMAS

Ranjee Khamaria, Westland, Jabalpur.

THE ST. ALOYSIUS' COLLEGE

Cecil East Street, Jabalpur.

GOVERNMENT AGRICULTURAL INSTITUTE

Laxmipur P.O., Panna, M.P.

Principal, Shiva Nand Jha, M.A., B.Sc. (Ag.).

GOVERNMENT CENTRAL TECHNICAL INSTITUTE

(Polytechnic)

Jhansi Road, Gwalior.

Principal : B. Khanna.

SHRI GOVINDRAM SEKSARIA TECHNOLOGICAL INSTITUTE

Opposite Nehru Park, Indore.

Principal & Secretary and Head of Civil Engineering Department, Prof. V. H. Acharya, B.A., B.Sc. (Hon.) (Bom.), B.Sc. (Hons.) (Edin.), M. Inst., M.E. (Lond.).

Professor & Head of the Mechanical and Electrical Engineering Department, Prof. N. R. Das Gupta, B.Sc. (Hon.), Cal., B. Eng. (Sheffield), M.I.E., M.M.G.I., Dip. in Adm. (Man.).

INDIRA KALA SANGEET

VISHWAVIDYALAYA

(Founded on 14th October 1956).

Khalragarh (Dt. Durg).

University of Indian Music & Fine Arts.

No. of Institutions affiliated : 24.

Chancellor : H. V. Pataskar, B.A., LL.B.,

Governor of M.P. ; *Vice-Chancellor* : Padma-

bhushan Dr. S. N. Ratanjankar, B.A., D. Mus. ;

Treasurer : R. P. Mishra, M.A. ; *Acting Registrar* :

Sahitya Ratna K. K. Shrivastava, M.Sc. ;

Assistant Registrar : B. B. Biswas, B.A., LL.B. ;

Librarian : S. K. Sharma, B.Com., Dip. Lib. Sc.

INSTITUTE OF PLANT INDUSTRY

Old Residency Area, Indore.

Director : Bholanath.

JABALPUR PRESS OWNERS' ASSOCIATION

468, Marhatal, Jabalpur.

President : A. L. Pawar ; *Secretary* : B. G. Gupta.

**JIWAJI INDUSTRIAL RESEARCH
LABORATORY**

Tansen Road, Gwalior.

Director : Dr. C. N. Haksar.

**KASTURBA GANDHI NATIONAL
MEMORIAL TRUST**Address :—P. O. Kasturbagram, Dist. Indore
(Madhya Pradesh).

Aims and Objects :—Welfare of women and children in rural areas of India. The Trust trains women workers for educational, vocational and health programmes and after training deutes them to rural areas.

The Fund at present amounts to Rs. 85 lakhs which have been invested in Government Securities. The sources of income are :— Corpus of the original Trust Fund ; Interest on Government Securities ; Grant from the Gandhi Smarak Nidhi ; from Central Social Welfare Board and subscriptions collected in States towards part of the expenses of the village centres.

The Trust at present runs about 250 centres in pre-basic, basic, adult education and craft centres, maternity homes, leprosy relief centres, etc.

Besides running 18 training Centres, the Central Training Institute is located at Kasturbagram, five miles from Indore, where Social Education Organisers' Training, Gram Sevika Training, Pre-basic Teachers' Training and Midwifery Training are being conducted by the Trust.

The Trust is the principal agency for training gram sevikas of the Central Social Welfare Board, who will work in their welfare extension projects. The Trust has so far trained nearly 400 trainees of the Board and about 750 are under training.

Chairman : Mrs. Premila Vithaldas Thackeray.

Vice-Chairman : Mrs. Bameshwari Nehru.

Secretary : Smt. V. Rajalakshmi.

M. B. HINDI SAHITYA SAMITEE

55, South Tukoganj, Indore.

President : Seth Hukumchandji ; **Vice-President :** Manohar Singhji Mehta, M.A., LL.B. ; **Pradhan Mantri :** Sahitya Ratna Prof. Kamalashankarji Mishra, M.A.

**MADHYA PRADESH CHAMBER OF
COMMERCE AND INDUSTRY**

"Chamber Bhavan", Dharma Mandir Road, Lashkar (Gwalior).

Advisory Body for the promotion of Trade and Industry.

President, D. P. Mandella.

Vice-President, Ramavtar Sharma.

Hony. Secretary, Ram Babu Valshya.

Hony. Jt. Secy., Krishnadas Garga.

**MADHYA PRADESH MILLOWNERS'
ASSOCIATION**

11, South Tukoganj, Indore.

Telegraph : 'Millowners'.

Chairman, Pearrelal Seksaria.

Vice-Chairman, Omraol Singh Gupta.

Secretary, G. B. Zalani.

**MADHYA PRADESH STATE COUNCIL
FOR CHILD WELFARE**

Old Assembly ('F' Block) Building, Bhopal.

President : H. V. Pataskar (Governor of M. P.) ;

Hon. General Secretary : V. S. Krishnan.

MAHAKOSHAL CHAMBER OF COMMERCE

Jawaharganj, Jabalpur.

President : A. S. Chawla.

Vice-Presidents : S. Prasad, F. Jain ; **Secretary :** Madan Lal.

MASIH SEVA MANDAL

Malwa Church Council.

The Masih Seva Mandal works under the auspices of the Malwa Church Council of the United Church of Northern India.

Secretary and Executive Officer, Rev. I. Khimla, United Church of Northern India, Ratlam.

Treasurer, Miss M. E. Martin, Dhar.

THE MALWA CHAMBER OF COMMERCE

49, Sitlamata Bazar, Indore City.

President, Rai Bahadur Shri Rajkumarsinhji Kasliwal ; **Vice-President,** Seth Suganmalji Bhandari ; **Honorary Secretary,** Muntala Bahadur Chhaganlalji Mital ; **Honorary Jt. Secretary,** Seth Radhakishanji Muchhal.

**SACRED HEART CHURCH (RAJESHWAR
VIDYALAY)**

Cath. Church, Mhow, M.P.

Parish Priest, (Rev.) Fr. Bernard Wianiewski ;
Principal, (Rev.) Fr. Mario Barreto.

SCINDIA ORIENTAL INSTITUTE

University Road, Ujjain.

Owens a manuscript library containing over ten thousand ancient manuscripts, besides a rich reference library of printed volumes and journals on Indology. Also publishes a research journal and has hitherto published critical editions of 10 ancient works.

Curator : Prof. S. L. Katre, M.A.

SHANKAR GANDHARV MAHAVIDYALAYA

(Music College).

Hujarat Road, Lashkar, Gwalior.

Principal : Sangeetratnalankar Pt. Krishnashankar Pandit ; **President :** P. S. Apte.

**TOBACCO & BIDI MERCHANTS'
ASSOCIATION**

Sagar.

President, Chintaman Rao ; **Treasurer,** Mathurbhai Patel ; **Secretary,** G. K. Kher.

MADRAS STATE

Area: 50,111.81[†] sq. miles; Population: 9,975,357[†].

Capital: Madras.

Representation in the Rajya Sabha: 17; in the Lok Sabha: 41; Strength of Assembly: 205; Strength of Council: 63.

Districts with District headquarters in brackets: Madras (Madras), Chingleput (Saidapet), South Arcot (Cuddalore), Tanjore (Tanjore), Madurai (Madurai), Ramanathapuram (Tallakulam, at Madurai), Tirunelveli (Tirunelveli), North Arcot (Vellore), Salem (Salem), Tiruchirappalli (Tiruchirappalli), Coimbatore (Coimbatore), Nilgiris (Ootacamund), Kanyakumari (Nagercoil).

The Andhra-Madras (Alteration of Boundaries) Bill 1959, drafted on the basis of the proposals made in the Patakar Award, was passed in the Madras Assembly on April 27, 1959.

Under the provisions of the Bill, 318 villages of Tiruttani, Chittoor and Puttur talukas of Andhra, covering an area of 405 square miles and with a population of 240,000 (158,000 Tamilians and 77,200 Andhras), would be transferred to Madras State.

One hundred and fifty-one villages in Tiruvallur, Ponneri and Hosur talukas of Madras State, covering an area of 325 square miles and with a population of 95,546 (61,500 Andhras and 34,046 Tamilians) would be transferred to Andhra Pradesh.

Languages spoken: Tamil, Malayalam, Telugu. The vast majority of the people is of the Dravidian race.

Panchayats Bill: The Madras Panchayats Bill, major legislation in the Government's six-point local administration reform, was moved for consideration in the Legislative Assembly in September 1958.

The proposed changes were (1) The replacement of district boards by panchayat union councils by Oct. 2, 1961; (2) setting up of a panchayat in every village of the State; (3) Developing panchayat unions into co-operative associations of panchayats with a representative elected to the respective councils; (4) The limitation of the functions of the panchayat and panchayat union councils; (5) Revision of the schemes of local taxation and finance as well as of Government grants for elementary education and other purposes to make available adequate resources to local bodies.

The Bill estimates the expenditure of new local bodies at Rs. 6 per head of the population per annum.

While the panchayat unions are in formation the District Boards will be administered by Collectors who will be called Special Officers for this purpose.

Tamil has been introduced as official language in many Government Offices in the State from January 1, 1958, in pursuance of State Official Languages Act, passed by the last Assembly in December 1956, calling for the progressive introduction of Tamil as State's official language.

Tamil is to be made the official language at district level by the end of the Second Plan.

BUDGET (1959-60)

(See 'Late Particulars')

POPULATION

Population of districts: Madras 1,416,056; Chingleput 1,853,819[†]; North Arcot 2,659,157; Salem 3,371,769[†]; Coimbatore 3,154,296; South Arcot 2,776,767; Tanjore 2,982,670; Tiruchirappalli 2,943,882; Madurai 2,891,817; Ramanathapuram 2,040,519; Tirunelveli 2,445,967; Nilgiris 311,729; Kanyakumari 887,109.

Area of districts in sq. miles: Madras 49; Chingleput 3,054[†]; North Arcot 4,674; Salem 7,063[†]; Coimbatore 7,090; South Arcot 4,204;

Tanjore 3,740; Tiruchirappalli 5,514; Madurai 4,910; Ramanathapuram 4,849; Tirunelveli 4,343; Nilgiris 984; Kanyakumari 646.

Names of the Districts with the names of Taluks within brackets. The first figure following the name of each Taluk indicates the area in square miles and the second figure the population of that particular Taluk:

Chingleput District* (Ponneri 626; 2,62,910; Tiruvallur 523; 3,08,314; Sriperumbudur 306; 2,05,739; Saidapet 227; 3,10,384; Kancheepuram 412; 2,96,759; Chingleput 436; 2,24,887; Maduranthakam 531; 2,44,626); North Arcot District (Gudiyattam 481; 3,48,914; Vellore 432; 3,82,988; Walajapet 395; 3,18,907; Arkonam 319; 2,28,083; Tirupattur 589; 3,57,111; Polur 568; 2,37,042; Arni 176; 1,67,610; Cheyyar 327; 1,99,031; Wandiwash 340; 2,11,123; Chengam 652; 1,79,123; Tiruvannamalai 375; 2,29,420); Salem District* (Hosur 1,168; 2,70,687; Krishnagiri 688; 2,87,359; Dharmapuri 948; 3,13,113; Harur 915; 2,21,227; Omalur 557; 3,37,926; Salem 377; 5,21,220; Tiruchengode 603; 4,75,287; Rasipuram 316; 1,85,906; Namakkal 682; 4,23,834; Attur 651; 2,65,471; Yercaud 148; 19,739); Coimbatore District (Gobichettipalayam 1,129; 3,94,267; Bhavani 572; 2,35,170; Avanasahi 493; 2,72,536; Erode 599; 4,39,641; Coimbatore 528; 6,62,522; Palladam 585; 3,51,734; Dharmapuri 554; 3,23,307; Pollachi 709; 3,84,677; Udumalpet 555; 1,90,442); South Arcot District (Gingee 410; 2,44,851; Tindivanam 561; 3,18,106; Kalakurichi 873; 3,69,049; Tirukollur 584; 3,82,221; Villupuram 352; 3,16,989; Cuddalore 448; 4,89,082; Vriddachalam 576; 3,17,467; Chidambaram 404; 3,89,002); Tanjore District (Sirkali 171; 1,63,801; Mayuram 282; 3,21,493; Kumbakonam 212; 3,48,104; Tanjore 421; 3,81,984; Panjanam 228; 2,16,498; Nannilam 291; 2,48,487; Mannargudi 301; 2,49,830; Nagapattinam 240; 2,61,236; Pattukkottai 698; 4,01,818; Tiruthuraiyandi 496; 2,48,942; Arantangi 398; 1,41,387); Tiruchirappalli District (Muziri 675; 3,63,680; Perambalur 678; 2,66,569; Udayarpalayam 749; 3,98,231; Lalgudi 373; 2,38,931; Karur 610; 324,801; Kullitalai 913; 4,05,947; Tiruchirappalli 328; 4,69,145; Kulathur 465; 1,47,155; Alangudi 347; 1,76,070; Tirumayam 367; 1,53,458); Madurai District (Paini 625; 2,72,002; Kodakkal 361; 40,250; Dindigul 894; 5,54,767; Nilakkottai 410; 2,77,187; Melur 484; 2,24,211; Periyakulam 1,106; 5,84,530; Tirumangalam 721; 3,74,465; Madurai 268; 5,64,505); Ramanathapuram District (Tirupattur 567; 2,96,863; Sivaganga 657; 2,32,932; Tiruvadanai 548; 1,85,624; Srivilliputur 437; 3,03,662; Nattur 580; 3,14,044; Aruppukottai 615; 2,42,777; Paramakudi 440; 1,81,593; Mudukulathur 647; 1,58,125; Ramanathapuram 334; 1,63,979); Tirunelveli District (Nankaranayinarkoil 635; 3,19,145; Kovilpatti 1,086; 3,66,261; Tenkasi 403; 3,22,351; Tirunelveli 325; 2,94,402; Srivalkuntam 362; 3,01,859; Amba-amudram 498; 2,65,048; Nanguneri 706; 3,02,819; Tiruchendur 323; 2,74,084); Nilgiris District (Gudalur 279; 45,698; Ootacamund 462; 1,26,114; Coonoor 241; 1,40,017); Kanyakumari District (Agastheeswaram 107; 2,25,405; Thovala 142; 52,980; Kalkulam 229; 2,87,519; Villavancode 167; 2,40,476; Shencottah 128; 63,457); Madras (Madras 49; 1,416,056).

INDUSTRIES

Chief Industries in this State are Textiles, General and Electrical Engineering, Sugar, Cement, Tobacco including bidis and cigar manufacture, bricks and tiles, tanning, glassware, chemicals, bicycles, and manufacture of utensils.

There were 114 cotton spinning and weaving mills at the end of 1957 (70 mills in Coimbatore District including the one newly licensed; 18 in Madurai District, 7 in Tiruchirappalli District

and 10 in Tirunelveli District). One mill in Madras City is one of the biggest in the country employing 13,727 workers. Another large mill in the State is in Madurai, which employs 12,341 workers. The largest employer of labour in the State is the Textile Industry.

The production of yarn for sale for civil consumption during the period January to June 1957 (six months) in the State was 109,157,000 lbs. or 2.78 lakh bales (bale of 400 lbs.).

Handloom: 1958: Number of looms registered in the State: 4,54,985.

Number of weavers within the co-operative fold as on April 1, 1958: 1,92,988.

In the State a sum of Rs. 1,78,97,980 was spent towards providing working capital for 1,64,303 looms against the sanctioned amount of Rs. 1,90,10,500.

Sugar:—There are five sugar factories in the State including the newly installed one at Pettaiyayatalai, Tiruchirappalli District. These factories were expected to produce about 80,000 tons of sugar a year from the 1958-59 season. During 1957-58, 65,840 tons of sugar was produced by the four factories at Nellikuppam, Pugalur, Pandiarajapuram and Tiruvarooran.

Three new sugar mills were proposed to be set up on co-operative basis in Chingleput, North Arcot and Coimbatore districts and they were expected to go into production by the middle of 1959.

Cement:—There are three cement factories in the State. The installed capacity of these factories at the end of April 1958 was 7,43,178 tons. A new cement factory in Ramanathapuram District has also been sanctioned.

Cycles:—There are two bicycle factories in the State. The Factory at Ambathur near Madras with an installed capacity of 2 lakh bicycles a year is one of the four biggest factories in the country. The expansion scheme of T. I. Cycles to increase their production to three lakhs cycles per annum has been finalised.

Dunlop has started a Rs 2.5 crore tyre factory at Ambathur with an installed capacity of 1.5 mln. cycle tyres and 134,000 giant truck tyres. In Feb 1959 an English Electrical company started at Pallavaram near Madras a switch and switchgear manufacturing plant to meet 20 per cent of the nation's need.

Matches:—There are nearly 100 match factories using power and also not using power. The number of workers employed in the 23 power factories in 1957 was about 10,200. The production of matches in these factories during that year was 10.8 million gross boxes.

Tanneries:—There are nearly 300 tanneries in the State and most of them are non-power tanneries. The number of persons employed in the tannery using power in 1957 was 5,643. Value of exports of tanned hides and skins to overseas markets in 1956-57 was Rs. 24.24 crores.

Magnetite, bauxite and iron ores occur in Salem District. The Government have encouraged the setting up of pilot pig iron plants in the private sector to utilise the iron ore and a pig iron plant has already switched into production.

The availability of bauxite deposits has encouraged the setting up of an aluminium plant at Mettur and tests on this ore are being conducted. The following are the important minerals with their output during 1957-58 as shown within brackets: Limestone (10,78,907 tons); Gypsum (67,225 tons); Magnetite (87,724 tons) and Bauxite (2,807 tons).

There is an Industrial Investment Corporation in Madras.

* Population and area will change when the Patakar Award takes effect.

† There is a slight discrepancy between this figure and the Central Govt. figure.

Main cottage industries: metals, leather goods manufacture, silk worms rearing, brass and bronze metal ware, conch shell.

The National Industrial Development Corporation was expected to set up an iron smelting plant in Salem utilising local ore. A new paper mill has been licensed at Papanasam. Work on the Rs. 4 crore Government of India printing press located halfway between Coimbatore and Mettupalayam was expected to be taken up in 1958.

Licences have been granted for the establishment of a number of units for the manufacture of electric motors, power-driven pumps, electrical distribution transformers and switchgear. The Government have given assistance to small-scale business men.

In the private sector, a plant for the manufacture of rayon and staple fibre yarn has been

licensed and the sponsors have succeeded in securing substantial financial assistance from Italy.

In Tirunelveli a new caustic soda factory is being set up in the private sector. The new plant at Avadi for the manufacture of steel tubes commenced production early in 1957.

Preliminary works in connection with the setting up of a sheet glass factory in the private sector have been completed and experts from Belgium have arrived to finalise the project.

The Russian experts who visited India in 1955 in connection with the setting up of a Drug Project in the public sector, have submitted their report. Necessary survey including the selection of site for setting up the plant has been completed.

Yield in 1956-57: 66,410 tons in terms of rice.

Production of foodgrains in Madras State in 1957-58: 46.58 lakh tons.

Second Plan target: Increase by 12 to 18 lakh tons.

Bananas, mangoes and citrus are the most important fruit crops of the State. The average area for three years ended 1956-57 under bananas was 71,432 acres with an yield of 506,570 tons; under mangoes 61,102 acres yielding 208,490 tons; under citrus fruits 10,560 acres yielding 27,510 tons.

Total forest area: 4.42 mln. acres.

Fisheries:

Total quantity of fish produced (Marine and inland 1957-58): 107,842 tons.

The estimated marine fish landings for the State (1957-58): 67,542 tons.

Progress of Implementation of the Employees' State Insurance Scheme

Places	Appointed day.	Approximate No. of employers as per latest statistics	Approximate No. of insured persons covered		
			Males	Females	Total
Coimbatore	23-1-1955	109	42,500	7,500	50,000
Madras City and Suburbs	20-11-1955	330	61,300	1,700	63,000
Madurai, Ambasamudram and Tuticorin	27-10-1956	81	31,500	6,500	38,000
Salem, Mettur, Udumalpet and Tiruppur	30-11-1958	97	17,000	3,000	20,000

AGRICULTURE

The figures are for 1956-57 and have been worked out for the reorganised Madras State:

Total area cultivated (gross area): 17.15 mln. acres.

Total area irrigated (net area): 5.5 mln. acres

Net area sown and its percentage to the total area: 14.41 million acres and 45.0 per cent.

Classification of area.	Area in acres.	Percentage to total area.
Forests	4,419,216	13.8
Barren and unculturable land	2,446,077	7.6
Land put to non-agricultural uses	3,118,273	9.8
Cultivable waste	1,917,143	6.0
Permanent pastures and other grazing lands	925,555	2.9
Land under miscellaneous trees, crops and groves not included in the net area sown	642,896	2.0
Current fallows	2,472,567	7.7
Other fallow lands	1,665,065	5.2
Net area sown	14,413,692	45.0
Total area according to village papers	32,020,484	100.0

Livestock census of 1956: Cattle 9,698,251; Buffaloes 2,040,944; Sheep 7,041,616; Goats 8,787,582; Horses and ponies 28,942; Mules 248.

Statement showing the area under important food crops and the yield in 1956-57.

	Area in acres	Yield in tons
Paddy	5,724,105	4,770,430
Millets	5,449,701	1,483,170
Pulses	1,108,371	112,640
Sugarcane	111,760	326,430*
Potatoes	22,595	67,340
Sweet Potatoes	9,541	34,030
Yaploca	39,953	153,200

The total area under paddy cultivation in the State for 1957-58: 5,805,000 acres according to the final forecast report

The principal commercial crops of the State in order of the acreage under cultivation in 1956-57 were as follows

Crops	Area in acres	Yield in tons
Groundnut	1,820,179	869,000 (in shell)
Cotton	1,065,298	339,320 (bales of 392 lb. lint).
Gingelly	294,252	37,400
Coconut	122,408	405,263,000 (nuts)
Tobacco	44,376	27,903 (cured leaf)
Coffee*	45,527	2,656 (tons)
Pepper	529	40

* Figures of area and production are provisional.

Total area under paddy cultivation in Kanyakumari District in 1956-57: 136,236 acres.

ZAMINDARI ABOLITION

The Estates Abolition Act provides for the repeal of the Permanent Settlement and for the acquisition of the rights of land-holders in certain estates in the State by payment of equitable compensation to the several persons having interest in the estates and for the introduction of the ryotwari settlement in them.

Upto the end of June 1958, 4,733 estates had been taken over and only 27 estates remained to be taken over. The total compensation amount payable in respect of the estates taken over is about Rs. 4.84 crores, of which about Rs. 2.78 crores had been paid upto the end of June 1958.

BHOODAN

The Bhoodan Campaign by Acharya Vinoba Bhave has gained momentum in this State. The Madras Bhoodan Yagna Act regularising and giving legal validity to the gifts, exempting gift-deeds from payment of stamp duty, and of encumbrance certificates fee, registration fee or the fee payable for the attestation of a power-of-attorney and for constituting the State Bhoodan Board responsible for the distribution of lands to landless poor persons for cultivation, etc., has come into force from 9th July 1958.

The Madras State Bhoodan Yagna Board, as envisaged in Section 3(1) of the Act, has also been constituted by the Government with effect from 1-12-1958.

IRRIGATION

- Total land area 32.99 million acres.
Cultivated area 14.03 million acres.
- a) Total area irrigated 4.5 million acres.
- b) Total area which was expected to be irrigated at the end of the First Five-Year Plan : 4.8 million acres.
- c) Total area which was expected to be irrigated when the project under the Second Plan were completed : 4.95 million acres.
- d) Anticipated extra food production at the end of the Second Plan : 90,000 tons of food grains and 1.5 lakh bales of cotton and 70 lakh tons of oilseeds.
- e) Anticipated extra food production on completion of all irrigation projects : 200,000 tons of foodgrains and 1.5 lakh bales of cotton.
- f) Total investment : Rs. 3,705.57 lakhs.

Number of major projects : 11 (excluding those completed in first Plan).

Name of Project	Date begun	Date for Completion	Estimated cost in Rs. lakhs	Area to be benefited (acres)
Lower Bhavani Reservoir Project (Coimbatore and Tiruchirappalli Districts)	January 1949	1955-56†	951	207,000
Mettur Canals Scheme (Salem and Coimbatore Districts)	June 1949	March 1957†	183.0 (revised)	45,000 (half wet and half dry)
Cauvery Delta Drainage Scheme	1945-46	1956-57	30	—
Manimuthar Reservoir Project (Tirunelveli Dist.)	November 1960	December 1957‡	505	20,000 dry converted into wet. 83,000 existing. 8,000 new 11,000 existing ayacut (gross).
Aranar Reservoir (Chingleput Dist.)	July 1951	December 1956†	104	21,000 half wet and half dry. 32,000 existing.
Amaravathi Reservoir (Coimbatore Dist.)	1954	September 1957†	310	18,000 dry to wet. 7,000 existing. 16,700 dry to wet. 8,300 existing.
Vaigai Reservoir (Madurai Dist.)	April 1954	December 1958†	330	6,540 new, 2,460 existing.
Sathanur Reservoir Project (North and South Arcot)	October 1954	September 1957†	289	8,622 dry new lands. 12,000 acres existing.
Krishnagiri Reservoir (Salem Dist.)	December 1954	September 1957†	202	22,114 acres. 3,200 acres. 10,000 acres.
New Kattalai High Level Canal Scheme	Aug. 1957	—	130	—
Pullambadi Canal Scheme	Aug. 1957	—	142	—
Vidur Reservoir Project	Dec 1957	—	61	—
Neyyar II Stage	July 1958	—	105	—
Pambikulam Irrigation-cum-Electricity Project	Nov. 1958	—	(Madras share 98) 2,300	2 5 lakhs acres.

‡ Commissioned in January 1958. † Completed.

Extra production of foodgrains on completion of projects: Mettur Canals Scheme—10,000 tons rice; 7,500 tons millets; Manimuthar Project—20,000 tons rice; Aranar Reservoir Project—5,000 tons rice; Amaravathi Reservoir Project—5,600 tons rice and 2,150 tons millet; Vaigai Reservoir Project—7,500 tons rice; Sathanur Reservoir Project—8,000 tons rice; Lower Bhavani Project—33,000 tons rice. Also 14,700 tons of cotton, Krishnagiri Reservoir—2,856 tons rice.

The Neyyar Dam, a Kerala-Madras project and situated about 19 miles south of Trivandrum was inaugurated on February 9, 1959. This will

irrigate 36,000 acres and will produce 20,000 tons of rice more annually. The dam will cost Rs 240 lakhs and will be completed in 1961. Of the area to be irrigated 9,000 acres are now in Madras State.

The Minor Irrigation Programme for the State comprises four categories of work with a total provision of Rs 338 lakhs in the Second Plan. During the 2nd Plan period 749 irrigation tanks and small schemes have been completed besides sinking 1,114 filter point wells. Additional food production through these schemes works out to 60,000 tons.

Madras has built up an electricity grid extending to almost all the districts and rural areas. In fact, Madras leads the rest of India in rural electrification with over 7,500 villages taking electricity supply by the end of 1958.

Power Grid: The grid comprises five hydro-electric Power Houses at Pykara, Moyar, Mettur, Papanasam, Periyar and two Thermal Power Houses at Madras and Madurai with the total installed capacity of 3,21,500 kW, 10,500 miles of high tension transmission lines of voltages varying from 11,000 to 1,10,100, 13,900 miles of low tension distribution lines and 56 EHT and 61 HT sub-stations and 6,642 distribution stations.

In 1957-58, this grid served electricity to five lakhs of consumers, about 80 per cent of them served directly by the Board and the rest served through 5 municipal licences and 8 private company licences.

The peak demand met totalled 2,53,000 kW. Power generated was 1,345 million units in 1957-58 out of which about 75 per cent was from water power and the balance from coal. The entire power output in the State is by the Electricity Board.

The total capital investment to the end of 1957-58 is Rs 81 crores and the gross revenue earned during 1957-58 was Rs 10 53 crores.

The Mettur Dam is 176 feet high and can impound a total of 93,500 m.c. ft. of water mainly for irrigation purposes. Part of this water is utilised for the generation of hydro-electric power. Power is generated at 11,000 volts, 50 cycles, 3 phase and stepped up to 110,000 volts for transmission to various load centres.

At Erode the Mettur System is linked with the Pykara network. Power is transmitted to Singarpet in the north and Erode in the south (a total of 100 miles) taking off from the power station.

Second Five Year Plan: The power schemes for the Madras State included in the Second Five Year Plan are estimated to cost Rs. 53 25 crores. This period will be confined to the construction of 3 new power plants, two at Kundah and one at Periyar and extensions to the existing thermal station at Madras. With the completion of these schemes, the installed capacity will be

Name of the Scheme	No. of works	Programmed expenditure in lakhs	Actual expenditure in lakhs	Area to be benefited (acres)
Special Minor Irrigation Programme works†	355	49 73	48 23	27,872
Desilting-cum-reclamation of irrigation tanks	—	5 94	6 00*	—

† Against a total number of 1,020 works taken up for execution, 355 works were completed during the year. * Represents cost of machinery purchased.

Name of the Scheme	No. of works	Programmed expenditure in lakhs	Actual expenditure in lakhs	Area to be benefited (acres)
Special Minor Irrigation Programme*	281	56.67	55 94	28,544
Desilting-cum-reclamation of irrigation tanks	10	1 26	1 25	483

* 281 works were completed during the year against 986 works (both continuation and new) taken up for execution.

ELECTRIC POWER

First Five Year Plan. The period was devoted to construction of a new Power House at Moyar and extensions to the existing power stations at Pykara, Papanasam, Madurai and Madras. The installed generating capacity increased by nearly 65 per cent from 156,000 kW to 256,700 kW. The full Five Year Plan target of 110,200 kW was realised even during the fourth year of the Plan. The aggregate power

demand increased from 130,000 kW to 208,000 kW and the units generated from 630 millions to 1,055 millions. About 3,000 miles of H.T. lines and 4,600 miles of L.T. lines were added to the grid during this period. Over 1,800 villages and towns were electrified and 18,000 pumpsets connected up for supply during the Plan period. Out of the allotment of Rs. 30.86 crores, a sum of Rs. 30 68 crores was spent to achieve these targets.

more than doubled. It is also proposed to erect about 8,200 miles of Extra High Tension and 8,000 miles of Low Tension lines during the period to extend supply to about 1,000 villages and 10,000 pumpacts per annum.

Two thousand five hundred villages will be electrified in the State during the Second Plan. A sum of Rs. 14-88 crores has been set apart for this purpose.

Installed capacity (June 1959): 356,700 kW.

Periyar Hydro-Electric Scheme: The Periyar Hydro-Electric scheme, estimated to cost Rs. 10.09 crores, has been taken in hand and will add 105,000 kW of installed capacity on completion of the scheme. The first unit of 35,000 kW about 80 miles from Madurai at the foot of Periyar Hills on Kerala border, was commissioned on October 12, 1958 and the second and third units were expected to be commissioned before March 1959.

Madras Plant Extensions: Erection of the two No. 150,000 lb. a hr. boilers and one No. 30,000 kW turbo-set was completed and the set commissioned on April 26, 1959.

Kundah Hydro-Electric Scheme: Works in respect of Kundah Hydro Electric Scheme, the sixth and the biggest Hydro Electric Scheme so far undertaken by the Madras Government were in progress. The scheme is estimated to cost Rs. 35.44 crores and when the initial stage is completed in 1961, it will add 180,000 kW to the Grid in two plants.

This scheme gets aid under the Colombo Plan from the Canadian Government to the tune of 2.5 million dollars by way of machinery and materials. The first unit in the plant was expected to be commissioned by June 1959 and the scheme will be completed by 1960-61.

Agreement has now been reached between the Madras and Kerala Governments over the utilization of waters of the rivers originating from western ghats and flowing into the Arabian Sea.

The Madras Government has taken on hand the Parambikulam Project envisaging the utilization of four of the western ghat rivers for hydel purposes. This project, estimated to cost Rs. 30 crores, will help irrigation of 2,00,000 acres in Coimbatore and also generate 1,00,000 kW. of power.

A project division of P.W.D. has already been established and work on this project has just begun (Feb. 1959).

TRANSPORT

Total mileage of roads as on 31st March 1957—31,822 miles.

Different classes of roads and the mileage of each class: National Highways (1,142 miles); State Highways (1,744 miles); Major District Roads (9,310 miles); Other District Roads (5,425 miles); Village Roads (10,326 miles); Public Works Department Roads (888 miles); Municipal Roads (2,987 miles).

Types of roads and their mileage: Cement Concrete surfacing (424 miles); Black Top surfacing (5,977 miles); Metalled roads (19,484 miles); Unmetalled roads (10,364 miles).

Links of National Highways within towns having a population of 20,000 are maintained entirely from State Funds.

The Planning Commission allotted a sum of Rs. 3.58 crores for the First Five-Year Plan period in this State for development of roads other than National Highways including the roads under the control of District Boards. A total sum of Rs. 424.67 lakhs was incurred during the First Five-Year Plan period (1951-52 to 1955-56) for the development of roads other than National Highways including the roads under the control of District Boards.

The Bus Transport in Madras City is Government owned. The transfer to public ownership was carried out in stages starting in October 1947 and ending in June 1948.

Position as on November 30, 1958

Number of routes served by the Department: 107 out of which 69 are regular routes and the rest peak-hour routes operated during peak hours only.

Total daily mileage: 36,309.

Number of suburban routes: 11.

Number of mofussil routes: 8 (district routes)

The mofussil services (District services) operate from Madras to Kancheepuram, Madras to Tirupathi and Madras to Venkatagiri.

The total number of buses operated by the Government: 323.

CO-OPERATION

Number of co-operative societies on 30th June 1958: 12,907. Members: 25,87,309.

Share capital: Rs. 1,146.69 lakhs.

Working capital: Rs. 8,327 lakhs.

Total deposits held by the State Co-operative Bank on 30th June 1958: Rs. 436.94 lakhs.

Total loans issued to Central Banks in 1957-58: Rs. 774.81 lakhs.

Working capital of the co-operative central banks: Rs. 1,796.84 lakhs.

Their net profits: Rs. 15.11 lakhs.

Co-operation played an increasingly useful role in raising food production and the manufacture of handloom goods and cottage industry products.

Number of milk supply unions on 30th June 1958: 20.

Number of members on their rolls: 2,542 including 373 affiliated societies with a paid-up share capital of Rs. 8.41 lakhs.

Number of milk supply societies on 30th June 1958: 677. Of these 304 functioned independently and the rest served as feeder societies to the unions.

Number of members on their rolls: 75,761.

Paid-up share capital: Rs. 10.58 lakhs.

Value of milk and milk products sold by these institutions during 1957-58: Rs. 190.61 lakhs.

Number of primary co-operative stores on 30th June 1958: 505 with 235 branches and sales depots and 13 co-operative wholesale stores.

The sales turnover of both primary and wholesale stores: Rs. 1,015.80 lakhs.

Purchases and sale of primary stores: Rs. 650.96 lakhs and Rs. 319.46 lakhs respectively.

Purchases and sale of co-operative wholesale stores: Rs. 299.51 lakhs and Rs. 319.46 lakhs respectively.

Important Features of the Working of the Societies: The policy of weeding out uneconomic units and consolidating the position in respect of other societies was continued during 1958 also in respect of consumers' co-operatives. Due to this policy the business of a great number of societies improved.

They handled food stuffs, groceries and cloth both handloom and mill-made. They have been utilised as fair price shops for the distribution of Government rice under the price stabilisation scheme.

A rebate of 6 p.p. per rupee was allowed to them on the sale of handloom goods from the Cess Fund.

Central Land Mortgage Bank Ltd.: Amount of loans issued by the Bank in 1957-58: Rs. 73.44 lakhs.

The Bank has floated its 54th and 55th series

of debentures for an aggregate sum of Rs. 50 lakhs on the following terms and conditions:

S. No.	Amount (Rs. lakhs)	Period of Maturity years	Rate of Interest	Issue price Rs.
54th	25	20	4½	90.00%
55th	25	15	4½	100.00%

Government's guarantee for these debentures: Rs. 7 crores.

Value of debentures in circulation on 30th June 1958: Rs. 563.20 lakhs.

Total amount of loans outstanding at the end of June 1958: Rs. 444.30 lakhs.

Co-operative Housing Societies: Number of co-operative housing societies: 361; Share capital: Rs. 130.67 lakhs; Working capital: Rs. 483.35 lakhs; Number of houses built: 7,768.

The urban housing scheme was introduced in the middle of 1947. Accordingly housing committees were formed in about 202 urban centres. By the end of June 1958, there were 361 housing societies of all types in the State, functioning in the urban areas of the State.

Number of various types of societies as on 30th June 1958: 361 composed of 151 ordinary building societies, 37 house-building societies, 11 house construction societies, one township and two tenancy societies, 21 Harijan housing societies, eight industrial housing societies, and 150 rural housing societies.

Total number of members on their rolls with the paid-up share capital within brackets: 29,505 (Rs. 130.67 lakhs).

Total number of houses constructed by all types of housing societies with the aid of State loans till the end of June 1958: 7,768.

Number of houses under different stages of construction at the end of June 1958: 1,267.

The cooperative movement covers 84 per cent of villages and 34 per cent of rural population and meets 20 per cent of rural credit.

EDUCATION

The Madras and the Annamalai Universities are the two Universities in the State. Of the 41 colleges for general education for men, there were 7 honours and post-graduate, 23 first grade and 11 second grade colleges and of the 15 colleges for general education for women, there were one honours, eight first grade and six second grade colleges.

The State-wide adoption of basic education, i.e. craft-centred education at the primary stage has been accepted as the aim of the Government. Accordingly, the existing elementary schools and ordinary training schools are being converted into the basic type. Every year, new basic schools and basic training schools are opened.

Under the unemployment Relief Scheme, the balance of 49 teachers out of the allotment for 1955, was utilised for 1956-57. A grant of Rs. 15.38 lakhs was received from the Central Government during the year 1956-57 towards the expenditure on teachers employed under the Scheme.

Sixty-one more schools were equipped during the year 1956-57 with 16 m.m. projectors, and 51 more schools with 35 m.m. filmstrip projectors, raising the total number of Secondary schools so equipped at the end of the year to 417 and 444 respectively. Thirty more schools were equipped with Radio receiving sets, the total number of Secondary schools so equipped at the end of the year being 594. Due to reorganization of States, 62 secondary schools equipped with 16 m.m. projectors, 78 secondary schools equipped with 35 m.m. filmstrip projectors and 136 secondary schools equipped with radio sets went over to Kerala State.

In the budget estimates for 1957-58 a provision of Rs. 11.17 crores was made for education.

Number of institutions and students in the State as on 31st March 1957* are given below. The first figure against each item indicates the number of institutions and within brackets the first figure indicates the total number of students, followed by the number of boys and girls:

* Classification is different from that in the tables in the main article on Education.

Universities: 2 (3,139—Boys 2,886; Girls 253).

Colleges for general education: 41 (34,180—Boys 33,141; Girls 1,039).

Professional Colleges:

Education (Teachers' Training): 12 (997—Men 976; Women 21).

Engineering: 6 (2,056—Boys 2,055; Girl 1).

Medicine: 6 (3,202—Boys 2,554, Girls 648).

Veterinary: 1 (401—Boys 486, Girls 5).

Agriculture: 1 (416—Boys 405; Girls 11).

Forestry: 1 (139—Boys 139).

Law: 1 (1,177—Boys 1,146; Girls 31).

Physical Education: 2 (447—Boys 347; Girls 100).

Total number of professional colleges and total number of students: 29 (8,925—Boys 8,108, Girls 817).

Colleges for Special Education:

Music: 2 (117—Boys 15; Girls 102).

Oriental Studies: 13 (1,092—Boys 1,056; Girls 36).

Social Education: 1 (46—Boys 35; Girls 11).

Total number of Colleges for special education with total number of students within brackets: 16 (1,255—Boys 1,106, Girls 149).

Schools for General Education:

High Schools: 723 (408,060—Boys 359,566; Girls 48,494).

Secondary Schools (March 31, 1958): 939 for boys; 168 for girls; Students—Boys 417,168; Girls 162,860.

Middle Schools: 167 (48,174—Boys 31,868; Girls 16,306).

Elementary Schools: 20,790 (March 31, 1958): 2,497,937—Boys 1,593,064; Girls 904,873).

Post-Basic Schools: 2 (124—Boys 105; Girls 19).

Senior Basic Schools: 273 (75,041—Boys 46,838, Girls 28,203).

Junior Basic Schools: 1,654 (177,814—Boys 12,680, Girls 65,134).

Total number of schools for general education and number of students: 23,773 (3,203,995—Boys 2,147,677; Girls 1,056,318).

Total no of basic schools as on March 31, 1958: 2,233 (277,860—Boys 170,474; Girls 107,386).

Schools for Professional Education:

Training ordinary: 23 (3,504—Boys 3,479; Girls 25).

Training—Basic: 54 (7,294—Boys 7,259; Girls 35).

Polytechnics: 9 (4,169—Boys 4,168; Girls 1).

Industrial Schools: 51 (3,848—Boys 3,668; Girls 180).

Schools for Commerce: 337 (21,854—Boys 19,025, Girls 2,829).

Physical Education: 1 (63—Boys 63).

Total number of professional schools and students: 475 (40,792—Boys 37,662, Girls 3,130).

Schools for Special Education:

Other Fine Arts: 4 (453—Boys 425; Girls 28).

Oriental Studies: 14 (808—Boys 683; Girls 125).

Adult (Social) Education: 1,550 (48,245—Boys 37,899, Girls 5,346).

Schools for the Handicapped: 12 (1,386—Boys 937; Girls 449).

Reformatory Schools: 6 (2,738—Boys 2,639; Girls 99).

Village Guide Centres: 2 (291—Boys 291).

Jail schools: 8 (1,033—Boys 1,033).

Total number of schools for special education and students: 1,595 (49,954—Boys 48,907; Girls 6,047).

Grand total of all institutions with number of students, within brackets: 25,931 (3,342,240—Boys 2,274,487; Girls 1,067,753).

Number of boys and girls respectively in the Universities by faculties: Arts and Science

(1,852; 123); Commerce (134 boys); Engineering (298 boys); Technology (250 boys); B. Ed. (58; 8); Diploma in Teaching (23 boys); Diploma in Painting (10; 2); Oriental Learning (117; 24); M.O.L. (3 boys); Sangeetha Bhushana (41; 40); Music (3; 20); Diploma and Certificate Courses (287; 38).

Total number of boys 2,886; girls 253.

The figures relating to women's education in the following table refer to institutions open primarily to pupils of that sex.

Type of Institution	No. of Institutions	Strength		
		Boys	Girls	Total
		INSTITUTIONS FOR GIRLS		
Colleges for General Education	15	..	5,042	5,042
Professional Colleges:—				
Education (Teachers Training)	3	..	453	453
Total: Professional Colleges	3	..	453	453
Schools for General Education:—				
High schools	168	4,008	78,511	83,519
Middle schools	20	1,203	4,092	5,295
Post Basic schools	1	..	55	55
Nursery schools	83	1,136	1,044	2,180
Total: General Education	222	6,347	83,702	90,049
Schools for Professional Education:—				
Training—Ordinary	33	1	3,971	3,972
Training—Basic	28	43	3,012	3,055
Industrial schools	1	..	102	102
Schools for Arts & Crafts	15	11	909	920
Total: Professional Education	77	55	7,994	8,049
Schools for Special Education:—				
Oriental studies	1	..	46	46
Reformatory schools	3	..	624	624
Jail schools	1	..	34	34
Social workers	1	..	26	26
Total: Special Education	6	..	730	730
Grand Total: All Institutions	323	6,402	97,921	1,04,323

National Cadet Corps, etc.—The number of Junior Division Troops functioning during the year 1957-58 was 298 of which 39 belonged to the Girls Wing which had a strength of 1,170 cadets. The number of boys was 8,547 in the Army, Navy and Air Wings. The troops function in all the Districts.

There were 360 Girl Cadets in the Senior Division Girls Wing. During the year 1957-58, Junior Division Girls Troops were raised in Namakkal, Udumalpet, Coimbatore, Patturcottal, Mannargudi, Kumbakonam and Tiruchirappalli. The number of Boys Senior Division units functioning during 1957-58 was 21 with a total strength of 107 officers and 8,547 cadets. The total expenditure on the Junior and Senior Divisions during 1956-57 was Rs. 12,24,810.

The Auxiliary Cadet Corps was also expanded considerably and 469 teachers were trained during the year. The actual strength of A C C Officers and Cadets was 1,326 and 69,744 respectively; of these 109 were Lady Officers and 4,688 Girl Cadets.

WHITE PAPER ON EDUCATION

Final decisions were taken during the year 1957-58, firstly on a compromise formula in the matter of compulsory education, and secondly on the pattern and syllabus of social education. The former will enable the State to implement free and compulsory education limited to the first five years of schooling in every town and village by 1965-66.

The other decision which has been implemented from June 1958 relates to a 11-year pattern of

school education comprising 7 years of primary education followed by 4 years of secondary school course leading pupils to the new 3-year degree course. Implementing these decisions will entail the mobilising of resources to admit 110,000 children in the elementary schools and about 18,000 pupils in the secondary course classes every year. Necessary provision to meet these enrolment demands has been made.

Languages have been grouped under one head with three parts—Part I will be the regional language; Part II—Hindi (or any other Indian language not coming under Part I) and Part III—English or any other non-Indian language. Provision has also been made for instruction in the mother-tongue wherever minorities are concerned under Part I. Hindi or its alternative under Part II will be taught only from Standard VIII while English under Part III will be taught from Standard V onwards. Provision has been made for the free supply of midday meals for poor children in elementary schools and the extension of the Provident Fund-cum-Insurance-cum-Pension Scheme to all categories of teachers in secondary schools, in addition to all elementary school teachers. The enrolment of school children in the primary schools in the State works out to nearly 56 per cent of the all school-age children.

The year also saw the fulfilment of the programme of locating a school in every village with a population of 500 and more.

The State Government spent Rs. 11.4 crores on education in the year 1957-58 and it was proposed to increase the expenditure by another crore during 1958-59. Nearly one half of this expenditure goes towards primary education.

A Children's Theatre was opened in Madras City by converting a hall which was formerly the venue of the Legislative Assembly. Two Children's films produced in Hindi were also dubbed in Tamil.

Medium of instruction for B.A. courses: The medium of instruction for the reorganised B.A. degree courses in the State will be changed to Tamil commencing from the academic year 1963-64. The Government has decided that the Government Arts College, Coimbatore, should be the "pilot college" where the changeover will be introduced in 1960-61.

It will be open to private colleges to continue to provide English medium instruction for the B.A. degree courses even after the changeover is effected, that is, after 1963-64— but no grant will be payable by the State Government in respect of such courses. The study of English as a subject will, however, continue even in the Tamil medium B.A. courses, and the standard will be the same as that for part one of the reorganised B.Sc. degree course.

The changeover to Tamil will, however, not apply to B.Sc. degree courses.

THE MADRAS INDUSTRIAL INVESTMENT CORPORATION LIMITED

38, Whites Road, Royapettah, Madras-14.

When it started functioning: September 1, 1949.

The Main objects: Financing of industries in the State of Madras with long term and medium term loans.

Authorised Capital: Rs. 2,00,00,000.

Size of shares and how distributed: 20,000 Ordinary Shares of Rs 1,000 each.

Number of applications received for loans: 176 upto 30th June 1958.

Number of applications accepted for loan: 70.

Total amount of loans sanctioned: Rs. 3,66,25,000.

Total amount of loans advanced: Rs. 3,09,95,682.

Loans outstanding (as on 30th June 1958): Rs. 2,83,09,056.

Interest rate charged (current rate): 7½ per cent per annum with a rebate of ½ per cent for prompt payment of instalments of principal and interest.

Total expenses for the year ended 30th June 1958: Rs. 6,54,092.

Total income for the year ended 30th June 1958: Rs. 14,03,031.

Profit for the year ended 30th June 1958: Net profit before providing for taxation: Rs. 7,48,939.

Board of Directors:—R. Venkataswami Naidu (Chairman); Finance Secretary to Government of Madras (T. A. Varghese, I.C.S.), (Ex-officio Director & Vice-Chairman); Director of Industries & Commerce (T. K. Palaniappan, I.A.S.); V. V. Shanmuga Nadar; P. A. C. Ramasamy Raja; M. S. Palaniappa Mudaliar; M. A. Chidambaram Chettiar; V. S. Tyagaraja Mudaliar; N. Mahalingam, M.L.A.; A. M. M. Murgappa Chettiar; D. C. Kothari.

Secretary: S. Rajaratnam, M.A., A.I.I.B.

THE CORPORATION

Ripon Buildings,
Madras 3

Mayor, A. P. Arasu.

Dy. Mayor, P. Sivasankaran.

Commissioner, D. Balasundaram, I.A.S.

Dy. Commissioner, N. Sankaran, M.A., L.T.

Revenue Officer, K. A. Kanniah Naidu.

Health Officer, Dr. B. V. Sendarababu, M.B.B.S., D.P.H. (Calcutta).

Engineer, Mohideen Moctan, B.E., M.I.E.Struct.E., A.M.I.E. (Ind.), A.M.Soc.C.E.

Special Engineer, N. Bhaskaran, B.E., A.M.I.E.

Electrical Engineer, V. A. Patnaik, B.A., B.Sc. (Hons.) (Birmingham).

Water Works Engineer, O. T. Bagavan, B.A., B.E., C.E. (Hons.), A.M.I.E.

Chief Accounts Officer, K. Krishnan Nair.

Educational Officer, C. S. Arumalayagam, B.A., L.T.

Mechanical Engineer and Conservancy Officer, T. V. Rangaswamy.

Lady Superintendent, Child Welfare Scheme, Capt. (Miss) C. N. Sukmini, M.B.B.S.

Secretary to the Council, C. Venkatrama Reddy, B.A., B.L.

Chairman, Taxation Appeal Committee, M. Murugesu Mudaliar, B.A., B.L.

MEMBERS OF THE CORPORATION

Total number of members: 100

Total electorate: 9,40,195; Total votes polled in the 1959 elections: 4,31,860; Percentage: 45.93.

Party position in the Corporation: Dravida Munnetra Kazhagam 45; Congress 37; Independents 13; Communists 2; Praja Socialists 2; Socialists 1.

Names of the members of the Corporation showing within brackets the names of the divisions they represent, in the strict order from 1 to 100

Kannan (New Washermanpet); Vedachalam (Tondiarpet); M. Varadappa Naicker (Grace Garden); N. Thiruvengada Naicker (Sanjeeviroyanpet); S. G. Vinayagamurthy (Mottai Garden); U. Nagarajan (Narayana Naick Garden); Rajarathinam (Singara Garden); Jeevarathinam (Royapuram); S. Thiagarajan (Meenakshiammenpet); T. Govindasamy (Old Washermanpet); V. Munuswamy (Seven Wells North); G. Rajamannar (Ammen Koll North); A. Selvaraj (Muthialpet); Abdul Mamad (Ilambour); K. Kuppuswami (Mannady); K. Sultan Mohideen (Ammen Koll South); T. Damothara Mudaliar (Seven Wells South); Krishnamoorthy (Nowcarpet); M. C. V. Gopal (Kothwalchavadi); M. S. Sambandam (Kachalawarar); Dr. P. Srinivasan (Korukkupet); V. D. Sella Pillai (Kumaraswami Nagar); Karuppannan (Dr. Vijayaraghavulu Nagar); G. Kuchelar (Basin Bridge); A. Venkatesan (Kondithope); C. K. Balasundaram (Peddunakkenpet); Kannan (Perumal Koll Garden); Nagendran (Troveyan Basin); E. Narayana Pillai (Elephant Gate); Nivasankar Metha (Edappalayam); M. A. Muthukrishnan (Perambur); Velu (Vasarpady); N. Jagathesnan (Pulanthope); Elumalai Naicker (Wadia Nagar); K. A. Nagalingam (Thiru-Vi-Ka Nagar); Balan (Pattalam); M. Varadarajulu (Thattankulam); Nallathambi (Dr. Besant Nagar); Krishnamoorthy (Thooval); P. E. Rubalingam (Chetty (Hospital Maidan); C. Damodaran (Nembiam); T. Andippan (Niruvallur); Jambulingam (Agaram); S. K. Krishnamurthy (Naga Annamalai Nagar); B. E. Bakthavachalam (Ayanavaram); T. S. Govindaswamy (Nammalaipet); Ranganathan (Ottari); Varadan (Kosapet); T. K. Balasankaran (Perumalpet); V. R. Govindarajan (Purasawalkam); Devaraj (Shenoy Nagar); Srimathi T. Indrani (Kilpauk); Murugesan (Chetput); P. Sivasankaran (Nungambakkam); Sambanthan (Sevagram); Krishnan (Thousand Lights West); G. Subramani (Thousand Lights East); Chitti Babu (Pudupakkam); Krishnan (Amirahall); Elavarasu (Royapettah); A. Kannan (Gangadarewarar Koll); S. Kallal (Dr. Ambedkar Nagar); Madanagopal (Periampet); Ramadas (Park Town); Kapalamoorthy (Adikesavapuram); Manivannan (Thintadripet); Nagarajan (Egmore); M. R. Abdul Khader (Pudupet); Sampathu (Komalaswaranpet); A. P. Arasu (Narasimhapuram); Munver Hussaini (Nehru Nagar); Srimathi Subhadra Mannalai (Thiruvattreswaranpet); Dorakkannu (Chetput); Srimathi Alamelu (Marina); P. T. Pakshi Rajagopalan (Triplicane); M. S. Sambandappa (Jam Bazaar); M. S. Abdul Rahim (Mirashipet); Parthasarathy (Azad Nagar); D. Jayaraman (Dhurgapuram); S. Thulukanam (Krishnampet); Kannappan (Teynampet); P. S. Chettiar (Vivekanandapuram); Thimalingam (Madhavapuram); K. Govindasami (Karaniswarar-

puram); Thambi Durai (Santhome); S. Padmanabhan (Mylapore); K. Subramania Iyer (Bhremannapet); T. M. Shanmugam (Alwarpet); Kapali (Raja Annamalaiapuram); A. Kadirvelu (Adayar); A. S. Jeethathem (Aminjikaral); Na. Ganesan (Vadapalani); S. Krishnamoorthy (Thyagaraya Nagar); Sadagopan (Sathiyamurthy Nagar); Dr. K. Sourirajan (Rajaji Nagar); M. S. Subramanyam (Kamaraja Nagar); Ponnuwamy Mudaliar (Saidapet North); P. Kumaraswamy (Perlapet); Gopal (Gulindy); Annamalai (Saidapet South).

BUDGET ESTIMATES OF REVENUE, EXPENDITURE, GOVERNMENT GRANT Etc. FOR 1959-1960

	Rs (lakh)
Revenue	387.70
Expenditure	345.96

COIMBATORE DISTRICT

Dist. Hqrs.: Coimbatore.

The Coimbatore District, next in importance to the City of Madras, has an area covering 6,024 square miles with a population of 8,164,896. It is one of the major districts in Tamil Nad with the Cauvery River as boundary on the east, Mysore and the Nilgiris on the north, Kerala on the west and south. It is drained by three important tributaries of the Cauvery River—the Bhavani, Amaravati and the Noyyal rivers. The Annamalais (elephant hills) which form part of the District in the south have large coffee and tea plantations covering 40,000 acres and employing 40,000 workers whose annual wage bill is nearly Rs. 3 crores. Some 35 million lbs. of tea and 1,000 tons of coffee are produced. There are also cardamom and cinchona plantations. The finest teak in India is produced on these hills.

After the reorganization of States, much of the teak growing area has gone to Kerala State and so the Madras Government have begun teak growing in the Ulanly valley on the western slopes of the Annamalais, a natural teak growing area of 4,500 acres adjoining Kerala State.

Coimbatore, the District Headquarters, is the largest industrial city in Madras State with 60 textile mills and over 55 spinning factories employing over 55,000 workers and is officially described as the 'Manchester of South India.' It is also the largest textile manufacturing centre in Madras State. There are also a number of iron foundries including a medium sized blast furnace and a cement factory. A 22-lakh synthetic gum factory, the first of its kind in Asia, was opened in 1957. The factory which is an Indo-Swiss venture, hopes to meet the full demand for synthetic gums, which are now being imported, in a couple of years—producing in the first year alone gums valued at Rs. 20 lakhs.

The finishing part will be done at Tiruchirappalli and Jaipur by cottage industry groups.

The Regional Agricultural Research Institute, inaugurated by President Dr. Rajendra Prasad, on 10th August 1958, will cater to the needs of Madras, Kerala, Mysore and Andhra Pradesh and will be open to 40 post-graduates.

Other specialised institutions are the Union Government's Sugarcane Breeding Institute, the Southern Herbarium of the Botanical Survey of India and the Regional Research Station of the Indian Council of Agricultural Research for cotton, millets and oilseeds.

Work on the Parambikulam-Aliyar Project has just begun (Feb. 1959).

Taluk with headquarters within brackets: Coimbatore Taluk (Coimbatore); Avanashi Taluk (Avanashi); Palladam Taluk (Tiruppur); Bhavani Taluk (Bhavani); Dharmapuri Taluk (Dharmapuri); Erode Taluk (Erode); Gobichettipalayam Taluk (Gobichettipalayam); Udumalpet Taluk (Udumalpet).

BANKS

The State Bank of India, Bank Road, Coimbatore; The Coimbatore Central Co-operative Bank Ltd., Bank Road, Coimbatore; The Central Bank of India Ltd., Variety Hall Road, Coimbatore; Bank of Baroda, Big Bazar Street, Coimbatore; Bank of Bikaner Ltd., Oppanagara Street, Coimbatore; Bank of India, Head Post Office Road, Coimbatore; Bank of Jaipur Ltd., Variety Hall Road, Coimbatore; Bank of Mysore Ltd., Oppanagara Street, Coimbatore; Thomasco Bank, Raja Street, Coimbatore; Coimbatore National Bank Ltd., Variety Hall Road, Coimbatore; The Canara Bank Ltd., Oppanagara Street, Coimbatore; The United Commercial Bank, Oppanagara Street, Coimbatore.

COMMERCIAL ASSOCIATIONS

The Southern India Millowners' Association, Race Course, Coimbatore; The Indian Chamber of Commerce, Post Box No. 200, Coimbatore.

The South Indian Textile Research Association, was inaugurated on Oct. 13, 1958 by Vice-President Dr. Radhakrishnan.

SOCIAL CLUBS

The English Club, Trichy Road, Coimbatore; The Cosmopolitan Club, Race Course, Coimbatore; The Officers' Club, Chidambaram Park, Coimbatore; The Ladies' Club, Chidambaram Park, Coimbatore; The Rotary Club, Race Course, Coimbatore; The Lions Club, Mill Road, Coimbatore.

COLLEGES

The Agricultural College, Lawley Road, P.O., Coimbatore; The Forest College, Lawley Road, P.O., Coimbatore; The Government Arts College, Coimbatore; The College of Technology, Lawley Road, P.O., Coimbatore; Polytechnic, Avanashi Road, Coimbatore; Nirmala College for Women, R. S. Puram, Coimbatore; P.S.G. College of

Technology, Peelamedu, Coimbatore; The Coimbatore Institute of Technology, Peelamedu, Coimbatore; P.S.G. Arts College, Peelamedu, Coimbatore; The Coimbatore Training College for Women, Big Bazar Street, Coimbatore; The Indian Air Force for training ground personnel. The Avinashilingam Trust runs a Home Science College.

Under the Ramakrishna Mission a Teachers' College, a College of Rural Higher Education and a College of Physical Education are run at Perianaiknampalayam.

SOCIAL ORGANISATIONS

Y.M.C.A., Post Office Road, Coimbatore; Y.W.C.A., Avanashi Road, Coimbatore; Madras State Conference of Social Work, Race Course, Coimbatore; Guild of Service and Indian Red Cross Society, Opposite Sessions Court, Coimbatore; Inter-Collegiate Social Service League, Peelamedu P.O., Coimbatore.

EDUCATIONAL INSTITUTIONS**UNIVERSITY OF MADRAS**

This University, founded in 1857, was re-organized in 1923 as a Teaching and Residential University, and it continues to exercise control over the quality of the teaching given by its constituent and affiliated colleges. The Vice-Chancellor is a whole-time salaried officer. The authorities of the University include a Senate, Syndicate, Academic Council, Faculties and Boards of Studies.

Laboratories for research in Zoology, Botany, Physics, Geology, Organic Chemistry, Biochemistry, Physical Chemistry and Textile and Chemical Technology, are provided. There are also Departments of study and research in the following subjects: Anthropology, Indian History and Archaeology, Indian Economics, Indian Philosophy, Psychology, Mathematics, Statistics, Geography, Politics and Public Administration, Constitutional and International Law, Business Administration, Sanskrit, Tamil, Telugu, Kannada, Malayalam, Hindi, Arabic, Persian and Urdu, and Indian Music.

Degrees: B.A., B.A. (Hons.), M.A., M.Litt., Ph.D., D.Litt., B.L., M.L., LL.D., B.Sc., B.Sc. (Hons.), M.Sc. (by Exam.), M.Sc., Ph.D., D.Sc., B.E., M.Sc. Engg., B.Com., B.Com. (Hons.), M.Com., B.Sc. (Ag.), M.Sc. (Ag.), B.V.Sc., M.V.Sc., M.B.B.S., M.D., M.S., B.S.Sc., B.Pharm., B.D.S., B.Sc. (Nursing), Bachelor of Indian Medicine (B.I.M.), B.Sc. (Tech.), B.O.L., B.O.L. (Hons.), B.T., M.Ed., B.Mus., B.Arch.

Diplomas: Gynaecology and Obstetrics, Veneurology, Dermatology, Ophthalmology, Oto-Rhino-Laryngology, Radiology, Orthopaedics, Tuberculosis, Child Health, Clinical Pathology, Anaesthesia, Archaeology, Anthropology, Modern European Languages (French and German), Librarianship, Journalism, Physical Education, Social Service, Analytical Chemistry, Horticulture, Economics, Politics and Public Administration, Indian Music, Co-operation, Statistics, Geography and Business Management.

Oriental Titles: Shromani, Vidvan, Afzal-ul-Ulama, Munshi-i-Faail, Adib-i-Faail, Tabib-i-Kamil, Afzal-ul-Atthiba, Malpan and Soppar, Sangita Shromani.

Chancellor, Bhanu Ram Mehl, n.sc. (Hons.), M.Sc., B.L., Governor of Madras.

Pro-Chancellor, Minister for Education, Madras.

Vice-Chancellor, Lt.-Col. Sir A. Lakshmanaswamy Mudaliar, B.A., M.D., LL.D., D.Sc., D.C.L., F.R.O.G., F.A.C.S., M.L.C.

Registrar, R. Ravi Varma, M.A. (Lond.).

Deputy Registrar, Capt. D. Sivasubramania Mudaliar, M.R.C.S. (Eng.), L.R.C.P. (Lond.).

Asst. Registrar, P. S. Vaidyanathan, B.A., Dip. Com.

TEACHING STAFF

INDIAN ECONOMICS: *Professor, Dr. R. Balakrishna, M.A., Ph.D. (Lond.).*

INDIAN HISTORY AND ARCHAEOLOGY: *Professor, Dr. K. Kanakasabhapathy Pillai, M.A., D.Phil. (Oxon.), D.Litt.*

ARCHAEOLOGY: *Professor, Dr. T. V. Mahalingam, M.A., D.Litt.*

POLITICS AND PUBLIC ADMINISTRATION: *Professor, R. Bhaskaran, M.A.*

GEOGRAPHY: *Professor, Dr. George Kuriyan, B.A., B.Sc., Ph.D. (Lond.).*

INDIAN PHILOSOPHY: *Professor, Dr. T. M. P. Mahadevan, M.A., Ph.D.*

PSYCHOLOGY: *Professor, Dr. G. D. Boaz, M.A., D.Phil. (Oxon.).*

MATHEMATICS: *Professor, Dr. V. S. Krishnan, M.A., D.Sc., B.T.*

STATISTICS: *Professor, D. V. Rajalakshman, M.A., M.Sc., Ph.D. (Manchester), F.R.S., Dip. (Econ.).*

ORGANIC CHEMISTRY: *Professor, Dr. K. N. Menon, M.Sc., Ph.D. (Lond.), A.R.I.C., A.I.I.Sc., F.A.Sc.*

BIOCHEMISTRY: *Professor, Dr. P. Subbaraya Sarma, M.Sc., Ph.D. (Wisconsin), F.R.I.S. (Lond.), F.A.Sc.*

PHYSICAL CHEMISTRY: *Reader, Vacant*
BOTANY: *Professor, Dr. T. S. Sadasivan, M.Sc., Ph.D. (Lond.), D.Sc. (Lond.), F.A.Sc., F.R.S.*

ZOOLOGY: *Professor, Dr. C. P. Gnanamuthu, M.A., D.Sc., F.Z.S.*

PHYSICS: *Professor, Dr. G. N. Ramchandran, M.Sc., Ph.D. (Cantab.), D.Sc., A.I.I.Sc., F.A.Sc.*

GEOLOGY: *Professor, Dr. P. R. Jagajathy Nakin, M.Sc., D.Phil. (Pavil).*

ANTHROPOLOGY: *Reader, Baron U. R. Ehrenfels, Ph.D. (Vienna).*

CONSTITUTIONAL AND INTERNATIONAL LAW: *Professor, Dr. Charles H. Alexandrowicz, LL.M., LL.D., Bar-at-Law.*

BUSINESS ADMINISTRATION: *Professor, G. V. Krishna Rao, M.A., B.L., M.B.A. (U.S.A.).*

SANSKRIT: *Professor, Dr. V. Raghavan, M.A., Ph.D.*

TAMIL: *Professor, Dr. R. P. Sethu Pillai, B.A., B.L., D.Litt.*

TELUGU: *Reader, N. Venkata Rao, M.A.*

KANNADA: *Professor, M. Marappa Bhat, M.A., L.T., Vidwan.*

MALAYALAM: *Reader, Dr. S. Krishnan Nayar, M.A., Ph.D.*

ARABIC, PERSIAN AND URDU: *Reader, Abu Hashim Syed Ushaw, B.A.*

INDIAN MUSIC: *Reader, P. Sambamurthi, B.A., B.L.*

HINDI: *Reader, S. Shankar Raju Na'du, M.A. (Hons.) in Hindi.*

UNIVERSITY PROFESSORS AT MADURAI CENTRE

MATHEMATICS: *Professor, Dr. M. Venkatarama, M.A., Ph.D.*

PHYSICS: *Professor, Dr. Alladi Ramakrishnan, B.Sc. (Hons.), Ph.D. (Manch.).*

CHEMISTRY: *Professor, Dr. M. Santhappa, B.A., Ph.D. (Manch.), Ph.D. (Lond.).*

ALAGAPPA CHETTIAR COLLEGE OF TECHNOLOGY, GUINDY

Director: Dr. G. S. Iyidha, B.Sc. (Tech.), M.Arch.E. (Purdue), Ph.D. (Purdue), A.M.I.E.Chem.E.

ENGINEERING: *Professor, V. S. Jayaraman, B.E., A.M.I.E., A.M.I.E.Chem.E.*

CHEMICAL TECHNOLOGY: *Professor, A. P. Mathavan Najar, M.A.*

TEXTILE TECHNOLOGY: *Ag. Professor, S. Krishnamurthi, B.Sc., B.Sc. (Tech.).*

ARCHITECTURE: *Professor, M. G. Desai, B.A., B.D. Arch., Dip. Arch. (Lond.), F.I.I.A., F.R.I.B.A.*

Total number of Colleges (Arts, Science and Professional)—91; Total number of Students 68,935.

ARTS AND SCIENCE COLLEGES (58)

Constituent Colleges (13):

Agurchand Manmull Jain College, Meenambakkam, Madras 27.

Government Arts College, Mount Road, Madras 2.

Loyola College, Cathedral, Madras 6.

Pachayappa's College, Chetput, Madras 30.

Presidency College, Triplicane, Madras 5.

Sir Theagaraya College, Washermanpet, Madras 21.

Vivekananda College, Mylapore, Madras 4.

Ethiraj College for Women, Egmore, Madras 8.

Queen Mary's College, Mylapore, Madras 4.

Stella Maris College, Mylapore, Madras 4.

Women's Christian College, Kungambakkam, Madras 31.

The New College, Royapettah, Madras 14.

The South Indian Educational Trust Women's College, Teynampet, Madras 6.

Affiliated Colleges (45):

Government Arts College, Coimbatore.

Alagappa College, Karaikudi.

Government College, Kumbakonam.

The American College, Madurai.

Madura College, Madurai.

Lady Doak College, Madurai.

Thiagarajar College, Madurai.

Sarah Tucker College, Palayamkottai.

St. John's College, Palayamkottai.

Scot Christian College, Nagercoil.

South Travancore Hindu College, Nagercoil.

St. Xavier's College, Palayamkottai.
 Raja's College, Pudukottai.
 Salem Municipal College, Salem.
 Beechi College, Shembaganur, Madurai Dt.
 Rajah Doraisingam Memorial College, Sivaganga.
 Madras Christian College, Tambaram.
 The M.D.T. Hindu College, Tirunelveli.
 Holy Cross College, Tiruchirappalli.
 Jamal Mohamed College, Kharajanager, Tiruchirappalli.
 National College, Tiruchirappalli.
 St. Joseph's College, Tiruchirappalli.
 Sacred Heart College, Tirupattūr (N. Arcot Dt.).
 St. Mary's College, Tuticorin.
 V. O. Chidambaram College, Tuticorin.
 Sri G. V. G. Visalakshi College for Women, Udumaipeet.
 Islamiah College, Vaniyambadi (N. Arcot Dt.).
 V. H. N. Senthikumara Nadar College, Virudhunagar.
 Khadir Mohideen College, Adhirampattinam, Tanjore Dt.
 P.S.G. Arts College, Peelamedu, Coimbatore.
 Nirmala College for Women, Coimbatore.
 Mahajana College, Erode.
 Pachaiyappa's College, Kancheepuram.
 Alagappa College for Women, Karaikudi.
 Auxilium College, Katpadi (N. Arcot Dt.).
 Fatima College, Madurai.
 Ambanathapuram Vahala Charities College, Mayuram.
 Government Arts College, Ootacamund.
 Sri Pushpam College, Poondi, Tanjore.
 The Rajah Berfoji College, Tanjore.
 Sitalakshmi Ramaswami College, Tiruchirappalli.
 Hajee Karutha Rawther Howdia College, Uthamapalayam.
 Voorhees College, Vellore (N. Arcot Dt.).
 The Avinashilingam Home Science College for Women, Coimbatore.
 Nallamuthu Gounder Municipal College, Pollachi.

PROFESSIONAL COLLEGES (27)

Law :
 Madras Law College, Madras 1.
Medicine :
 Madras Medical College, Park Town, Madras 3.
 Stanley Medical College, Madras 1.
 Christian Medical College, Vellore (N. Arcot District).
 Madurai Medical College, Madurai.
Engineering :
 College of Engineering, Guindy, Saidapet, Madras 25.
 Government College of Technology, E. S. Puram, Coimbatore.
 P.S.G. & Sons Charities College of Technology, Coimbatore.
 Coimbatore Institute of Technology, Coimbatore.
 Dr. Alagappa Chettiar College of Engineering and Technology, Karaikudi.
 Thiagaraja College of Engineering, Tiruparankundram P.O., Madurai.
Teaching :
 Lady Willingdon Training College, Triplicane, Madras 5.
 Meeson Training College, Royapettah, Madras 14.
 St. Christopher's Training College, Vepery, Madras 7.
 Teachers' College, Saidapet, Madras 15.
 Government Training College for Women, Coimbatore.
 Sri Ramakrishna Mission Vidyalaya Teachers' College, Perianakcheppalayam (Coimbatore Dt.).
 Dr. Alagappa Chettiar Training College, Karaikudi.
 Thiagaraja College of Preceptors, Madurai.
 St. Ignatius' Training College, Palayamkottai.
 Government Training College, Komarapalayam, Salem Dt.
 Govt. Basic Training College, Orathanad, Tanjore Dist.

St. Xavier's Training College, Palayamkottai.
 Government Training College, Pudukottai.
 Vivekananda Training College, Thirupparoyathurai, Tiruchirappalli Dt.
 V. O. Chidambaram Training College, Tuticorin.
 Government Training College, Vellore, N. Arcot Dt.
Veterinary :
 Madras Veterinary College, Vepery, Madras 7.
Agriculture :
 Agricultural College, Lawley Road P.O., Coimbatore.
Technology :
 Alagappa Chettiar College of Technology, Guindy, Madras 25.
Physical Education :
 Y.M.C.A. College of Physical Education, Saidapet, Madras 15.
 Alagappa College of Physical Education, Alagappa College P.O., Karaikudi.

GOVERNMENT TECHNICAL INSTITUTIONS

Central Polytechnic, Broadway, Madras.
 Government School of Arts & Crafts, Egmore, Madras.
 Government Textile Institute, Washermanpet, Madras.
 Government Institute of Leather Technology, Washermanpet, Madras.
 Tamilnad Polytechnic, Madurai.
 Arthur Hope Polytechnic, Coimbatore.

AIDED INDUSTRIAL SCHOOLS IN THE STATE

Madras :
 C.N.T. Institute, Vepery.
 Anjuman Industrial School, Mount Road.
 Ramakrishna Mission Technical Institute, Mylapore.
 The Gokulam Cottage Industrial School, 11-B, Eldams Road, Teynampet.
 V. S. Rajagopalan's Radio Institute, Smith Road.
 Thakkar Bapa Vidyalaya, T. Nagar.
 Madras-Hussaini Yateem Khana Industrial School, Thousand Lights.
 Seton School of Embroidery and Needlework, Kilpauk.
 The Sevassadan Industrial School, Chetput.
 St. Anne's Industrial School, Royapuram.
 St. Joseph's Industrial School for Girls, Mylapore.
 Rani Rajyalakshmi Industrial Institute, Andhra Mahila Sabha Buildings, Mylapore.
 Madras Hindu Serak Sangh Industrial School for Girls, 67, Mulla Saheb Street, U.T.
 The Royal Telegraph and Wireless Training School, Purasawalkam.
 St. Joseph's Industrial School, Kallathappa Mudali Street, Vepery.
 A.M.M. Murugappa Chettiar Memorial Polytechnic, Avadi.
Chingleput District :
 American Advent Mission Industrial School, Velacheri, St. Thomas Mount.
 Harijan Industrial School, Kancheepuram.
 Government Victory Memorial Blind Industrial School, Poonamallee.
 Lady Willingdon Leprosy Sanatorium, Tirumani, Chingleput.
 Methodist Mission Industrial School, Ikkadu.
 St. Anthony's Industrial School, St. Thomas Mount.

North Arcot District :

Anjuman Industrial School, Vellore.
 Anjuman Industrial School, Melvisharam.
 Anjuman Industrial School, Tirupattūr.
 Don Bosco Industrial School, Vellore.

South Arcot District :

St. Joseph's Industrial School, Tindivanam.
 Danish Mission Industrial School, Panruti.

Tanjore District :

District Board Industrial School, Tanjore.
 St. Francis Xavier's Industrial School, Tanjore.
 St. Mary's Industrial School, Kumbakonam.
 Municipal Arts School, Kumbakonam.
 St. Cicely's Industrial School, Kumbakonam.

Tiruchirappalli District :

St. Joseph's Industrial School, Tiruchirappalli.
 Karur Industrial School, Karur.
 Holy Cross Convent Industrial School, Tiruchirappalli.
 St. John D'Britto Industrial School, Tiruchirappalli.
 Vincent's Technical Institute, Tiruchirappalli.

Madurai District :

Pasumalai Trade School, Madurai.
 The Arts School, Madurai.
 C.S.M. Industrial School, Dindigul.
 St. Joseph's Girls' Industrial School, Madurai.

Tirunelveli District :

S.P.G. Art Industrial School, Nazareth.
 St. Joseph's Industrial School, Adakkalapuram.
 Industrial School for the Blind, Palamcottah.
 St. Ignatius Industrial School, Tuticorin.
 R. C. Lace Industrial School, Vadakkankulam.
 Hindu Girls' Industrial School, Kudankulam.

Salem District :

St. Theresa's Industrial School, Marvaneri, Salem.

Coimbatore District :

St. Joseph's Industrial School, Coimbatore.
 P.S.G. & Son's Charity Industrial Institute, Peelamedu.
 Sri Ramakrishna Mission Vidyalaya School of Engineering, Coimbatore.
 Methodist Mission Industrial School, Dharapuram.

ANNAMALAI UNIVERSITY

Annamalainagar P.O.
 South India.

CHANCELLOR

Bhishnu Ram Medhi, B.Sc. (Hons.), M.Sc., B.L., Governor of Madras.

PRO-CHANCELLOR

Dr. Rajah Mir M. A. Muthia Chettiar, B.A., D.Litt. M.L.A.

VICE-CHANCELLOR

Lt.-Col. T. M. Narayanaswamy Pillai, M.A., B.L.
 Registrar, T. D. Moenakalsundaram, B.A., B.L.
 Bursar, M. O. Kalyanasundaram, B.A., B.L.

Deans :

Prof. M. S. Duraiswami, M.A. (Faculty of Arts).
 Dr. V. Ballabh, M.Sc., Ph.D. (Stanf.) (Faculty of Science).
 Prof. J. P. Kr. Ramanathan Chettiar (Pandita Vidwan) (Faculty of Oriental Studies).
 Lt. Col. S. Paul, B.E., M.I.E. (Ind.) (Faculty of Engineering & Technology).
 Prof. E. Ramanujachari, M.A. (Faculty of Education).
 Isai Arasu Prof. M. M. Dandapani Desikar (Faculty of Fine Arts).
 Librarian (Hony.). Prof. E. Ramanujachari, M.A.

TEACHING STAFF

ENGLISH: *Professor, M. S. Duraiswami, M.A.*
PHILOSOPHY: *Professor, Dr. S. P. Adinarayana, M.A., Ph.D.*
HISTORY AND POLITICS: *Professor, R. Sathianatha Ayyar, M.A.*
ECONOMICS: *Professor, K. S. Sonachalam, M.A.*
SOCIAL SCIENCES: *Professor, Dr. (Miss) M. Cornelius, M.A. (Col.), M.Sc., Ed.D. (Mich.).*
COMMERCE: *Head of the Department, S. Rajagopalan, B.A.*
PHYSICAL EDUCATION: *Professor and Director, S. Shanmugasundaram, B.A., Dip. Phy. (Edin.).*
MATHEMATICS: *Professor, Dr. V. Ganapati Ayyar, M.A., D.Sc.*
STATISTICS: *Professor, Dr. K. Rangaswami Aiyar, M.A., M.Sc., Ph.D.*
PHYSICS: *Professor, Dr. K. Venkateswarlu, M.Sc., D.Sc.*
CHEMISTRY: *Professor, Dr. V. Ballah, M.Sc., Ph.D. (Stanf.).*

BOTANY: *Professor, Dr. T. C. N. Singh, M.Sc., D.Sc.*
ZOOLOGY: *Professor, Dr. P. Govindan, M.A., Ph.D. (Mech.).*
AGRICULTURE: *Reader, Dr. G. Rangaswami, B.Sc. (Ag.), Ph.D. (Rutgers).*
GEOLOGY: *Professor, T. N. Muthuswami Ayyar, M.A.*
TAMIL (Arts): *Professor, T. P. Meenakshisundaram, M.A., B.L., M.O.L.*
TAMIL (Oriental): *Professor, L. P. Kr. Ramanathan Chettiar, Vidvan, Pandita.*
TAMIL (Research): *Professor, G. Subrahmanya Pillai, M.A., B.L., Vidvan.*
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SANSKRIT: *Professor, Dr. C. S. Venkateswaran, M.A., Ph.D., Sriraman.*
MALAYALAM, FRENCH AND GERMAN, HINDI AND URDU: *Malayalam, Vacant; French and German: Reader, T. P. Tambi, B.A.; Urdu and Hindi: Lecturer, Gulam Rasool, Adcebi Fazil, Visharad, Rashtra Bhasha Praveena.*
MUSIC: *Professor, Isai Arasu M. M. Dandapani Desikar.*

PAINTING: *Lecturer, K. Madhava Menon.*
ENGINEERING: *Professor of Mechanical Engineering and Head of the Department of Engineering, Lt.-Col. S. Paul, B.E., M.I.E. (Ind.).*
MECHANICAL: *Professor, C. Rajaram, B.A., B.E.*
CIVIL: *Professor, L. Venkatesan, B.E., C.E. (Hons.), M.S. (U.S.A.), A.M.I.E.*
WORKSHOP: *Reader, Vacant.*
TECHNOLOGY: *Professor, N. P. Palaniappan, M.Sc., M.Sc. (Tech.) (Mann.), A.M.C.T., A.M.T.I. Ch.E., F.O.S.*
EDUCATION: *Professor, R. Ramanujachariar, M.A.*
 Total number of students in the University : 3,029.
 Accounts and Government Grant (1956-57):
 Total income from grants from Government and other sources : Rs. 41,60,253.
 Total estimated expenditure on salaries, contingencies, buildings and equipment : Rs. 44,46,808.
 Recurring grant receipts : Rs. 7,09,500.

ASSOCIATIONS, SOCIETIES, ETC.

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Madras 7.

President: Mr. Justice N. Somasundaram;
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Hon. Secretaries: K. Kothandapani Pillai, C. Amritaganesan; *Hon. Treasurers:* V. S. Thyagaraja Mudaliar, V. Shanmugasundaram.

THE ADYAR LIBRARY & RESEARCH CENTRE
Adyar, Madras 20.

Head: N. Sri Ram; *Advisor:* Dr. V. Raghavan; *Director:* Miss Ann Kerr.

AGRI-HORTICULTURAL SOCIETY OF MADRAS
St. George's Cathedral Road, Madras 6.

Established 1835. Yearly subscription for members in Class A Rs. 25, in Class B Rs. 12. *Patron:* The Governor of Madras; *Chairman:* V. L. Ethiraj.

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113, Armenian Street, Madras.

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317, Thambu Chetty St., Madras 1.

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"Action Lodge", 11, McNicol Road, Chetput, Madras 31.

President: S. Ramu; *Vice-Presidents:* D. D. Gangal, H. K. Dass; *Hon. Gen. Secy.:* S. Viswanathan.

ALL INDIA MANUFACTURERS' ORGANISATION
Cherry Road, Salem.

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CLANS III

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President: K. Ramamoorthy; *Vice-Presidents:* N. C. Ambalavanan, Hussain Munavar Bey; *Secretary:* A. Piramanathan.

AMERICAN BAPTIST FOREIGN MISSION SOCIETY

25, Vepery High Road, Vepery, Madras.

Secretary:—E. Erickson. *Treasurer:*—W. F. Bartlett.

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Andhra Chamber Building, 272/73, Angappa Nalck Street, Madras 1.

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24-A, Lux Church Road, Mylapore, Madras.

Institutions of the Sabha: Mahila Vidyalaya, Lux Church Road; Industrial Institute, Ranthome; Sisu Vihar, Nagowarapuram; Nursing Home, Adyar.

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White Memorial Hall, Egmore, Madras, 8.

President: R. E. Davey, B.A., L.T.; *General Secretary:* H. L. Bowie; *Editor, The 'ANGLO-INDIAN':* A. W. Ross.

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Archbishop of Madras: His Grace the most Revd. Dr. Louis Mathias; *Auxiliary Bishop and Vicar-General:* H. E. the Rt. Revd. Dr. F. A. Arayalho.

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14, Rundalls Street, Vepery, Madras 7.

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ABTS ACADEMY

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277, Linghi Chetty Street, George Town, Madras.

Affords facilities to persons of all castes and creeds to engage themselves in literary, cultural, charitable and social welfare activities. Runs free reading room and library, children's centre, social education centre, film shows and general assistance to the poor and the needy.

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Director: G. V. Subba Rao; *Secretary*: C. N. Valdeswaran.

BARNARD INSTITUTE OF RADIOLOGY
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Dt. Commissioner (Scouts): S. V. Lakshmanan, B.A., B.L.; *Dt. Commissioner (Guides)*: Smt. Seethalakshmi Ramaswamy; *Secretary*: P. S. Ranganathan.

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Imparts art knowledge to pupils; organises art exhibitions; brings out art publications and participates in all artistic and cultural activities.

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91, Venkatachala Mudali Street, Mylapore, Madras.

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Vice-President: S. Narayanaswamy; *Chief Organizer*: Srimathi Pattu Balagopal; *Secretary*: V. Sundaresan.

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CHRISTIAN LITERATURE SOCIETY

Park Town, Post Box 501, Madras 3.

The society owns presses and bookshops. *Presses*: Moccosan Press, Post Box 455, Vepery, Madras 7; Christian Literature Society Press, Dickenson Road, Post Box 43, Bangalore 1 and Wesley Press, Post Box 37, Mysore City. *Book Shops*: Christian Literature Society Book Shop, Post Box 501, Park Town, Madras 3; Christian Literature Society Bookshop, Tiruvalla, Kerala; Tract and Book Society, St. Mark's Road, Bangalore 1.

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Synod Office, Cathedral P.O., Madras-6.

Moderator: The Most Rev. H. Sumitra, Gooty, Anantapur District; *Deputy Moderator*: The Rt. Rev. J. E. L. Newbligh, Tallakulam P.O., Madurai; *Hon. General Secretary*: The Rev. Dr. Thomas Sittler, Synod Office, Cathedral P.O., Madras-6; *Hon. Treasurer*: A. Gunamony, "Lizene", Pattom, Trivandrum-4.

CIGAR & CHEROOT TOBACCO RESEARCH STATION

Vedasandur P.O. (Dt. Madurai)

Agronomist & Officer-in-Charge: T. Krishnamoorthi, B.Sc. (Ag.).

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No. 12, Nana Rao Naidu Street, Thengarayanagar, Madras 17

President: A. Krishnan, B.A., Sound Engineer. *Vice-Presidents*: D. Kempuraj Urs, T. S. Prakasa Rao.

Secretaries: T. Janakiram and N. Krishnaswamy, B.A.

Treasurer: C. V. Ramakrishnan.

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Secretary: D. B. Batri.

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17/103, Big Bazar Street, Coimbatore.

President: B. Basuvalah Chetty.

Vice-President: K. V. Killah Chetty; *Hon. Secretary*: A. V. Venkataramaswamy.

THE COIMBATORE CONMOPOLITAN CLUB
4/57, Race Course Road, Coimbatore.

President: A. T. Krishnaswami Mudaliar.

Vice-President: V. C. Subbiah Gounder.

Treasurer: M. S. Palaniappa Mudaliar.

COIMBATORE MALIGAI MERCHANTS' ASSOCIATION

Rangai Gowder Street, Coimbatore.

President: S. V. Sangamaswara Chettiar;

Vice-President: M. R. Ramaswami Gounder;

Secretary: O. N. Krishnan.

CONNEMARA PUBLIC LIBRARY

Pantheon Road, Egmore, Madras 8.

Librarian: K. Govinda Menon, B.A.

COONOR WELLINGTON CLOTH MERCHANTS' ASSOCIATION

'Nanjappara' Buildings, Coonoor (Nilgiris).

President: L. M. Nanjappa Row; *Treasurer*: S. Jograj.

COSMOPOLITAN CLUB

Post Box No. 371, Mount Road, Madras 2.

President: Mr. Justice N. Somasundaram;

Vice-President: C. S. Loganatha Mudaliar;

Hon. Secretary: C. Ramaswami.

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(Registered under Society's Registration Act, XXXI of 1860)

6, Sullivan's Garden Road, Madras 6.

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Gen. Secretary: V. K. N. Chari

DIOCESE OF MADURA & RAMNAD

Church of South India, Tallakulam P.O.

(Dt. Madurai).

Bishop: The Rt. Rev. J. E. Newbligh, M.A., D.D.; *Diocesan Secretaries*: The Rev. Paulraj Thomas, M.A., B.D.; B. Ratnamany, M.A., B.L., Advocate; *Dy. Chairman*: Rev. K. Devapragasam, B.A., B.D.

EGMORE DRAMATIC SOCIETY

43, Gangu Reddi St., Madras 8

Patron: Dr. U. Krishna Rau, *President*: V. R. Ramanatha Iyer, *Founder-Secretary*: R. Sundararajan

EMPLOYERS' FEDERATION OF SOUTHERN INDIA

Dare House, 1st Line Beach, Madras 1.

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Secretary: F. W. A. Morris, O.B.E., I.O.B. (Retd.).

ENGLISH BAPTIST CHURCH

2/38, Vepery High Road, Madras 3.

Minister & Chairman, Board of Trustees: Rev. E. A. C. Baynes, B.D.; *Senior Deacon*: Prof. M. J. C. Baynes, M.A.; *Secy. & Treasurer*: Miss D. O. Chowryappa, M.A.

FEDERATION OF UNIVERSITY WOMEN IN INDIA

14, IV Street, Abhiramapuram, Madras 18.

Hon. General Secretary: Miss Malthreyil Ramadurai.

FRIEND-IN-NEED SOCIETY

Finabree Garden, 26, Poonamallee High Road, Madras 3.

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GANDHI LINCOLN INSTITUTE OF HUMAN RELATIONSHIP

Gandhigram (Dt. Madurai).

Hon. Director : G. Ramachandran; *Treasurer* : Dr. (Mrs.) S. Ramachandran; *Secretary* : B. Srinivasan, M.A.

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All India Depressed Classes, Educational Employment & Welfare Association.

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GOKULAM METHOD VILLAGE WELFARE ASSOCIATION

11-B, Eldams Road, Teynampet, Madras 18.

Started in 1929 and registered in 1942. Runs Nursery, Elementary, Handloom Weaving, Tailoring and Adult Education sections for general and technical qualifications. Also renders multi-purpose social services for the Blind, T.B. & Leprosy patients, and free legal aid, counselling, free milk distribution services.

President : Thirupugazh Mani Krishnaswami Iyer, B.A., B.L.; *Hon. Secretary* : G. A. Appan, B.Sc., Tech., D.Com., B.Com. (Hons.), F.N.A.A.; *Hon. Jt. Secretary* : G. Kausalya, B.A., B.L. Dip. in French.

GOVERNMENT GENERAL HOSPITAL

Park Town, Madras 8.

Dean : Dr. H. G. Krishnan, F.R.C.S.; *Resident Medical Officer* : Dr. N. Money, M.B.B.S.; *Secretary and Treasurer* : L. M. Jagadeesan, B.A.

GOVERNMENT MENTAL HOSPITAL

Madras 10.

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GOVERNMENT MUSEUM

Pantheon Road, Egmore, Madras.

Superintendent : Dr. S. T. Satiyamurti; *Senior Curator* : O. J. Jayadev.

GOVERNMENT OPHTHALMIC HOSPITAL

Marshall's Road, Egmore, Madras 8.

Superintendent : Dr. T. T. Ramalingam, M.B.B.S., D.O.; *Asst. Superintendent* : Dr. J. E. Abraham, M.B., B.S., D.O.; *Resident Medical Officer* : Dr. S. P. Subramaniam, B.Sc., M.B.B.S., D.O.

GOVERNMENT RAJA SIR RAMASWAMY MUDALIAR'S LYING-IN HOSPITAL

Madras 18.

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Assistant Superintendent : Dr. A. Sitaratna, M.D.

Resident Medical Officer : Dr. Vihnu Sarma, M.A. (Cantab.), M.D. (Cantab.), B.Chir., M.R.C.S. (Eng.), L.R.C.P. (Lond.), D.S.O.

GOVERNMENT ROYAPETTAH HOSPITAL

Royapettah, Madras 14.

Superintendent : Dr. A. Umapathi Mudaliar, M.B.B.S., M.F. (Hom. Lond.).

Resident Medical Officer : Dr. P. R. B. Menon, M.B.B.S.

Nursing Superintendent : Kumari E. Noah.

GOVERNMENT TEXTILE INSTITUTE

Washermanpet, Madras 21.

Principal-in-Charge : A. R. Ramaswamy.

GOVT. TUBERCULOSIS INSTITUTE

Spur Tank Road, Chetput, Madras 31.

Director : Dr. M. A. Hamid, M.D.

Senior Assistant Surgeon : Dr. P. D. Kannivelu, M.B.B.S., T.D.D.

Woman Assistant Surgeon : Dr. (Kumari) D. Ethirajam, M.B.B.S., T.D.D.

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(Estd. 1895)

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Secretary : T. G. Ramanjulu Naidu.

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The India Sunday School Union, founded in Allahabad in 1876, is an interdenominational and ecumenical organization having for its object the strengthening of religious and moral education in Christian schools throughout India.

Headquarters at Coonoor on the Nilgiri Hills.

President : Bishop S. K. Mondol.

Treasurer : F. P. D. Penning, Madras.

General Secretary : V. M. Koshy, Coonoor.

Number of Sunday Schools in India 22,304, Teachers 42,886; Scholars 891,568.

INDIAN BOTANICAL SOCIETY

Univ. Botany Laboratory, Madras 8.

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INDIAN INSTITUTE OF HOMOEOPATHS

30, Bakthapuri St., Kumbakonam, and 6, Stringers St., Madras 1.

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Founded in 1907 for the advancement of mathematical studies in India. It conducts two quarterly journals, *The Journal of the Indian Mathematical Society* and *The Mathematics Student*. The Society maintains a library of books and current mathematical periodicals in all languages and new books on the subject are added yearly.

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INDIAN MEDICAL ASSOCIATION

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George Oakes Limited.—36/D, Mount Road, Madras 1.

George Vint & Whalla (India) Ltd.—7, Woods Road, Mount Road, Madras 2.

Gillanders Arbuthnot & Co., Ltd.—3, North Beach Road, Madras 1.

Gilvay Laboratories (India) Ltd.—Woods Road, Madras 2.

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Gordon Woodroffe & Co (Madras) Ltd.—1/21, North Beach Road, Madras 1.

Govindaraj & Sons Ltd., P. 330, Thambu Chetty Street, Madras 1.

Grahams Trading Co (India), Private Ltd., 310/311, Linghi Chetty Street, Madras 1.

GRAVES COTTON & CO., LTD., 19, Second Line Beach, Post Box No. 207, Madras 1. Head Office: 1, Forbes Street, Post Box No. 61, Fort, Bombay. Merchants, Engineers & Contractors, Branch Manager: K. M. Bharucha; Engineers: M. R. Nair, C. R. D. Naidu, S. Krishnan, N. G. Gharpade, S. H. Sampath, U. B. Rao, L. Theodore.

Guest, Keen, Williams, Ltd., 202, Mount Road, Madras 1.

Gunter Power & Light Ltd., 2/6, Second Line Beach, Madras 1.

Gunter Tobacco Ltd., 2/6, Second Line Beach, Madras 1.

Harrison & Co (Drug Section), 107, Broadway, Madras.

Hassanally, A. M., & Co., 31, Linghi Chetty Street, Madras 1.

Healy & Gresham Ltd. United India Life Building, Esplanade, Madras 1.

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Hind Mercantile Corporation Ltd., 308/300, Linghi Chetty Street, Madras 1.

Hindu Office and National Press The (Estd. 1878) "Kasturi Buildings", Mount Road, Madras 2.

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HOLLERITH (INDIA) (PRIVATE) LIMITED, P.O. Box No. 764, Madras; Hollerith Electronic and Electro-mechanical Punched Card Accounting Machines; Head office, Faradhyo Bldg., Mahatma Gandhi Road, Bombay 1. Area Office: 38, Mount Road, Madras 6, Area Manager: K. P. S. Menon, Phone: 86438; Telegraph Address: "TABULORIAL".

Hiford-Selo (India) Private Ltd., 2/3, Woods Road, Madras 2. Phone: 8320.

Imperial Chemical Industries (India) Private Ltd., Bombay Mutual Building, Netaji Subhas Chandra Bose Road, Madras 1.

Imperial Tobacco Co. of India Ltd., 150/B, Mount Road, Madras 2.

India Cements Ltd., 11-12, Second Line Beach, Madras.

India Electric Works, Ltd., The, Chinnath Bldg., 19/20, Mount Road, Madras 2. Phone: 86058.

India Plastics Private Ltd., Husar Gardens, Sembiam, Madras 11.

INDIA SILK HOUSE, Textiles, Ready-made Wear, Presentation Novelties, Furnishings, Household Linens and Drapers, 192, Mount Road, Madras 2. Phone: 86523; Grams: "HATGURU".

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Indian Chemical & Therapeutic Works
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Indian Oxygen & Acetylene Co., Ltd.,
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Chetty Street, Madras 1.

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Joewanal (1929) Ltd., 127, Mint Street,
Madras 1.

Jupiter General Insurance Co., Ltd.,
Jupiter House, 167, Broadway, Madras 1.

Kamath & Kamath, 322/3, Linghi Chetty
Street, Madras 1.

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Road, Madras 1.

King & Company, 321, Thambu Chetty
Street, Madras 1.

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Madras 2.

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Govindappa Nalk Street, Madras 1.

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Lever Brothers (India) Ltd., 11/14, Arme-
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Street, Madras 1.

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McDowell & Co., Ltd., Second Line Beach,
Madras 1. Phone: 4438.

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Madras 6.

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Modi & Modi, Electrical Goods & Machinery
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P.B. No. 293, Madras 1.

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Spare parts, 159, Mount Road, Madras 2.

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High Road, Madras 5.

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R. Kuppuswamy Chetty & Son, 17,
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United India Fire & General Insurance Co., Ltd., Madras 1.

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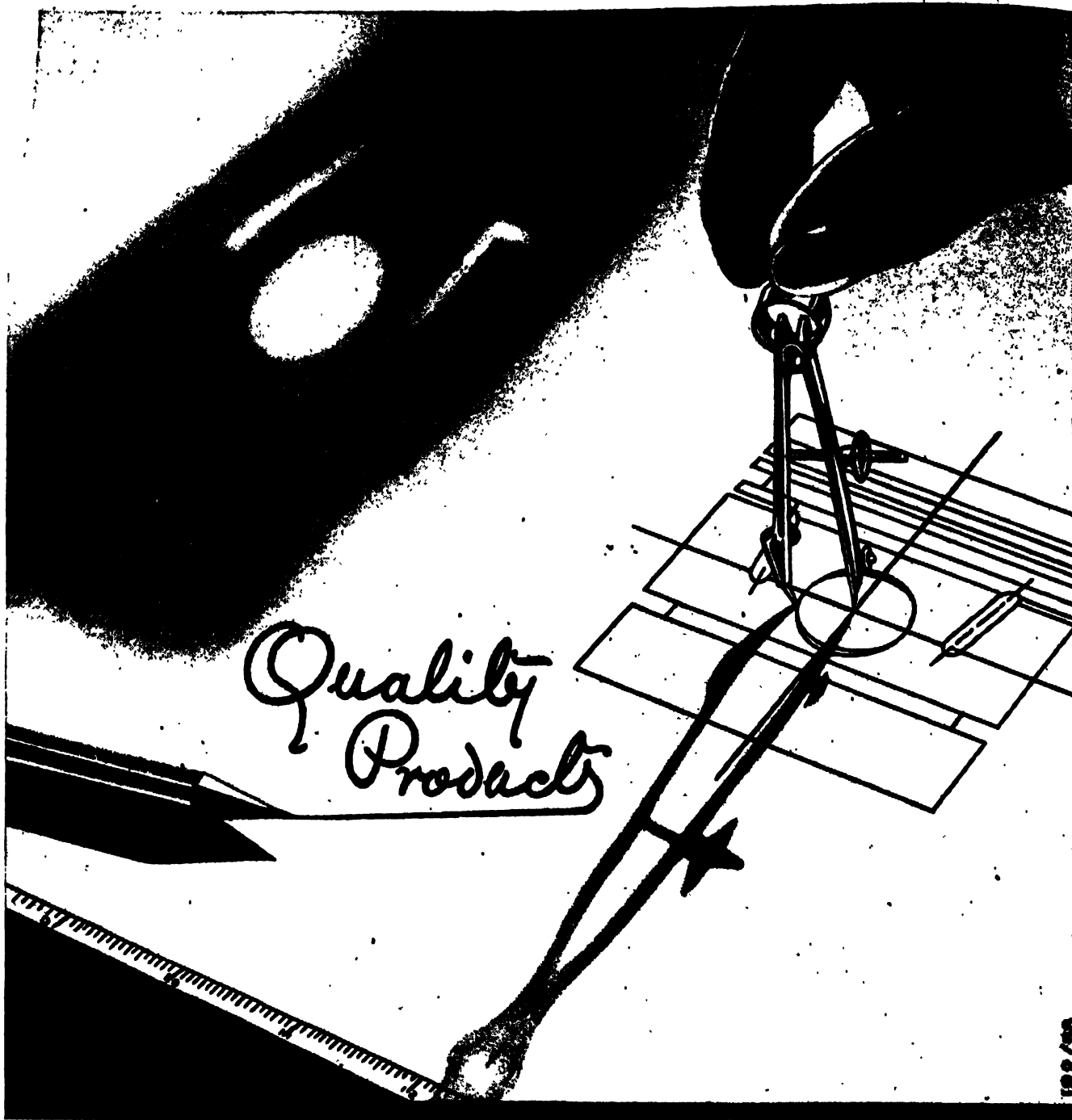
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 Efficient Publicity Ltd.—1/17C, Mount Road, Madras 2.
 Epochs—2/6, Second Line Beach, Madras 1.
 Ganesh Publicities—8, Bell's Road, Chempauk, Madras 5.
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 L. A. Stronach & Co. (India) Ltd.—193, Mount Road, Madras 2.
 Madras Advertising Co. Private Ltd.—202, Mount Road, Madras 2.
 Maxton Advertising—31, Mount Road, Madras 2.
 Modern Ltd.—1/21, General Patters Road, Mount Road, Madras.
 Nalin Publicity Bureau—11 & 12, Second Line Beach, Madras 1.
 P. S. Mani & Co.—2/4, Mount Road, Madras 2.
 Ravi Publicity—Mount Road, Madras 2.
 Sastry's Advertising—Bombay Mutual Building, Linghi Chetty Street, Madras 1.
 Sista's Ltd.—7, Woods Road, Mount Road, Madras 2.
 United India Publicity Corp.—United India Building, Madras 1.

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National Engineering Co. (Madras) Ltd.—379, Netaji Subhas Chandra Bose Road, Madras 1.
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 Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
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 Gillanders Arbuthnot & Co., Ltd.—North Beach Road, Madras 1.
 Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
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 Best & Co., Ltd.—First Line Beach, Madras 1.
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EAST ASIATIC COMPANY (INDIA) PRIVATE LTD., THE.—Machine & Engineering Dept., Bharat Bldg., Mount Road, Madras 2; Phone: 86021/2; Grams: "MANDARIN"; P.O. Box No. 148.

Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
GUEST, KEEN, WILLIAMS, LTD.—202, Mount Road, Madras 2.
 Indian Oxygen and Acetylene Co., Ltd.—7/A, Vaithianatha Mudali Street, Pondicherry, Madras 21.
 Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
 Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
 Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
 Robert McLean & Co., Ltd.—200, Mount Road, Madras 2.
 Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
 Voltas Ltd.—115/116, Armenian Street, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

ARMS AND AMMUNITIONS DEALERS

McDowell & Co., Ltd.—Second Line Beach, Madras 1.
 N. V. Ramanjulu Chetty & Co.—18, Broadway, Madras 1.
 P. Orr & Sons Ltd.—Orrs Building, Mount Road, Madras 2.
 Wilson & Co.—North Railway Terminus Road, Royapuram, Madras 2.

ASBESTOS PRODUCTS

Best & Co., Ltd.—First Line Beach, Madras 1.
 Brady, W. H., & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
 East Asiatic Co. of India Ltd.—Mercantile Bank Building, First Line Beach, Madras 1.
 Hassanally & Co., A. M.—34, Linghi Chetty Street, Madras 1.
 Phone: 2352. Grams: "BRILLIANT."
 Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
 Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
 Roberts McLean & Co., Ltd.—200, Mount Road, Madras 2.
 Taylor, T. A. & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.
 Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

ASPHALT AND BITUMEN

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
 Burmah-Shell Oil Storage and Distributing Co. of India Ltd.—Burmah-Shell House, Esplanade, Madras 1.
 Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
 Standard-Vacuum Oil Co.—United India Building, Esplanade, Madras 1.

AUTOMOBILES (TRUCKS, MOTORCARS & MOTORCYCLES)

MADRAS MOTORS PRIVATE LTD., THE.—Motorcycle Specialists, 36-C, Mount Road, Madras 2. Phones: 86031 & 86032. Grams: "MOTOGLYDE." Sole Selling Agents for Royal Enfield Motor Cycles and Three Wheelers progressively manufactured by the Enfield India Ltd., Madras.

AUTOMOBILE PARTS AND ACCESSORIES

Abdul Rahim—14-A, General Patters Road, Madras 2.
 Anand Automobiles.—1/18, Mount Road, Madras 2.
 Associated Accessories Ltd.—11, General Patters Road, Madras 2.
 Auto Accessories & Spares—5/30, Mount Road, Madras 2.
 Auto & General Supplies—Mount Road, Madras 2.
 Automobiles Agencies Ltd.—12, Smith Road, Mount Road, Madras 2.
 Automotive & Allied Industries Ltd.—52, General Patters Road, Madras 2.
 Auto Parts & Trading Co.—22, General Patters Road, Madras 2.
 Auto Sales Company—Imperial Bank Street, Madras 2.
 Bajaj Bros.—159, Broadway, Madras 1.
 Bawa Motors—10, Imperial Bank Lane, Madras 2.

SHARAT MOTORS.—(Proprietors: N. R. Private Ltd.), 35, Mount Road, Madras 2. Phone: 88501. Grams: "SHARAT CARS." Head Office: Modi Chambers, Sandhurst Bridge Corner, Bombay 4. Showroom: 144, Mount Road, Madras 6. Service Station, 5, Greenway Road, Madras 6.

Bombay Motor House—General Patters Road, Madras 2.
 Canara Workshops Ltd.—40, General Patters Road, Madras 2.
 Chari Trading Co.—"Wellington", Mount Road, Madras 2.
 Chaudry Automobiles—61/62, General Patters Road, Madras 2.
 Chimanlal Desai & Co.—6, Sunkurana Chetty Street, Madras 1.
 Commercial Engineering Syndicate—50, Mount Road, Madras 2.
 D. V. Grover—Imperial Bank Lane, Madras 2.
 Eastern Automobiles & Engineering Co., Ltd.—General Patters Road, Madras 2.

General Automobiles—18, General Patters Road, Madras 2.
 Globe Traders—34, General Patters Road, Madras 2.
 Himco (India) Private Ltd.—Dinroze Estate, 1/17, Mount Road, Madras 6.

Hotchand Chhattaram—28/C, Kandappa Chetty Street, Madras 1.
 India Electric Works Ltd.—Chatnath Bldgs., 19/29, Mount Road, Madras 2. Phone: 86058.

India Pistons Private Ltd.—Husur Gardens, Seemblam, Madras 11.
 Indian Engineering & Trading Co.—26, Wallers Road, Mount Road, Madras 2.

Jeewaji & Co.—Wood Road, Madras 2.
 Jupiter Agencies—1, Ratilal Street, T. Nagar, Madras 17.
 Kannapan Motor Stores—34, General Patters Road, Madras 2.
 Lakshmi Motors—35/36, General Patters Road, Madras 2.
 Madras & Auto Services Ltd.—37, Mount Road, Madras 2.
 Madras Bell Bearing House—14/15, General Patters Road, Madras 2.
 Madras Mercantile Agencies Ltd.—Bharat Building, Mount Road, Madras 2.

Madras Sales Corporation—21, General Patters Road, Madras 2.
 Man's Modern Mart—35, General Patters Road, Madras 2.
 Marikar (Motors) Ltd.—18, General Patters Road, Madras 2.
 Modern Automobiles—4/17, Mount Road, Madras 2.
 Modern Distributing Co.—65, Singanna Chetty Street, Madras 1.
 Modern Motors—1/C, Wallers Road Mount Road, Madras 2.
 Modern & General Trading Co.—159, Mount Road, Madras 2.
 Motor & Allied Agencies—1/17A Mount Road, Madras 2.
 Motor & General Trading Co., The—159, Mount Road, Madras 2. Phone: 86902.

Nason's—48, General Patters Road, Madras 2.
 New Motor House—16, General Patters Road, Madras 2.
 Nishat Trading Co.—General Patters Road, Madras 2.
 Overseas Manufacturers Sales Co.—80, General Patters Road, Madras 2.

P. H. Munnuswamy—81, Harris Road, Mount Road, Madras 2.
 Pioneer (Madras) Ltd.—23, Mount Road, Madras 2.
 Premier Auto Electric Ltd.—4, Pattalu Road, Mount Road, Madras 2.
 Presidency Motors—General Patters Road, Madras.

Radhakrishna Automobiles—17, Mount Road, Madras 2.
 Radhakrishna Motor Stores—17, Mount Road, Madras 2.
 Ramdas Motor & Electrical Co.—104, Mount Road, Madras 2.
 Rane (Madras) Ltd.—4, Pattalu Road, Mount Road, Madras 2.
 Rayala Corporation (Madras) Ltd.—1/155, Mount Road, Madras 2.
 Reliance Trading Co.—General Patters Road, Madras 2.

Sat Pal Brothers—General Patters Road, Madras 2.
 Singon & Co. (India)—13, Imperial Bank Lane, Madras 2.
 Southern India Trading Corp.—52, General Patters Road, Mount Road, Madras 2.

Sridhar & Co.—11-B, Mount Road, Madras 2.
 Standard Auto Parts Co.—2/80, Mount Road, Madras 2.
 Swamy Automobiles—60, General Patters Road, Madras 2.
 Tecalemit (India) Ltd.—United India Life Bldg., Esplanade, Madras. Phone: 3100.

Upper India Trading Co.—Mount Road, Madras 2.
 V. S. T. Motors Private Ltd.—34, Mount Road, Madras 2. Phone: 86037.

Y. Yenganna Chowdry—52, Gopathi Narayana Chetty Street, Madras 17.

AUTOMOBILES (TRUCKS, MOTORCARS AND MOTORCYCLES)

George Oakes Ltd.—36/D, Mount Road, Madras.
 Madras Motors Private Ltd., The—Motorcycle Specialists, 36-C, Mount Road, Madras 2.
 V. S. T. Motors Private Ltd.—34, Mount Road, Madras 2.

AVIATION SPIRIT

Burmah-Shell Oil Storage & Distributing Co. of India Ltd.—Burmah Shell House, Esplanade, Madras 1.
 Standard-Vacuum Oil Co.—United India Life Building, Esplanade, Madras 1.

BAILING PRESSES

Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
 Marshall Sons & Co. (India) Ltd.—Marshall House, Second Line Beach, Madras 1.
 Voltas Ltd.—115/116, Armenian Street, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

BATTERIES

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
 Associated Electrical Industries (India) Ltd.—11/12, First Line Beach, Madras 1.
 Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
 General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
 Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
 Himro Batteries (Madras) Private Ltd.—144, Mount Road, Madras 6.
 Heatly & Gresham Ltd.—United India Life Building, Esplanade, Madras 1.
 Himco Batteries Madras Private Ltd.—144, Mount Road, Madras 6.
 South India Export Co., Ltd.—5, McLean Street, Madras 1.
 Taylor, T. A. & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
 Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
 Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

BEARINGS (BALL AND ROLLER)

Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
 Bombay Co., Ltd.—169, Broadway, Madras 1.
 Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
 Heatly & Gresham Ltd.—United India Life Building, Esplanade, Madras 1.
 Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
 Malhotra Mill Store Co.—33, Mooker Nallamuttu Street, Madras 1.
 Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
 Robert Mclean & Co., Ltd.—200, Mount Road, Madras 2.
 Taylor, T. A. & Co. (Madras) Ltd.—100, Armenian Street, Madras.
 William Jacks & Co., Ltd.—National Bank Building, First Line Beach, Madras 1.

BELTING TEXTILES (MFRS. AND SUPPLIERS)

Best & Co., Ltd.—First Line Beach, Madras 1.
 Binny & Co., Ltd.—7, Armenian Street, Madras 1.
 Bombay Co., Ltd.—169, Broadway, Madras 1.
 Brady, W. H. & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
 Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
 Gillanders Arbuthnot & Co., Ltd.—3, North Beach Road, Madras 1.
 Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
 Greaves Cotton & Co., Ltd.—19 Second Line Beach, Madras 1.
 Hassanally & Co., A. M.—34, Linghi Chetty Street, Madras 1.
 Phone: 2352. Grams: "BRILLIANT."
 Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
 Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
 Parry & Co., Ltd.—Dare House, First Line Beach, Madras 1.
 Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
 Robert Mclean & Co., Ltd.—200, Mount Road, Madras 1.
 Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
 Voltas Ltd.—115/116, Armenian Street, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

BLOCK MAKING PLANT—CONCRETE

Heatly & Gresham Ltd.—United India Life Building, Esplanade, Madras 1.
 Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
 Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
 Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.

BOBBINS AND SHUTTLES

Best & Co., Ltd.—First Line Beach, Madras 1.
 Brady, W. H. & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
 Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
 Voltas Ltd.—115/116, Armenian Street, Madras 1.

BOILERS AND BOILER ACCESSORIES

Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
 Bombay Co., Ltd.—169, Broadway, Madras 1.
 Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
 Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
 Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
 Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
 Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
 Parry & Co., Ltd.—Dare House, First Line Beach, Madras 1.
 Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
 South India Export Co., Ltd.—5, McLean Street, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

BOLTS, NUTS AND SCREWS

Bombay Co., Ltd.—169, Broadway, Madras 1.
 Chambers, K. H., Ltd.—Errabalu Chetty Street, Madras 1.
 Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
 Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
 McDowell & Co., Ltd.—Second Line Beach, Madras 1.
 Taylor, T. A. & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
 Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

BOOKSELLERS AND PUBLISHERS

Christian Literature Society Bookshop, Park Town, Post Box 501, Madras-3.

HIGGINSBOTHEAMS (PRIVATE) LTD. (ESTD. 1844).—Post Box No. 311, Madras. Phone: 55598. Grams: "BOOKLOVER". Booksellers, Publishers, Stationers, etc. Branches at: Bangalore, Ootacamund and Trivandrum. Bookstalls on all important Rly. Stations, Aerodromes and Harbours in S. India.

Macmillan & Co., Ltd.—6, Patullo Road, Madras 2.
 Orient Longmans Ltd. (Publishers).—36/A, Mount Road, Madras 2.

BRICKS AND TILES MFRS. & DEALERS

Best & Co., Ltd.—First Line Beach, Madras.
 Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
 Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
 Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
 Parry & Co., Ltd.—Dare House, First Line Beach, Madras 1.
 Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

BROKERS (STOCK AND SHARE)

B. N. Viswanathan & Co.—310/311, Linghi Chetty Street, G. T., Madras 1.
 Chitra & Co.—110/111, Armenian Street, Madras 1.
 Dalal & Co.—National Insurance Building, Esplanade, Madras 1.
 Kothari & Sons—Oriental Building, Armenian Street, Madras 1.
 Maronochie & Co.—Mercantile Bank Building, Madras 1.
 Paterson & Co.—22, Errabalu Chetty Street, Madras 1.
 Raj & Co.—107/B, Armenian Street, Madras 1.
 Ramlal & Co.—17, Angappa Nalck Street, Madras 1.
 Somayajulu & Co.—Andhra Insurance Buildings, 337, Thambu Chetty Street, Madras 1.

SWASTIK & CO.—Stock & Share Brokers, Swastik House, 106, Armenian Street, Madras 1.

Trojan & Co.—New India Buildings, 13/14, Second Line Beach, Madras 1.
 Venkataraman & Co.—Bombay Mutual Building Annex, 222/223, Linghi Chetty Street, Madras 1.
 V. S. Krishnaswami & Co.—11/12, First Line Beach, Madras 1.

BUILDING ENGINEERS AND CONTRACTORS

Coromandel Engineering Co., Ltd.—106, Armenian Street, Madras 1.
 Dural Bros.—1/11, Umpherson Street, Madras 1.
 Gally & Co.—29, General Patters Road, Madras 2.
 Gannon Dunkerley & Co.—14, Roag Road, T. Nagar, Madras 17.
 Kuttal & Rao.—1/95, Broadway, Madras 1.
 Murugappa & Sons—Swastik House, Armenian Street, Madras 1.
 Pathy & Co.—186, Triplicane High Road, Madras 6.
 Ramprasad Ltd.—5, Sir C. V. Raman Road, Madras 16.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

BUILDING MATERIALS

Amalgamations Private Ltd.—202, Mount Road, Madras 1.
 Best & Co., Ltd.—First Line Beach, Madras 1.
 Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
 Heatly & Gresham Ltd.—United India Life Building, Esplanade, Madras 1.
 McDowell & Co., Ltd.—Second Line Beach, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.
 Wilson & Co.—North Railway Terminus Road, Royapuram, Madras 1.

BULLION

Amichand Nagindass & Co.—108, Netaji Bose Road, Madras 1.
 B. C. Shantilal & Co.—187, Netaji Bose Road, Madras 1.
 Chhotalal N. Shah.—106, Mint Street, Madras.
 Jain Jewellery Co.—1, T. Nagar, Madras.
 Jayanama Chetty P. Radhakrishna Chetty & Co.—215, Netaji Bose Road, Madras 1.
 M. Balakrishnamoorthy Chetty.—213, Netaji Bose Road, Madras 1.
 M. Gokuldass.—18, Ekambaraswarar Agraharam, Madras.
 Pandu Rao & Co.—43, Netaji Bose Road, Madras 1.
 Rama Jewellers.—209, Netaji Bose Road, Madras 1.
 Rathnial Chandelick & Co.—32, Netaji Bose Road, Madras 1.
 Thakrimal & Co.—210, Netaji Bose Road, Madras 1.
 Vasanthi Bhagwanji Shah.—52, Netaji Bose Road, Madras 1.

BURNERS (OIL AND GAS)

Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
 Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
 Heatly & Gresham Ltd.—United India Life Building, Esplanade, Madras 1.
 Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
 Spencer & Co., Ltd.—Mount Road, Madras 2.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

CABLES AND CABLE BOXES

Associated Electrical Industries (India) Ltd.—11/12, First Line Beach, Madras 1.
 Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras.
 British Insulated Callender's Cables Ltd.—37, Second Line Beach, Madras 1.
 Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
 General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
 Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
 Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
 Philips Electrical Co. (India) Ltd.—Mount Road, Madras 2.
 Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

CANVAS AND TARPAULINS (WATERPROOFING MATERIAL)

Best & Co., Ltd.—First Line Beach, Madras 1.
 Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
 Bombay Co., Ltd.—169, Broadway, Madras 1.
 Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
 Gordon & Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
 Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
 Roberts McLean & Co., Ltd.—200, Mount Road, Madras 1.

CARD CLOTHING

Brady, W. H., & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
 Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
 Roberts McLean & Co., Ltd.—200, Mount Road, Madras 1.
 South India Export Co., Ltd.—5, McLean Street, Madras 1.
 Voltas Ltd.—115/116, Armenian Street, Madras 1.

CARPENTERS' IMPLEMENTS

Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras 1.
 McDowell & Co., Ltd.—Second Line Beach, Madras 1.
 Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
 Vernon & Co., Ltd.—36, Linghi Chetty Street, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.
 Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

CEMENTS & CONCRETE COMPANIES

Amalgamations Private Ltd.—202, Mount Road, Madras.
 Asbestos Cement Ltd.—202, Mount Road, Madras 2.
 Associated Cement Companies Ltd.—Mount Road, Madras 2.

Concrete Association of India.—Mount Road, Madras 2.
 India Cement Ltd.—Vanguard House, Second Line Beach, Madras 1.
 National Engineering Co. (Madras) Ltd.—379, Netaji Bose Road, Madras 1.
 Wilson & Co., Ltd.—North Railway Terminus Road, Royapuram, Madras.

CHAINS AND CHAIN DRIVES

Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
 Brady, W. H., & Co. Ltd.—154/155, Pophams, Broadway, Madras 1.
 Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
 Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
 McDowell & Co., Ltd.—Second Line Beach, Madras 1.
 Parry & Co., Ltd.—Dare House, First Line Beach, Madras 1.
 Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
 Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
 Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.

CHARTERED ACCOUNTANTS

B. Purushotham & Co.—2/19, Armenian Street, Madras 1.
 G. L. Narasimham & Co.—375, Netaji Subhas Chandra Bose Road, Madras 1.
 Kotadia & Co.—7, Luckmidoos Street, Madras 3.
 Lakshmi & Co.—363, Netaji Subhas Chandra Bose Road, Madras 1.
 M. K. Dandekar & Co.—Moor Street, Madras 1.
 Sastri & Shah.—15, Armenian Street, Madras 1.

CHEMICAL DEALERS

Al. Sp. Pl. Subramanyam Chettiar.—Govindappa Nalk Street, Madras 1.
 Ameer Trading Corporation Ltd.—Govindappa Nalk Street, Madras 1.
 Amritlal & Co., Ltd.—Linghi Chetty Street, Madras 1.
 Andline Dyes & Chemicals Co.—Govindappa Nalk Street, Madras 1.
 A. T. Meherwada.—Govindappa Nalk Street, Madras 1.
 Capco Private Ltd.—16, Armenian Street, Madras 1.
 Chandra Veerabhadrapa & Bros.—Govindappa Nalk Street, Madras 1.
 C. J. Seth.—Bunder Street, Madras 1.
 Dadajee Dhackjee & Co., Ltd.—Govindappa Nalk Street, Madras 1.
 Ganga Dyes & Chemicals.—Nyniappa Nalk Street, Madras 3.
 G. Umakant & Co.—Govindappa Nalk Street, Madras 1.
 Indira Chemical Agency.—Govindappa Nalk Street, Madras 1.
 International Trading Corp.—Mint Street, Madras 3.
 Khatau Vallabhdas & Co.—Govindappa Nalk Street, Madras 1.
 Lakshmi Colour Co.—Govindappa Nalk Street, Madras 1.
 Lakshmi Dwarakadas & Co.—Govindappa Nalk Street, Madras 1.
 Madras Colour Co.—Govindappa Nalk Street, Madras 1.
 M. Mohanlal & Co.—Mint Street, Madras 3.
 Nanavati & Co., Ltd.—Govindappa Nalk Street, Madras 1.
 Narandas Pramanandas.—Govindappa Nalk Street, Madras 1.
 N. K. Ramamoorthy.—Devaraju Mudali Street, Madras 1.
 N. V. Kuppuswamy Iyer.—Pillar Coll Street, Madras 3.
 P. K. Jappe & Co.—Nyniappa Nalk Street, Madras 3.
 P. S. Narayanan.—Govindappa Nalk Street, Madras 1.
 Ramnath & Co.—Kondli Chetty Street, Madras 1.
 South India Dyes Co.—Govindappa Nalk Street, Madras 1.
 Union Colour Co.—Thiruvottiyoor High Road, Madras.

CHEMICALS (IMPORTERS)

Best & Co., Ltd.—First Line Beach, Madras 1.
 East Asiatic Co. (India) Ltd.—Mercantile Bank Building, First Line Beach, Madras 1.
 Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
 Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras 1.
 H. Chandanmal & Co.—97, Nyniappa Nalk Street, Madras 3.
 Imperial Chemical Industries (India) Private Ltd.—Springhaven Road, The Harbour, Madras 1.
 May & Baker (India) Ltd.—Purushotham Building, 193, Mount Road, Madras 2.
 McDowell & Co., Ltd.—Second Line Beach, Madras 1.
 Parry & Co., Ltd.—Dare House, First Line Beach, Madras 1.
 Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
 Ranganadham, N.—25, Godown Street, Madras.
 Sanghavi & Co.—90, Nyniappa Nalk Street, Madras 3.
 Shaw Wallace & Co., Ltd.—8/9, Thambu Chetty Street, Madras 1.
 Spencer & Co., Ltd.—Mount Road, Madras 2.
 Voltas Ltd.—115/116, Armenian Street, Madras 1.
 Wilson & Co.—North Ry. Terminus Road, Royapuram, Madras.

CHEMICALS (MANUFACTURERS)

Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
 Imperial Chemical Industries (India) Ltd.—Bombay Mutual Building, Netaji Subhas Chandra Bose Road, Madras 1.
 Parry & Co., Ltd.—“Dare House”, First Line Beach, Madras 1.
 Spencer & Co., Ltd.—Mount Road, Madras 2.

CHILLIES MERCHANTS

Appah & Co.—8, Chinnathambi Mudali Street, Madras 1.
 Chengalraya Reddy & Co., V.—16, Chinnathambi Mudali Street, Madras 1.
 Daloooram Jayanarayan & Co.—25, Chinnathambi Mudali Street, Madras 1.
 G. Lakshminah & Co.—1/3, Chinnathambi Mudali Street, Madras 1.
 Gudur Sriramulu Chetty & Co.—12, Chinnathambi Mudali Street, Madras 1.
 Kottiah Chetty Sons & Co., C. P. V.—21, Chinnathambi Mudali Street, Madras 1.
 Managa Perumal Chetty & Co.—2/3, Chinnathambi Mudali Street, Madras 1.
 Narayana Chetty & Son, N.—5, Chinnathambi Mudali Street, Madras 1.
 Radhakrishnamurthy Sons & Co., P.—20, Chinnathambi Mudali Street, Madras 1.
 Raghavulu Chetty & Co.—22, Chinnathambi Mudali Street, Madras 1.
 Raghavulu Naidu & Co., T.—2/5, Chinnathambi Mudali Street, Madras 1.
 Rangannayakulu Chetty & Co., Y.—24, Chinnathambi Mudali Street, Madras 1.
 Sri Venkateswara & Co.—6, Chinnathambi Mudali Street, Madras 1.
 Veeraswami Chetty & Co., S. N.—33, Chinnathambi Mudali Street, Madras 1.
 Venkatarathnam Chetty & Co., P.—23, Chinnathambi Mudali Street, Madras 1.
 Venkata Subba Rao & Co., P.—4, Chinnathambi Mudali Street, Madras 1.

CINEMAS

Ashok Talkies.—Madras 7.
 Brighton Talkies.—Madras 13.
 Casino Theatre.—Madras 2.
 Chitra Talkies.—Madras.
 Crown Talkies.—Mint Street, Madras 2.
 Eros Theatre.—125-126, Lattices Bridge Road, Madras 20.
 Midland Theatre, Ltd.—General Patters Road, Madras 2.
 New Elphinstone.—Madras 2.
 New Globe Theatre.—Madras 2.
 Paragon Talkies.—Wallajah Road, Madras 2.
 Plaza Theatre.—14, Mount Road, Madras 2.
 Sayani Talkies.—Konnur Road, Madras 23.
 Select Talkies.—31, Thatha Muthiappan Street, Madras 8.
 Sri Krishna Talkies.—opp. Mint Bus Stand, Madras 21.
 Sun Theatre.—Madras 6.

CLEARING AND FORWARDING AGENTS

Pereira, F. X., & Sons.—2/21, First Line Beach, Madras 1.
 Sherif Travel and Cargo Service Ltd.—34, Second Line Beach, Madras 1.

CORK AND CORK PRODUCTS

Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
 McDowell & Co., Ltd.—Second Line Beach, Madras 1.
 Roberts McLean & Co., Ltd.—200, Mount Road, Madras 2.
 Spencer & Co., Ltd.—Mount Road, Madras 2.

CRANES

Amalgamations Private Ltd.—202, Mount Road, Madras 1.
 Bombay Co., Ltd.—160, Broadway, Madras 1.
 Brady, W. H., & Co., Ltd.—154/156, Pophams, Broadway, Madras 1.
 Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
 Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
 Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
 Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
 Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
 Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
 Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
 South India Export Co., Ltd.—5, McLean Street, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

CROCKERY MERCHANTS

Abdul Rahim & Bros.—13, Evening Bazar Road, Madras 3.
 A. K. Shah & Co.—28/29, Evening Bazar, Madras 3.
 Aluminium Glassware Emporium.—239, China Bazar Road, Madras.
 E. M. Abdulla & Co.—315/318, Netaji S. C. Bose Road, Madras 1.
 Indian Glassware Depot.—29, Stringer Street, Madras 1.
 Jamal's Corner Shop.—Evening Bazar Road, Madras 3.
 J. M. Jamal & Bros.—239, Netaji S. C. Bose Road, Madras 1.
 Kassam Chacku & Co.—238, China Bazar Road, Madras 3.
 K. S. Shivji & Co.—178/179, Broadway, Madras 1.
 Madras Glassware House.—Evening Bazar, Madras 3.

Mohmed Hussain & Bros.—Rattan Bazar, Madras 3.
 Noor Mohamed & Co.—238, China Bazar Road, Madras 3.
 P. Ali Mohamed Zinna & Co.—67/68, Rattan Bazar, Madras 3.
 Peer Mohamed & Co.—3/237, Netaji S. C. Bose Road, Madras 1.
 Poppat Jamal Sons.—Broadway, Madras 1.
 S. Ibrahim & Co.—10, Jones Street, Madras.

CROWN CORKS

Imperial Chemical Industries (India) Private Ltd.—Springhaven Road, The Harbour, Madras 1.
 Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
 McDowell & Co. Ltd.—Second Line Beach, Madras 1.
 Metal Box Co. of India Ltd.—Elaya Mudali Street, Tondiarpet, Madras 21.

CRUCIBLES MANUFACTURERS

Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
 Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras 1.
 Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
 Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

CUTLERY MERCHANTS

Abdulla & Co., E. M.—315/318, Netaji Subhash Chandra Bose Road, Madras 1.
 Abdul Rahim & Bros.—13, Evening Bazar Road, Madras 3.
 A. K. Shah & Co.—28/29, Evening Bazar, Madras 3.
 Aluminium Glassware Emporium.—239, China Bazar, Madras 3.
 Indian Glassware Depot.—29, Stringer Street, Madras 1.
 Jamal's Corner Shop.—Evening Bazar Road, Madras 3.
 J. M. Jamal & Bros.—239, Netaji Bose Road, Madras 1.
 Kassam Chacku & Co.—238, China Bazar, Madras 3.
 K. Bajaram & Co.—4, Bunder Street, Madras.
 K. S. Shivji & Co.—178/179, Broadway, Madras 1.
 Madras Glassware House.—Evening Bazar, Madras 3.
 Mohmed Hussain & Bros.—Rattan Bazar, Madras 3.
 Noor Mohamed & Co.—238, China Bazar, Madras 3.
 P. Ali Mohamed Zinna & Co.—67/68, Rattan Bazar, Madras 3.
 Peer Mohamed & Co.—3/237, Netaji Bose Road, Madras 3.
 Poppat Jamal & Sons.—Broadway, Madras 1. Phone: 4081.
 S. Ibrahim & Co.—10, Jones Street, Madras.

CYCLES AND CYCLE ACCESSORIES

Best Cycle Importing Co.—Broadway, Madras 1.
 Bombay Cycle Importing Co.—7, Broadway, Madras 1.
 Britannia Cycle Co.—14/15, Moore Market, Madras 3.
 British Cycle Trading Co.—10, Broadway, Madras 1.
 Burma Cycle Company.—Broadway, Madras 1.
 Central Cycle & Motor Co.—Broadway, Madras 1.
 Davey & Co., B. M.—16/C, Broadway, Madras 1.
 English Cycle & Motor Importing Co., Ltd.—2, 4/9, Broadway, Madras 1.
 K. S. Shivji & Co.—178/179, Broadway, Madras 1.
 Madras Cycle & Motor Co.—10, Sunderdas Street, Madras.
 Mehta Cycle Co.—Broadway, Madras 1.
 Metropolitan Cycle House.—24, Broadway, Madras 1.
 Minerva Cycle Importing Co.—166, Broadway, Madras 1.
 National Cycle Importing Co.—40, Broadway, Madras 1.
 Oriental Cycle Importing Co.—Broadway, Madras 1.
 Poppat Jamal & Sons.—Broadway, Madras 1.
 Popular Cycle Importing Co.—8/9, Broadway, Madras 1.
 Raja Cycle Company.—6/8, Broadway, Madras 1.
 Rapid Industries.—Gerugampakkam, Kovve P. O., Chingleput Dist.
 Royal Cycle & Motor Co.—13/14, Broadway, Madras 1.
 Sarawat Cycle Importing Co.—15, Broadway, Madras 1.
 Saurashtra Cycle Importing Co.—Broadway, Madras 1.
 South India Cycle Importing Co.—7/B, Broadway, Madras 1.
 S. V. R. Cycles Mart.—Broadway, Madras 1.
 Wheel & Rim Co. of India Private Ltd.—Sembiam, Madras 11.

DAIRY MACHINERY IMPORTERS

Best & Co., Ltd.—First Line Beach, Madras 1.
 Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
 Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.
 Volras Ltd.—115/116, Armenian Street, Madras 1.

DIAMONDS, PRECIOUS STONES AND PEARL MERCHANTS

ANIL ART DIAMOND CO.—100, Mint Street, Madras 1.
 Bapalai & Company.—Rattan Bazar, Park Town, Madras 3.
 Bhanji Bhagwandas.—94, Mint Street, Madras 1.
 Burma Moguk Diamond Co.—238, Nalika Street, Madras 1.
 Burma-Rangoon Diamond Mfg.—96, Mint Street, Madras 1.

Chimanlal Kothari & Co.—191, Netaji Bose Road, Madras 1.
 Chottabhai & Co.—191, Netaji Bose Road, Madras 1.
 Davey Chimanlal & Co.—195, Netaji Bose Road, Madras 1.
DEVARAJ MANICKCHAND—2/30, Veerappan Street, Madras.
 D. Hanaraj Khimsara.—10, Abboy Naidu Street, Kondthope, Madras.
 Dinuprakash Kantilal.—400, Mint Street, Madras 1.
 G. Namburumal Chetty S. R. Chakrapani Naidu & Co.—40, Netaji Bose Road, Madras 1.
 Gordhandass & Company.—2, Genguraman Street, Madras.
 Hanuman Nihal & Bros.—97, Mint Street, Madras 1.
 Harikant & Co.—25, Tholasingam Street, Madras.
 Harikishan Joshi.—428, Mint Street, Madras 1.
 Hind Diamond Co.—97, Mint Street, Madras 1.
 Imperial Chemical Diamond Co.—425 and 94, Mint Street, Madras 1.
 Indian Chemical Diamond Works.—3, Veerappan Street, Madras.
 Indo-Burma Jewellers.—187, Netaji Bose Road, Madras 1.
 Ishwarlal Kalidas.—128, Nynappa Naik Street, Madras.
 Jamnadas & Co.—101, Mint Street, Madras 1.
 Jayantilal B. Parekh.—434, Mint Street, Madras 1.
 Jayantilal Mangalji & Co.—175, Netaji Bose Road, Madras 1.
 Jayavil Chemical Diamond Co.—188, Netaji Bose Road, Madras 1.
 Kantilal & Co.—160, Netaji Bose Road, Madras 1.
 Kapur Chand & Co.—98, Mint Street, Madras 1.
 Kesavalal & Co.—173, Netaji Bose Road, Madras 1.
 K. G. Kothari.—98, Mint Street, Madras 1.
 Khengar Veerumase.—170, Netaji Bose Road, Madras 1.
 Kota Munuswamy Chetty & Sons.—223, Netaji Bose Road, Madras 1.
 K. R. Purushothamdas.—72, Mint Street, Madras 1.
 Manilal & Sons.—172, Netaji Bose Road, Madras 1.
 Meghraj Joshi.—428, Mint Street, Madras 1.
 Mehta Bros.—429, Mint Street, Madras 1.
 Mehta Gems Co.—89-G, Mint Street, Madras 3.
 Nama Jayarama Chetty & Sons.—29, Netaji Bose Road, Madras 1.
 Nama Venkatarayalu Kanniah Chetty.—29, Netaji Bose Road, Madras 1.
 Natwarlal Vadilal.—6, Govindappa Naik Street, Madras 1.
 Nemichand Jhabek.—1/438, Mint Street, Madras 1.
 Paramal Bhogilal.—3, Tholasingam Street, Madras.
 Premchand Lodha & Co.—105, Mint Street, Madras 1.
 President Diamond Co.—99, Mint Street, Madras 1.
 Raghunandan Prasad & Co.—433, Mint Street, Madras 1.
 Raghuvver Sahai & Co.—428, Mint Street, Madras 1.
 Rangoon Diamond Syndicate.—76, Netaji Bose Road, Madras 1.
 Ratilal Ishwarlal Mehta.—77, Netaji Bose Road, Madras 1.
 Ratilal Vadilal.—113, Mint Street, Madras 1.
 Roshin Chemical Diamond Co.—434, Mint Street, Madras 1.
 Sagarmal Samdaria Bros.—17, Tholasingam Street, Madras.
 Shantilal Bros.—163, Perumalmudaly Street, Madras 1.
 Shaw Brothers.—21, Netaji Bose Road, Madras 1.
 Sidharaj Bros.—93, Perumalmudaly Street, Madras 1.
 Sohanlal Mehta.—42, Generalmuthlahmundaly Street, Madras.
 Sun Chemical Diamond Co.—437, Mint Street, Madras 1.
SURAJMAL'S—Jewellers, Diamond Merchants, Gold and Silversmiths, Watch and Clock Dealers, Importers and Exporters of Diamonds, Precious and Semi-precious Stones. 313, Esplanade, Madras. Grams: "MORALITY." Phone: 2236.
 Surani Bros. Co.—3, Veerappan Street, Madras.
 S. Seetharam Jaiapur.—93, Mint Street, Madras 1.
 T. Baghrhand Gallada.—4, Nagawara Road, T. Nagar, Madras.
 T. Nannumu Shanker Tawker.—192, Netaji Bose Road, Madras 1.
 T. R. Joshi & Sons.—38, Ekambareswarar Agraharam, Madras.
 U. Manilal & Co.—90, Netaji Bose Road, Madras 1.
 Vattam Seshiah Chetty & Sons.—22, Netaji Bose Road, Madras 1.
 Vummidi Ramlah Chetty Guruswamy Chetty & Co.—24/25, Netaji Bose Road, Madras 1.

DISINFECTANTS AND INSECTICIDES MFRS.

Bombay Co., Ltd.—169, Broadway, Madras 1.
 Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
 Imperial Chemical Industries (India) Private Ltd.—Springhaven Road, The Harbour, Madras 1.
 Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
 Spencer & Co., Ltd.—Mount Road, Madras 2.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

DISTEMPERS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
 Best & Co., Ltd.—First Line Beach, Madras 1.
 Bombay Co., Ltd.—169, Broadway, Madras 1.
 Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
 McDowell & Co., Ltd.—Second Line Beach, Madras 1.
 Parry & Co., Ltd.—Dare House, First Line Beach, Madras 1.
 Taylor, T. A. & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
 Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
 William Jacks & Co., Ltd.—National Bank Building, First Line Beach, Madras 1.
 Wilson & Co.—North Rly. Terminus Road, Royapuram, Madras.

DRAWING MATERIAL DEALERS

Charles Morgan & Co., Ltd.—314/315, Linghi Chetty Street, Madras 1.
 Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras.
 P. Orr & Sons Ltd.—Mount Road, Madras 2.

DRILLS AND DRILLING EQUIPMENT

Amalgamations Private Ltd.—202, Mount Road, Madras 1.
 Best & Co., Ltd.—First Line Beach, Madras 1.
 Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Line Beach Road, Madras 1.
 Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
 Guest, Keen Williams Ltd.—202, Mount Road, Madras 2.
 Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
 Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.
 Parry & Co., Ltd.—Dare House, First Line Beach, Madras.
 Rallis India Ltd.—Rallis House, 320, Linghi Chetty Street, Madras 1.
 South India Export Co., Ltd.—5, Mclean Street, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

DYESTUFFS IMPORTERS, DEALERS, ETC.

Ameer Trading Corporation Ltd.—Govindappa Naik Street, Madras 1.
 Amritlal & Co., Ltd.—Linghi Chetty Street, Madras 1.
 Aniline Dyes & Chemical Co.—Govindappa Naik Street, Madras 1.
 A. T. Meherwade—Govindappa Naik Street, Madras 1.
 Capens Ltd.—Singanna Naiken Street, Madras 1.
 Chandra Veerabhadrapa & Bros.—Govindappa Naik Street, Madras 1.
 Dadajee Dharkjee & Co., Ltd.—Govindappa Naik Street, Madras 1.
 Ganga Dyes & Chemicals—Nynappa Naik Street, Madras 3.
 G. Umakant & Co.—Govindappa Naik Street, Madras 1.
 Indira Chemical Agency—Govindappa Naik Street, Madras 1.
 International Trading Corp.—Mint Street, Madras 3.
 Khataul Vallabhdas & Co.—Govindappa Naik Street, Madras 1.
 Lakshmi Colour Co.—Govindappa Naik Street, Madras 1.
 Lakshmidas Dwarkadas & Co.—Govindappa Naik Street, Madras 1.
 Madras Colour Co.—Govindappa Naik Street, Madras 1.
 M. Mohanlal & Co.—Mint Street, Madras 3.
 Nanavati & Co., Ltd.—Govindappa Naik Street, Madras 1.
 P. K. Jappe & Co.—Nynappa Naik Street, Madras 3.
 P. S. Narayanan—Govindappa Naik Street, Madras 1.
 Ramnath & Co.—Kondli Chetty Street, Madras 1.
 South India Dyes Co.—Govindappa Naik Street, Madras 1.
 Union Colour Co.—Thiruvottiyoor High Road, Madras.

EARTH MOVING & MATERIAL HANDLING EQUIPMENT

Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 1.
 Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.
 Voltas Ltd.—115/116, Armenian Street, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

ELECTRIC CABLES AND WIRES (MANUFACTURE)

British Insulated Callender's Cables Ltd.—37, Second Line Beach, Madras 1.
 General Electric Co. of (India) Ltd.—Magnet House, Mount Road, Madras 1.
 Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.

ELECTRICAL GOODS (ALTERNATORS, MOTORS, GENERATORS AND SETS)

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
 Andhra Electric Co.—Andhra House, 115/A, China Bazar, Madras 1.
 Associated Electrical Industries (India) Ltd.—11/12, First Line Beach, Madras 1.
 Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
EAST ASIATIC COMPANY (INDIA) PRIVATE LTD., THE—Machine & Engineering Dept., Bharat Bldg., Mount Road, Madras 2; Phone: 86621/2; Grams: "MANDARIN"; P.O. Box No. 146.
 Esau Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
 General Electric Co. of India Private Ltd.—Magnet House, Mount Road, Madras 2.
 Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
 Industrial Stores Company, The.—2, Errabalu Chetty Street, Madras 1.
 Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
 Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.
 National Engineering Co. (Madras) Ltd., The.—379, Netaji Subhas Chandra Bose Road, Madras 1.

Parry & Co., Ltd.—Dare House, First Line Beach, Madras 1.
 P. Natesan (Industries) Ltd.—191, Triplicane High Road, Madras 5.
 Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
 Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
 South India Export Co., Ltd.—5, Mclean Street, Madras 1.
 Voltas Ltd.—115/116, Armenian Street, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

ELECTRICAL GOODS AND APPLIANCES

Andhra Electric Co.—Andhra House, 115A, China Bazar, Madras.
 Chicago Telephone & Radio Co., Ltd.—196, Mount Road, Madras 2.
 City Electric Stores—133/139, Devaraja Mudali Street, Madras 3.
 Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
 General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 1.
 Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
 Himco (India) Private Ltd.—Dinroze Estate, 1/17, Mount Road, Madras 6.
 Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
 Kumar Brothers—61, Netaji Subhas Chandra Bose Road, Madras 1.
 Larsen & Toubro Ltd.—4/5 Club House Road, Mount Road, Madras 1.
 Madras Electricals Ltd.—55/57, Rattan Bazar, Madras 3.
 Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.
PATEL ELECTRIC COMPANY PRIVATE LTD.—18, Govindappa Naik Street, Madras 1. Phone: 3482. Grams: "NASH-VIN." Importers, Wholesalers, Distributors and Government Contractors of Electric Wiring Materials, Motors, H.T. Transmission Line Materials, Sub-Station Equipment, etc., Engineers and Contractors Office at Bombay.
 Ramdas Motor & Electrical Co.—194, Mount Road, Madras 2.
 Voltas Ltd.—115/116, Armenian Street, Madras 1.
 Westrex Company India (formerly Western Electric Co. of India).—35, Mount Road, Madras 2.
 William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

ENGINEERING STORES

Amalgamations Private Ltd.—202, Mount Road, Madras.
 Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
 Grahams Trading Co (India) Ltd.—311, Linghi Chetty Street, Madras 1.
 Hassamally, A. M., & Co.—34, Linghi Chetty Street, Madras 1. Phone: 2352. Grams: "BRILLIANT."
 Heatly & Gresham Ltd.—United India Bldg., Esplanade, Madras 1.
 Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
 Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.
 Roberts Mclean & Co., Ltd.—200, Mount Road, Madras 2.
 South India Export Co., Ltd.—5, Mclean Street, Madras 1.
 Voltas Ltd.—115/116, Armenian Street, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

ENGINEERS AND CONTRACTORS

EASUN ENGINEERING COMPANY LIMITED.—5-7, Second Line Beach, Madras 1. Phone: 3948 (3 Lines), also at London, Calcutta & New Delhi; Electrical & Mechanical Engineers & Contractors.
 Gannon Dunkerley & Co. Ltd.—Catholic Centre, Armenian Street, Madras.
 South India Corporation (Madras) Ltd.—2, Armenian Street, Madras 1.

ENGINEERING WORKS

Amalgamations Private Ltd.—202, Mount Road, Madras 1.
 Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
 Ganesa Engineering Works—Sri Mannarawami Koll, Mount Road, Madras 2.
 Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 1.
 Jayams Engineering Works, Ltd.—120, Armenian Street, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

ENGINEERS—ELECTRICAL AND MECHANICAL

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
 Associated Electrical Industries (India) Ltd.—11/12, First Line Beach, Madras 1.
 Associated Electricals Private Ltd.—12-A, Linghi Chetty Street, Madras 1.
 Easun Engineering Co. Ltd.—5/7, Second Line Beach, Madras 1.
 F. & C. Osler (India) Ltd.—Post Box No. 1276 1st Line Beach, Madras.
 Fomra Brothers—"Fomra House", 392, Mint Street, Madras.
 General Electric Co. of India Private Ltd.—Magnet House, Mount Road, Madras 2.
 Guest, Keen, Williams, Ltd.—200, Mount Road, Madras 2.

India Electric Works, Ltd.—Chatnath Buildings, 19/29, Mount Road, Madras 2.
 Jayams Engineering Co.—Errabalu Street, Madras 1.
 Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
K. R. KOTHANDARAMAN & CO., (PRIVATE) LTD.—Indian Chamber Bldg., Esplanade, P.O. Box 1888, Madras 1; Phone: 3684; Grams: "KORAMAN". Agents in India for Hochthal Draht Und Kabel Werke, Hannover, Germany; Insulated Wires & Cables; Deminittwerke, GmbH, Hoppesche, Germany—Power Transformers.
 Kumar Brothers—61, China Bazar, Madras 1.
 Lucas Indian Service, Ltd.—10, Patalu Road, Madras 2.
 Madras Electricals Ltd.—55/57 Rattan Bazar, Madras 3.
 Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.
 R.M. S & Co Private Ltd.—16, Broadway, Madras 1. Phone: 4080.
MODI & MODI.—11, Linghi Chetty Street, P. B. No. 289, Madras 1. Phone: 3094. Grams: "SPEED". Electrical Merchants and Engineers. Branches: Madurai & Vijayawada.
 Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
SEYENNEE & CO.—55, Anderson St., Madras 1; Phone: 4198; Grams: "SEYENNEE"; Electrical Engineers, Direct Importers and Suppliers to Govt. and Railways; Branches at Kingsway, Secunderabad (Dn.) and 10 84, Park Road Vijayawada 1.
 Shree Nursingahay Mudungopal Electric Co. 419, Mint Street, Madras 1.
 South India Corporation (Madras) Ltd.—2, Armenian Street, Madras 1. Phone: 2724. Grams: "GOODWILL".
 South India Export Co., Ltd.—5, Mclean Street, Madras 1.
 Voltas Ltd.—115/116, Armenian Street, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

ENGINEERS, HYDRAULIC

Marshall Sons & Co (India) Ltd. Marshall Bldg., Second Line Beach, Madras.
 South India Export Co., Ltd.—5, Mclean Street, Madras 1.
 Voltas Ltd.—115/116, Armenian Street, Madras 1.

ENGINES (DIESEL AND OIL)

Amalgamations Private Ltd. 202, Mount Road, Madras 2.
 Best & Co., Ltd. First Line Beach Madras 1.
 Bharat Motors.—35, Mount Road, Madras 2. Phone: 85501. Grams: "BHARATCARB."
 Binny & Co., Ltd. 7, Armenian Street, Madras 1.
 Bombay Co., Ltd. 169, Broadway, Madras 1.
 Brady, W. H. & Co., Ltd. 154/155, Pothams, Broadway, Madras 1.
EAST ASIATIC COMPANY (INDIA) PRIVATE LTD., THE.—Machine & Engineering Dept., Bharat Bldg., Mount Road, Madras 2; Phone: 86021 2; Grams: "MANDARIN"; P.O. Box No. 146.
 Easun Engineering Co., Ltd. 5/7, Second Line Beach, Madras 1.
 Gordon and Woodroffe & Co. (Madras) Ltd. 1/21, North Beach Road, Madras 1.
 Greaves Cotton & Co., Ltd. 19, Second Line Beach, Madras 1.
 Guest, Keen, Williams, Ltd. 202, Mount Road, Madras 2.
 Hindustan Pistons Ltd.—Madras 2.
 Larsen & Toubro Ltd. 4/5, Club House Road, Mount Road, Madras 2.
 Marshall Sons & Co. (India) Ltd. Marshall Bldg., Second Line Beach, Madras 1.
 National Engineering Co. (Madras) Ltd., The.—379, Netaji Subhas Chandra Road, Madras 1.
 Parry & Co., Ltd. "Dare House", First Line Beach, Madras 1.
 Rallis India Ltd. Ralli House, 320, Linghi Chetty Street, Madras 1.
 South India Export Co., Ltd. 5, Mclean Street, Madras 1.
 Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
 Voltas Ltd.—115/116, Armenian Street, Madras 1.

ESSENTIAL OILS

Amalgamations Private Ltd.—202, Mount Road, Madras 1.
 East Asiatic Co. (India) Ltd.—First Line Beach, Madras 1.
 McDowell & Co., Ltd.—Second Line Beach, Madras 1.
 Spencer & Co., Ltd.—Mount Road, Madras.
 Voltas Ltd.—115/116, Armenian Street, Madras 1.
 Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

FERTILISERS (IMPORTS)

Imperial Chemical Industries (India) Private Ltd.—Springhaven Road, "The Harbour", Madras 1.
 Louis Dreyfus & Co., Ltd.—99, Armenian Street, Madras 1.
 Parry & Co., Ltd.—"Dare House", First Line Beach, Madras 1.
 Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
 Ranganathan N.—25, Godown Street, Madras 3.
 Shaw Wallace & Co., Ltd.—8/9, Thambu Chetty Street, Madras 1.

FERTILISERS (MFRS.)

Imperial Chemical Industries (India) Private Ltd.—Springhaven Road, "The Harbour", Madras 1.
 Mysore Fertiliser Co.—31/A, North Beach Road, Madras 1.
 Parry & Co., Ltd.—"Dare House", First Line Beach, Madras 1.
 Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
 Scientific Fertiliser Co., Ltd.—53, Second Line Beach, Madras 1.
 Shaw Wallace & Co., Ltd.—8/9, Thambu Chetty Street, Madras 1.

FILTERS AND FILTRATION PLANT

Binny & Co., Ltd.—7, Armenian Street, Madras 1.
 Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
 Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
 Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.

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Also Suppliers of Plant Protection Products and All Estate Requisites

Roberts Mclean & Co., Ltd.—200, Mount Road, Madras 2.
 South India Export Co., Ltd.—5, Mclean Street, Madras.
 William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

FIRE EXTINGUISHERS AND FIRE FIGHTING EQUIPMENT

Best & Co., Ltd.—First Line Beach, Madras 1.
 Binny & Co., Ltd.—7, Armenian Street, Madras 1.
 Parry & Co., Ltd.—"Dare House", First Line Beach, Madras 1.
 Roberts Mclean & Co., Ltd.—200, Mount Road, Madras 2.
 South India Export Co., Ltd.—5, Mclean Street, Madras.
 William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

FOOD PRODUCTS AND PROVISIONS (IMPORT)

Beardsell, W. A., & Co., Ltd.—Second Line Beach, Madras 1.
 East Asiatic Co. (India) Ltd.—Mercantile Bank Bldg., First Line Beach, Madras 1.
 Lipton Ltd.—129, Moore Street, Madras 1.
 McDowell & Co., Ltd.—Second Line Beach, Madras 1.
 Spencer & Co., Ltd.—Mount Road, Madras 2.

FOUNTAIN PENS IMPORTERS, MANUFACTURERS AND DEALERS

THE PILOT PEN CO. (INDIA) PRIVATE LTD.—Catholics Centre, Armenian Street, Madras 1. Manufacturers and Exporters of High Grade PILOT Fountain Pens and Ink. Branches at 8-B, Jindal Trust Bldg., Rast Ali Road, New Delhi; 2, Chowringhee Road, Calcutta 13; 343, Abdul Rahman Street, Bombay 3.

FURNACES

Associated Electrical Industries (India) Ltd.—11/12, First Line Beach, Madras 1.
 Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
 Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
 Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.
 South India Export Co., Ltd.—5, Mclean Street, Madras 1.
 Voltas Ltd.—115/116, Armenian Street, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

FURNITURE DEALERS & MANUFACTURERS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
 Best & Co., Ltd.—First Line Beach, Madras 1.
 C. Narain Pillay & Co.—316, Pycrofts Road, Royapettah, Madras.
 Curzon & Co.—97, Wallajah Road, Madras 2.
 Favourita & Co.—96, Wallajah Road, Mount Road, Madras 2.
 Karunakararam—65, Monegarhoultry Road, Madras 21.
 K. V. Venkatesam Naidu & Co.—138, Mount Road, Madras 6.
 N. Gopaul Pillay & Co.—3/30A, Mount Road, Madras 2.
 Spencer & Co., Ltd.—Mount Road, Madras 2.
 S. P. Shunmugam & Sons—31, Mount Road, Madras 2.
 Wrenn Bennett & Co. (India) Ltd.—Mount Road, Madras 2.
 Phone : 86916.

GARAGE EQUIPMENT

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
 Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
 Jayeems Engineering Co.—26, Erraballu Chetty Street, Madras 1.
 Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
 Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.
 Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
 Taylor T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
 Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.

GENERAL MERCHANTS & COMMISSION AGENTS

A. V. R. & Company.—Winthrop, Vijayawada 1 (Krishna Dist.).
 Alapati Shadri Rao & Co.—P. B. No. 88, Guntur.
 Appanna Subramanyam & Sons.—Gunduvuri Street, Rajahmundry (E.G. Dist.).
 Bandaru Yerram Chetty & Sons.—Anakapalle (Visakhapatnam Dist.).
 Chittoori Appalaroyu.—P.B. No. 71, Main Road (E.G. Dist.).
 Chokkanathan Chettiar, S.—Shevapet, Salem 2.
 Das, R. K.—Dabagarden, Vizianagram, (Distt. Visakhapatnam).
 De Luxe Agencies.—29, Parsi Shop Street, Kothapet, Guntur 1.
 Gopalakrishna Rice & Oil Mills.—Tadepalligudem, (W. G. Dist.).
 Gulamali Abdul Hussain & Co.—28/29, Linghi Chetty Street, Madras 1.
 Immidiappeti Ramakrishnaiah & Sons.—Anakapalle, (Distt. Visakhapatnam).
 Isaa Venkataraniyaya Chetty & Co.—48, Kandappa Chetty Street, Madras 1.
 Itta Venkataraniyaya Setty.—53, Thathamuthiappan Street, Madras 1.
 Jonnavithula Setheraraman-Janeyalu.—P.B. 58, Vijayawada 1 (Krishna Dist.).
 K. Chandramouli Setty P. Subhajah & Co.—Nellore.
 Kalyaasundara Nadar, A. D.—Great Cotton Road, Tuticorin.
 Kanuri Venkata Ratnam.—79, Second Main Road, Madras 20.
 Komatala Venkatawami Naidu.—Anakapalle (Visakhapatnam Dist.).
 Kothuri Subramanyam Chetty.—9, Andappa Naidu Street, Madras 1.
 Krishna Fancy Store.—94, Narayana Mudali Street, Madras 1.
 Krishna Industrial Co-operation Ltd.—65, Peters Road, Madras 6.
 Krishnaswamy Chettiar, K. T.—Arunachala Asari Street, Salem 1.
 M. Venkoba Rao.—196, Linghi Chetty Street, Madras 1.
 Mamidi Srinivasulu Chetty, 133, Andappa Naidu Street, Madras 1.
 Manohara Cottage Industries.—P.O. Kumarapalayam, via Bhavani.
 Mathalai Navdar & Co., T. M. M.—South Raja Street, Tuticorin.
 Moorthy Chettiar, K. M.—Shevapet, Salem.
 Moosa Mohamed & Sons.—Anakapalle (Visakhapatnam Dist.).
 Murugappa Chettiar, K. P.—P.O. Kallavi, Dasampatti R.S., (Distt. Salem).
 Murrott & Co., (India) Private Ltd.—23, Stringer Street, Madras 1.
 Murthy & Co., P. S. N.—Rajaji Street, Kakkada (E. G. Dist.).
 Muthyala Subbrangiah Chetty.—113, Andappa Naidu Street, Madras 1.

Nammalwar Chetty & Sons, A.—117/25, Acharappan Street, Madras 1.

Nanalah Chettiar & Bros., B. N.—P.O. Palakodu (Salem Distt.).

Natham & Co., P. E.—2/235, N. S. C. Bose Road, Madras 1.

Raichooli Veeranna Sons.—Adoni (Kurnool Distt.).

Rajagopal Chetty & Sons, K.—Kalla Kurichi (S. Arcot Distt.).

Ragu Chetty & Bros., T. S.—159, Anna Pillai Street, Madras 1.

Ramiah Chetty & Co., R. V.—15, Andipappa Naick Street, Madras 1.

Ranganaya Kulu Chetty & Co., T.—24, Chinnathambi Mudali Street, Madras 1.

Reddy Adimurthy & Co.—Wharf Road, Kakinada (E. G. Distt.).

Sainathan & Co., S. P.—13/106, Islampet, Vijayawada 1 (Krishna Distt.).

Sanamana Rawanna & Co.—Pereira Street, Tuticorin.

Sarangapani Chettiar, A. K.—Main Road, Shevapet, Salem 2.

Shah Pravinbhai.—P.B. No. 218, Shevapet P.O., Salem 2.

Shah Mohamed Bowther & Co., K. P. V.—41, Linghi Chetty Street, Madras 1.

Sheth, C. J.—2, Bunder Street, Madras 1.

Soora Chandrasekar & Bros.—10, Broadway, Madras 1.

Southern Agencies.—7, Kowdi Chetty Street, Madras 1.

Subramaniam Chettiar, M.—P.O. Kallavi, Dasampatti R. S. (Distt. Salem).

Subbayaulu Chetty & Son, D.—145, Anna Pillai Street, Madras 1.

Tadavarchi Punniah & Bros.—Rajahmundry (E. G. Distt.).

Thiravijaratna Nadar, P. S. T. S.—South Raja Street, Tuticorin.

V. N. P. E. Aiyasami Nadar.—South Raja Street, Tuticorin.

Venkata Krishna Chetty & Co., G.—18, Chinnathambi Mudali Street, Madras 1.

Yadlapati Venkateswarlu & Co.—Stonehousepet, Nellore.

GLASS AND GLASSWARE MERCHANTS & IMPORTERS

Abdul Rahim & Bros.—13, Evening Bazar Road, Madras 3.

Abdulla & Co., (E. M.).—315/318, Netaji Subhas Chandra Bose Road, Madras 1.

A. K. Shah & Co.—28/29, Evening Bazar, Madras 3.

Aluminium Glassware Emporium—289, China Bazar, Madras 3.

Associated Electrical Industries (India) Ltd.—11/12, First Line Beach, Madras 1.

Bawa Glass Co.—52, Devaraja Mudali Street, Madras 3.

Best & Co., Ltd.—First Line Beach, Madras 1.

Bombay Co., Ltd.—109, Broadway, Madras 1.

C. Cunniah & Co.—248/249, Devaraja Mudali Street, Madras 3.

D. Ramalah Chetty & Sons.—230, Devaraja Mudali Street, Madras 3.

Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras 1.

Indian Glassware Depot.—29, Stringer Street, Madras 1.

Jamal's Corner Shop.—Evening Bazar Road, Madras 3.

J. M. Jamal & Bros.—289, Netaji Bose Road, Madras 3.

Kassam Chacku & Co.—288, China Bazar, Madras 3.

K. RAJARAM & CO.—8, Bunder Street, Madras 1.

K. R. S. Sreenivasiah & Sons.—169, Devaraja Mudali Street, Madras 3.

K. S. Shivji & Co.—178/179, Broadway, Madras 1.

Madras Glassware House.—Evening Bazar, Madras 3.

McDowell & Co., Ltd.—Second Line Beach, Madras 1.

Mohamed Hussain & Bros.—Rattan Bazar, Madras 3.

Noormahomed & Co.—5/288, N. S. C. Bose Road, Madras 1.

Noor Mohamed & Co.—288, China Bazar, Madras 3.

P. Ali Mohamed Zinna & Co.—67/68, Rattan Bazar, Madras 3.

Peer Mohamed & Co.—3/287, Netaji Bose Road, Madras 3.

Poppat Jamal & Sons.—Broadway, Madras 1.

P. N. Balu Chetty & Sons.—238/239, Devaraja Mudali Street, Madras 3.

P. Thiruvargish & Sons.—172, Devaraja Mudali Street, Madras 3.

Poppat Jamal & Sons.—Jamal Building, Madras 1.

R. Ethirajiah & Sons.—103, Devaraja Mudali Street, Madras 3.

R. Ramanujiah & Sons.—191, Devaraja Mudali Street, Madras 3.

S. C. Shah.—9, Bunder Street, Madras 1.

S. Ibrahim & Co.—10, Jones Street, Madras 3.

Spencer & Co., Ltd.—Mount Road, Madras 2.

Taylor, T. A. & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.

William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

GLUES AND ADHESIVES

Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.

Imperial Chemical Industries (India) Ltd.—Springhaven Road, The Harbour, Madras 1.

Roberts McLean & Co., Ltd.—200, Mount Road, Madras 2.

Shaw Wallace & Co., Ltd.—8/8, Thambu Chetty Street, Madras 1.

Spencer & Co., Ltd.—Mount Road, Madras 2.

GRAPHITE AND GRAPHITE PRODUCTS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.

Brady, W. H., & Co., Ltd.—154/155, Pophams, Broadway, Madras.

Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.

Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.

William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

GUNNY AND GUNNY BAGS MERCHANTS

Dawood Trading Co.—109, Andipappa Naick Street, Madras 1.

R. Kuppasamy Chetty & Son—17, Ramannan Road, Sowcarpet Post, G. T. Madras 1.

S. S. & M. Mayandi Nadar—110, Andipappa Naicken Street, Madras 1.

HANDLOOM MERCHANTS

Abdul Cader & Co., B. N.—11, Arumuga Achari Street, Madras 3.

Abdul Rahim, M. S.—23, Pallappan Street, Triplicane, Madras 3.

Abdul Razack Sahib & Co., K.—44, Angappa Naick Street, G. T. Madras 1.

Abumohamed Sahib & Bros., M. A. B.—70, Armenian Street, Madras 1.

Ahmed & Co., A. M.—255, Linghi Chetty Street, Madras 1.

Ahmed Ali & Co., J. H.—Pallivasal Moopan Street, Melapalayam, Tirunelveli Dist.

Ahmed Meeran & Sons, S. M.—383, Triplicane High Road, Madras 3.

Aiyasami Mudaliar, N. K.—7, South Mada Street, Mysapore, Madras 4.

Akbar & Co., S. M.—12, Surappa Mudali Street, Triplicane, Madras 3.

Amin & Co.—233, Angappa Naick Street, G. T. Madras 1.

Ana Cheena Knitting Works—Dhyanapuram Street, Tirupur.

Arthanari Mudaliar M. A.—Sivagiri Post, via Kodaie.

Balakrishnan & Co., K. S. P.—38, Armenian Street, Madras 1.

Basha & Co., S. M. H.—64, Moore Street, Madras 1.

Beardsell & Co. (Private) Ltd., W. A.—Second Line Beach, P. B. No. 7, Madras 1.

Calanther Labhai & Bros., M. N. M. A.—2/35, Surappa Mudali Street, Triplicane, Madras 3.

Ceylon Luggi House—54, Armenian Street, G. T. Madras 1.

Chandrodhayan & Co.—41, Sankara Naidu Street, Uddalore O. T.

City Palayakat Co.—25, Muthumari Chetty Street, Madras 1.

Gemini Luggi Co.—1/55, Ramaswamy Street, Madras 1.

Golden Palayakat Co.—26, Coral Merchant Street, Madras 1.

Good Luck Palayakat Co.—43, Linghi Chetty Street, Madras 1.

Haji M. A. Shahul Hamud & Sons—43, Pallappan Street, Madras 3.

Haji Syed Abdul Rahman Sahib & Co., S. M.—111, Moore Street, Madras 1.

Hope Prudhonne & Co. Ltd.—271, Angappa Naick Street, Madras 1.

Imperial Palayakat—8, Jayaram Chetty Street, Saidapet, Madras 15.

India Famous Pulicat Co.—29, Armenian Street, Madras 1.

Indo Lanka Traders—38, Linghi Chetty Street, Madras 1.

Janval Mohamed Abulacker & Bros—Pallivasal Moopan Street, Melapalayam, Tirunelveli Dist.

Kaithari Luggi Stores—287, Thambu Chetty Street, Madras 1.

Madras Handloom Co.—94, Thambu Chetty Street, Madras 1.

Madras Palayakat Co. Ltd.—31, Armenian Street, G. T. Madras 1.

Madras Pulicat Textiles Co.—1/36, Venkatamistry Street, Madras 1.

Malabar Handloom Textiles—24, Godown Street, Madras 1.

Malliah Chettiar & Sons, A. V.—5, Ramaswamy Street, Mannady, Madras 1.

Meera Sahib & Co., S. M.—244, Linghi Chetty Street, Madras 1.

Modern Palayakat Co.—12, New Street, Madras 1.

Mohamed Abulacker & Co.—95, Thambu Chetty Street, Madras 1.

Mohidun Pillai & Co., A. S. M.—402, Triplicane High Road, Madras 3.

Mohidun Sahib & Bros., S.—Kadayanallur, Tirunelveli Dist.

Moulana Co. (Private) Ltd.—52, Angappa Naick Street, Madras 1.

Oriental Luggi Co.—3, Arumuga Achari Street, Triplicane, Madras 3.

Overseas Trading Corporation—94, Linghi Chetty Street, G. T. Madras 1.

Parvathi Palayakat Co.—110, Coral Merchant Street, G. T. Madras 1.

S. Govinda Swamy Chettiar & Co.—52, Ayyappa Chetty Street, Madras 1.

S. B. S. Trading Co.—8, Ramanuja Iyer Street, Washermanpet, Madras 21.

S. M. Syed Ali & Co.—35, Angappa Naick Street, Madras 1.

Saraswathi & Co.—148, Coral Merchant Street, Madras 1.

Saraswathi Weaving Factory—3rd Street, Kumarapuri, Chennai-Madurai Post, Ingur (N. Riv.).

Sellamuthu Nivandhan & Co. Ltd.—224, Angappa Naick Street, Madras 1.

Shunmuga & Co.—21, Kuthadum Pillayar Koil Street, Saidamet, Madras 15.

Simmons & Co.—3, Somadundara Dever 6th Street, Ayanavdara Post, Madras 23.

Solai Ponnuranga Mudaliar—10/B, Chinna Street, Tiru. Gov. waram, Kunnathur Post.

Sri Dhanalakshmi Cloth Stores.—Kumaran Road, Tirupur (Madras State).

Sri Krishna Palayakat Co.—109, Ekamberanathar Sannadhi Street, Big Conjeevaram.

Sriram Palayakat Co.—39, Sankara Naidu Street, Uddalore O. T., N. A. District.

Superior Palayakat Co.—116, Ramaswamy Street, Madras 1.

Syed Ali & Co., S. M.—35, Angappa Naick Street, Madras 1.

Tirunagavaram Handloom Cloth Manufacturers' Association, 16, Chinna Street, Kunnathur Post, via Poonamallee.

Tirupur Mercantile Corporation.—2/2, Ganganagar, Tirupur.
Tirupur Yarn & Handloom Cloth Merchants' Association.—Tirupur Post (Dist. Coimbatore).
Wassilamull Assomall & Co.—7, Mohamed Abdullah Street, Chepauk, Madras 5.
Western Palayakat Co.—20/21, Ramasamy Street, G. T. Madras 1.
Yousuff Lungbi Co.—32, Jawahar Hussain Khan 1st Street, Royapettah, Madras 14.

HARDWARE DEALERS AND IRON MONGERS

A. Alimohamed & Co.—26, Linghi Chetty Street, Madras 1.
Abdool Hussain Jiwaes & Co.—21, Linghi Chetty Street, Madras 1.
Abdul Hussain Salebhoy & Co.—29, Periyanna Maistry Street, Madras 1.
A. K. Abdullahhoy & Co.—319, Linghi Chetty Street, Madras 1.
A. M. Goolamali & Co.—20, Erraballu Chetty Street, Madras 1.
Amin Chand Payarelal—27, Sembudoss Street, Madras 1.
A. Mohamed & Co.—313, Linghi Chetty Street, Madras 1.
A. T. Khorakiwalla & Co.—11, Vanlar Street, Madras 1.
Basheer Bros.—20, Venkatachalla Mudalal Street, Madras 8.
C. A. Gallakotwala & Co., Ltd.—18, Armenian Street, Madras 1.
Fakruddeen & Co.—307, Linghi Chetty Street, Madras 1.
G. D. Sekar & Co.—134, Mount Road, Madras 6.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Guest, Keen, Williams, Ltd.—200, Mount Road, Madras 1.
Gulamali Abdul Hussain & Co.—28, Linghi Chetty Street, Madras 1.
Hassanally, A. M., & Co.—34, Linghi Chetty Street, Madras 1.
H. A. Taiyebali & Co.—294, Linghi Chetty Street, Madras 1.
India Co. Ltd.—108, Armenian Street, Madras 1.
Khandaria Ltd.—40, Mint Street, Madras 1.
K. K. Venkatachallam & Sons.—5/141, Mount Road, Madras 6.
K. N. Chari & Co.—144, Nynceappa Naick Street, Madras 8.
K. Thiruvengadam Chetty & Co.—93, Rasappa Chetty Street, Madras 1.
Mayuranatham & Co.—271, Rasappa Chetty Street, Madras 3.
M. C. Sundara Rajan & Co.—290, Linghi Chetty Street, Madras 1.
M. C. S. Rajan & Co.—165, Nynceappa Naick Street, Madras 8.
M. M. Abbas & Bros.—7, Sembudoss Street, Madras 1.
Muslimal Santram & Co.—18, Sembudoss Street, Madras 1.
Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
S. Akbarali Haidarali & Co.—27, Linghi Chetty Street, Madras 1.
Saleh & Bros.—6, Sembudoss Street, Madras 1.
Spencer & Co.—Mount Road, Madras 2.
T. G. R., & Co.—8, A. V. Mudalal Street, Madras 1.
T. T. Yoganappa Chetty & Sons.—116, Nynceappa Naick Street, Madras 8.
V. Kanakiah Chetty & Co.—148, Nynceappa Naick Street, Madras 8.
V. M. Periyaswami Chetty & Co.—399, Mint Street, Madras 1.
V. Venugopal Pillai & Co.—204, Mint Street, Madras 1.

HEARING AIDS

Electronic Service Company.—17-35, Mount Road, Madras 2.
Westrex Company India (Formerly Western Electric Co. of India).—Khaleel Mansions, 85, Mount Road, Madras 2.

HIDES AND SKIN MERCHANTS

A. Abdul Shukoor & Co.—8, Sydenhams Road, Madras 8.
A. T. B. Mehtab Majid & Co.—4, Ramapillai Street, Madras 3.
C. Kalyanam & Co.—2, Muthugrammi Street, Madras 3.
C. L. Abdus Subhan & Co.—46, Vepery High Road, Madras 8.
E. K. Hajee Mohamed Meera Sahib & Sons—10, Vepery High Road, Madras 8.
E. K. Mohamed Abdul Sahib & Sons—18, Kumarappa Chetty Street, Madras 3.
F. K. Haseeb & Co.—40, Sydenhams Road, Madras 3.
G. Govindarajulu Naidu & Co.—2, Ramapillai Street, Madras 3.
G. Greenivas & Co.—10, Sydenhams Road, Madras 3.
Habib & Co.—22, Sydenhams Road, Madras 3.
H. H. Nasseem & Co.—9, Ramopillai Street, Madras 3.
K. O. Mohamed Sulaiman & Co.—11, Vepery High Road, Madras 3.
Kothwal Hajee A. R. Mohamed Obaidulla & Co.—5/6, Nabl Khan Subedar Street, Madras 3.
K. T. Basma Rasheed & Co.—18, Sydenhams Road, Madras 3.
Majja Hajee Ismail Sahib & Co.—15, V. V. Koll Street, Madras 3.
Merit, M. E. Ibrahim & Co.—12, Vepery High Road, Madras 3.
M. Hajee Mohamed Ismail Sahib & Co.—17, Sydenhams Road, Madras 3.
M. K. S. Mohamed Labbal & Co.—234, Angappa Naick Street, Madras 1.
M. L. Abdul Rasheed & Co.—12/A, Vepery High Road, Madras 3.
M. M. Mohideen Thumbay & Co.—228, Angappa Naick Street, Madras 1.
Naivasal Mohamed Hussain Sahib & Co.—19, Sydenhams Road, Madras 3.
P. Krishnaswamy & Co.—17, Vepery High Road, Madras 3.
P. M. Batcha & Co.—Kumarappa Chetty Street, Madras 3.
S. K. Senjan Chettiar & Sons—34, V. V. Koll Street, Madras 3.
T. K. Fasal Habib & Co.—7B, Nabikhan Subedar Street, Madras 3.
V. Sreenivas & Co.—10, V. V. Koll Street, Madras 3.

HOSPITAL EQUIPMENT & SUPPLIES

Associated Electrical Industries (India) Private Ltd., 11/12, First Line Beach, Madras.
Bombay Engineering Works.—8, Sunkurama Chetty Street, Madras 1.
Bombay Surgical Equipment Co.—8, Sunkurama Chetty Street, Madras 1.
East Asiatic Co. (India) Ltd.—Mercantile Bank Bldg., First Line Beach, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
GODREJ, Godrej & Boyce Mfg. Co. Private Ltd.—177 & 179, Mount Road, Madras.
Philips Electrical Co. (India) Ltd.—Mount Road, Madras 2.
Pikay's Medico Surgicals—199, Mount Road, Madras 2.
Spencer & Co., Ltd.—Mount Road, Madras 2.

HOTELS AND RESTAURANTS

Ambassador Hotel—151, Mount Road, Madras 2.
Ambia Cafe.—6, Broadway, Madras.
Buhari Hotels—3/17, Mount Road, Madras 2.
Connemara Hotel—Binny's Road, Mount Road, Madras 2.
Hotel Everest—Jaya Mansions, Poonamallee High Road, Madras 3.
Hotel India—39, Mount Road, Madras 6.
Hotel Oceanic—Santhome High Road, Madras 28.
Hotel Select—9, Linghi Chetty Street, Madras 1.
Victoria Hotel—Egmore, Madras 8.

IMPORT AND EXPORT FIRMS (GENERAL)

A. Ahmed Mohideen.—98, Acharappan Street, Madras 1.
A. A. Rashud.—11-A, Sydenhams Road, Madras.
A. M. Ahmed & Co.—255, Thambi Chetty Street, Madras 1.
A. S. Mohideen Pillai & Co.—402, Triplicane High Road, Madras 5.
A. V. Mahalia Chettiar & Son.—5, Ramasamy Street, Mannady, Madras 1.
Abdul Cader & Co., B. N.—11, Arumuga Achari Street, Triplicane, Madras 5.
Abdul Jaffer & Co., M. H.—204, Angappa Naick Street, Madras 1.
Abdul Karim Nour Mohamed & Co.—22, Anderson Street, Madras 1.
Abdul Karim, M. S.—23, Pallappan Street, Triplicane, Madras 5.
Abdul Subhan Sahib & Sons, N.—6, V. V. Koll Street, Periamet, Madras 3.
Abdul Waheed & Co., M. R.—26, V. V. Koll Street, Periamet, Madras 3.
Associated Agencies—35/37, Thambu Chetty Street, Madras 1.
Beardsell, W. A., & Co., Ltd.—Second Line Beach, Madras 1.
Bombay Co. Ltd.—169, Broadway, Madras 1.
Coromandell Corporation Ltd.—2, Armenian Street, Madras 1.
East Asiatic Co. (India) Ltd.—Mercantile Bank Bldg., First Line Beach, Madras 1.
East Coast Commercial Syndicate—99, Armenian Street, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
G. K. R. Chetty & Co. 12, Thathamuthiappan Street, Madras 1.
Gorakham Gokachand.—1/18, Mount Road, Madras 2.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
J. Ramasek & Co.—100, Godown Street, Madras 1.
Lloyds Commercial Corp.—21/35, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
Murthy Raja Ltd.—9, Armenian Street, Madras 1.
Murugappa & Sons—Swastik House, Armenian Street, Madras 1.
Murugappa Agencies Ltd.—106, Armenian Street, Madras 1.
P. Govindaraj & Sons Ltd.—330, Thambu Chetty Street, Madras 1.
Pooja Thakerees & Co.—75, Mint Street, Madras.
Rajia India Ltd.—Rajia House, 320, Linghi Chetty Street, Madras 1.
Sathi Potha Reddi & Co.—71, Big Street, Triplicane, Madras 3.
South Indian Export Co., Ltd.—3, Melean Street, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
Traders House—1/4, Janakiran Pillai Street, Madras 17.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.
Wilson & Co.—North Rly. Terminus, Royapuram, Madras.

INSULATORS AND INSULATION MATERIALS

Amalgamations Private Ltd.—202, Mount Road, Madras 1.
Associated Electrical Industries (India) Ltd.—11/12, First Line Beach, Madras 1.
British Insulated Callender's Cables Ltd.—37, Second Line Beach, Madras 1.
Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
General Electric Co. of India Ltd.—Magnet House, Mint Road, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 1.

INSURANCE COMPANIES

All India General Insurance Co., Ltd.—29, Linghi Chetty Street, Madras 1.
 Andhra Insurance Co., Ltd.—337, Thambu Chetty Street, Madras 1.
 Bharat Insurance Co., Ltd.—Mount Road, Madras 2.
 Bombay Fire & General Insurance Co., Ltd.—9, Sembudoss Street, Madras 1.
 British India General Insurance Co., Ltd.—113, Armenian Street, Madras 1.
 Caledonian Insurance Co., Ltd.—9, Sembudoss Street, Madras 1.
 Crusader Insurance Co., Ltd.—29, Linghi Chetty Street, Madras 1.
 East & West Insurance Co., Ltd.—329, Thambu Chetty Street, Madras 1.
 Free India General Insurance Co., Ltd.—38, Erraballu Street, Madras 1.
 General Assurance Society Ltd.—304/306, Thambu Chetty Street, Madras 1.
 Great Pyramid Insurance Co., Ltd.—121, Armenian Street, Madras 1.
 Hanover Fire Insurance Co.—7, Second Line Beach, Madras 1.
 Hindustan General Insurance Society Ltd.—107, Armenian Street, Madras 1.
 Indian Globe Insurance Co., Ltd.—310/11, Linghi Chetty Street, Madras 1.
 Indian Mercantile Insurance Co., Ltd.—327, Thambu Chetty Street, Madras 1.
 Indian Trade & General Insurance Co., Ltd.—11/12, First Line Beach, Madras 1.
 Industrial & Prudential Assurance Co., Ltd.—10, Linghi Chetty Street, Madras 1.
 Jupiter General Insurance Co., Ltd.—167, Broadway, Madras 1.
 Kaiser-I-Hind Insurance Co., Ltd.—5, Thambu Chetty Street, Madras 1.
 National Fire & General Insurance Co., Ltd.—362, Netaji Road, Madras 1.
 National Insurance Co., Ltd.—362, Netaji Road, Madras 1.
 New India Assurance Co., Ltd.—4/5, First Line Beach, Madras 1.
 New Zealand Insurance Co., Ltd.—12, Angappa Naick Road, Madras 1.
 Oriental Fire & General Insurance Co., Ltd.—Armenian Street, Madras 1.
 Oriental Govt Security Life Assurance Co., Ltd.—Armenian Street, Madras 1.
 Panjiyan Insurance Co., Ltd. Catholic Centre, Armenian Street, Madras 1.
 Prudential Assurance Co., Ltd. First Line Beach, Madras 1.
 Royal Insurance Co., Ltd.—5, Gopal Krishna Road, Madras 17.
 Sterling General Insurance Co., Ltd.—10, Linghi Chetty Street, Madras 1.
 Sun Life Assurance Co. of Canada - Catholic Centre, Armenian Street, Madras 1.
 United India Fire & General Insurance Co., Ltd.—United India Life Building, Madras 1.
 Vulcan Insurance Co., Ltd.—Indian Bank Bldgs, First Line Beach, Madras 1.

JEWELLERS, GOLD AND SILVERSMITHS

A. Kanniah Naidu—29, Netaji Bose Road, Madras 1.
 A. Krishna Rao—103, Ekambarewarar Agraharam, Madras.
 Ambaji Rao & Sons—37, Netaji Bose Road, Madras 1.
 A. N. Rajan—140, Brodie's Road, T. Nagar, Madras.
 A. Venkatachalam Chetty & Bros.—229, Netaji Subhas Chandra Bose Road, Madras.
 B. P. Bhaduriya—434, Mint Street, Madras 1.
 B. Pattabhai Chetty & Brothers—34, Netaji Bose Road, Madras 1.
 B. Sundaram Chetty—35, Netaji Bose Road, Madras 1.
 Burma Mogik Diamond Co.—238, Govindappa Naicken Street, Madras 1.
 Chhotabhai & Company—191, Netaji Bose Road, Madras 1.
 Chimanlal Kothari & Co.—191, Netaji Bose Road, Madras 1.
 Davey Chimanlal & Co.—195, Netaji Bose Road, Madras 1.
 D. Natarajan—12, Guruguraman Street, Madras.
 D. R. Ranka Bros.—21, Arunachalanicken Street, Chintadripet T. Nagar, Madras.
 D. Subbiah Chetty—221, Netaji Bose Road, Madras 1.
 Gandavadi Sreeramulu Chetty & Sons—184, Netaji Bose Road, Madras 1.
 G. Krishniah Chetty & Sons—36, Netaji Bose Road, Madras 1.
 G. Namburumal Chetty, S. K. Chakrapani Naidu & Co.—40, Netaji Bose Road, Madras 1.
 Habeebeeya Gems Co.—12, Govindappa Naicken Street, Madras 1.
 H. J. Jawaharlal Bros.—128, T. Nagar, Madras.
 Jain Jewellery Co.—1, T. Nagar, Madras.
 Jalagam Subramaniam Naidu & Co.—222, Netaji Bose Road, Madras 1.
 Jayantilal Mangalji & Co.—175, Netaji Bose Road, Madras 1.
 Jervan Brothers—304, Netaji Bose Road, Madras 1.
 Kanallal Ishwarlal & Co.—235, Govindappa Naicken Street, Madras 1.
 Karamechand Chabildas & Sons—173, Netaji Bose Road, Madras 1.
 K. A. Srikantham Chetty—187, Netaji Bose Road, Madras 1.
 K. Chenchurama Chetty—39, Netaji Bose Road, Madras 1.
 Khader Bhaig Sahib & Sons—205, Netaji Bose Road, Madras 1.
 Khengar Veeumasee—170, Netaji Bose Road, Madras 1.

K. M. Chokanatham Chetty—221, Netaji Bose Road, Madras.
 K. Kuppaswamy Naidu—57, Netaji Bose Road, Madras 1.
 Kota Alvar Chetty & Sons—11, Govindappa Naicken Street, Madras 1.
 Krishna Jewellery & Co.—221, Netaji Bose Road, Madras 1.
 K. Radhakrishna Chetty G. Scurappa Chetty & Co.—199, Netaji Bose Road, Madras 1.
 Manilal & Sons—172, Netaji Bose Road, Madras 1.
 M. Devarajulu Naidu—29, Netaji Bose Road, Madras 1.
 M. K. Shah & Ekambarewarar Agraharam, Madras.
 M. Narasimhulu Chetty—42, Narayan Mudali Street, Madras 1.
 Motilal Kapas—220, Netaji Bose Road, Madras 1.
 M. Padmanabham Chetty—200, Netaji Bose Road, Madras 1.
 M. Radhakrishna Chetty—215, Netaji Bose Road, Madras 1.
 M. Subramaniam Mudaliar—54, Netaji Bose Road, Madras 1.
 M. V. Rangam Chetty—29, Netaji Bose Road, Madras 1.
 Nalam Venkata Krishnama Chetty—36, Netaji Bose Road, Madras 1.
 Nema Chennakavulu Chetty—32, Netaji Bose Road, Madras 1.
 Nema Jayarama Chetty & Sons—29, Netaji Bose Road, Madras 1.
 Nema Subbiah Chetty & Sons—219, Netaji Bose Road, Madras 1.
 Nathella Sampathu Chetty & Son—177, Netaji Bose Road, Madras 1.
 Netha Subramaniam Chetty—219, Netaji Bose Road, Madras 1.
 N. Sampathu Chetty Anantham Chetty—29, Netaji Bose Road, Madras 1.
 Pasumarthy Cunniah Chetty & Sons—218, Netaji Bose Road, Madras 1.
 P. Gopalakrishniah—74, Netaji Bose Road, Madras 1.
 Phusaram Munnah—94, Mint Street, Madras 1.
 P. K. Sundaram Pillai—66, Netaji Bose Road, Madras 1.
 P. L. Narasimhulu Chetty—29, Netaji Bose Road, Madras 1.
 P. Mallikarjuna Chetty—219, Netaji Bose Road, Madras 1.
 P. M. Loganatham Chetty—196, Netaji Bose Road, Madras 1.
 Prabhu Gems Co.—2, Govindappa Naicken Street, Madras 1.
 P. Ranganathan Naidu—78, Netaji Bose Road, Madras 1.
 Rajarathanam Chetty—132, Netaji Bose Road, Madras 1.
 Rangoon Diamond Traders—74, Netaji Bose Road, Madras 1.
 Rathanlal Chandlek & Co.—32, Netaji Bose Road, Madras 1.
 S. Ganesh & Brothers—87, Netaji Bose Road, Madras 1.
 Shivaraj Niman—175, Netaji Bose Road, Madras 1.
 S. Swaminatha Iyer & Sons—111, Netaji Bose Road, Madras 1.
 Surajmal's—313, Kapilade, Madras. Phone: 2250.
 T. A. Ponnuswamy Nayagar—90, Mint Street, Madras 1.
 T. Baghechand Gullada—4, Nag. swara Road, T. Nagar, Madras.
 T. Govindarajulu Naidu—28, Netaji Bose Road, Madras 1.
 T. Manickam Chetty Son—6, Govindappa Naicken Street, Madras 1.
 T. Nannu Shanker Tawker—192, Netaji Bose Road, Madras 1.
 T. P. Rajamanickam Mudaliar—55, Netaji Bose Road, Madras 1.
 T. Rangaswamy Iyengar—9, Rajalatharundini Street, T. Nagar, Madras.
 T. Srinivasulu Chetty & Brothers—196, Netaji Bose Road, Madras 1.
 Vattam Seshiah Chetty & Sons—22, Netaji Bose Road, Madras 1.
 V. Chengelvaraya Chetty & Sons—40/32, Netaji Bose Road, Madras 1.
 Venna Ramachandran—221, Netaji Bose Road, Madras 1.
 V. Jayanama Chetty P. Radhakrishna Chetty & Co.—215, Netaji Bose Road, Madras 1.
 V. Subramaniam Chetty N. Lakshmi Chetty—103, Perumal Mudali Street, Madras 1.
 V. T. Munuswami Naidu & Co.—102, Mint Street, Madras 1.
 Vummidi Bangaru Chetty & Sons—226, Govindappa Naick Street, Madras 1.
 Vummidi Ramlah Chetty Guruswamy Chetty & Co.—24/25, Netaji Bose Road, Madras 1.
 Y. Baliah Chetty—67, Netaji Bose Road, Madras 1.

KIRANA MERCHANTS

Abdul Kafeem Noor Mohamed & Co.—22, Anderson Street, Madras.
 B. Venkatasubbiah Chetty & Bros.—14, Chitana Thambi Mudali St., Madras 1.
 Balakrishna Rikhabdas—181, Govindappa Naick St., Madras.
 Bangaru Chetty & Co., C's—40, Narayana Mudali St., Madras.
 Baral Bros—27, Govindappa Naick St., Madras.
 Bhiwandwalla & Co. (Bombay) Ltd., A II.—46, Anderson Street, Madras.
 Bombay Malayan Traders—38, Narayana Mudali St., Madras.
 Bombay Metal Depot—112, Mint Street, Madras.
 Calcutta Metal Mart—140, Mint Street, Madras.
 Chimanlal Kothari & Co.—191, Netaji Subhas Chandra Bose Road, Madras.
 Dadha & Co.—86, Nyniappa Naick St., Madras.
 Dakorram Jayanarayan—32, Perumal Mudali St., Madras.
 Dayaram Kanji & Co.—79, Netaji Subhas Chandra Bose Road, Madras.
 Dhulajee Kunaljee & Co.—34, Perumal Mudali St., Madras.
 Dwarakadas & Co.—5, Anderson Street, Madras.
 Gomaraj Fatachand—180, Govindappa Naick St., Madras.
 Gopaljee & Co.—203, Govindappa Naick St., Madras.
 Gopalji Shampahi & Co.—30, Govindappa Naick St., Madras.
 Harakchand Koochand—28, Govindappa Naick St., Madras.
 Heeraji Vanichand—103, Narayana Mudali St., Madras.
 Hindumal Dalchand—180, Govindappa Naick St., Madras.

Indo Malayan Trading Co.—125, Andlappa Naick St., Madras.
 Jain & Sons, R.R.—4, Govindappa Naick St., Madras.
 Japee & Co., P.K.—99, Mint Street, Madras.
 Jetimall Sukanraj—198, Govindappa Naick St., Madras.
 Juharnall & Sons—214, Netaji Subhas Chandra Bose Road, Madras.
 K. Ramani & Co., (1916).—226, Poonamalli High Road, P.T. Madras.
 Kanniram & Sons—96, Mint Street, Madras.
 Kottiah Chetty & Co., C.F.V.—9, Andlappa Naick St., Madras.
 Laljee Godhoo & Co.—8, Perumal Mudali St., Madras.
 Mangalji & Co.—2, Hanumantharayan Koli St., Madras 3.
 Manilal & Sons—172, Netaji Subhas Chandra Bose Road, Madras.
 Mazda India Agencies—Indian Chamber Bldgs., Esplanade, Madras 1.
 Mirimall Jewanthraj & Co.—53, Govindappa Naick St., Madras 1.
 Mohanlal Uthamchand—61, Narayana Mudali St., Madras.
 Motil & Co.—134/135, Mint Street, Madras.
 Motichand Tarachand—186, Govindappa Naick St., Madras.
 Muniswamappa & Son, T.N.—183, Anna Pillai St., Madras.
 Muthiyala Subbarangiah Chetty—113, Andlappa Naick St., Madras.
 Nainmali Mittal—2/202, Govindappa Naick St., Madras.
 Nainmali Umaji & Co.—393, Mint St., Madras.
 Nathella Sambathu Chetty & Sons—177, Netaji Subhas Chandra Bose Road, Madras.
 Noor Glass & Silicate Industries—22, Anderson Street, Madras 1.
 Penunkonda Narayana Chetty & Co.—94, Varadha Muthlappan St., Madras 1.
 Periasamy Chetty & Co., V.M.—399, Mint Street, Madras.
 Ramesh & Co.—139, Mint Street, Madras.
 Rashiklal & Co.—234, Govindappa Naick St., Madras.
 Roopchand Chabikdas & Sons—31, Govindappa Naick St., Madras.
 S. S. Mehta & Co.—194, Govindappa Naick St., Madras 1.
 Sagarmall Mohanlal—2/202, Govindappa Naick St., Madras.
 Sahuwalla Bros. & Co.—38, Sirotten Muthia Mudali St., Madras.
 Samy & Co., P.—80, Govindappa Naick St., Madras.
 Sangvi Dhanelal Manchahal—189, Govindappa Naick St., Madras.
 Meshmali Bhawaral—42, Sirotten Muthia Mudali St., Madras.
 Sha Chuntal Shantilal—60, Govindappa Naick St., Madras 1.
 Sha Roopaji Bhawaral—189, Govindappa Naick St., Madras.
 South India Trading Co.—215, Govindappa Naick Street, Madras.
 Subramanian Chetty, S.—17, Andlappa Naick St., Madras.
 Sun Shine Co.—26, Govindappa Naick Street, Madras 1.
 Suryanarayana Chetty & Co., G.—65, Govindappa Naick St., Madras 1.
 Tejmal Monglial Bhandari—196, Govindappa Naick St., Madras.
 Tillockchand Walaji—21, Andlappa Naick St., Madras.
 Umaji Shankeral—177, Govindappa Naick St., Madras.
 Vanulchand Fozmali—199, Govindappa Naick St., Madras.
 Varjivandas Hirjee & Co.—194, Govindappa Naick St., Madras.
 Vishwewardass Gokuldass—112, Mint Street, Madras.
 Yellamanda Chetty P. Venkatasubblak Chetty & Co.—51, Govindappa Naick St., Madras 1.

LIBRARY STACKS

Godrej, Godrej & Boyce Mfg. Co., Private Ltd.—177 & 179, Mount Road, Madras.

LOCK & SAFE MERCHANTS

Godrej, Godrej & Boyce Mfg. Co., Private Ltd.—177 & 179, Mount Road, Madras.

LOOMS (AUTOMATIC)

Brady, W. H., & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
 Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
 Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
 Voltas Limited—115/116, Armenian Street, Madras 1.

LUBRICATING OILS AND GREASES

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
 Bombay Co., Ltd.—169, Broadway, Madras 1.
 Burmah-Moh Oil Storage & Distributing Co. of India Ltd.—Burmah-Moh House, Esplanade, Madras 1.
 Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
 Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
 Standard-Vacuum Oil Co. Ltd.—United India Bldg., Esplanade, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

MACHINERY IMPORTERS AND MFRS.

Bombay Co., Ltd.—169, Broadway, Madras 1.
 Brady, W. H., & Co., Ltd.—154/155, Pophams, Broadway Madras 1.
EAST ASIATIC COMPANY (INDIA) PRIVATE LTD., THE.—
 Machine & Engineering Dept., Bharat Bldg., Mount Road, Madras 2; Phone: 8602/2; Grams: "MANDARIN"; P.O. Box No. 146.
 Kasun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
 General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
 Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
 Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
 Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.

Healty & Gresham Ltd.—United India Bldg., Esplanade, Madras 1.
 Indian Oxygen & Acetylene Co., Ltd.—(Absorbent Cotton Machines), 7/A, Vaidyanatha Mudali Street, Tondiarpet, Madras 21.
 Industrial Stores Company, The.—2, Errabalu Chetty Street, Madras 1.
 Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
 Kothandaraman, K. R., & Co.—13-B, Second Line Beach, Madras 1.
 Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
 Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.
 Massey Engineers—4B/4C, North Rly. Terminus Road, Royapuram, Madras 13.
 National Engineering Co. (Madras) Ltd., The.—379, Netaji Subhas Chandra Bose Road, Madras 1.
 Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
 South India Export Co., Ltd.—5, Mclean Street, Madras.
 Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
 Voltas Limited—115/116, Armenian Street, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.
 Wilson & Co.—North Rly. Terminus Road, Royapuram, Madras 3.

MATERIAL HANDLING AND CONVEYORS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
 Brady, W. H., & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
 British Insulated Callender's Cables Ltd.—37, Second Line Beach, Madras 1.
 General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
 Healty & Gresham Ltd.—United India Building, Esplanade, Madras 1.
 Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
 Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
 Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
 Parry & Co., Ltd.—"Dare House", First Line Beach, Madras 1.
 Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.
 Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

METALS (BRASS, IRON AND STEEL)

Best & Co., Ltd.—First Line Beach, Madras 1.
 Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
 Bombay Co., Ltd.—169, Broadway, Madras 1.
 Gordon Woodroffe & Co. (Madras), Ltd.—1/21, North Beach Road, Madras 1.
 Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
 Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
 Healty & Gresham Ltd.—United India Life Building, Esplanade, Madras 1.
 McDowell & Co., Ltd.—Second Line Beach, Madras 1.
 Parry & Co., Ltd.—"Dare House", First Line Beach, Madras 1.
 Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
 Roberts Mclean & Co., Ltd.—200, Mount Road, Madras 2.
 South India Export Co., Ltd.—5, Mclean Street, Madras 1.
 Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

MILL & GIN STORE SUPPLIERS

Best & Co., Ltd.—First Line Beach, Madras 1.
 Brady, W. H., & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
 Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras 1.
 Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
 Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
 Mill Stores Limited—24, Errabalu Chetty Street, Madras 1.
 Roberts Mclean & Co., Ltd.—200, Mount Road, Madras 2.
 Voltas Limited—115/116, Armenian Street, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

MINERALS AND MINERAL ORES

Best & Co., Ltd.—First Line Beach, Madras 1.
 Chambers K. H. Ltd.—Leocote Building, Madras 1.
 East Asiatic Co. (India) Ltd.—Mercantile Bank Building, First Line Beach, Madras 1.
 Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras 1.
 Murugappa Agencies Ltd.—106, Armenian Street, Madras 1.
 Murugappa & Sons—Swastik House, Armenian Street, Madras 1.

MOTION PICTURES DISTRIBUTORS

All India Film Corp. Ltd.—1/155, Mount Road, Madras 2.
 A. V. M. Ltd.—2/159, Mount Road, Madras 2.
 Calcutta Film Exchange—7, Francis Joseph Street, Madras 1.
 Chamra Talkie Distributors—General Posters Road, Madras 2.

Devi Films Ltd.—498, Mint Street, Madras 2.
 Evergreen (Bangalore) Ltd.—175/177, Mount Road, Madras 2.
 Famous Films Ltd.—18, Mount Road, Madras 2.
 Gemini Pictures Circuit Ltd.—151, Mount Road, Madras 2.
 General Film Distributing Co.—9, Mount Road, Madras 2.
 Geo Pictures—17-A, Damodara Avenue Road, Madras 10.
 Goodwill Pictures—35, Mount Road, Madras 2.
 M. A. Ethrajalu Naidu—2/3, Athipatan Street, Madras 2.
 Poorna Pictures Ltd.—5, Ramaswamy Iyer Street, Gopalapuram, Madras 14.
 Rajaahri Pictures Ltd.—1/155, Mount Road, Madras 2.
 R. A. Sundaram Chettiar—2/3, Athipatan Street, Madras 2.
 T. S. Muthuswamy—23/28, Luz Church Road, Madras 4.
 Vel Maragan Film Service—94, Broadway, Madras 1.

MOTION PICTURE PRODUCERS

Allied Photographics Ltd.—16, Armenian Street, Madras 1.
 Anjali Pictures—2, Cenotaph Road, 1st Street, Madras 18.
 Aruna Films Ltd.—7, Dr. Thomas Road, Madras 17.
 Asok Pictures—18, Luz Avenue, Madras 4.
 A. V. M. Studios—Arcot Road, Madras 26.
 Bharani Pictures—11, Vaidyaram Iyer Street, Madras 17.
 Keesay Films—6, Venkataramier Street, Madras 17.
 Gramophone Co.—122, Mount Road, Madras 2.
 International Talkie Equipment Co., Ltd.—Bharat Bldg., Madras 2.
 Jamien Productions—3/4, Eldams Road, Madras 4.
 Jupiter Pictures—C/o Neptune Studios Ltd., Greenways Road, Madras 20.
 Kodak Ltd.—2/155, Mount Road, Madras 2.
 Madras Art Productions—4, Masilamani Street, Madras 4.
 Mohini Pictures—113, Kodambakam High Road, Madras 6.
 Narasu Pictures—Circuit, Guindy, Madras 15.
 National Pictures—7, Nayanappan Street, Madras 1.
 Patel India Ltd.—7/90, Wallajah Road, Madras 2.
 Photophone Equipments Ltd.—18, Mount Road, Madras 2.
 Prakash Productions—Arcot Road, Madras 26.
 Prasad Art Pictures Ltd.—109, G. Nagar, Madras 20.
 Sadhana Pictures—32, Sarangapani Street, Madras 7.
 Shyamala Pictures Ltd.—32, Audlappa Mudali Street, Madras 7.
 Sri Rajarajawari Film Co.—4-A, Venkatanarayana Road, Madras 17.
 S. S. Vasan—Gemini Studios, Madras 6.
 Vijaya Productions—Arcot Road, Madras 26.
 Westrex Co., India—35, Mount Road, Madras 2.

NEEDLES

Brady, W. H. & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
 Central Agency, Ltd.—19, Vaniar Street, Madras 1.
 McDowell & Co., Ltd.—Second Line Beach, Madras 1.
 Spencer & Co., Ltd.—Mount Road, Madras 2.

NEWSPAPER PUBLISHERS

"The Hindu"—Kasturi Building, Mount Road, Madras 2.
 "The Indian Express"—Mount Road, Madras 2.
 "The Mail"—Mount Road, Madras 2.

NON-FERROUS METALWARE MFRS. & IMPORTERS

Best & Co., Ltd.—First Line Beach, Madras 1.
 Bombay Co., Ltd.—169, Broadway, Madras 1.
 East Asiatic Co. (India) Ltd.—Mercantile Bank Building, First Line Beach, Madras 1.
 Gillander's Arbuthnot & Co. Ltd.—First Line Beach, Madras 1.
 Gramams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras 1.
 Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
 Healy & Gresham Ltd.—United India Building, Esplanade, Madras 1.
 Imperial Chemical Industries (India) Ltd.—Springhaven Road, "The Harbour", Madras 1.
 M. V. P. Sastri—323, Linghi Chetty Street, Madras 1.
 Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

OIL AND OILSEEDS (EXPORTERS)

Beardell, W. A. & Co., Ltd.—Second Line Beach, Madras 1.
 Coromandel Produce Corpn.—17/337, Thambu Chetty Street, Madras 1.
 East Asiatic Co. (India) Ltd.—Mercantile Bank Building, First Line Beach, Madras 1.
 Hind Mercantile Corporation Ltd.—308/309, Linghi Chetty Street, Madras 1.
 Ias Venkatramnappa Chetty & Co.—48, Kandappa Chetty Street, Madras 1.
 Louis Dreyfus & Co., Ltd.—99, Armenian Street, Madras 1.
 McDowell & Co., Ltd.—Second Line Beach, Madras 1.
 Maragappa & Sons—Swastik House, Armenian Street, Madras 1.
 P. A. Narasimula Reddy—58, Walltax Road, Madras 3.
 Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
 Spencer & Co., Ltd.—Mount Road, Madras 2.
 Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

OIL MILLS

Abba Chetty Oil Mills—81, Peranur Barracks Road, Vepery, Madras 7.
 Associated Agencies, The—271, Linghi Chetty St., Madras 1.
 Associated Oil Corporation—118, Armenian St., Madras 1.
 Board-Sell & Co. Ltd., W A —Secund Line Beach, Madras 1.
 Bhawanidass Khandaria —Mani Mandir, 8, Pachappa's Hostel Road, Chetpet, Madras 10.
 Bombay Malayan Traders, The—38, Narayana Mudali St., Madras 1.
 Coromandel Corporation Ltd., The—6, Armenian St., Madras 1.
 Chandrakant Co. Ltd.—36, Kandappa Chetty Street, G. T. Madras.
 East Asiatic Co. (India) Private Ltd.—First Line Beach, Madras 1.
 Hind Mercantile Corporation Ltd.—308-309, Linghi Chetty St., Madras 1.
 Hindustan Products—373-375, Esplanade, Madras 1.
 Kilchand Devchand & Co. Ltd.—310-311, Linghi Chetty St., Madras 1.
 Kotak & Co.—2-25, Perumal Mudali St., Sowcarpet, Madras.
 Madras Oil Mills & Products, The—165, Lloyd's Road, Madras 14.
 Madras Vansapathi Ltd., The—331-333, Thambu Chetty St., Madras 1.
 Mahalakshmi Oil Mills—Wall Tax Road, Madras 1.
 Muthu Oil Mills & Flour Mills—Kodambakkam Madras.
 Mogili Oil Mills—15-3, Chinnathambi Mudali St., Madras.
 Mysore Vegetable Oil Mills Ltd.—Madras.
 Novatia Ltd.—98, Andappa Naiken St., Madras 1.
 Oil Seeds Trading Co., Ltd., The—2-32, Annapillai St., G. T. Madras 1.
 Ommedchand Kashiram & Co.—2-32, Annapillai St., G. T. Madras.
 Premier Suppliers Ltd.—9, Stringer Street, Madras 1.
 Rallis India Ltd.—320, Linghi Chetty St., Madras 1.
 Ramson Exports (India) Ltd.—228, Ponnamallee High Road, Madras.
 Sanyanarayan Oil Mills Private Ltd.—4-18, Adam St., Royapuram, Madras.
 South India Mercantile Ltd.—6, Linghi Chetty Street, Madras.
 Spencer & Co., Ltd.—1-153, Mount Road, Madras 2.
 Sundaram Oil Mills Private Ltd.—Linghi Chetty St., Madras 1.
 Swastik Oil Mills Private Ltd.—Stringer St., Madras 1.
 Swami Oil Mills—32, Kandappa Chetty St., Madras.
 Vijaya Chemicals & Toilet Works—Madras.
 Yadam & Co.—1, Thathamuthappa Street, Madras 1.

OPTICIANS

Adair Dutt & Co.—1/29, Mount Road, Madras 2.
 Barnes, S.—107, Mount Road, Madras 2.
 Brown & Co.—18/C, Broadway, Madras 1.
 Chari & Co., M A —Broadway, Madras 1.
 Colvin & Co.—Mount Road, Madras.
 Davey & Sons—S.U.S., 4/20, Broadway, Madras 1.
 Davey Brothers—Broadway, Madras 1.
 Devchand C. K.—4, Broadway, Madras 1.
 Indra & Co., J.—Madras.
 Joy Brothers—Mount Road, Madras 2.
 Kuppuswami N.—Esplanade, Madras 1.
 Manilal M. Mehta—8, Broadway, Madras 1.
 Mehta Optical Co.—Madras.
 Modi & Jones—Purasawalkam, Madras.
 Murch & Seymour—Marshall's Road, Egmore, Madras.
 P. B. Shah & Co. Ltd.—295, Linghi Chetty Street, Madras 1.
 Pragwat & Co.—Broadway, Madras 1.
 Radha Brothers—174, Broadway, Madras 1.
 Raj & Co.—Mint Street, Madras.
 Ramakrishna Bros.—Esplanade, Madras 1.
 Ranga & Co., G. N.—Esplanade, Madras 1.
 Ratna & Co., K.—Esplanade, Madras 1.
 Raval & Co.—Chinabazar Road, Madras.
 Turika Optical Co.—1/174, Broadway, Madras 1.
 Vasudevan C. G.—Mount Road, Madras.
 White Brothers—3/73, Broadway, Madras 1.
 Wicken & Co.—Broadway, Madras 1.
 Windsor & Co.—Broadway, Madras 1.

PACKING AND JOINTING

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
 Best & Co., Ltd.—First Line Beach, Madras 1.
 Bombay Co., Ltd.—169, Broadway, Madras.
 Brady, W. H. & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
 British Insulated Callender's Cables Ltd.—37, Second Line Beach, Madras 1.
 Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
 Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
 Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
 Richardson & Croddia, Ltd.—First Line Beach, Madras 1.
 Roberts McLean & Co., Ltd.—200, Mount Road, Madras 2.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.
 Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

PAINT BRUSHES

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
 Bombay Co., Ltd.—169, Broadway, Madras 1.
 Gillander's Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
 McDowell & Co., Ltd.—Second Line Beach, Madras 1.
 Spencer & Co., Ltd.—Mount Road, Madras 2.
 Taylor, T. A. & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
 Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

PAINTS, ENAMELS AND VARNISHES, ETC.

A. Bashyam & Co.—11, Venkatachala Mudali Street, Madras 3.
 Additions Paints & Chemicals Private Ltd.—Sembiam, Madras 11.
 Amalgamations Private Ltd.—202, Mount Road, Madras 2.
 Best & Co., Ltd.—First Line Beach, Madras 1.
 Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
 Bombay Co., Ltd.—169, Broadway, Madras 1.
 G. D. Sekar & Co.—134, Mount Road, Madras 6.
 Gillander's Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
 Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
 Imperial Chemical Industries (India) Ltd.—Springhaven Road, "The Harbour", Madras 1.
 K. K. Venkatachellam & Sons.—5/141, Mount Road, Madras 6.
 McDowell & Co., Ltd.—Second Line Beach, Madras 1.
 Parry & Co., Ltd.—Dare House, First Line Beach, Madras 1.
 P. B. Pillai & Co.—36, Venkatachala Mudali Street, Madras 3.
 Shalimar Paint, Colour & Varnish Co., Ltd.—8/9, Thambu Chetty Street, Madras 1.
 Shaw Wallace & Co., Ltd.—8/9, Thambu Chetty Street, Madras 1.
 S. Kuppuswami & Co.—15, Venkatachala Mudali Street, Madras 3.
 South Indian Export Co., Ltd.—5, Melean Street, Madras 1.
 Spencer & Co., Ltd.—Mount Road, Madras 2.
 Taylor, T. A. & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
 Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
 V. Raghavulu Chetty & Son—13, Venkatachala Mudali Street, Madras 3.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.
 Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

PAPER (IMPORTERS)

Beardsell, W. A. & Co., Ltd.—Second Line Beach, Madras 1.
 Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
 Bombay Co., Ltd.—169, Broadway, Madras 1.
 Charles Morgan & Co., Ltd.—314 315, Linghi Chetty Street, Madras 1.
 Gillander's Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
 Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras 1.
 Healty & Gresham Ltd.—United India Building, Esplanade, Madras 1.
 McDowell & Co., Ltd.—Second Line Beach, Madras 1.
 South Indian Export Co. (Madras) Ltd.—5, Melean Street, Madras 1.
 Taylor, T. A. & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
 Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
 Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

PAPER MERCHANTS

Burma Paper Stores—6, Sunkurama Chetty Street, Madras 1.
 Chellavaranga Mudaliar & Sons, T.—289, Stringers Street, Madras 1.
 C. Sanjeevi Shetty & Co.—56, Bunder Street, Madras 1.
 Gillander's Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
 Hussain Ali & Sons, M.—50, Bunder Street, Madras 1.
 Jai Dayal Kapur & Sons Private Ltd.—2, Anderson Street, Madras.
 J. B. Advani & Co.—Loane Square, Broadway, Madras 1.
 Joyam & Co.—43/44, Anderson Street, Madras 1.
 K. A. Seshadri Iyengar—9, Venkatachala Mudali Street, Madras 3.
 Kumber Ali & Bros., M.—1-D, Anderson Street, Madras 1.
 Kupplah Chetty & Co., M. V.—5, Bunder Street, Madras 1.
 M. Krishnamachari—62, Badrian Street, G.T., Madras 1.
 Morgan & Co., Ltd., Charles—314/315, Linghi Chetty Street, Madras 1.
 M. S. Maniam & Co.—Malaperumal Street, Madras 1.
 Musa Sons Ltd.—2/23, Bunder Street, Madras 1.
 Nanjappa Chetty & Sons, P.S.—2 34, Mint Street, Madras 3.
 Panmul Bowcar, S.O.—121, Mint Street, Madras 1.
 Premier Suppliers Ltd.—105, Netaji Road, Madras 1.
 Radhakrishna & Co., M. R.—12/285, Malaperumal Street, Madras 1.
 Sai Traders—49, Badrian Street, Madras 1.
 Sayee Co.—6, Bunder Street, Madras 1.
 Sri Meenakshi Paper Co.—48, Badrian Street, Madras 1.
 Star Trading Co.—58, Anderson Street, Madras 1.
 Subramaniam Bros.—99, Armenian Street, Madras 1.
 T. H. Gangappa & Sons—71, G. A. Road, Madras 21.
 V. Rajagopalan—8, Theagaraya Road, Madras 17.

PAPER (WATERPROOF)

Beardsell, W. A. & Co., Ltd.—Second Line Beach, Madras 1.
 Best & Co., Ltd.—First Line Beach, Madras 1.
 Charles Morgan & Co., Ltd.—314 315, Linghi Chetty Street, Madras 1.

Gillander's Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

PERFUMERS

McDowell & Co., Ltd.—Second Line Beach, Madras 1.
 Spencer & Co., Ltd.—Mount Road, Madras 2.
 Taylor, T. A. & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
 Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

PERFUMERY RAW MATERIALS AND COMPOUNDS

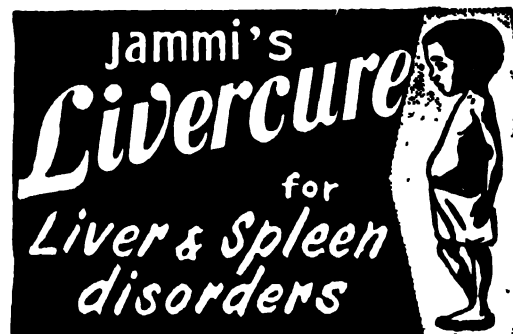
Burmah-Shell Oil Storage & Distributing Co. of India Ltd.—Burmah-Shell House, Esplanade, Madras 1.
 May & Baker (India) Ltd.—Purushotham Building, 193, Mount Road, Madras 2.
 Spencer & Co., Ltd.—Mount Road, Madras 2.
 Voltas Ltd.—115/116, Armenian Street, Madras 1.

PETROLEUM & ALLIED PRODUCTS

Burmah-Shell Oil Storage & Distributing Co. of India Ltd.—Burmah-Shell House, Esplanade, Madras 1.
 Caltex (India) Ltd.—202, Mount Road, Madras 2.
 Standard-Vacuum Oil Co.—United India Building, Esplanade, Madras 1.
 Wakefield & Co., Ltd., C. C.—16/17, Second Line Beach, Madras 1.

PHARMACEUTICALS

Associated Pharmaceutical Industries Ltd.—35/37, Thambu Chetty Street, Madras 1.
 Best & Co., Ltd.—First Line Beach, Madras 1.
 Gillander's Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
 Glaxo Laboratories (India) Ltd.—Jupiter House, 167, Broadway, Madras 1.
 Imperial Chemical Industries (India) Ltd.—Springhaven Road, "The Harbour", Madras.
 Indo Trades & Agencies (Madras) Private Ltd.—21, Thambu Chetty Street, Madras 1.



Jammi Venkataramanayya & Sons,

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Trade enquiries solicited from Countries abroad.

May & Baker (India) Ltd.—Purushotham Building, 193, Mount Road, Madras 2.
 McDowell & Co., Ltd.—Second Line Beach, Madras 1.

Parry & Co., Ltd.—“Dare House”, First Line Beach, Madras 1.
Raka Corporation Private Ltd.—138, Moor Street, Madras 1.
Shaw Wallace & Co., Ltd.—8/9, Thambu Chetty Street, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

PHARMACEUTICALS (MANUFACTURE)

Abbot Laboratories (India) Ltd.—S, Errabalu Street, Madras 1.
Alemble Distributing Agency—154, Nainappa Naick Street, Madras 1.
Gillander's Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Glaxo Laboratories (India) Ltd.—Jupiter House, 167, Broadway, Madras 1.
Imperial Chemical Industries (India) Ltd.—Springhaven Road, “The Harbour”, Madras 1.
Martin & Harris Ltd.—4, Sunkurama Chetty Street, Madras 1.
May & Baker (India) Ltd.—Purshotham Building, 193, Mount Road, Madras 2.
Oakley Bowden & Co. (Madras) Ltd.—Indian Express Office Building, Mount Road, Madras 2.
Parry & Co., Ltd.—“Dare House”, First Line Beach, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.

PHOTOGRAPHERS

Bharat Studios—Mount Road, Madras 2.
Klein & Feyerl—30, Mount Road, Madras 2.
Moco Studios—2/18-C, Mount Road, Madras 2.
Photo Emporium—11, Mount Road, Madras 2. Phone: 86472.
Press Photo Bureau—374, Pycrofta Road, Madras 14.
R. Dasen Studio—1/44, Rattan Bazar, Madras 3.

PHOTOGRAPHIC MATERIAL DEALERS

Allied Photographica, Ltd.—16, Armenian Street, Madras 1.
Ama Ltd. (Photo-Cine-Sound)—189/B, Mount Road, Madras 2.
Healy & Gresham Ltd.—United India Building, Esplanade, Madras 1.
Hford Selo (India) Ltd.—Woods Roads, Madras 2. Phone: 8320.
Klein & Feyerl—30, Mount Road, Madras 2.
Kodak Ltd.—2/155, Mount Road, Madras 2.
L. C. Sett & Co., Ltd.—30, Mount Road, Madras 2.
Spencer & Co., Ltd.—Mount Road, Madras 2.

PIECE-GOODS MERCHANTS

Ahmedabad Textile Agency—67, Godown Street, Madras 1.
Ajithbhai Jayanthilal & Co.—5, Godown Street, Madras 1.
Ajithbhai Desai & Co.—10, Godown St., Madras 1.
Akbar Bros.—112, South Main Street, Madras 1.
Alathoor Abhoy Chetty & Co.—34, Godown St., Madras 1.
Alathoor Suresh & Co.—34-B, Godown St., Madras 1.
Aminuddin Sahib & Co., T.—16, Godown Street, Madras 1.
Annamalai Corporation Ltd.—19, Big Bazar St., Tiruchirappally.
Asoka Stores—35, Subbaraya Chetty St., Tirupattur P.O., Arcot Dist.
Anto Store—2/56, Broadway, Madras 1.
Balarama & Co.—67, Godown Street, Madras 1.
Bharat Agencies—140, Big Street, Kumbakonam.
Binny & Co. (Madras) Ltd.—P.O. Box No. 66, Madras 1.
Bombay Mills Dept.—Longly Road, Shevapet, Salem.
Bombay Textile Agencies—4, Samudra Mudali St., Madras 3.
C. Munuswamy Chetty & Co.—60, Godown Street, Madras 1.
Chandpalal & Co.—245, N.S.C. Rose Road, Madras 1.
Chandra-Kant & Co.—2/96, Godown Street, Madras 1.
Chenchula Ware House—72, Godown Street, Madras 1.
Chengiah Chetty & Co., V.V.—1/5, Godown St., Madras 1.
Chhotabhai Javerbhai & Co. Ltd.—468, Mint Street, Madras 3.
Chimantlal C. Barbhaya & Co.—20, Samudra Mudali St., Madras 3.
Chinubhai & Bros.—27, Godown Street, Madras 1.
Chitra Stores—190, N.S.C. Rose Road, Madras 1.
Colombo Store—101, Godown St., Madras 1.
Dhanamal Milk Mills—4/99, Godown Street, Madras 1.
Ethiraj & Co., C.N.—17, Godown St., Madras.
G. R. Doss & Co.—87, Godown St., Madras 1.
Gajapathi & Co.—6-B, Godown St., Madras 1.
Ganeah Textiles—70, Godown Street, Madras.
Gertha & Co.—63, Godown St., Madras 1.
Gopooladas Laminados & Co.—2/44, Godown Street, Madras 1.
Gulabdas Narayandas—17-D, Godown Street, Madras.
Gupta & Co., P.J.—9, Godown St., Madras 1.
H. Yousuf Owner & Co.—14, Godown Street, Madras 1.
H. A. R. Mohamed & Sons—6-A, Godown St., Madras 1.
Haji Jiva Haji Khamisa & Co.—26, Anderson St., Madras 1.
Himatlal H. Mehta—26, Godown St., Madras.
Hindu Multani & Co.—1/2, Godown St., Madras 1.
Issardas Sons—20, Godown Street, Madras 1.
Jagraj & Co.—Coonoor.
Jagroopchand Javerchand—15, Godown St., Madras 1.
Jain Jari Store—90, Godown St., Madras 1.
Jalalia Textiles—24-B, Godown Street, Madras 1.
Jameel Brothers—15, Rattan Bazar, Madras 3.

Jasakram Chetty & Co.—3 96, Godown St., Madras 1.
Jeharam Vishnidas & Co.—3 67, Godown St., Madras 1.
Jehlingbhai Balabhai & Sons—29, Godown Street, Madras 1.
Jonus Salt & Sons—62 64, Rattan Bazar, Madras 3.
K. Ramon & Co., (1946)—226, Punnamallee High Road, Madras 3.
K. Ranganathan Chetty & Co.—1 21, Godown St., Madras 1.
K. S. Ram & Co.—1/19, Godown St., Madras 1.
K. T. Sheriff & Co.—31, Godown St., Madras 1.
Karupanna Mudaliar Stores—53, Godown St., Madras 1.
Keshavil Manilal & Bros.—24, Godown St., Madras 1.
Khatou Makanji Sng., & Wvg. Co., Ltd.—216, N.S.C. Rose Road, Madras.
Kishinchand (Bellaram) (India) Ltd.—3 4, Godown St., Madras 1.
Kishindas Bros.—9 20, Godown St., Madras 1.
Kishinlal Hoopchand & Co.—27, Godown St., Madras 1.
Kola Venkata Ramannujulu Chetty & Co.—37, Godown St., Madras 1.
Krishna & Co.—243 44, N.S.C. Rose Road, Madras 1.
Kumar Bros.—2 5, Godown St., Madras 1.
Kundanmali & Sons—43, Rattan Bazar, Madras 3.
Lachhmandas & Sons—52, Godown Street, Madras 1.
Lala Gopikrishna Gokuldas—114, Mint Street, Madras 1.
Lekhraj & Sons—25, Godown St., Madras.
M. H. Narasimulu & Co.—65 66, Godown Street, Madras 1.
Maddala Theperumal Chetty & Co.—3 20, Godown Street, Madras 1.
Madras Novelty Stores—268, N.S.C. Rose Road, Madras 1.
Madras Overseas Traders—49, Godown St., Madras 1.
Madura South India Corporation (Private) Ltd.—80, Sembudosa St., Madras 1.
Manickya Stores—Rock Fort Gate, Teppakulam, Tiruchirappally.
Mehta Brother—2 67, Godown St., Madras 1.
Mohini Stores—1 47, Rattan Bazar, Madras 3.
Munuswamy Chetty & Co., D—6, Godown St., Madras 1.
N. Valiram—3 28, Godown Street, Madras 1.
N. K. Jayaram & Co.—26, Godown St., Madras 1.
N. M. Narayanaswami Mudaliar & Son—69, Godown St., Madras 1.
Nallai Chinnaswamy Chetty & Sons—T Nagar, Madras 17.
Narandas & Co.—18-A, Godown St., Madras 1.
Narandas & Bros.—66, Godown Street, Madras 1.
Navaneeta Textiles—1/74, Godown St., Madras 1.
O. A. Arcemuga Mudaliar & Co.—59, Godown St., Madras 1.
P. Suryanarayana & Co.—75, Godown St., Madras 1.
P. T. V. Loganatha Mudaliar & Co.—1 20, Godown St., Madras 1.
Pala Muddukrishnanah & Co.—84, Godown St., Madras 1.
Parthasarathi Store—1 128, Purnaswalkam High Road, Madras 7.
Patel Brothers—7, Godown St., Madras 1.
Premraj Ganpatra & Co.—70, Godown Street, Madras 1.
Purshotham & Co., T.—15, Godown Street, Madras 1.
R. Doraiswamy Chetty & Co.—26, Godown St., Madras 1.
R. C. Kuppuswamy & Co.—23, Godown Street, Madras 1.
Radha Hameed & Co.—35, Godown St., Madras 1.
Radha & Sons—93, Godown St., Madras 1.
Rajendralal Bahayee—8, Godown Street, Madras 1.
Rajputana Trading House—100, Godown St., Madras 1.
Rama Emporium—71 72, Rattan Bazar, Madras 3.
Ramco Swadehals—28, Godown Street, Madras 1.
Ramdas & Co.—470, Mint St., Madras 3.
Rangiah Chetty & Co., J—16, Godown Street, Madras.
Rasiklal Ramanlal & Bros.—77, Godown St., Madras 1.
S. Meera Sahib & Bros.—19, Godown Street, Madras.
S. A. Nagair & Co.—26, Godown Street, Madras 1.
Sainath & Co. (Private) Ltd.—17/18, Broadway, Madras 1.
Sami Venkatachalam Chetty & Co.—58, Thyagaraya Road, T. Nagar, Madras 17.
Sampathraj Jain & Co.—73, Godown St., Madras 1.
Sarabhai & Co.—65 66, Godown St., Madras 1.
Saraswati Devi Textiles—73, Godown Street, Madras 1.
Sarvodaya Howlers—3 4, Godown St., Madras 1.
Shah Jewanthraj & Co.—23, Godown St., Madras 1.
Shah Textile Agency—3 26, Godown Street (1st store), Madras 1.
Shantilal V. Parikh—5, Godown St., Madras 1.
Shunmugha Vilas—40-B, Gungu Reddy Road, Egmore, Madras 8.
Sik & Rayon Ltd.—61, Godown Street, Madras 1.
South India Textiles Agencies—100, Godown St., Madras 1.
Sri Andal Textiles—24-A, Godown St., Madras 1.
Sri Gopalakrishna Co.—20, Godown St., Madras 1.
Sri Ram Stores Ltd.—37, Pycrofta Road, Triplicane, Madras 5.
Sri Satyanarayana & Co.—91, Godown St., Madras 1.
Sri Venkataswara & Co.—3/34, Godown Street, Madras 1.
Sujan Singh Mehta & Co.—93, Godown St., Madras 1.
Swami Agencies—23, Godown St., Madras 1.
T. R. Krishna Chetty & Son—41, Godown St., Madras 1.
Textiles of India—100, Godown St., Madras 1.
Thakurdas Chaitram Bros.—1/1, Godown St., Madras.
Thallam Veeralah Chetty & Sons—4 67, Godown St., Madras 1.
The City Swadehali Emporium—355 56, N.S.C. Rose Road, Madras 1.
The General Stores—645, Pycrofta Road, Triplicane, Madras 5.
The General Trading Co.—69, Godown St., Madras 1.
The Indian Industrial Co. Ltd.—263, Esplanade, Madras.
The Modern Stores—31, Pycrofta Road, Triplicane, Madras 6.
The Modern Textile—44, Godown St., Madras 1.
Tulsiaram Pukhraj—4/26, Godown St., Madras 1.

V. Govinda Mudaliar & Sons—23, Jones Street, Mannady, Madras 1.
 V. N. V. Devarajulu Chetty & Co.—17-A, Godown Street, Madras 1.
 Valjee Kanjee & Co.—2 97, Godown Street, Madras 1.
 Vallabhadra Mathuradas & Co.—68, Godown Street, Madras 1.
 Varadarajulu Chetty & Co.—62, Godown Street, Madras 1.
 Vasane Textiles—105 107, Devaraja Mudali St., Madras 3.
 Venkatah Trading Corporation—2/23, Godown St., Madras 1.
 Voora Venkatesaperumal & Co.—2/35, Godown St., Madras 1.
 Yusuf Salt & Sons—Big Bazar, Tiruchirappally.

PIPES AND PIPE FITTING MERCHANTS

Aminchand Payerelal—27, Sembudasa Street, Madras 1.
 East Asiatic Co. (India) Ltd.—Mercantile Bank Building, First Line Beach, Madras 1.
 Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
 Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras 1.
 Hassanal, A. M., & Co.—34, Linghi Chetty Street, Madras 1.
 Phone: 2862. Grams: "BRILLIANT."
 Heatly & Gresham Ltd.—United India Building, Esplanade, Madras 1.
 Murilimal Santram & Co. (Madras) Ltd.—13, Sembudasa Street, Madras 1.
 Rameshchandra Santram—16, Sembudasa Street, Madras 1.
 Richardson & Crutcher Ltd.—First Line Beach, Madras 1.
 South India Export Co., Ltd.—5, Melan Street, Madras 1.

PLASTICS (IMPORT)

Beardell, W. A. & Co., Ltd.—Second Line Beach, Madras 1.
 Bombay Co., Ltd.—169, Broadway, Madras 1.
 Imperial Chemical Industries (India) Ltd.—Springhaven Road, "The Harbour", Madras.
 May & Baker (India) Ltd.—Purshotham Building, 103, Mount Road, Madras 2.
 Philips Electrical Co. (India) Ltd.—Mount Road, Madras 2.

PLYWOOD MERCHANTS

Best & Co., Ltd.—First Line Beach, Madras 1.
 Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
 C. Cunniah & Co.—248/249, Devaraja Mudali Street, Madras 3.
 D. Ramanujiah & Sons—230, Devaraja Mudali Street, Madras 3.
 K. R. N. Sreenivasiah & Sons—169, Devaraja Mudali Street, Madras 3.
 McDowell & Co., Ltd.—Second Line Beach, Madras 1.
 P. N. Balu Chetty & Sons—238/239, Devaraja Mudali Street, Madras 2.
 P. Thiruvangiah & Sons—172, Devaraja Mudali Street, Madras 3.
 R. Ethirajiah & Sons—103, Devaraja Mudali Street, Madras 3.
 R. Ramanujiah & Sons—101, Devaraja Mudali Street, Madras 3.

POWER STATION EQUIPMENT

Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
 General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
 Graves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
 Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
 Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
 Voltas Ltd.—115/116, Armenian Street, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

PRINTING PRESS MATERIALS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
 Beardell, W. A. & Co., Ltd.—Second Line Beach, Madras 1.
 Charles Morgan & Co., Ltd.—314/315, Linghi Chetty Street, Madras 1.
EAST ASIATIC COMPANY (INDIA) PRIVATE LTD., THE.—
 Machine & Engineering Dept., Bharat Bldg., Mount Road, Madras 2; Phone: 86031/2; Grams: "MANDARIN"; P.O. Box No. 148.
 Gordon Woodroffe & Co. (Madras) Ltd.—1/21, First Line Beach, Madras 1.
 Hoogly Ink Mfg. Co., Ltd.—Rundalla Road, Madras.
 Jaya Bharatham Co.—Phillips Street, Madras 1.
 Krishna Vent Inks—141, Govindappa Naick Street, Madras 1.
 New Star & Co.—15/16, B. Vaidyanatha Mudali Street, Madras.
 South India Export Co., Ltd.—5, Melan Street, Madras 1.

PROCESS BLOCK MAKERS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
 Bharat Studio—Opp. Mount Road Post Office, Madras 2.
 Newton & Co.—80, Wallajah Road, Mount Road, Madras 2.
 "The Hindu"—Mount Road, Madras 2.
 "The Mail"—Mount Road, Madras 2.

PROVISION MERCHANTS

Adam Hajee Peer Mohamed Essack—Anderson St., Madras.
 Arumugam Chettiar, N.—Kongalamman Koll Street, Erode.
 Arumugam Chettiar & Co., S.—Kongalamman Koll Street, Erode.
 Asan Mohd. Bowther—Bangiah Gowder Street, Coimbatore.
 Ayyaswami Mudaliar, B.—Netaji Road, Erode.
 Balakrishna Chettiar & Sons, K. S.—R. G. Street, Coimbatore.
 Cambodia Mills Employees' Co-operative Stores—Singanur.
 Coimbatore Co-operative Stores and Bank Ltd.—Coimbatore.
 Co-operative Stores—Arni (North Arcot Dist.).
 Co-operative Loans and Sale Society, Sanadhy Stores—Tiruvannamalai (North Arcot Dist.).
 Damodava Mudaliar, D.—Tirupattur (North Arcot Dist.).
 Dasappa Chetty, T.S.—Jail Road, Coimbatore.
 Dhanalakshmi Mills Co-operative Stores—Uthukuli Road, Coimbatore.
 East Asiatic Co. (India) Private Ltd.—First Line Beach, Madras.
 Kasturi Mills Co-operative Stores—Irugun (Coimbatore).
 Krishnaswami Chettiar & Sons, P.—Chithode, Coimbatore.
 Kunvaraswamy Chettiar & Co., R.K.E.—Palladam Road, Tiruppur.
 Mudis Co-operative Stores, Ltd., The—Mudis (Coimbatore).
 Nathamuni Naidu & Sons, A.S.—Katpadi (North Arcot Dist.).
 North Arcot District Co-operative Stores Ltd., The—14, Officers Line, Vellore.
 Paramasiva Mudaliar & Sons, S.—Main Bazar, Vellore (North Arcot Dist.).
 Parthasarathy Mudaliar—101, Acharappan St., Madras.
 Spencer & Co., Ltd.—1/153, Mount Road, Madras 1.
 Tiruvannamalai Co-operative Stores—Tiruvannamalai (North Arcot Dist.).
 Vaniyambadi Co-operative Stores, The—Vaniyambadi (North Arcot Dist.).
 Vellore Co-operative Stores, The—Marakadal Street, Vellore.

PULSES

Appah & Co.—286, Netaji Subhas Chandra Bose Road, Madras.
 Arumugha Nair & Sons, V.S.—225, Tiruvottiyur High Road, Washermanpet, Madras.
 Balakrishna Chetty, M.S.—1/3, Acharappan Street, Madras.
 Bhavanjee & Co.—72, Mint Street, Madras.
 Chandraprakasa Nadar, V.—17, Kaimandapan Road, Madras.
 Chidambara Nadar, S.K.—26, Bala Arunachala Chetty Street, Madras.
 Diravijaya Nadar & Bros., P.K.P.—14, Singara Garden Seventh Lane, Washermanpet, Madras.
 Dwarakadas & Co.—5, Anderson St., Madras.
 Ganapathy Nadar, T.V.—9, Madaswamy Nadar Street, Washermanpet, Madras.
 Hemraj Sunderias—156, Anderson St., Madras.
 Indukoor Ramiah Chetty—97, Acharappan St., Madras.
 Lakshminarayana Chetty & Co., M.—10, Acharappan St., Madras.
 Madanji Devchand Ltd.—433, Mint St., Madras.
 Manickam Naidu, P.—5 Acharappan St., Madras.
 Nammalwar Chetty & Sons, U.—8, Acharappan St., Madras.
 Palaniswamy Nadar, P.A.K.—29, Garden, 3rd Lane, Royapuram, Madras.
 Poonja Thakerees & Co.—75, Mint Street, Madras.
 Punnappa Nadar & Sons, V.A.S.M.—395, Tiruvottiyur High Road, Madras.
 Ratnaswamy Nadar & Bros., M.P.S.—10, Mandapam Road, Royapuram, Madras.
 Sampangi Chetty & Sons, M.—3-B, Acharappan St., Madras.
 Shanmughan & Co., V.V.—179, Govindappa Naicken St., Madras.
 Thiraviya Nadar & Bros., P.M.P.—7, Singara Garden, 3rd Lane, Washermanpet, Madras.
 Virji Daya & Co.—12, Damodara Mudali St., Madras.

PUMPS AND PUMPING SETS MANUFACTURERS AND DEALERS

Best & Co., Ltd.—First Line Beach, Madras 1.
 Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
 Brady, W. H. & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
 Chandra Foundries Ltd.—55, Basin Bridge Road, Washermanpet, Madras 21.
 Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
 General Electric Co. (India) Ltd.—Magnet House, Mount Road, Madras 2.
 Gordon Woodroffe & Co., Ltd.—1/21, North Beach Road, Madras 1.
 Graves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
 Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 1.
 Heatly & Gresham, Ltd.—United India Life Building, Esplanade, Madras 1.
 Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
 Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
 Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
 Massey Engineers—4B-4C, North Railway Terminus Road, Royapuram, Madras 13.

National Engineering Co. (Madras) Ltd., The—379, Netaji Subhas Chandra Bose Road, Madras 1.
 Parry & Co., Ltd.—“Dare House”, First Line Beach, Madras 1.
 P. Natesan (Industries) Ltd.—191, Triplicane High Road, Madras 5.
 Ralli India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
 Refrigerators & Home Appliances Ltd.—36, Mount Road, Madras 2.
 South India Export Co., Ltd.—5, McLean Street, Madras 1.
 Taylor, T. A. & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
 Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
 Voltas Ltd.—115/116, Armenian Street, Madras 1.
 Water Supply Specialists Ltd.—45, Thambi Chetty Street, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

PYROMETERS AND ALLIED INSTRUMENTS

Brady, W. H. & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
 Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
 Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
 Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

RADIO IMPORTERS, DEALERS & PART SUPPLIERS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
 Associated Electrical Industries (India) Ltd.—11/12, First Line Beach, Madras 1.
 Chicago Telephone & Radio Co., Ltd.—196, Mount Road, Madras 2.
 Electronic Service Company.—17-35, Mount Road, Madras 2.
 General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
 Madras Radio Company—3/105, Armenian Street, Madras 1.
 Mahomed Ebrahim & Co. Private Ltd.—Victory House, 7 and 8, Mount Road, Madras.
 Master Radio Co.—137/139, Rosappa Chetty Street, P. T., Madras.
 Orr, P. & Sons Ltd.—Mount Road, Madras 2.
 Philips Electrical Co. (India) Ltd.—Mount Road, Madras 2.
 Singh Trading Co.—Old Bossotto Bldg., 177/179, Mount Road, Madras.
 South India Export Co., Ltd.—5, McLean Street, Madras.
 Spencer & Co., Ltd.—Mount Road, Madras 2.
 Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.

RAILWAY SIGNALLING EQUIPMENT

Bombay Co., Ltd.—169, Broadway, Madras 1.
 Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
 Heatly & Gresham Ltd.—United India Bldg., Esplanade, Madras 1.
 Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
 Parry & Co., Ltd.—“Dare House”, First Line Beach, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

RAILWAY EQUIPMENT—ELECTRICAL

Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
 Voltas Ltd.—115/116, Armenian Street, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

RAILWAY SIGNALLING EQUIPMENT

Associated Electrical Industries (India) Ltd.—11/12, First Line Beach, Madras 1.
 British Insulated Callender's Cables Ltd.—37, Second Line Beach, Madras 1.
 Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

REFRATORIES

Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
 Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
 Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.
 Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

REFRIGERATION EQUIPMENT

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
 Associated Electrical Industries (India) Ltd.—11/12, First Line Beach, Madras 1.
 Beardsell, W. A. & Co., Ltd.—Second Line Beach, Madras 1.
 Best & Co., Ltd.—First Line Beach, Madras 1.
 Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
 General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
 Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
 Parry & Co., Ltd.—“Dare House”, First Line Beach, Madras 1.

South India Export Co., Ltd.—5, McLean Street, Madras.
 Spencer & Co., Ltd.—Mount Road, Madras 2.
 Voltas Ltd.—115/116, Armenian Street.
 Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
 General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras.
 Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
 Philips Electrical Co. (India) Ltd.—Mount Road, Madras 2.
 Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
 Spencer & Co., Ltd.—Mount Road, Madras 2.

REPRESENTATIVES MANUFACTURERS

National Engineering Co. (Madras) Ltd., The—379, Netaji Subhas Chandra Bose Road, Madras 1.
 South India Corporation (Madras) Ltd.—2, Armenian Street, Madras 1.

RICE MILLS

Ambiga Rice & Flour Mill 125, Bazar Street, Tiruppur.
 Arunachalam Rice & Decortiating Factory—Tiruvannamalai (North Arcot Dist.).
 Chowdewari Rice & Flour Mill 41, Meia Street, Tiruppur.
 Dhana Lakshmi Rice Mill Tiruvettipuram.
 Dhana Lakshmi Rice Mill Tiruppur.
 Dhanadhyaya Rice & Decortiating Mills Arcot.
 Dinkar Rice & Decortiating Mills Arcot.
 Durga Parameswari Rice & Decortiating Factory 7, Chetty Street, Tiruv.
 Jaya Lakshmi Rice & Decortiating Factory Tiruppur.
 Kamala Rice & Flour Mills 66, Bazar Street, Tiruppur.
 Luga Bhavanam Rice & Decortiating Factory, Arni.
 Lakshmi Vilas Rice Mill, Cheyyar (North Arcot Dist.).
 Lakshmi Vilas Rice Mill, Tiruvannamalai (North Arcot Dist.).
 Mubarak Rice & Flour Mill Perambur.
 Sivaprakasam Mudaliar, K. T. Rice & Flour Mill 3-6, Club Road, Vaniyambadi (North Arcot Dist.).
 Sri Ananda Sataraja Rice Mill Tiruvettipuram.
 Sri Krishna Rice Mill Arni.
 Sri Ram Pumping Industrial Mills, Polur.
 Sri Srinivasa Raghavachari Rice Mill, Arcot.
 Venkataramana Rice Mill, Kannan Nagar, Arkonam.
 Venugopal Chettiar Rice Mill, Arkonam.

ROAD BUILDING MACHINERY

Amalgamations Private Ltd 202, Mount Road, Madras 2.
 Best & Co., Ltd. First Line Beach, Madras 1.
EAST ASIATIC COMPANY (INDIA) PRIVATE LTD., THE.—Machine & Engineering Dept., Bharat Bldg., Mount Road, Madras 2; Phone: 86021 2, Grams: “MANDARIN”; P.O. Box No. 146.
 Heatly & Gresham Ltd. United India Building, Esplanade, Madras.
 Larsen & Toubro Ltd 4/5, Club House Road, Mount Road, Madras 2.
 Marshall Sons & Co. (India) Ltd. Marshall Building, Second Line Beach, Madras 1.
 Voltas Ltd.—115/116, Armenian Street, Madras 1.
 William Jacks & Co., Ltd. National Bank of India Building, First Line Beach, Madras 1.

ROOFING MATERIALS

Best & Co., Ltd. —First Line Beach, Madras 1.
 Gordon Woodroffe & Co. (Madras) Ltd. —1/21, North Beach Road, Madras 1.
 Heatly & Gresham Ltd. —United India Building, Esplanade, Madras 1.
 Spencer & Co., Ltd. —Mount Road, Madras 2.
 William Jacks & Co., Ltd. —National Bank of India Building, First Line Beach, Madras 1.
 Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

ROPE AND ROPERIES

Best & Co., Ltd. —First Line Beach, Madras 1.
 Binny & Co. (Madras) Ltd. —7, Armenian Street, Madras 1.
 Brady, W. H. & Co., Ltd. —154/155, Pophams, Broadway, Madras 1.
 Gordon Woodroffe & Co. (Madras) Ltd. —1/21, North Beach Road, Madras 1.
 Roberts McLean & Co., Ltd. 200, Mount Road, Madras 2.
 South India Export Co., Ltd.—5, McLean Street, Madras.
 Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

ROPEWAYS AND ROPEWAYS CONSTRUCTION

Gillander's Arbutnot & Co., Ltd.—First Line Beach, Madras 1.
 Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

RUBBER GOODS MANUFACTURERS

Best & Co., Ltd.—First Line Beach, Madras 1.
 Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
 Bombay Co., Ltd.—169, Broadway, Madras.

Dunlop Rubber Co. (India) Ltd.—5, 6/29, Mount Road, Madras 2.
 Firestone Tyre & Rubber Co. (India) Ltd.—159, Mount Road, Madras 2.
 Giltlander's Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
 Goodyear Tyre & Rubber Co. India Ltd.—2, Patulloo Road, Madras 2.
 Healy & Gresham Ltd.—United India Building, Esplanade, Madras 1.
 Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
 Madras Rubber Factory.—2, Errabalu Chetty Street, G. T., Madras 1.
 Spencer & Co., Ltd.—Mount Road, Madras 2.

SANITARY ENGINEERS AND CONTRACTORS

King & Company.—321, Thambu Chetty Street, Madras 1.
 Murugappa & Sons.—Swastik House, Armenian Street, Madras 1.
 Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
 Venus & Company.—317, Thambu Chetty Street, Madras 1.
 Vilaya Trading Corporation—320, Thambu Chetty Street, G.T., Madras 1.

SANITARY-WARES AND FITTINGS

Giltlander's Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
 Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras 1.
 Murugappa & Sons.—Swastik House, Armenian Street.
 Parry & Co., Ltd.—"Dare House," First Line Beach, Madras.
 Richardson & Cruddas Ltd.—First Line Beach, Madras.
 Sanitary Sales & Service.—26, Thambu Chetty Street, Madras 1.
 Vernon & Co., Ltd.—36, Second Line Beach, Madras.

SCALES

Avery & Co., Ltd.—16/17, Armenian Street, Madras 1.
 General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras.
 Gordhand Desai & Co.—22, Linghi Chetty Street, Madras 1. Phone : 3644. Grams : "MICROSCOPY".
 Lawrence & Mayo (India) Ltd.—17, Mount Road, Madras 2.
 L. C. Hett & Co., Ltd.—30, Mount Road, Madras 2.
 Philips Electricals Co. (India) Ltd.—Mount Road, Madras 2.
 United Scientific Co.—9, Sunkurama Chetty Street, Madras 1.

SEWING THREAD MANUFACTURERS

Bombay Co., Ltd.—169, Broadway, Madras.
 Central Agency Ltd.—19, Vaniar Street, Madras 1.
 Giltlanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
 McDowell & Co., Ltd.—Second Line Beach, Madras.
 Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras.
 Spencer & Co., Ltd.—Mount Road, Madras 2.

SHIPPING AGENTS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
 Bombay Co., Ltd.—169, Broadway, Madras 1.
 F. X. Pereira & Sons—2/21, First Line Beach, Madras 1.
 Giltlanders Arbuthnot & Co., Ltd.—First Line Beach, Madras.
 Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras.
 Indian Steamship Co., Ltd.—16, First Line Beach, Madras.
 South Indian Export & Co., Ltd.—5, Mclean Street, Madras.
 Spencer & Co., Ltd.—Mount Road, Madras 2.
 United Liner Agencies of India, Ltd.—41, Mookernalla Muthu Street, Madras 1.
 Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

SIZING MATERIALS

Brady, W. H., & Co., Ltd.—154/155, Pophams, Broadway, Madras.
 Bombay Co., Ltd.—169, Broadway, Madras 1.

SOAP MANUFACTURERS

Best & Co., Ltd.—First Line Beach, Madras 1.
 East Asiatic Co. (India) Ltd.—Mercantile Bank Building, First Line Beach, Madras 1.
 (GODREJ) Godrej Soap Private Ltd.—164, Broadway, Madras.
 Lever Brothers.—11/14, Armenian Street, Madras 1.
 Murali Traders—1st Lane, Lawyer C. Mudali Street, Madras 21.
 New Star & Co.—15/16-B, Venchattachala Mudali Street, Madras.

SPORTS GOODS DEALERS

Mehndru Sports.—188, Mount Road, Madras 2.
 Spencer & Co., Ltd.—Mount Road, Madras 2.
 Usherof Ltd.—Sports Specialists, 22, Mount Road, Madras 2.

STATIONERY GOODS (IMPORT)

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
 Charles Morgan & Co., Ltd.—314/315, Linghi Chetty Street, Madras 1.
 Higginbothams Ltd.—Mount Road, Madras 2.
 McDowell & Co., Ltd.—Second Line Beach, Madras.

Spencer & Co., Ltd.—Mount Road, Madras 2.
 Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
 Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

STEAM GENERATING PLANT

Kasun Engineering Co., Ltd.—5/7, Second Line Beach, Madras.
 General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
 Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

STEAM TRAPS AND VALVES

Best & Co., Ltd.—First Line Beach, Madras 1.
 Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
 Brady, W. H., & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
 Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
 Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
 South India Export Co., Ltd.—5, Mclean Street, Madras 1.

STEEL WINDOWS

GODREJ, Godrej & Boyce Mfg. Co., Private Ltd.—177 & 179, Mount Road, Madras.

STEEL WIRE ROPES

Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras.
 Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
 South India Export Co., Ltd.—5, Mclean Street, Madras.
 Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
 Verudu & Co., Ltd.—36, Second Line Beach, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

STONE CRUSHERS

Best & Co., Ltd.—First Line Beach, Madras 1.
 East Asiatic Co. (India) Ltd.—Mercantile Bank Building, First Line Beach, Madras.
 Healy & Gresham Ltd.—United India Building, Esplanade, Madras 1.
 Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras.
 Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

SURGICAL INSTRUMENTS AND APPLIANCES

Bombay Surgical Equipment Co.—8, Sunkurama Chetty Street, Madras 1.
 East Asiatic Co. of India Ltd.—Mercantile Bank Building, First Line Beach, Madras 1.
 Giltlanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
 Hale & Co.—Hale Mansions, 192, Poonawallau High Road, Vepery, Madras 7.
 National Surgical & Eng. Works.—187, Mount Road, Madras 2.
 Pikey's Medico Surgical.—199, Mount Road, Madras 2.

TALLOW IMPORTERS & DEALERS

Beardsell, W. A., & Co., Ltd.—First Line Beach, Madras 1.
 Best & Co., Ltd.—First Line Beach, Madras 1.
 Bombay Co., Ltd.—169, Broadway, Madras 1.
 East Asiatic Co. of India Ltd.—Mercantile Bank Building, First Line Beach, Madras 1.
 Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
 Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
 Robert Mclean & Co., Ltd.—200, Mount Road, Madras 1.
 Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.

TANNING MATERIAL DEALERS & IMPORTERS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
 Beardsell, W. A., & Co., Ltd.—Second Line Beach, Madras 1.
 Imperial Chemical Industries (India) Ltd.—Springhaven Road, "The Harbour", Madras.
 K. H. Chambers Ltd.—Lecots Building, Madras 1.
 Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
 Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
 South India Export Co., Ltd.—5, Mclean Street, Madras.

TEA (EXPORT)

Bombay & Co., Ltd.—169, Broadway, Madras 1.
 Lipton Ltd.—129, Moore Street, Madras.
 Spencer & Co., Ltd.—Mount Road, Madras 2.
 Wilson & Co.—North Railway Terminus Road, Royapuram.

TELE-COMMUNICATION EQUIPMENT

Chicago Telephone & Radio Co., Ltd.—198, Mount Road, Madras 2.
General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
Westrex Company India (formerly Western Electric Co. of India).—35, Mount Road, Madras 2.

TEXTILE ENGINEERS AND MACHINERY DEALERS

Brady, W. H., & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras.
Roberts Mclean & Co., Ltd.—200, Mount Road, Madras 2.
Voltas Ltd.—115/116, Armenian Street, Madras 1.

TEXTILES (IMPORT)

Beardsell, W. A., & Co., Ltd.—8, Second Line Beach, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras 1.
Dhanamal Silk Mills.—Godown Street, Madras.
Gunamal & Co.—Godown Street, Madras.
Hariram Kitchand.—Godown Street, Madras.
Isaardas & Sons.—Godown Street, Madras.
Kishinchand Chellaram.—Ruttan Bazar, Madras.
Lekhray & Sons.—Godown Street, Madras.
Louis Dreyfus & Co., Ltd.—99, Armenian Street, Madras.
N. Valliram.—Godown Street, Madras.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
Shewaram Valliram.—Godown Street, Madras.
Spencer & Co., Ltd.—Mount Road, Madras 2.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

TEXTILES (PIECE-GOODS, ETC. MERCHANTS)

Alathoor Abboy Chetty & Co. 34, Godown Street, Madras 1.
Arlrie Silk House.—5, Sanuadhi Street, Mylapore, Madras 4.
B. Jwalanarasimham.—52, Godown Street, Madras 1.
B. Madura Chetty & Sons.—52, Godown Street, Madras 1.
Bharathi Mart Ltd.—309/71, N. S. C. Bose Road, Madras 1.
C. Janakiah Chetty & Sons.—33, Godown Street, Madras 1.
C. Moosuwamy Chetty & Co.—60, Godown Street, Madras 1.
C. Subrahmanyam Chetty & Co.—53, Landers Gate Road, Madras 7.
East Coast Commercial Syndicate.—99, Armenian Street, Madras 1.
G. K. Doraiswami Naidu.—29, Godown Street, Madras 1.
Geetha & Co. 63, Godown Street, Madras 1.
Govindas Jumnadas & Co.—229, N. S. C. Bose Road, Madras 1.
India Silk House.—192, Mount Road, Madras 2. Phone: 86523.
Indian Industrial Co., Ltd.—363, N. S. C. Bose Road, Madras 1.
J. Ramiah Chetty & Co.—16, Godown Street, Madras 1.
K. Chellapillay Chetty & Co. 85, Godown Street, Madras 1.
Keeasavaram & Co.—1/287, N. S. C. Bose Road, Madras 1.
Kothari Textiles Ltd. Oriental Bldg., Armenian Street, Madras 1.
Krishna & Co.—243/4, N. S. C. Bose Road, Madras 1.
M. V. Cuniah Chetty & Co.—18, Kasi Chetty Street, Madras 1.
Madras Textiles Co.—100, Godown Street, Madras 1.
P. Krishnaswamy Chetty.—93, Godown Street, Madras 1.
P. R. Nawarwalwar 148, Poonawalla High Road, Madras 10.
R. C. Kuppuswamy & Co.—23, Godown Street, Madras 1.
Sri Balasubram & Co.—23, Arumuga Mudali Street, Madras 21.
T. Purushotham & Co.—15, Godown Street, Madras 1.
T. S. Annamall Chetty & Co.—3/10, Godown Street, Madras 1.
V. N. V. Devanajulu Chetty & Co.—17-A, Godown Street, Madras 1.
V. V. Chenghli Chetty & Co.—1/5, Godown Street, Madras 1.

TIMBER MERCHANTS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Bombay Co., Ltd. 169, Broadway, Madras 1.
B. Rama Rao & Co.—84, Sydenhams Road, Madras 7.
Ch. Daplah & N. Narasimhlay.—Sydenhams Road, Madras 7.
East Asiatic Co. (India) Ltd.—Mercantile Bank Building, First Line Beach, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
M. Sundersanalu Iyengar & Sons.—22/16, Linghi Chetty Street, Madras 1.
Murugappa & Sons—Armenian Street, Madras 1.
Palott Abdul Azeez & Co.—74, Sydenhams Road, Madras 3.
Parachuru Subramayam—110, Sydenhams Road, Madras 7.
R. S. Gopu Ramchandra Rao S. & Sons.—99-A, Sydenhams Road, Madras 7.
Satyanarayan Timber Depot—100, Sydenhams Road, Madras 7.
Shaw Wallace & Co., Ltd.—8/9, Thambu Chetty Street, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.
Sree Venkateswara Timber Depot—84, Sydenhams Road, Madras 7.
Srinivasa Timber Depot—Sydenhams Road, Madras 7.
United Timber Traders—8-A, Sydenhams Gardens & 84, Sydenhams Road, Madras 7.

TIN BOX MANUFACTURERS

THE METAL BOX COMPANY OF INDIA LIMITED.—Elaiya Medall Street, Tondiarpet, Madras 21. (For details of Products manufactured see page 1000).

TOBACCO

A. Abdul Karim & Co.—55, Basin Bridge Road, Madras 21.
Chanta Seeshiah.—Pandapari, Dist. Guntur.
Chari & Chari Private Ltd. 26, Second Line Beach, Madras.
East Asiatic Co. (India) Ltd.—Mercantile Bank Bldg., First Line Beach, Madras.
Garapati Venkataratnam & Co. Chikakaluripet, Guntur Dist.
Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras.
Guntur Tobacco Ltd., The.—26, Second Line Beach, Madras.
Imperial Tobacco Co. of India Ltd. 150-B, Mount Road, Madras 2.
Indian Tobacco Corporation. 2115, Dr. Guruswami Mudaliar Road, Madras 10.
Kasarapalli Anganeyulu 36, Varada Muthiappan Street, Madras.
Koppuravuri Venkateswarlu Guntur.
Kotla Subba Rao, Chikakaluripet, Dist. Guntur.
M. Venkata Kotiah & Co.—Guntur.
McDowell & Co. Ltd. 2115, Dr. Guruswami Mudaliar Road, Madras 10.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
Salt & Rahim Beedi Factory. 60, Perambur High Road, Madras 12.
Spencer & Co. Ltd. Mount Road, Madras.
Sree Jayakshmi Tobacco Co.—Tadikonda, Guntur Dist.
Sri Kasivawesa Tobacco Co. Guntur.
Tadikonda Ramulu Tobacco Co. Guntur.

TOILET REQUISITES (IMPORT AND MANUFACTURE)

Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.

TOILETRIES

GODFREY, Godrej Soaps Private Ltd.—164, Broadway, Madras.

TOOLS (MACHINE, ELECTRIC AND PNEUMATIC)

Amalgamations Private Ltd. 202, Mount Road, Madras 2.
Bombay Co., Ltd. 169, Broadway, Madras 1.

EAST ASIATIC COMPANY (INDIA) PRIVATE LTD., THE.—Machine & Engineering Dept., Bharat Bldg., Mount Road, Madras 2; Phone: 86021 2; Grams: "MANDARIN". P.O. Box No. 146.

Easton Engineering Co., Ltd.—57, Second Line Beach, Madras 1.
General Electric Co. of India Ltd. Magnet House, Mount Road, Madras 2.
Greaves Cotton & Co., Ltd. 19, Second Line Beach, Madras 1.
Guest, Keen, Williams Ltd. 202, Mount Road, Madras 2.
Hamannally, A. M., & Co.—34, Linghi Chetty Street, Madras 1.
Heathly & Greshams Ltd. United India Bldg., Esplanade, Madras 1.
Larsen & Toubro Ltd. 45, Club House Rd., Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd. Marshall Building, Second Line Beach, Madras 1.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
Parry & Co., Ltd. "Dare House," First Line Beach, Madras 1.
Rallis India Ltd. Ralli House, 320, Linghi Chetty Street, Madras 1.
Richardson & Cruddas Ltd. First Line Beach, Madras 1.
Taylor, T. A., & Co. (Madras) Ltd. 100, Armenian Street, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

TRACTORS, BULLDOZERS, ETC.

Bharat Motors.—35, Mount Road, Madras 2. Phone: 86501. Grams: "BHARATCARS."
Easton Engineering Co., Ltd. 57, Second Line Beach, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd. 1/21, North Beach Road, Madras.
Larsen & Toubro Ltd. 45, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd. Marshall Building, Second Line Beach, Madras 1.
National Engineering Co. (Madras) Ltd., The.—379, Netaji Subhas Chandra Bose Road, Madras 1.
Parry & Co., Ltd. "Dare House," First Line Beach, Madras 1.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

TRANSFORMERS

Associated Electrical Industries (India) Private Ltd.—11/12, First Line Beach, Madras.

TRAVEL AGENTS

Bharat Travel Service Ltd.—310/311, Linghi Chetty Street, Madras 1.
 Cook & Son Ltd., Thos.—4/5, First Line Beach, Madras.
 Parry & Co., Ltd.—Agents for Cox & Kings (Agents) Ltd.—“Dare House”, First Line Beach, Madras.
 Ram Mohan & Co., Ltd.—302, Netaji Bose Road, Madras 1.
 Sheril Travel and Cargo Service Ltd.—34, Second Line Beach, Madras 1.
 South India Export Co., Ltd.—5, Mclean Street, Madras 1.
 Spencer & Co., Ltd.—Mount Road, Madras 2.

TURBINES

Associated Electrical Industries (India) Ltd.—11/12, First Line Beach, Madras 1.
 Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
 General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
 Guest, Keen, Williams Ltd.—202, Mount Road, Madras 2.
 Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
 Parry & Co., Ltd.—“Dare House”, First Line Beach, Madras 1.
 Voltas Ltd.—115/116, Armenian Street, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

TURBINES (STEAM)

Best & Co., Ltd.—First Line Beach, Madras 1.
 Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
 General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
 Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
 Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
 Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras.
 Voltas Ltd.—115/116, Armenian Street, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

TWINE AND STRING

Beardall, W. A., & Co., Ltd.—Second Line Beach, Madras 1.
 Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras.
 Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
 R. Kuppaswamy Chetty & Son.—17, Ramannan Road, Sowcarpet Post, U. T., Madras 1.

TYPEWRITERS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
 Blackwoods (India) Ltd.—2/20, Mount Road, Madras 2.
 GODFREY, Godrej & Boyce Mfg. Co., Private Ltd.—177 & 179, Mount Road, Madras.
 Latham Abercrombie & Co., Ltd.—330, Thambu Chetty Street, Madras 1.
 Rayala Corporation (Madras) Ltd.—“Rayala Bldg.”, 1/155, Mount Road, Madras 2.
 Remington Rand of India Ltd.—12/35, Khaleel Mansions Mount Road, Madras 2.
 Typewriters & Office Appliances Co. (India) Ltd.—17, Armenian Street, Madras 1.
 Underwood Typewriters.—2/20, Mount Road, Madras 2.
 Voltas Ltd.—115/116, Armenian Street, Madras 1.

TYRE AND TUBES

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
 Dunlop Rubber Co. (India) Ltd.—5 & 6/29, Mount Road, Madras 2.
 Firestone Tyre & Rubber Co. of India Ltd.—159, Mount Road, Madras 2.
 Goodyear Tyre & Rubber Co. of India Ltd.—2, Patullos Road, Madras 2.
 India Tyre & Rubber Co. (India) Ltd.—150-B, Mount Road, Madras 2.

VEE BELTS

Best & Co., Ltd.—First Line Beach, Madras 1.
 Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
 Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
 Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras.
 Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras.
 Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
 Roberts, McLean & Co., Ltd.—200, Mount Road, Madras 2.
 Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
 Voltas Ltd.—115/116, Armenian Street, Madras 1.

VENTILATING EQUIPMENT

Best & Co., Ltd.—First Line Beach, Madras 1.
 General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.

Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras.
 Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
 Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
 Voltas Ltd.—115/116, Armenian Street, Madras 1.

WATCH & CLOCK IMPORTERS & DEALERS

Baram & Bros.—22, Linghi Chetty Street, Madras 1.
 Carat Watch Co.—4/188, Mount Road, Madras 2.
 E. A. Watch Co.—Battan Bazar, Madras 3.
 Gani & Sons.—55, Battan Bazar, Madras 3.
 Jalal & Sons.—46, Battan Bazar, Madras 3.
 P. Orr & Sons Ltd.—Mount Road, Madras 2.
 R. C. & Co.—107, Netaji Road, Madras 1.

WATERPROOF COMPOUNDS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
 Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
 Bombay Co., Ltd.—169, Broadway, Madras.
 Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
 Heatly & Gresham Ltd.—United India Building, Esplanade, Madras 1.
 South India Export Co., Ltd.—5, Mclean Street, Madras.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.
 Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

WATER PURIFICATION PLANT

Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
 Larsen & Toubro Ltd.—4/5, Club House Road, Madras 2.
 Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
 South India Export Co., Ltd.—5, Mclean Street, Madras.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

WEIGHING MACHINES

Avery Co., Ltd.—16/17, Armenian Street, Madras 1.
 Gordon Woodroffe & Co. (Madras) Ltd.—1/21, First Line Beach, Madras 1.
 Heatly & Gresham Ltd.—United India Building, Esplanade, Madras 1.
 McDowell & Co., Ltd.—Second Line Beach, Madras 1.
 Spencer & Co., Ltd.—Mount Road, Madras 2.
 Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.

WELDING SETS AND MATERIALS

EAST ASIATIC COMPANY (INDIA) PRIVATE LTD., THE.—
 Machine & Engineering Dept., Bharat Bldg., Mount Road, Madras 2; Phone: 66021/3; Grams: “MANDARIN”, P.O. Box No. 146.
 General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
 Gordon Woodroffe & Co. (Madras) Ltd.—1/21, First Line Beach, Madras 1.
 Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
 Indian Oxygen & Acetylene Co., Ltd.—7, Valthianatha Mudali Street, Tondiarpet, Madras 21.
 Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
 Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
 Voltas Ltd.—115/116, Armenian Street, Madras 1.
 William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

WINE AND SPIRIT MERCHANTS

Harrisons & Company.—Broadway, Madras 1.
 Parry & Co., Ltd.—“Dare House”, Madras 1.
 Phipson & Co., Ltd.—169, Broadway, Madras 1.
 Prince & Company.—40, Raja Annamalai Chettiar Road, Madras 7.
 Puroshotham & Co. (T.V.).—Mount Road, Madras.
 Shaw Wallace & Co., Ltd.—8/9, Thambu Chetty Street, Madras 1.
 Spencer & Co., Ltd.—1/153, Mount Road, Madras.
 Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
 Wilson & Co.—North Railway Terminus Road, Madras 13.

WIRE AND WIRE PRODUCTS

Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
 Bombay Co., Ltd.—169, Broadway, Madras.
 Chambers, K. H., Ltd.—Lecota Building, Madras.
 Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras 1.
 Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 1.
 Heatly & Gresham Ltd.—United India Building, Esplanade, Madras 1.
 McDowell & Co., Ltd.—Second Line Beach, Madras.

WOOD WORKING MACHINERY

EAST ASIATIC COMPANY (INDIA) PRIVATE LTD., THE.—
Machine & Engineering Dept., Bharat Bldg., Mount Road,
Madras 2; Phone: 88821/2; Grams: "MANDARIN"; P.O.
Box No. 146.

Easun Engineering Co., Ltd.—Second Line Beach, Madras 1.
Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2
Heatly & Gresham Ltd.—United India Building, Esplanade, Madras 1
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2
Marshall Sons & Co (India) Ltd.—Marshall Building, Second Line
Beach, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First
Line Beach, Madras 1.

WOOLLEN PIECE-GOODS (IMPORT)

Beardsell, W. A. & Co., Ltd.—Second Line Beach, Madras 1
Gordon Woodroffe & Co (Madras) Ltd.—1/21, North Beach Road,
Madras 1
Grahams Trading Co (India) Ltd.—311, Linghi Chetty Street,
Madras 1
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1
Spencer & Co., Ltd.—Mount Road, Madras 1

WORKSHOP EQUIPMENT

Amalgamations Private Ltd.—202, Mount Road, Madras 2
East Asiatic Co (India) Ltd.—Mercantile Bank Building, First
Line Beach, Madras 1
Easun Engineering Co., Ltd.—Second Line Beach, Madras 1

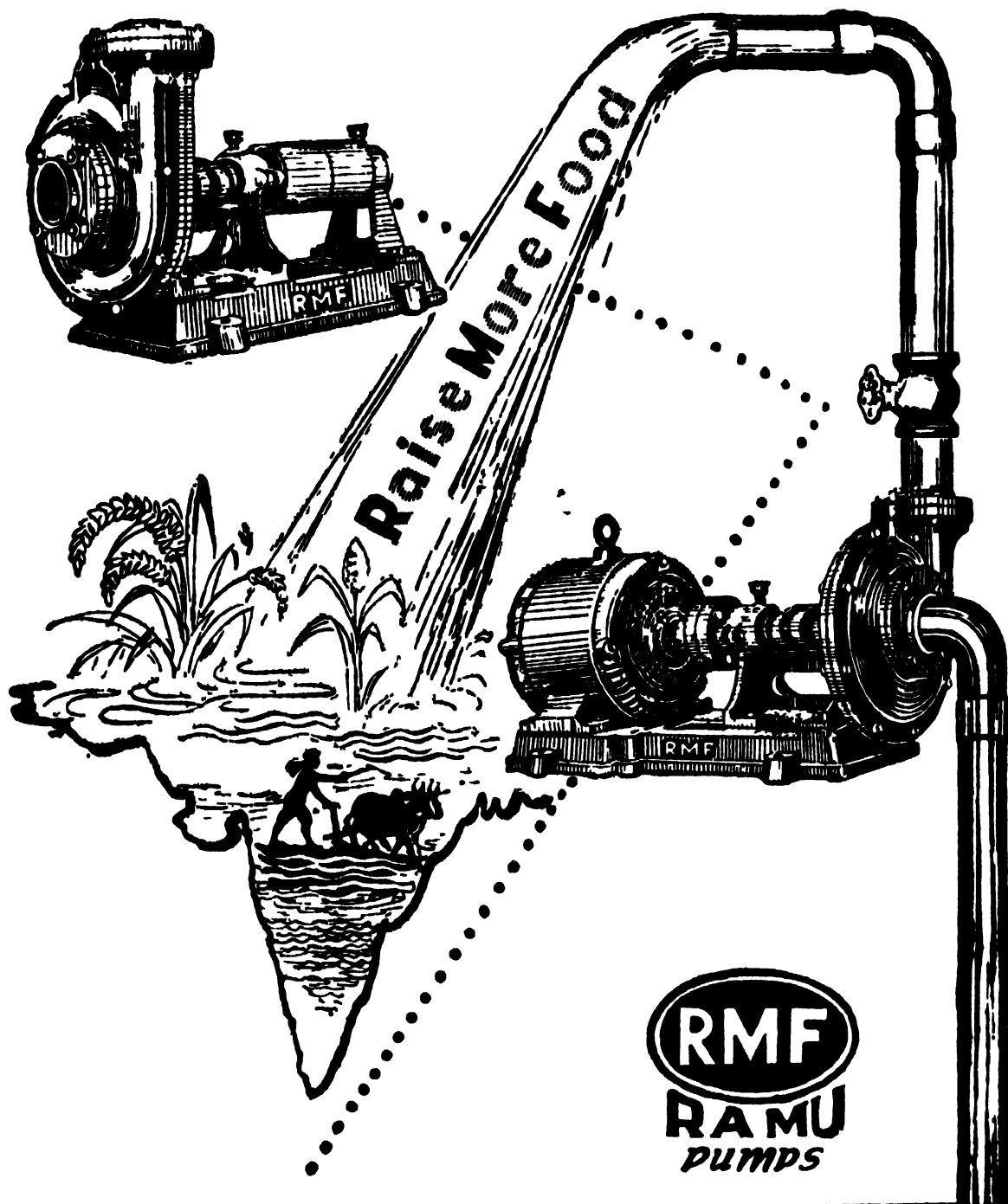
Heatly & Gresham Ltd.—United India Building, Esplanade, Madras 1.
Marshall Sons & Co (India) Ltd.—Marshall Building, Second Line
Beach, Madras 1
Parry & Co., Ltd.—"Dare House," First Line Beach, Madras 1
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
South India Export Co., Ltd.—5, Melean Street, Madras
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1
William Jacks & Co., Ltd.—National Bank of India Building, First
Line Beach, Madras 1

YARN MERCHANTS

Beardsell, W. A. & Co., Ltd.—Second Line Beach, Madras 1
Best & Co., Ltd.—First Line Beach, Madras 1
Bombay Co. Ltd.—160, Broadway, Madras 1
C. Ethirajiah & Co.—40, Mint Street, Madras 2
Gordon Woodroffe & Co (Madras) Ltd.—1/21, North Beach Road,
Madras 1
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1
Louis Dreyfus & Co., Ltd.—99, Armenian Street, Madras 1
Melbourn & Co. Ltd.—Second Line Beach, Madras
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1
Taylor, T. A. & Co (Madras) Ltd.—100, Armenian Street, Madras 1
V. Alwariah Chetty—118, Andappa Naidu Street, Madras 1
Volras Ltd.—115/116, Armenian Street, Madras 1
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras

YARN CONDITIONING AND TESTING MACHINES

Brady, W. H. & Co., Ltd.—154/155, P. S. S. Broadway, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1
Volras Ltd.—115/116, Armenian Street, Madras 1



PHONE : 246-A

GRAMS : IMPELLER

RAMU FOUNDRY

PAPPANAICKENPALAYAM

COIMBATORE-1

COMMERCIAL FIRMS

Aldul Wahab Rowther, Vysial Street, Coimbatore. Phone: 473. Grams: "JASMINE."

Acme Textile Auxiliaries, Trichy Road, Coimbatore.

Acme Textile Dyeing & Printing Industries, Mettupalayam Road, Coimbatore.

Addisons & Co. Ltd., Avanashi Road, Coimbatore. Phone: 79A.

All India General Insurance Co., Ltd., Trichy Road, Coimbatore.

Altex Limited, Avanashi Road, Coimbatore.

Argus Engineering Co., Ltd., Peelamedu, Coimbatore. Phone: 210.

Arian Soap Manufacturing Co., 6/43, B. Trichy Road, Coimbatore. Phone: 476.

Arva Valdia Pharmacy (Coimbatore) Ltd., Trichy Road, Coimbatore.

Asbestos Cement Ltd., Podanur, Coimbatore. Phone: 434A.

Asher Textiles Limited, Tirupur. Phone: 65.

Associated Automobiles Ltd., Avanashi Road, Coimbatore. Phone: 441.

Associated Cement Company Ltd., Madukkarai, Coimbatore. Phone: 36.

Avery Co., Ltd., Trichy Road, Coimbatore.

Balibol & Co., Avanashi Road, Coimbatore.

Bhujathi Pencil Factory, Perur, Coimbatore.

Brady & Co. Ltd., W. H. Jail Road, Coimbatore.

British Insulated Callender's Cables Ltd., Race Course Road, Coimbatore.

Broadway Engineering & Transport Co., 6/15, Old Post Office Road, Coimbatore.

Brooke Bond India Ltd., Krishnaswamy Mudaliar Road, P. O. Box 28, Coimbatore.

Caltex (India) Ltd., Avanashi Road, Coimbatore.

Carnatic Leather Industries, Big Bazar Street, Coimbatore.

Cement Marketing Co. of India Ltd., Race Course Road, Coimbatore.

Central Pharmacy, 33, St. Michael's Emporium, Big Bazar Street, Coimbatore.

City Camera House, 12 8-9, Variety Hall Road, Coimbatore.

Coimbatore Chemicals & Fertilisers Ltd., Vysial Street, Coimbatore.

Coimbatore Co-operative Printing Press, Imperial Bank Road, Coimbatore.

Coimbatore Machinery & Metal Mart, Fraser Square, Coimbatore.

Coimbatore Mill Stores & General Supplies Co., Avanashi Road, Coimbatore.

Coimbatore Premier Corporation Ltd., 5/34, Avanashi Road, Coimbatore.

Cotton Textiles Ltd., Mal Mill Road, Coimbatore.

Crompton Engineering Co. (Madras) Ltd., Arts College Road, Coimbatore.

Crown Leather Works, Nawab Hakeem Road, Coimbatore.

Deccan Fertilisers Co. (Coimbatore) Ltd., Oppanakara Street, Coimbatore.

D. S. V. & Sons, Avanashi Road, Coimbatore.

Eastern Electrical Co., Ltd., Singanallur, Coimbatore.

Electric Printing Works, Variety Hall Road, Coimbatore.

Electrical & General Supply Ltd., Avanashi Road, Coimbatore.

Express Newspapers Ltd. (Branch Office), Variety Hall Road, Coimbatore.

Farm Equipments Ltd., Ganapathy, Coimbatore.

Feroke Timber & Tiles Co., Mettupalayam Road, Coimbatore.

Gannon Dunkerley & Co., Ltd., Cross-cut Road, Coimbatore.

Garlick & Co. Ltd., Cox Street, Coimbatore. General Electric Co. of India Ltd., "Magnet House," Avanashi Road, Coimbatore.

George Onkes Ltd., Avanashi Road, Coimbatore.

Gordon Woodroffe & Co. (Madras) Ltd., Fraser Square, Coimbatore.

Hardware & Machinery Marketing (India) Co., 5/4, Head Quarters Office Road, Coimbatore.

H. M. Mehta & Co., Cox Street, Coimbatore.

Hollo Block Manufacturing Co., Ltd., Madukkarai, Coimbatore.

India Hume Pipe Co. Ltd., Ranganatha puram, Coimbatore.

India Metal & Alloys, Fraser Square, Coimbatore.

Indian Cashewnuts & Plantations Ltd. (Managing Agents, T. Stanes & Co. Ltd.), Coimbatore (South India).

Indian Overseas Trading Co., Ltd., Power House Road, Coimbatore.

Indra Process Studio, Oppanakara Street, Coimbatore.

Industrial Engineering Co., Fraser Square, Coimbatore.

Industrial Engineering Stores, Avanashi Road, Coimbatore.

International Industries & Agencies Ltd., Avanashi Road, Coimbatore.

Jayems Engineering Co., Oppanakara Street, Coimbatore.

Jaya Button Industries Ltd., Cross-cut Road, Coimbatore.

Johar & Sons, Trichy Road, Coimbatore.

Kanji Dwarakdas & Bros., Rangan Gowler Street, Coimbatore.

Kannappan Corporation Ltd., Mill Road, Coimbatore.

Kasturi Engineers Ltd., Avanashi Road, P. O. Box 231, Coimbatore.

Kilacand Devchand & Co. Ltd., Grey Town, Coimbatore.

Kirtulal Kalidas & Co., 230, Raja Street, P. O. Box No. 32, Coimbatore.

K. Mohamed Ibrahim Rowther, Vysial Street, Coimbatore.

K. P. Castor Oil Works, Sambanda Mudaliar Road, R. S. Puram, Coimbatore.

Kotak & Company, Cotton Merchants, R. S. Puram, Coimbatore. Phone: 401. Grams: "KOTAKANDCO."

L. P. Krishnaswamy Naidu & Bros., Fraser Square, Coimbatore.

M. Abdul Fa'im Bros., Oppanakara Street, Coimbatore.

Madras Trading Corporation, 14/116 Oppanakara Street, Coimbatore.

Manan & Co., E. P. B., 5/34, Avanashi Road, Coimbatore.

Mecano Floorings Ltd., Sirdar Patel Road, Coimbatore.

Mettur Fertilisers Co., Ltd., R. S. Puram, Coimbatore.

Modi & Modi, Police Head Quarters Road, Coimbatore.

Morariji Ramji & Co., 8/8, Cox Street, Coimbatore (South India).

Mouli & Sons, Cross-cut Road, Coimbatore.

M. T. Rajan & Co., Avanashi Road, Coimbatore.

Murugappa & Sons, Cotton Merchants, Raja Street, Coimbatore.

Nagindas Kilabhai (South India) Ltd., Cox Street, Coimbatore.

Nanco Rubber & Plastics Ltd., A. T. T. Colony, Coimbatore.

Needlex Industries (India) Ltd., Post Box No. 12, Coimbatore.

N. Mohamed Abdul Kader & Son, Big Bazar Street, Coimbatore.

P. A. Raju Chettiar & Brother, "Swarna Maligai," Big Bazar Street, Coimbatore.

Perry & Co. Ltd., Fraser Square, Coimbatore.

Patel Cotton Co., Ltd., Avanashi Road, Coimbatore.

Pierce Leslie & Co. Ltd., Race Course Road, Coimbatore.

Pioneer Fire & General Insurance Co., Ltd., Jail Road, Coimbatore.

Press Trust of India Ltd., Anasari Street, Coimbatore. Phone: 54.

Prithvi Insurance Co. Ltd., R. S. Puram, Coimbatore.

P. S. G. Industrial Institute, Peelamedu, P. O., Coimbatore.

R. Ramalingaiah & Bros., Paper and Board Merchants, Raja Street, Coimbatore. Phone: 411. Grams: "RENGSINS."

Radio House, Radio Sales & Service, Avanashi Road, Coimbatore.

Rainbow Dyeing & Bleaching Works, Chinnappa Chetty Street, Coimbatore.

Ralls India Ltd., Avanashi Road, Coimbatore.

Ramakrishna Industrial Ltd., Avanashi Road, Coimbatore.

Ramu Foundry, Pappanackkenpalayam, Coimbatore. Phone: 216 A. Gram: "IMPELLER."

Sha. Luchand Parakkal, Rangan Gowler Street, Coimbatore.

Sha. Harichand Pokaraj, Oppanakara Street, Coimbatore.

Sizing Materials Ltd., Trichy Road, Coimbatore.

South India Corporation (Madras) Ltd., Jail Road, Coimbatore.

Stanes Amalgamated Estates Ltd. (Managing Agents, T. Stanes & Co., Ltd.), Coimbatore.

Stanes Motors (South India) Limited, (Managing Agents & Secretaries, T. Stanes & Co., Ltd.), Post Box No. 12, Coimbatore.

Sterling General Insurance Co., Ltd., Trichy Road, Coimbatore.

St. Joseph's Industrial School & Press, Big Bazar Street, Coimbatore.

Sulbhai Foundry, Pappanackkenpalayam, Coimbatore.

Tea Estates India Ltd., Race Course Road, Coimbatore.

Textiles Suppliers Syndicate (India) Ltd., Cross-cut Road, Coimbatore.

Textol Company Limited, Ganapathy, Post Box 221, Coimbatore.

Flores and Floorings Ltd., Avanashi Road, Coimbatore.

Titan Paints and Varnish Co., Podanur, Coimbatore.

Ubol Limited, 8/23, Avanashi Road, Coimbatore.

United Coffee Supply Co., Ltd., Trichy Road, Coimbatore.

United Motors (Coimbatore) Ltd., Avanashi Road, Coimbatore.

United Nilgiri Tea Estates Co., Ltd., The (Managing Agents, T. Stanes & Co., Ltd.), Post Box No. 12, Coimbatore.

United Printers & Publishers (Coimbatore) Ltd., Raja Street, Coimbatore.

Vasanta Mills Limited, Singanallur, Coimbatore.

Vasanta Printing Ink Factory, Trichy Road, Coimbatore.

Vijaya Foundry, Pappanackkenpalayam, Coimbatore.

Voltas Ltd., Race Course Road, Coimbatore.

V. S. Rajagopalan & Co., Avanashi Road, Coimbatore.

V. T. S. Castor Oil Mfg. Co., Ltd., Kasturi Road, Ranganathapuram, Coimbatore.

Warden Insurance Co., Ltd., Variety Hall Road, Coimbatore.

CLASSIFIED LIST OF TRADES & PROFESSIONS

AERATED WATER MANUFACTURERS

Asoka Soda Factory.—Big Bazar Street, Coimbatore.
City Soda Factory.—Raja Street, Coimbatore.
Leader & Co.—Nawab Hakeem Road, Coimbatore.
Mani & Co.—Big Bazar Street, Coimbatore.
Union Soda Factory.—Rangal Gowder Street, Coimbatore.
Venkatas Soda Factory.—Rangal Gowder Street, Coimbatore.
Vincent & Co., Ltd.—Trichy Road, Coimbatore.

AGRICULTURAL IMPLEMENTS MFRS.

Eastern Electric Co. Ltd.—Singanailur, Coimbatore.
Farm Equipment Ltd.—Ganapathy Post, Coimbatore.
P.S.G. Industrial Institute.—Peelamedu, Coimbatore.
Volta Ltd.—Race Course Road, Coimbatore.

AIR CONDITIONING & REFRIGERATION

Garlick & Co.—Cox Street, Coimbatore.
New India Air Freezer Corporation.—Oppanakara Street, Coimbatore.
Farry & Co. Ltd.—Fraser Square, Coimbatore.
Refrigeration Engineering Works.—Nawab Hakeem Road, Coimbatore.
Volta Ltd.—Race Course Road, Coimbatore.

ALUMINIUM WARES

Kalcoswarar Stores.—Rangal Gowder Street, Coimbatore.
Kanthaswamy & Co.—Rangal Gowder Street, Coimbatore.
Moorthy Stores.—Rangal Gowder Street, Coimbatore.

ARMS & AMMUNITIONS

Azeemulla Sahib, I. M.—Big Bazar Street, Coimbatore.
Modern Gunsmiths.—Jail Road, Coimbatore.
St. Joseph's Armory.—Gandhipuram, Coimbatore.

ARTISTS & SIGN BOARD PAINTERS

Ajanta Publicity.—Rangal Gowder Street, Coimbatore.
Asoka Painters.—Edayar Street, Coimbatore.
Chendi Arts.—Oppanakara Street, Coimbatore.
Gururaj Industries.—Raja Street, Coimbatore.
Kalakoodam.—Raja Street, Coimbatore.
K. P. Works.—Rangal Gowder Street, Coimbatore.
Maniam Arts.—Big Bazar Street, Coimbatore.
S. P. Works.—Variety Hall Road, Coimbatore.
Uma & Company.—Raja Street, Coimbatore.

AUTOMOBILE ENGINEERS

Alweyns Motor Works.—Trichy Road, Coimbatore.
Anthony's Automobiles.—Trichy Road, Coimbatore.
Asoka Auto Service.—Krishnaswamy Mudaliar Road, Coimbatore.
Associated Automobiles Ltd.—Avanashi Road, Coimbatore.
Blumont Auto Service.—Mettupalayam, Coimbatore.
City Transport Ltd.—Avanashi Road, Coimbatore.
Coimbatore Motor-Cycle Works.—Nawab Hakeem Road, Coimbatore.
Francis Motor Works.—Trichy Road, Coimbatore.
General Auto Service.—Trichy Road, Coimbatore.
George Oakes Ltd.—Avanashi Road, Coimbatore.
Gibson's Auto Service.—Mettupalayam, Coimbatore.
India Services (Coimbatore) Ltd.—4/105, Trichy Road, Coimbatore.
Krishna Motor Works.—Avanashi Road, Coimbatore.
L. G. Balakrishnan & Bros.—India House, Trichy Road, Coimbatore.
Mani Motor Cycle Works.—Avanashi Road, Coimbatore.
Marikar (Motors) Ltd.—Avanashi Road, Coimbatore.

Modern Motor Works.—Fraser Square, Coimbatore.
Motors & Services.—Avanashi Road, Coimbatore.
National Motor Works.—Trichy Road, Coimbatore.
Southern Motors.—Trichy Road, Coimbatore.
South India Corporation (Madras) Ltd.—Jail Road, Coimbatore.
Sri Ram Engineering Works.—Crosscut Road, Coimbatore.
Standard Automobiles.—Crosscut Road, Coimbatore.
Stanes Motors (South India) Ltd.—Trichy Road, Coimbatore.
St. Anthony's Motor Cycle Works.—Trichy Road, Coimbatore.
United Motors Ltd.—Avanashi Road, Coimbatore.

AUTOMOBILE PARTS & ACCESSORIES

Abdulah Khan.—Mettupalayam Road, Coimbatore.
A. O. B. Automobiles.—Mettupalayam Road, Coimbatore.
Associated Automobiles Ltd.—Avanashi Road, Coimbatore.
Balaram E. Naidu.—Mill Road, Coimbatore.
Central Autoparts & Co.—Avanashi Road, Coimbatore.
Dada Khan Sahib.—Mill Road, Coimbatore.
Gajraj & Co.—Jail Road, Coimbatore.
George Oakes Ltd.—Avanashi Road, Coimbatore.
Gounder & Co.—Jail Road, Coimbatore.
Industrial Automobiles.—Mettupalayam Road, Coimbatore.
Katteri Automobiles.—Avanashi Road, Coimbatore.
L. G. Balakrishnan & Bros.—India House, Trichy Road, Coimbatore.
Malabar Modern Automobiles.—Avanashi Road, Coimbatore.
Motors & Services.—Avanashi Road, Coimbatore.
Mythili Motors.—Mettupalayam Road, Coimbatore.
Pillay & Co.—Avanashi Road, Coimbatore.
Pioneer Motors.—Old Post Office Road, Coimbatore.
Premier Agencies.—Trichy Road, Coimbatore.
Shining Motors.—Cox Street, Coimbatore.
Sri Ram Industrials.—Tudiyalur, Coimbatore.
Stanes Motors (South India) Ltd.—Trichy Road, Coimbatore.
Sundaram & Co., S. M.—Avanashi Road, Coimbatore.

AUTOMOBILES (CARS, TRUCKS & MOTOR CYCLES)

Addison & Co. Ltd.—Avanashi Road, Coimbatore.
Associated Automobiles Ltd.—Avanashi Road, P. O. Box 128, Coimbatore.
Coimbatore Automobiles.—Avanashi Road, Coimbatore.
Gajraj & Company.—Jail Road, Coimbatore.
George Oakes Ltd.—Avanashi Road, Coimbatore.
Gounder & Co. Ltd.—Jail Road, Coimbatore.
L. G. Balakrishnan & Bros.—India House, Trichy Road, Coimbatore.
Marikar Motors Ltd.—Avanashi Road, Coimbatore.
South India Corporation (Madras) Ltd.—Jail Road, Coimbatore.
Stanes Motors (South India) Ltd.—Trichy Road, Coimbatore.
United Motors Ltd.—Avanashi Road, Coimbatore.

BAKERS & CONFECTIONERS

Ambrosia Biscuit Co.—Trichy Road, Coimbatore.
Ayyer & Co.—Raja Street, Coimbatore.
Babu Confectionery Works.—Vysial Street, Coimbatore.
Bharat Bakery.—Rangal Gowder Street, Coimbatore.
Crown Bakery.—Oppanakara Street, Coimbatore.
Dorairaj Bakery.—Crosscut Road, Coimbatore.
Indra Bakery.—Nawab Hakeem Road, Coimbatore.
J. M. & Sons.—Avanashi Road, Coimbatore.
Jupiter Confectionery Works.—Rangal Gowder Street, Coimbatore.
Krishna Bakery.—Big Bazar Street, Coimbatore.
Leader Confectionery.—Raja Street, Coimbatore.
Lotus Biscuit Factory.—Big Bazar Street, Coimbatore.
Modern Bakery.—Mettupalayam Road, North Coimbatore.
Modern English Bakery.—Big Bazar Street, Coimbatore.
Murugan Bakery.—Thadagam Road, Coimbatore.
New City Bakery & Lodge.—Big Bazar Street, Coimbatore.
Nilgiri Crown Bakery.—Oppanakara Street, Coimbatore.
Perfection Bakery.—Kerala Club Road, Coimbatore.
Regal Bakery.—Mettupalayam Road, Coimbatore.
S. & R. Bakery.—Oppanakara Street, Coimbatore.
Shanmugam Bakery.—Crosscut Road, Coimbatore.
Star Bakery.—Jail Road, Coimbatore.
Sugantha Bakery.—Variety Hall Road, Coimbatore.
Sundaram Biscuit Factory.—Sukrawarpet, Coimbatore.
Venkata Raju Bakery.—Mettupalayam Road, North Coimbatore.

BANGLE MANUFACTURERS

Asoka Stores.—Vysial Street, Coimbatore.
 Chandran Stores.—Raja Street, Coimbatore.
 Chellam Stores.—Edayar Street, Coimbatore.
 Shivaji Stores.—Thomas Street, Coimbatore.
 Sri Devi Stores.—Raja Street, Coimbatore.
 Sri Venkatasware Mart.—Raja Street, Coimbatore.

BANKS

Adhelakami Bank Ltd.—Raja Street, Coimbatore.
 Annuparpalayam Bank Ltd.—Jail Road, Coimbatore.
 Arias Bank.—Rangai Gowder Street, Coimbatore.
 Bank of Baroda Ltd.—Big Bazar Street, Coimbatore.
 Bank of Bikaner Ltd.—Oppanakara Street, Coimbatore.
 Bank of India Ltd.—Head Post Office Road, Coimbatore.
 Bank of Jaipur Ltd.—Oppanakara Street, Coimbatore.
 Bank of Madras Ltd.—Oppanakara Street, Coimbatore.
 Bank of Mysore Ltd.—Oppanakara Street, Coimbatore.
 Canara Banking Corporation Ltd.—Oppanakara Street, Coimbatore.
 Canara Bank Ltd.—Edayar Street, Coimbatore.
 Canara Industrial & Banking Syndicate Ltd.—Oppanakara Street, Coimbatore.
 Central Bank of India Ltd.—Variety Hall Road, Coimbatore.
 Chaldeen Syrian Bank.—Raja Street, Coimbatore.
 City Co-operative Bank Ltd.—Gopalapuram, Coimbatore.
 Coimbatore Bank Ltd.—Raja Street, Coimbatore.
 Coimbatore Bhaghyalakshmi Bank Ltd.—Oppanakara Street, Coimbatore.
 Coimbatore Commerce Bank.—Union High School Road, Coimbatore.
 Coimbatore Co-operative House Mortgage Bank Ltd.—Jail Road, Coimbatore.
 Coimbatore Co-operative Stores & Bank Ltd.—Sullivan Street, Coimbatore.
 Coimbatore District Co-operative Central Bank Ltd.—State Bank Road, Coimbatore.
 Coimbatore Ganeshar Bank Ltd.—Jail Road, Coimbatore.
 Coimbatore Hindu Kripakara Nidhi Ltd.—Oppanakara Street, Coimbatore.
 Coimbatore Janopkara Bank Ltd.—Vysial Street, Coimbatore.
 Coimbatore National Bank Ltd.—Variety Hall Road, Coimbatore.
 Coimbatore Standard Bank Ltd.—R. S. Puram, Coimbatore.
 Coimbatore Town Bank Ltd.—Rangai Gowder Street, Coimbatore.
 Coimbatore Varthaka Viridhi Bank Ltd.—Rangai Gowder Street, Coimbatore.
 Coimbatore Vasunthara Bank Ltd.—Raja Street, Coimbatore.
 Dravya Sahaya Bank Ltd.—Oppanakara Street, Coimbatore.
 Indian Bank Ltd.—Variety Hall Road, Coimbatore.
 Indian Overseas Bank Ltd.—Oppanakara Street, Coimbatore.
 Indo Commercial Bank Ltd.—Oppanakara Street, Coimbatore.
 Indo Mercantile Bank Ltd.—Edayar Street, Coimbatore.
 Janasahaya Bank Ltd.—Nawab Hakem Road, Coimbatore.
 Kamalalaya Bank.—Raja Street, Coimbatore.
 Karpaga Nidhi Ltd.—Devangapet, Coimbatore.
 Karur Vysia Bank Ltd.—Oppanakara Street, Coimbatore.
 Madras City Bank Ltd.—Oppanakara Street, Coimbatore.
 Mannar Bank Ltd.—Thomas Street, Coimbatore.
 Melarcode Bank Ltd.—Variety Hall Road, Coimbatore.
 Modern Bank Ltd.—Oppanakara Street, Coimbatore.
 Nedungadi Bank Ltd.—Oppanakara Street, Coimbatore.
 New India Bank Ltd.—Vysial Street, Coimbatore.
 Peelamedu Co-operative Land Mortgage Bank Ltd.—Avanashi Road, Coimbatore.
 Punjab National Bank Ltd.—Oppanakara Street, Coimbatore.
 South Indian Bank Ltd.—Raja Street, Coimbatore.
 Srinivasaperumal Bank Ltd.—Crosscut Road, Coimbatore.
 State Bank of India.—State Bank Road, Coimbatore.
 Thocos Bank Ltd.—Raja Street, Coimbatore.
 Travancore Bank Ltd.—Oppanakara Street, Coimbatore.
 Travancore Forward Bank Ltd.—Oppanakara Street, Coimbatore.
 United Commercial Bank Ltd.—Oppanakara Street, Coimbatore.

BEEDI FACTORIES

Adu Mark Beedi Co.—Raja Street, Coimbatore.
 Bharathakodi Beedi Factory.—Rangai Gowder Street, Coimbatore.
 C.M.S. Beedi Factory.—Variety Hall, Coimbatore.
 C.R.G. Beedi Factory.—Nawab Hakem Road, Coimbatore.
 Double Key Beedi Co.—Nawab Hakem Road, Coimbatore.
 Kalral Beedi Co.—Rangai Gowder Road, Coimbatore.
 Kudi Majesth Beedi Factory.—Nanjundapuram, Coimbatore.
 Majesth Beedi Co.—Oppanakara Street, Coimbatore.
 Mani Mark Majesth Beedi Co.—Nawab Hakem Road, Coimbatore.
 R.M.S. Beedi Co.—Variety Hall Road, Coimbatore.
 Star Mark Gowder Beedi Factory.—Nawab Hakem Road, Coimbatore.

BLOCKS (PROCESS) & RUBBER STAMP MAKERS

Amboji & Co.—Edayar Street, Coimbatore.
 Indra Process Studio.—Oppanakara Street, Coimbatore.
 M. P. Samy & Co.—Raja Street, Coimbatore.
 Nathan & Co., M. S.—Big Bazar Street, Coimbatore.
 Samy & Brothers, C. A.—Raja Street, Coimbatore.
 Shya & Co.—Raja Street, Coimbatore.

BOOK-BINDING WORKS

Asoka Book Binding Works.—Thomas Street, Coimbatore.
 K. V. Ponnase & Son.—Raja Street, Coimbatore.
 Manickam Book Binding Works.—Edayar Street, Coimbatore.
 Sree Samundeeswari Binding Works.—Raja Street, Coimbatore.

BOOKSELLERS & STATIONERS

Balu Book Stall.—Crosscut Road, Coimbatore.
 Bettal Gowder K. O.—Raja Street, Coimbatore.
 Chelliam Stores.—Crosscut Road, Coimbatore.
 Christian Book Shop.—Avanashi Road, Coimbatore.
 Coimbatore Sakthi Kariyalayam.—Variety Hall Road, Coimbatore.
 Dinamani Stores.—General Merchants, News Agents & Books Baza, Near U. M. S., Coimbatore.
 Egyptian Stationery.—Raja Street, Coimbatore.
 Hindustan Traders.—Raja Street, Coimbatore.
 Kavignar Padippakam.—Raja Street, Coimbatore.
 Nanjappa & Co.—Raja Street, Coimbatore.
 Natarajan C. R. & Sons.—Big Bazar Street, Coimbatore.
 Popular Hindustan Publication.—Old Post Office Road, Coimbatore.
 Reliance General Stores.—Variety Hall Road, Coimbatore.
 Tamil Nadu Book Sellers.—Raja Street, Coimbatore.
 Vasantham Stores.—General Merchants, News Agents and Book sellers, Crosscut Road, Coimbatore.

BOOT & SHOE-MAKERS & DEALERS

Bata Shoe Store.—Avanashi Road, Coimbatore.
 Batcha Shoe Mart.—Big Bazar Street, Coimbatore.
 Ceylon Shoe Mart.—Big Bazar Street, Coimbatore.
 General Foot Wear, Big Bazar Street, Coimbatore.
 Imperial Foot Wear House, Big Bazar Street, Coimbatore.
 Kohinour Foot Wear House.—Big Bazar Street, Coimbatore.
 Modern Foot Wear House.—Crosscut Road, Coimbatore.
 National Shoe Mart.—Big Bazar Street, Coimbatore.
 Raju Foot Wear.—Big Bazar Street, Coimbatore.
 Rangaraju Naidu, C.—Crosscut Road, Coimbatore.
 Royal Foot Wear House.—Big Bazar Street, Coimbatore.
 Standard Foot Wear House.—Big Bazar Street, Coimbatore.
 V. K. Shoe Co.—Avanashi Road, Coimbatore.
 White Hall Foot Wear & General House.—Trichy Road, Coimbatore.

BROKERS (STOCKS & SHARES)

Chellam & Co.—Big Bazar Street, Coimbatore.
 Coimbatore Brokers.—Raja Street, Coimbatore.
 Goel Bros. & Co.—Raja Street, Coimbatore.
 Gowri & Co.—Oppanakara Street, Coimbatore.
 Kannappa Chettiar P. L.—Oppanakara Street, Coimbatore.

BUILDERS, ENGINEERS & CONTRACTORS

C. K. Krishna Boyan.—Srinivasapuram, Coimbatore.
 Gannon Dunkerley & Co. Ltd.—Crosscut Road, Coimbatore.
 G. S. Gangadharam.—Oppanakara Street, Coimbatore.
 H. S. Singh.—R. S. Puram, Coimbatore.
 Industrial Construction Co. Ltd.—Mettupalayam, Coimbatore.
 Johar & Sons.—Trichy Road, Coimbatore.
 Kanniah Prasad B.—Sama Rao Street, Coimbatore.
 M. Narayanaswamy Naidu.—Muthannankulam Road, Coimbatore.
 R. Krishnaswami.—Subramaniam Road, R. S. Puram, Coimbatore.
 R. Krishnaswami.—Jail Road, Coimbatore.

BUTTON FACTORIES

Jaga Button Industries Ltd.—Mettupalayam Road, Post Bag No. 519, Coimbatore.
 Jaga Button Industries Ltd.—Crosscut Road, Coimbatore.
 Praga Industries Ltd.—Krishnarajapuram, Coimbatore.
 Vijaya Industries.—Peelamedu, Coimbatore.

CASTOR OIL MANUFACTURERS

K. P. Castor Oil Works.—Sambanda Mudliar Road, R. S. Puram, Coimbatore.
 Radha Castor Oil Works.—Sukrawarpet, Coimbatore.
 V. T. S. Castor Oil Manufacturing Co. Ltd.—Rt. Hon'ble Sastri Road, Ranganathapuram, Coimbatore.

CEMENT COMPANIES

Asbestos Cement Ltd.—Podanur, Coimbatore.
 Associated Cement Co. Ltd.—Madukkaral, Coimbatore.
 Cement Marketing Co. of India Ltd.—Race Course Road, Coimbatore.
 Dalmia Cement.—Oppanakara Street, Coimbatore.
 India Cements Ltd.—Mettupalayam Road, Coimbatore.
 Pankajam & Co.—Avanashi Road, Coimbatore.
 Rajamanickam A.—Avanashi Road, Coimbatore.
 Srinivasan & Co.—Krishnaswamy Mudaliar Street, Coimbatore.
 Sundaram & Co.—Oppanakara Street, Coimbatore.

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Eastern Electrical Co. Ltd.—Singanallur, Coimbatore.
 Farm Equipments Ltd.—Ganapathy P.O., Coimbatore.
 General Engineering Co.—Barid Patel Road, Ranganathapuram, Coimbatore.
 Murugan Foundry.—Jail Road, Coimbatore.
 P.S.G. Industrial Institute.—Peelamedu, Coimbatore.
 Sri Krishna Foundry.—Mettupalayam Road, Coimbatore.
 Sri Ram Industrials.—Tudiyalur P.O., Coimbatore.
 Vijaya Foundry.—Pappanackenalayam, Coimbatore.

CHEMISTS & DRUGGISTS

All Medical Stores.—Big Bazar Street, Coimbatore.
 Ambrose, S.—Cox Street, Coimbatore.
 Aryavaliya Pharmacy.—Trichy Road, Coimbatore.
 Ayurvedic Medical Shop.—Variety Hall Road, Coimbatore.
 Central Pharmacy, The.—33, St. Michael's Emporium, Big Bazar Street, Coimbatore.
 City Pharmacy, Avanashi Road, Coimbatore.
 Dasai Gowder & Co.—Avanashi Road, Coimbatore.
 D. S. V. & Sons.—Katali, 1923, Avanashi Road, Coimbatore.
 Kaswar Medical Shop.—Raja Street, Coimbatore.
 English Pharmacy.—Raja Street, Coimbatore.
 European General Stores.—Imperial Bank Road, Coimbatore.
 Gurunath Medical Stores.—Nawab Hakeem Road, Coimbatore.
 Hameed Medical Stores.—Big Bazar Street, Coimbatore.
 Jaya Pharmacy.—Oppanakara Street, Coimbatore.
 Kanchana Medical Store.—Rangal Gowder Street, Coimbatore.
 Kaminath & Co.—Big Bazar Street, Coimbatore.
 Kerala Aryavaliya Pharmacy.—Oppanakara Street, Coimbatore.
 Kerala Medical Stores.—Rangal Gowder Street, Coimbatore.
 K.P.M. Sadhu Vaidyaala.—Variety Hall Road, Coimbatore.
 Krishnaswami & Co.—Raja Street, Coimbatore.
 Manian & Co., K. P. R.—Avanashi Road, Coimbatore.
 Modern Medical & General Stores.—Big Bazar Street, Coimbatore.
 National Pharmacy.—Oppanakara Street, Coimbatore.
 Paul & Co., V. J.—Nawab Hakeem Road, Coimbatore.
 Ramdas Pharmacy.—Crosscut Road, Coimbatore.
 Ramnath & Co.—Imperial Bank Road, Coimbatore.
 Saraswathi Medical Stores.—Edayar Street, Coimbatore.
 Saroja Medical & General Stores.—Raja Street, Coimbatore.
 Shivaji Medical Hall.—Imperial Bank Road, Coimbatore.
 South India Medical Stores.—Oppanakara Street, Coimbatore.
 South India Medical Co. Ltd.—Big Bazar Street, Coimbatore.
 Star Drug Co.—Raja Street, Coimbatore.
 Subramanian & Co.—Raja Street, Coimbatore.

Thambi & Co.—Ukkadam, Coimbatore.
 Thomson Medical & General Stores.—Raja Street, Coimbatore.
 United Concerns.—Thomas Street, Coimbatore.
 Vasan & Co.—Rangal Gowder Street, Coimbatore.
 Veda & Co.—East Arogyasamy Road, Coimbatore.
 Wilfred Pereira Ltd.—Avanashi Road, Coimbatore.

CINEMAS

Ashok Talkies.—R. S. Puram, Coimbatore.
 Carnatic Talkies.—Big Bazar Street, Coimbatore.
 Diamond Talkies.—Avanashi Road, Coimbatore.
 Palace Talkies.—Nawab Hakeem Road, Coimbatore.
 Rainbow Theatres.—Trichy Road, Coimbatore.
 Raja Theatres.—Nawab Hakeem Road, Coimbatore.
 Shanmugha Theatres.—Mettupalayam Road, Coimbatore.
 Srinivas Talkies.—Krishnaswamy Mudaliar Road, Coimbatore.
 Swami Theatres.—Variety Hall Road, Coimbatore.
 Theatre Royal.—Big Bazar Street, Coimbatore.
 Variety Hall Talkies.—Variety Hall Road, Coimbatore.

COFFEE & TEA MERCHANTS

Achutha Coffee Manufacturing Co.—Raja Street, Coimbatore.
 Ambrosia Tea Emporium.—Trichy Road, Coimbatore.
 Anandha Coffee Works.—Rangal Gowder Street, Coimbatore.
 Anandha Tea Emporium.—Trichy Road, Coimbatore.
 Bhavani Tea Products Ltd.—R. S. Puram, Coimbatore.
 Devarshola Tea Company Ltd.—Race Course Road, Coimbatore.
 Devi Tea Products.—Rangal Gowder Street, Coimbatore.
 Ilhru Darring Tea Co. Ltd.—Palingrove Road, Coimbatore.
 Famous Coffee & Tea Works.—Rangal Gowder Street, Coimbatore.
 Gita Coffee Works.—Oppanakara Street, Coimbatore.
 Indian Coffee Supply Co.—Big Bazar Street, Coimbatore.
 Indra Coffee Works.—Union High School Road, Coimbatore.
 Iyer, Nadar & Co.—Variety Hall Road, Coimbatore.
 Jain's Coffee Works.—Oppanakara Street, Coimbatore.
 Kannala Coffee Works.—Rangal Gowder Street, Coimbatore.
 Kannan Coffee Trading Co. Ltd.—Rangal Gowder Street, Coimbatore.
 Lakshmi Coffee Co.—Raja Street, Coimbatore.
 Lion Brand Coffee Co.—Raja Street, Coimbatore.
 Lipton Tea Ltd.—Edayar Street, Coimbatore.
 Madras Tea Estates.—Race Course Road, Coimbatore.
 Meera Coffee Works.—Rangal Gowder Street, Coimbatore.
 Mysore Lachia Betty & Sons Ltd.—Raja Street, Coimbatore.
 Nanjappa Gowder R.—Okhiliya Street, Coimbatore.
 Narasus Coffee Manufacturing Co.—Rangal Gowder Street, Coimbatore.
 Narayan & Co.—Raja Street, Coimbatore.
 Nathan Coffee Works.—Variety Hall Road, Coimbatore.
 Neelamalai Coffee Estates.—Gandhi Puram, Coimbatore.
 Radha's Coffee Manufacturing Co.—Rangal Gowder Street, Coimbatore.
 Ramu's Coffee Works.—Rangal Gowder Street, Coimbatore.
 Ratna Coffee Works.—R. S. Puram, Coimbatore.
 Saraswathi Coffee Trading Co.—Rangal Gowder Street, Coimbatore.
 Sri Shanmugha Coffee Works.—Crosscut Road, Coimbatore.
 Stanes Amalgamated Tea Estates.—Race Course Road, Coimbatore.
 Star Coffee Works.—Rangal Gowder Street, Coimbatore.
 Tea Estates India Ltd.—Race Course Road, Coimbatore.
 Thilashola Tea Co.—Race Course Road, Coimbatore.
 Thomeo Tea Ltd.—Jail Road, Coimbatore.
 Union Coffee Supply Co.—Coimbatore.
 United Coffee Supply Co.—Trichy Road, Coimbatore.
 United Nilgiris Tea Estates.—Race Course Road, Coimbatore.
 Vishnu Coffee Works.—Rangal Gowder Street, Coimbatore.

COTTON MERCHANTS

A. G. Gurusawmy Naidu & Sons.—Avanashi Road, Coimbatore.
 Ahmad Abdul Sakoor.—Raja Street, Coimbatore.
 Bachhraj Factories Ltd.—Nawab Hakeem Road, Coimbatore.
 Bell & Co.—Grey Town, Coimbatore.
 Champaklal & Co.—R. S. Puram, Coimbatore.
 Consolidated Cotton Corporation.—Rangal Gowder Street, Coimbatore.
 Dhanji Dwarkadas & Bros.—Rangal Gowder Street, Coimbatore.
 Ganesar Ginning Co. Ltd.—Ganapathy, Coimbatore.
 Hanumanthappa & Sons.—R. S. Puram, Coimbatore.
 H. M. Mehta & Co.—Cox Street, Coimbatore.
 Indira & Co.—Big Bazar Street, Coimbatore.
 Jalram & Co.—Syrian Church Road, Coimbatore.
 Jeramdas Nammal.—Subramanya Mudaliar Street, Coimbatore.
 Jothi & Co.—R. S. Puram, Coimbatore.
 Kandaswamy Gounder & Co., E. R.—Ponnuram Road, Coimbatore.
 Kanji Walgi.—B. K. Chetty Street, Coimbatore.
 Kilachand Devchand & Co.—Grey Town, Coimbatore.
 Kotak & Co.—R. S. Puram, Coimbatore.
 Krishna Ginning Factory.—Pappanackenalayam, Coimbatore.
 Kurjee Dhanjee.—Syrian Church Road, Coimbatore.
 Murugappa & Sons.—Raja Street, Coimbatore.
 Narayana Ginning Factory.—Pappanackenalayam, Coimbatore.

Narsee Nagase & Co.—R. S. Puram, Coimbatore.
 Naryandas Gokuldas.—Oppanakara Street, Coimbatore.
 Pannalal Rajkumar & Co.—R. S. Puram, Coimbatore.
 Patel Cotton Co. Ltd.—Avanashi Road, Coimbatore.
 Ralls (India) Ltd.—Avanashi Road, Coimbatore.
 Sethna, H. B.—Syrian Church Road, Coimbatore.
 Thulasidas Murarjee.—Vysal Street, Coimbatore.
 T. K. Chinnaswamy Naidu.—Avanashi Road, Coimbatore.
 Valjee Kanjee & Co.—Oppanakara Street, Coimbatore.
 Vijayakumar Mercantile Corporation.—R. S. Puram, Coimbatore.
 Voltas Ltd.—Race Course Road, Coimbatore.
 Vyas & Co.—Jail Road, Coimbatore.
 Waterfield & Co.—Edayar Street, Coimbatore.
 Yagappa Chettiar, M. Y.—West Sambandam Road, Coimbatore.

COTTON MILLS

Cambodia Mills Ltd.—Ondipudur, Coimbatore.
 Coimbatore Cotton Mills Ltd.—Singanallur, Coimbatore.
 Coimbatore Kanala Mills Ltd.—Uppilipalayam, Coimbatore.
 Coimbatore Murugan Mills Ltd.—Mettupalayam Road, Coimbatore.
 Coimbatore Pioneer Mills Ltd.—Peelamedu, Coimbatore.
 Coimbatore Spinning & Weaving Co. Ltd.—Coimbatore.
 Gyanambikai Mills Ltd.—Coimbatore.
 Janardana Mills Ltd.—Uppilipalayam, Singanallur, Coimbatore.
 Jayalakshmi Mills Ltd.—Singanallur, Coimbatore.
 Joithi Mills.—Periyanaickenpalayam, Coimbatore.
 Kadri Mills (C.B.E.), Ltd.—Oddarpalayam, Singanallur, Coimbatore.
 Kaleeswarar Mills Ltd.—Coimbatore.
 Kasthuri Mills Ltd.—Singanallur, Coimbatore.
 Kothar Textiles Ltd.—Singanallur, Coimbatore.
 Kumaran Mills Ltd.—Pudupalayam, Coimbatore.
 Lakshmi Mills Co. Ltd.—Pappanackalpalayam, Coimbatore.
 Lotus Mills Ltd.—Sundarapuram, Coimbatore.
 Pankaja Mills Ltd.—Coimbatore.
 Radhakrishna Mills Ltd.—Peelamedu, Coimbatore.
 Rajalakshmi Mills Ltd.—Uppilipalayam, Singanallur P.O., Coimbatore.
 Saroja Mills Ltd.—Singanallur Post, Coimbatore.
 Sivananda Mills Ltd.—Nraavanampatti, Coimbatore.
 Somasundaram Mills Ltd.—Coimbatore.
 Sri Bala Subramania Mills Ltd.—Singanallur, Coimbatore.
 Sri Kannabiran Mills Ltd.—Sowripalayam, Coimbatore.
 Sri Karthikeya Spinning & Weaving Mills Ltd.—Singanallur, Coimbatore.
 Sri Palamalai Ranganather Mills Ltd.—Periyanaickenpalayam, Coimbatore.
 Sri Ramkrishna Mills Ltd.—Ganapathy, Coimbatore.
 Sri Rangavilas Ginning, Spinning & Weaving Mills Ltd.—Peelamedu, Coimbatore.
 Sri Sarda Mills Ltd.—Loganathapuram, Podanur, Coimbatore.
 Varadaraja Textiles Ltd.—Peelamedu, Coimbatore.
 Vasanta Mills Ltd.—Singanallur, Coimbatore.
 Vijaya Lakshmi Mills Ltd.—Kuniamuthur, Coimbatore.

COTTON SEED & OIL CAKES

Kana Kasalam, V. K.—Vysal Street, Coimbatore.
 Kandhan Corporation.—Vysal Street, Coimbatore.
 Kanakshi Corporation.—Thadagam Road, Coimbatore.
 Kumaraswamy Mudalla & Sons, K.—Oppanakara Street, Coimbatore.
 Murugesan, P.—Rangal Gowder Street, Coimbatore.
 Santhu Mohamed Rowther.—Rangal Gowder Street, Coimbatore.
 Shunmugham C.—Avanashi Road, Coimbatore.
 Sri Jagannatha Ginning & Oil Mills.—Siddhapur, Coimbatore.
 Sri Venkatesa Ginning & Oil Mills.—Siddhapur, Coimbatore.
 Vellingiri Mudallar, P.—Sukrawarpet, Coimbatore.

CYCLE DEALERS, MANUFACTURERS & IMPORTERS

Asoka Cycle Mart.—Variety Hall Road, Coimbatore.
 Babulal & Sons.—Variety Hall Road, Coimbatore.
 Bharath Cycle Stores.—Variety Hall Road, Coimbatore.
 Kaswar Cycle Stores.—Oppanakara Street, Coimbatore.
 Gowder Cycle Mart.—Variety Hall Road, Coimbatore.
 Gujarat Cycle Trading Co.—Oppanakara Street, Coimbatore.
 International Cycle Emporium.—Variety Hall Road, Coimbatore.
 Jupiter Cycle Mart.—Big Bazar Street, Coimbatore.
 Lakshmi Cycle Mart.—Variety Hall Road, Coimbatore.
 Presidency Cycle Importing Co.—Variety Hall Road, Coimbatore.
 Raja & Co.—Avanashi Road, Coimbatore.
 Standard Cycle Importing Co.—Variety Hall Road, Coimbatore.
 Universal Cycle Mart.—Variety Hall Road, Coimbatore.
 Variety Cycle Stores.—Oppanakara Street, Coimbatore.

DYEING & BLEACHING COMPANIES

Acme Textile Dyeing & Printing Industries.—Mettupalayam, Coimbatore.
 Ananda Sava Salai—Edayar Street, Coimbatore.
 Balasubramaniam Dyeing & Trading Corp.—Rangal Gowder Street, Coimbatore.
 Esorpe Sava Salai—Rangal Gowder Street, Coimbatore.

Madurai Mahalakshmi Sava Salai—Rangal Gowder Street, Coimbatore.
 Malli Sava Salai.—Rangal Gowder Street, Coimbatore.
 Nilanagam Sava Salai—Sukrawarpet, Coimbatore.
 Rainbow Dyeing & Bleaching Works.—Chinnappa Chetty Street, Coimbatore.
 Saraswathy Sava Salai—Rangal Gowder Street, Coimbatore.

DYESTUFF & CHEMICAL DEALERS

Acme Textile Distributors.—Venkataswamy Road, R. S. Puram, Coimbatore.
 Doraiswamy, P. M.—Rangal Gowder Street, Coimbatore.
 Pattabiraman, T. K.—Rangal Gowder Street, Coimbatore.
 Srinivasan Charlu & Co., M.—Rangal Gowder Street, Coimbatore.
 Subburaju, R.—Sukrawarpet, Coimbatore.
 Vasan & Co., S.—Rangal Gowder Street, Coimbatore.

ELECTRICAL GOODS & APPLIANCES (IMPORTERS & STOCKISTS)

Associated Electrical Industries (India) Ltd. Race Course Road, Coimbatore.
 Batlibud & Company.—Avanashi Road, Coimbatore.
 Brilliant Insulated Cables Ltd. Race Course Road, Coimbatore.
 Broadway Engineering & Transport Co.—Old Post Office Road, Coimbatore.
 Coimbatore Electric & Novelty Stores, Oppanakara Street, Coimbatore.
 Crompton Engineering Co. (Madras) Ltd.—Aris College Road, Coimbatore.
 Eastern Electrical Co. Ltd.—Police H Q Office Road, Coimbatore.
 Electrical & General Supply Ltd. Avanashi Road, Coimbatore.
 General Electric Co. of India Ltd. Magma House, Coimbatore.
 Industrial Engineering Co.—Fraser Square, Coimbatore.
 Jwala Singh & Sons.—Avanashi Road, Coimbatore.
 Modi & Modi.—Police H Q Road, Coimbatore.
 Nagindas Khabhai (S. India) Ltd. Cox Street, Coimbatore.
 Pioneer Electricals.—Raja Street, Coimbatore.
 Prabha Electricals.—Oppanakara Street, Coimbatore.
 Radhakrishna & Co.—Avanashi Road, Coimbatore.
 Ramakrishna & Co.—Avanashi Road, Coimbatore.
 Ramu N. & Bros.—Avanashi Road, Coimbatore.
 United Electric Corporation.—Nawab Hakem Road, Coimbatore.

ENGINEERING WORKS

Arrow Industrial Works.—Krishnasami Mudallar Road, Coimbatore.
 Dhanalakshmi Foundry.—Mettupalayam Road, Coimbatore.
 Everest Engineering Works.—Crosscut Road, Coimbatore.
 Farm Industries.—Perianaickenpalayam, Coimbatore.
 Kasturi Engineers Ltd., The—Engineers & Founders, P O. Box 231, Coimbatore. Phone: 214.
 Nirmala Engineering Works. Krishnaswamy Mudallar Road, Coimbatore.
 P.N.R. Engineering Works.—Big Bazar Street, Coimbatore.
 Simon Electrical Works.—Fraser Square, Coimbatore.
 Sivananda Metal Works.—Mill Road, Coimbatore.
 Sreevatsa Engineering & Trading Co.—Mirdar Patel Road, Coimbatore.
 Star Electric Plating Works.—Variety Hall Road, Coimbatore.
 Vasa Engineering Industries. Krishnaswami Mudallar Road, Coimbatore.
 Wilson Electric Works. Palmgrove Road, Coimbatore.

FERTILISERS

Coimbatore Chemicals & Fertilisers Ltd. Vysal Street, Coimbatore.
 Deccan Fertiliser Co. (Coimbatore) Ltd.—Oppanakara Street, Coimbatore.
 Kamadhenu Fertilisers.—Oppanakara Street, Coimbatore.
 Meitru Fertiliser Co. Ltd.—R. S. Puram, Coimbatore.
 Parry & Co., Ltd.—Fraser Square, Coimbatore.
 Radhakrishnan, C.N.—Vysal Street, Coimbatore.
 Scientific Fertiliser Co. Ltd.—R. S. Puram, Coimbatore.
 Stanes & Co., T.—Tudalur, Coimbatore.

FILM DISTRIBUTORS & PRODUCERS

Ananda Films.—Imperial Bank Road, Coimbatore.
 Coimbatore Pictures Ltd.—Jail Road, Coimbatore.
 Devi Films.—Oppanakara Street, Coimbatore.
 Favorite Pictures.—Variety Hall Road, Coimbatore.
 Forward Art Films.—Coimbatore.
 Jewel Picture Circuit.—Big Bazar Street, Coimbatore.
 Kamadhenu Films.—Variety Hall Road, Coimbatore.
 Kandan & Co.—Edayar Street, Coimbatore.
 Karur Jal Hind Pictures.—Gopalapuram, Coimbatore.
 Lakshmi Pictures.—Edayar Street, Coimbatore.
 Majed Pictures.—Oppanakara Street, Coimbatore.
 Narayanan & Co. Ltd.—Trichy Road, Coimbatore.
 Rani Pictures.—Tatabad, Coimbatore.

FURNITURE MANUFACTURERS & DEALERS

Amir Furniture Hall.—Palm-grove Road, Coimbatore.
 Appa Furniture Hall.—Variety Hall Road, Coimbatore.
 Devasy & Sons, M.P.—Variety Hall Road, Coimbatore.
 General Suppliers & Agencies.—Variety Hall Road, Coimbatore.
 Joseph Furniture Hall.—Variety Hall Road, Coimbatore.
 Jupiter Furniture Works.—Power House Road, Coimbatore.
 P.V.S. Furniture Hall.—Avanashi Road, Coimbatore.
 Paul & Co.—Variety Hall Road, Coimbatore.
 Sebastian & Bros., M.P.—Variety Hall Road, Coimbatore.
 St. Joseph's Industrial School & Press.—Big Bazar Street, Coimbatore.
 St. Mary's Sofa Works.—Trichy Road, Coimbatore.
 Sunrise Furniture Service.—Power House Road, Coimbatore.

GINNING & OIL MILLS

Gururaja Ginning & Oil Mills Ltd.—Avanashi Road, Coimbatore.
 Ramasamy & Co., G.—Avanashi Road, Coimbatore.
 Sri Jagannatha Ginning & Oil Mills.—Siddhapur, Coimbatore.
 Sri Krishna Ginning Factory.—Avanashi Road, Coimbatore.
 Sri Narayana Ginning Factory.—Avanashi Road, Coimbatore.
 Sri Ranga Vilas Ginning & Oil Mills.—Avanashi Road, Coimbatore.
 Sri Venkatesa Ginning & Oil Mills.—Siddhapur, Coimbatore.
 Venkatapathy & Co., U. N.—Avanashi Road, Coimbatore.
 Vijaykumar Ginning Factory.—Avanashi Road, Coimbatore.

GLASS MERCHANTS

Amir Sahib.—Nawab Hakeem Road, Coimbatore.
 Art Cottage.—Nawab Hakeem Road, Coimbatore.
 Balagae Frame Works.—Variety Hall Road, Coimbatore.
 Chikkiah Gowder Sons, M.—Big Bazar Street, Coimbatore.
 Murugiah Gowder Sons, S.—Big Bazar Street, Coimbatore.
 Palaniswamy, M.S.—Raja Street, Coimbatore.
 Raju Naidu Sons, N.—Oppanakara Street, Coimbatore.
 Selvam Picture Framing Works.—Crosscut Road, Coimbatore.
 Sitharam & Co.—Rangal Gowder Street, Coimbatore.
 Sri Ramkrishna Mart.—Raja Street, Coimbatore.

GRAIN MERCHANTS

Chockalingam Chettiar Sons, A.R.—Raja Street, Coimbatore.
 Coimbatore Central Co-operative Stores Ltd.—Mettupalayam Road, Coimbatore.
 Co-operative Stores & Bank Ltd.—Sullivan Street, Coimbatore.
 Damodar & Co.—Avanashi Road, Coimbatore.
 Lakshmana Iyer & Bros., P.N.—Big Bazar Street, Coimbatore.
 Liharam Shewaram (India) Ltd.—Raja Street, Coimbatore.
 Narayana Rao & Bros., S.—Rangal Gowder Street, Coimbatore.
 Ramchandra, D.S.—Rangal Gowder Street, Coimbatore.
 Ramudu Chettiar Co., K.A.—Vysial Street, Coimbatore.
 Subramania Chettiar, V.M.—Vysial Street, Coimbatore.

HARDWARE & PAINT MERCHANTS

Ahduia & Sons.—Nawab Hakeem Road, Coimbatore.
 Abubaker Rowther, C.A.—Nawab Hakeem Road, Coimbatore.
 Assan Mohamed Rowther, T.K.—Ukkadam, Coimbatore.
 Bava Stores.—Ranga Gowder Street, Coimbatore.
 Bomman Chettiar, R.P.—Oppanakara Street, Coimbatore.
 Coimbatore Hardware & Paint Stores.—Mill Road, Coimbatore.
 Devasagayam M. Pillai & Sons.—Nawab Hakeem Road, Coimbatore.
 Industrial Engineering Stores.—Avanashi Road, Coimbatore.
 Kannappan Corporation Ltd.—Mill Road, Coimbatore.
 Lakshminarayan, P.—Rangal Gowder Street, Coimbatore.
 Malliah Chettiar, T.—Variety Hall Road, Coimbatore.
 Manickam & Co.—Mill Road, Coimbatore.
 M. Nanabhoj & Co.—Fraser Square, Coimbatore.
 Mohamed Hussain & Bros., H.—Mettupalayam Road, Coimbatore.
 Moideen U. S. Sahib.—Nawab Hakeem Road, Coimbatore.
 Navaneetham & Co.—Raja Street, Coimbatore.
 N. Veerasamy Chettiar.—Rangal Gowder Street, Coimbatore.
 Raju Naidu & Co., V.—Mill Road, Coimbatore.
 Rama & Co.—Mettupalayam Road, Coimbatore.
 Rangaswamy Naidu, P.N.—Avanashi Road, Coimbatore.
 Ranthubava K. Rowther & Sons.—Vysial Street, Coimbatore.
 Sarada Corporation.—Nawab Hakeem Road, Coimbatore.
 Titan Paint & Varnish Co.—Podanur, Coimbatore.
 U. K. Chary & Sons.—Variety Hall Road, Coimbatore.
 Ummer M. Sahib.—Rangal Gowder Street, Coimbatore.
 V. A. M. Ratham & Bros.—Vysial Street, Coimbatore.
 Venu Stores.—Rangal Gowder Street, Coimbatore.

HOSIERY MFRS. & DEALERS

Abdul A. M. Malik.—Nawab Hakeem Road, Coimbatore.
 Bharath Hosiery & Weaving Mills 1.—6, Dispensary Road, Peelamedu Post, Coimbatore.
 Bharath Knitting Works.—Fort, Coimbatore.
 Commercial Knitting Factory.—Variety Hall Road, Coimbatore.

J. Savarimuthu.—Bellam Krishna Chetty Street, Coimbatore.
 Mars Hosiery Mills.—Rangal Gowder Street, Coimbatore.
 R.B.W. Parrot Fabrics.—Raja Street, Coimbatore.

HOTELS & RESTAURANTS

O. S. Hotel.—Old Post Office Road, Coimbatore.
 O. S. Lodge.—Off Arts College Road, Coimbatore.
 Hotel Dave.—Imperial Bank Road, Coimbatore.
 Hotel Majestic.—Arts College Road, Coimbatore.
 J. M. English Hotel.—Avanashi Road, Coimbatore.
 Lucky Cafe Boarding & Lodging.—Avanashi Road, Coimbatore.
 Seetharam Villas.—Rangal Gowder Street, Coimbatore.
 Sree Seetharam Boarding & Lodging House.—Imperial Bank Road, Coimbatore.
 Sree Sumuka Vilas.—Big Bazar Street, Coimbatore.
 Sree Venkataasa Lodge.—Imperial Bank Road, Coimbatore.
 Woodland Hotel.—Arts College Road, Coimbatore.

INDUSTRIAL OILS

Alweyn's Motor Works.—Trichy Road, Coimbatore.
 A.N.M. & A. K. Chettiar.—Big Bazar Street, Coimbatore.
 Burmah-Shell Oil Depot.—Big Bazar Street, Coimbatore.
 Caltex (India) Ltd.—Big Bazar Street, Coimbatore.
 Coimbatore Premier Corporation.—Avanashi Road, Coimbatore.
 Dhanalakshmi & Co.—Trichy Road, Coimbatore.
 Industrial Oils Corporation.—Rajaji Road, Ramnagar, Coimbatore.
 Krishnaswamy Naidu & Bros., L.P.—Fraser Square, Coimbatore.
 Lakshminarayanaswamy, G.V.—Avanashi Road, Coimbatore.
 Sundaram & Co., J.B.—Jail Road, Coimbatore.
 Vilaya Motors.—Mettupalayam Road, Coimbatore.

INK MANUFACTURERS

Aiyam's Industries.—R.S. Puram, Coimbatore.
 Chetty, (S.P.).—Variety Hall Road, Coimbatore.
 Tarzo Products.—Variety Hall Road, Coimbatore.
 Vasanta Printing Ink Factory.—Trichy Road, Coimbatore.

JARI SILK & GOLD THREAD DEALERS

Nagiah Chetty & Co., A.P.—Oppanakara Street, Coimbatore.
 Sha Anraj Kishorelal.—Sukrawarpet, Coimbatore.
 Sha Fateah & Mehraj.—Oppanakara Street, Coimbatore.
 Sha Fulchand Parakh.—Rangal Gowder Street, Coimbatore.
 Sha Harichand Pokraj.—Oppanakara Street, Coimbatore.
 Sha Motilal Madanlal.—Oppanakara Street, Coimbatore.

JEWELLERS, GOLD & SILVERSMITHS

Angappa Achari, C.V.—Rangal Gowder Street, Coimbatore.
 Ayyava Gowder Son, E.—Big Bazar Street, Coimbatore.
 Balakrishna Chettiar, E.R.—Big Bazar Street, Coimbatore.
 Chandra Jewellery.—Big Bazar Street, Coimbatore.
 Chellam & Co.—Big Bazar Street, Coimbatore.
 Dandapani Jewellery Mart.—Big Bazar Street, Coimbatore.
 E. G. M. & Sons.—Big Bazar Street, Coimbatore.
 Kirtilal Kalidas & Co.—Raja Street, Coimbatore.
 Kodandarama Chettiar, S.—Big Bazar Street, Coimbatore.
 K. R. & Sons.—Big Bazar Street, Coimbatore.
 Krishna & Co., P.A.R.—Big Bazar Street, Coimbatore.
 Krishna Chetty & Brother, A.B.—Big Bazar Street, Coimbatore.
 Mangalore Jewellery Mart.—Raja Street, Coimbatore.
 Muthusamy Chettiar, T.K.—Big Bazar Street, Coimbatore.
 Narayana Achary Bros., K.P.—Big Bazar Street, Coimbatore.
 New Mangalore Jewellery Works.—Raja Street, Coimbatore.
 Pasupathy & Co.—Big Bazar Street, Coimbatore.
 Radhakrishna Jewellery.—Big Bazar Street, Coimbatore.
 Raghunath & Co., P.A.R.—Big Bazar Street, Coimbatore.
 Raju Chettiar, P.A.—Big Bazar Street, Coimbatore.
 Ramaswamy Chettiar, S.P.—Big Bazar Street, Coimbatore.
 Ramu & Co.—Big Bazar Street, Coimbatore.
 Ranganathan & Co., T.R.—Big Bazar Street, Coimbatore.
 Shanmuga Jewellery.—Big Bazar Street, Coimbatore.
 Sri Saradha Jewellery Co.—Coimbatore.
 Sri Vasavi & Co.—Big Bazar Street, Coimbatore.
 Subbara Acharya Sons, T.—Big Bazar Street, Coimbatore.
 Surya Jewellery.—Big Bazar Street, Coimbatore.
 Thirumalakani Achari & Bros., K.N.—Big Bazar Street, Coimbatore.
 Viwanath & Co., P.A.R.—Big Bazar Street, Coimbatore.
 Viwanathan, S.—Big Bazar Street, Coimbatore.

JUTE AND JUTE PRODUCTS DEALERS

Abdul Rahiman, P. N. & Muthuraju V.—Nawab Hakeem Road, Coimbatore.
 Jute & Hemian Traders.—R. S. Puram, Coimbatore.
 Mohamed Ibrahim Rowther, K.—Vysial Street, Coimbatore.
 Ramaswamy Mudaliar & Sons, M.—Vysial Street, Coimbatore.
 Subbiah & Co.—Vysial Street, Coimbatore.

LEATHER GOODS MFRS. & DEALERS

A. Abdul Azees.—Nawab Hakeem Road, Coimbatore.
 A. M. Kamal Batcha.—Nawab Hakeem Road, Coimbatore.
 Carnatic Leather Industries.—Big Bazar Street, Coimbatore.
 Crown Leather Works.—Nawab Hakeem Road, Coimbatore.
 Hindusthan Leather Mart.—Big Bazar Street, Coimbatore.
 H.M.F.A. Batcha.—Nawab Hakeem Road, Coimbatore.
 N. Mohamed Abdul Kader & Son.—Big Bazar Street, Coimbatore.
 B. Venkatesulu Naidu & Bros.—Nawab Hakeem Road, Coimbatore.
 S. K. Kanniah Naidu.—Nawab Hakeem Road, Coimbatore.
 S. K. Rangasamy Naidu.—Nawab Hakeem Road, Coimbatore.
 Taj Leather Store.—Nawab Hakeem Road, Coimbatore.
 V. Avanasilingam.—Nawab Hakeem Road, Coimbatore.

LORRY TRANSPORT AGENTS & CONTRACTORS

A. K. K. Rajasekaran.—Perumol Koll Street, Coimbatore.
 A. K. Wahab.—Ukkadam, Coimbatore
 Coimbatore Motor Transport Co-operative Society for Ex-Service-
 men.—Avanashi Road, Coimbatore
 C. M. Muthukrishna Naidu & Sons.—Trichy Road, Coimbatore.
 G. S. Mohideen.—South Ukkadam, Coimbatore.
 Haridas Bhagath & Co.—Crosscut Road, Coimbatore.
 Mani's Transport.—South Ukkadam, Coimbatore
 National Transport & Co.—Vysial Street, Coimbatore.

MACHINERY IMPORTERS & MFRS.

Argus Engineering Co. Ltd.—Avanashi Road, Coimbatore.
 Associated Electrical Industries Ltd.—Race Course Road,
 Coimbatore.
 Batliboi & Co.—Avanashi Road, Coimbatore.
 Brady & Co. Ltd. (W.H.).—Jail Road, Coimbatore
 British Insulated Callender's Cables Ltd.—Race Course Road,
 Coimbatore.
 Crompton Engineering Co. (Madras) Ltd.—Arts College Road,
 Coimbatore
 Galiakotwala & Co. Ltd.—Grey Town, Coimbatore.
 Gannon Dunkerley & Co. Ltd.—Crosscut Road, Coimbatore.
 Garlick & Co.—Cox Street, Coimbatore.
 General Electric Co. of India Ltd.—Magnet House, Avanashi Road,
 Coimbatore.
 Gordon Woodroffe & Co. (Madras) Ltd.—Fraser Square, Coimbatore.
 Jayems Engineering Co.—Oppanakara Street, Coimbatore.
 Parry & Co. Ltd.—Fraser Square, Coimbatore.
 P. S. G. Industrial Institute.—Peelamedu P.O., Coimbatore.
 Textool Co. Ltd.—Ganapathy, Coimbatore.

METAL & ALLOYS

Coimbatore Machinery & Metal Mart.—Fraser Square, Coimbatore.
 G. Marugesan.—Big Bazar Street, Coimbatore.
 India Metal & Alloys.—Fraser Square, Coimbatore
 Indian Metal & Metallurgical Corporation.—Oppanakara Street,
 Coimbatore
 K. Swaminathan Chettiar.—Big Bazar Street, Coimbatore

MILK & DAIRY FARMS

Charity Dairy Ltd.—Ramnagar, Coimbatore.
 Coimbatore Co-operative Milk Supply Union Ltd.—R. S. Puram,
 Coimbatore
 Kamadheenu Dairy.—Kattur, Coimbatore.

MILL & GIN STORES SUPPLIERS

Acme Textile Distributors.—4/20, Trichy Road, Coimbatore
 Altex Limited.—Avanashi Road, Coimbatore.
 Hipin Industries.—Crosscut Road, Coimbatore
 Brady & Co. Ltd., W.H.—Jail Road, Coimbatore
 Coimbatore Mill Stores & General Supplies Co.—Avanashi Road,
 Coimbatore.
 Coimbatore Premier Corp. Ltd.—Avanashi Road, Coimbatore.
 Iwas & Co.—Crosscut Road, Coimbatore
 Indian Overseas Trading Co. Private Ltd.—Power House Road,
 Coimbatore
 Industrial Engineering Stores.—Avanashi Road, Coimbatore.
 Phone: 606
 International Industries & Agencies Ltd.—Avanashi Road,
 Coimbatore.
 J. B. Sundaram & Co.—Jail Road, Coimbatore.
 Keseriah Vallabdas.—R. S. Puram, Coimbatore.
 Lakshmi Textile Suppliers.—Old Post Office Road, Coimbatore.
 L. P. Krishna Naidu & Bros.—Fraser Square, Coimbatore
 Mangaldas & Co.—Mill Road, Coimbatore.
 Morarji Ramji & Co.—8/8, Cox Street, Coimbatore.
 Nagindas Khabhai (S.I.) Ltd.—The Vintage, Cox Street, Coimbatore.
 Nanjandan & Co.—Raja Street, Coimbatore.
 P. N. Rangasamy Naidu.—Avanashi Road, Coimbatore.
 Popular Mill Stores Co.—Sambandam Road, Coimbatore.
 Shanmugam & Co.—Jail Road, Coimbatore.

Sising Materials Ltd.—Trichy Road, Coimbatore.
 Standard Commercial Corp.—Avanashi Road, Coimbatore.
 Textiles Supplies Syndicate (India) Ltd.—Crosscut Road, Coimbatore.
 Textool Co. Ltd.—Ganapathy, Coimbatore.

MUSICAL INSTRUMENTS DEALERS & MFRS.

Giri & Company.—Big Bazar Street, Coimbatore.
 Mohan Flute.—Variety Hall Road, Coimbatore
 Saraswathi Harmonium Co.—Big Bazar Street, Coimbatore.
 T. Krishna & Co.—Edayar Street, Coimbatore.
 Vathavadi Kandasamy Brothers.—Big Bazar Street, Coimbatore

NEWSPAPERS & NEWS AGENTS

Express News Papers Ltd.—Variety Hall Road, Coimbatore
 Nava India.—Peelamedu, Coimbatore
 Press Trust of India Ltd.—Anari Street, Coimbatore.

OIL ENGINES & SPARE PARTS

Batliboi & Co.—Avanashi Road, Coimbatore.
 Brady, W. H. & Co. Ltd.—Jail Road, Coimbatore.
 Dhandayuthapani Foundry Ltd.—Pappanakkenpalayam,
 Coimbatore
 Hardware & Machinery Marketing (India) Co.—5/6, Headquarters
 Office Road, Coimbatore
 Parry & Co. Ltd.—Fraser Square, Coimbatore.
 Rallis India Ltd.—Avanashi Road, Coimbatore
 Textool Company Ltd.—Ganapathy, Coimbatore
 Vijaya Foundry.—Pappanakkenpalayam, Coimbatore
 Volitas Ltd.—Race Course Road, Coimbatore

OPTICIANS

Banglore Optical Co.—Oppanakara Street, Coimbatore
 Imperial Optical Co.—Big Bazar Street, Coimbatore
 Indo-American Opticals.—Big Bazar Street, Coimbatore
 Madras Opticals.—Big Bazar Street, Coimbatore
 New Bombay Opticals.—Big Bazar Street, Coimbatore
 Pearl Optical Co.—Big Bazar Street, Coimbatore
 Posal Rangoon Opticals.—Variety Hall Road, Coimbatore
 Star Opticals.—Big Bazar Street, Coimbatore
 Taj Optical Co.—Big Bazar Street, Coimbatore
 Tharyan & Co.—State Bank Road, Coimbatore
 V. Ketticaran & Co.—Big Bazar Street, Coimbatore.

PAPER & BOARD MERCHANTS

Arumugham, A. M.—Subbiah Mudaliar Road, Coimbatore
 Hariharan (C.V.)—Raja Street, Coimbatore
 Hindusthan Traders.—Raja Street, Coimbatore
 Kilker Bros.—Oppanakara Street, Coimbatore
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 Anoka Photo Studio.—Big Bazar Street, Coimbatore.
 Carnatic Studio.—Edayar Street, Coimbatore
 City Camera House.—12/8-9, Variety Hall Road, Coimbatore
 Phone: 941.

City Photo Works.—Variety Hall Road, Coimbatore.
 Crown Photo Studio.—Variety Hall Road, Coimbatore.
 Dasen Studio (R.).—Oppanakara Street, Coimbatore.
 Enson Studio.—Trichy Road, Coimbatore.
 Harith Photographers.—Variety Hall Road, Coimbatore.
 India Arts Bureau.—Avanashi Road, Coimbatore.
 Jaya Studio.—Big Bazar Street, Coimbatore.
 Kannan Studio.—Variety Hall Road, Coimbatore.
 Power Photo Studio.—Crosscut Road, Coimbatore.
 Prince Studio.—Edayar Street, Coimbatore.
 Rajan Electric Studio.—Rangal Gowder Street, Coimbatore.
 Rajan Photo Studio.—Oppanakara Street, Coimbatore.
 Raju Electrical Studio.—Big Bazar Street, Coimbatore.
 Ramu Studio.—Raja Street, Coimbatore.
 Sakthi Studio.—Crosscut Road, Coimbatore.
 Studio Everest.—Big Bazar Street, Coimbatore.
 Studio Majestic.—Variety Hall Road, Coimbatore.

PHOTOGRAPHIC MATERIALS, IMPORTERS & DEALERS

Art Studio.—Variety Hall Road, Coimbatore.
 City Photo Works.—Variety Hall Road, Coimbatore.
 Dasen Studio.—Oppanakara Street, Coimbatore.
 Enson Studio.—Trichy Road, Coimbatore.
 Harith Photographers.—Variety Hall Road, Coimbatore.
 India Arts Bureau.—Avanashi Road, Coimbatore.
 Kannan Studio.—Variety Hall Road, Coimbatore.
 Prince Studio.—Avanashi Road, Coimbatore.
 Raja Studio.—Edayar Street, Coimbatore.

PLUMBERS (COPPERSMITHS, GASFITTERS, ETC.)

Ameer & Co. (A.).—Raja Street, Coimbatore.
 Muthu Water Supply & Sanitary Ware.—Raja Street, Coimbatore.
 Narayanaswamy (R.).—Edayar Street, Coimbatore.
 Sivasankaran (T.S.).—Raja Street, Coimbatore.
 Subha Rao (K.N.).—Nawab Hakeem Road, Coimbatore.
 Venkataswamy (K.).—Oppanakara Street, Coimbatore.

PRINTING PRESSES

Ajantha Press.—Raja Street, Coimbatore.
 Bharathi Press.—Raja Street, Coimbatore.
 City Printers.—Edayar Street, Coimbatore.
 Coimbatore Co-operative Printing Press.—State Bank Road, Coimbatore.
 Coimbatore Printing Press.—Oppanakara Street, Coimbatore.
 Dhandapani Press.—Raja Street, Coimbatore.
 Electric Printing Works.—Coimbatore.
 Kalai Kathir Press.—Pappanakkenpalayam, Coimbatore.
 Kasthuri Press.—Jail Road, Coimbatore.
 K. R. V. & Co.—Raja Street, Coimbatore.
 Literary Sun Press.—Rangal Gowder Street, Coimbatore.
 Modern Press.—Trichy Road, Coimbatore.
 Mohan Press.—Raja Street, Coimbatore.
 Pioneer Press.—Big Bazar Street, Coimbatore.
 P.S.G. & Sons.—Peelamedu, Coimbatore.
 Ramkrishna Industrials Ltd.—Avanashi Road, Coimbatore.
 Royal Press.—Big Bazar Street, Coimbatore.
 Star Power Press.—Thomas Street, Coimbatore.
 St. Joseph Industrial School & Press.—Big Bazar Street, Coimbatore.
 Swan & Co.—Oppanakara Street, Coimbatore.
 U.M.S. Power Press.—Gopal Baugh, Avanashi Road, Coimbatore.
 United Printers & Publishers (Coimbatore) Ltd.—Raja Street, Coimbatore.
 Victoria Press.—Big Bazar Street, Coimbatore.
 Workmen Press.—Avanashi Road, Coimbatore.

RADIOS & RADIO PARTS IMPORTERS, DEALERS & REPAIRERS

Associated Electrical Industries (India) Ltd.—Race Course Road, Coimbatore.
 Central Radio Service.—Avanashi Road, Coimbatore.
 General Electric Co. of India Ltd.—Magnet House, Avanashi Road, Coimbatore.
 Modern Agencies.—Avanashi Road, Coimbatore.
 Myco Corporation.—Avanashi Road, Coimbatore.
 Radio House.—Avanashi Road, Coimbatore.
 Rythm House, Nawab Hakeem Road, Coimbatore.
 Shetty & Company.—Jail Road, Coimbatore.
 United Engineering Co.—Avanashi Road, Coimbatore.
 Vaidyanath & Co.—State Bank Road, Coimbatore.
 V. Krishnaswamy & Co.—Avanashi Road, Coimbatore.
 V. S. Rajagopalan & Co.—Avanashi Road, Coimbatore.
 World Radio Agencies—7/2, Old Post Office Road, Coimbatore.

SOAP FACTORIES

Arian Soap Mfg. Co.—Rangal Gowder Street, Coimbatore.
 Cauvery Soap Co.—Oppanakara Street, Coimbatore.
 Helan Soap Co.—Rangal Gowder Street, Coimbatore.
 Kumaran Soap Works.—Sukrawarpet, Coimbatore.
 Santhi Soap Works.—Sukrawarpet, Coimbatore.
 Tomco Sales Depot.—Oppanakara Street, Coimbatore.

SURVEYS (BUILDING)

B. Sheriff.—Raja Street, Coimbatore.
 Daver & Bros.—Raja Street, Coimbatore.
 Meenakshisundaram, T. V.—Raja Street, Coimbatore.
 Veerasami, M. C.—Edayar Street, Coimbatore.

TANNERS & TANNERIES

Abdul Rahman, S. M. S.—Kurichy, Coimbatore.
 Abdul Wahab, T. M.—Kuniamuthur, Coimbatore.
 Chromoton Coimbatore Ltd.—Podanur, Coimbatore.
 Govindasamy Naidu Sons.—Rangal Gowder Street, Coimbatore.
 Guruviah Naidu & Bros., V.—Podanur Road, Coimbatore.
 Hassan Kadar & Sons, T.—Kuniamuthur, Coimbatore.
 Skins & Leathers Ltd.—Lokamanya Street, R. S. Puram, Coimbatore.

TEXTILE ENGINEERS & MACHINERY IMPORTERS, DEALERS & MFRS.

Altex Limited.—Avanashi Road, Coimbatore.
 Argus Engineering Co. Ltd.—Avanashi Road, Coimbatore.
 Batibol & Co.—Avanashi Road, Coimbatore.
 Bharat Trading Company.—Avanashi Road, Coimbatore.
 Brady & Co. Ltd., W. H.—Jail Road, Coimbatore.
 Coimbatore Premier Corp. Ltd.—Avanashi Road, Coimbatore.
 Crompton Engineering Co. (Madras) Ltd.—Arts College Road, Coimbatore.
 Diesel India.—Avanashi Road, Coimbatore.
 Gannon Dunkerley & Co. Ltd.—Crosscut Road, Coimbatore.
 Garlick & Co.—Cox Street, Coimbatore.
 Gollakotwalla & Co. Ltd.—Grey Town, Coimbatore.
 Gordon Woodroffe & Co. (Madras) Ltd.—Fraser Square, Coimbatore.
 Hardware & Machinery Marketing (India) Co.—Police H. Q. Road, Coimbatore.
 International Industries & Agencies Ltd.—Avanashi Road, Coimbatore.
 Jayems Engineering Co.—Oppanakara Street, Coimbatore.
 The Kasturi Engineers Ltd.—P.O. Box 231, Coimbatore.
 Kasturi Industries Ltd.—Avanashi Road, Coimbatore.
 L. P. Krishnasamy Naidu & Bros.—Fraser Square, Coimbatore.
 Mani & Co.—Old Post Office Road, Coimbatore.
 Modern Sales Corporation.—Avanashi Road, Coimbatore.
 Morarji Ramji & Co.—8/8, Cox Street, Coimbatore.
 Nagindas Kilabhai (South India) Ltd.—Cox Street, Coimbatore.
 Parry & Co. Ltd.—Fraser Square, Coimbatore.
 Pera Naidu & Sons, A.—Avanashi Road, Coimbatore.
 Pierce Leslie & Co. Ltd.—Race Course Road, Coimbatore.
 P.S.G. Industrial Institute.—Peelamedu P.O., Coimbatore.
 Radakrishna & Co.—Avanashi Road, Coimbatore.
 Rajan & Co., W. T.—Avanashi Road, Coimbatore.
 Ramakrishna Industrials Ltd.—Peelamedu, Coimbatore.
 Ramu Brothers.—Avanashi Road, Coimbatore.
 Textile Supplies Syndicate (India) Ltd.—Crosscut Road, Coimbatore.
 Textool Co. Ltd.—Ganapathy, Coimbatore.
 United Engineering Co.—Avanashi Road, Coimbatore.
 Universal Sales Corp.—Avanashi Road, Coimbatore.
 Voltas Ltd.—Race Course Road, Coimbatore.

TEXTILE PRODUCTS

All-India Kadi Vasthalaya.—Big Bazar Street, Coimbatore.
 Arumugam & Co., V. S. A.—Big Bazar Street, Coimbatore.
 Arumugam (Chettiar), C. S.—Big Bazar Street, Coimbatore.
 Balan P. & Brothers.—Rangal Gowder Street, Coimbatore.
 Balaiya A. Chetty.—Rangal Gowder Street, Coimbatore.
 Balasubramaniam Chetty, S. K.—Rangal Gowder Street, Coimbatore.
 Balusamy Chetty.—Rangal Gowder Street, Coimbatore.
 Benares Saree Museum.—Big Bazar Street, Coimbatore.
 Bharat Stores.—Big Bazar Street, Coimbatore.
 Bombay Ware House.—Big Bazar Street, Coimbatore.
 Chandaiya Chetty Sons, M.—Rangal Gowder Street, Coimbatore.
 Chandra Cloth Stores.—Big Bazar Street, Coimbatore.
 Chennayappan, S. R., & Co.—Oppanakara Street, Coimbatore.
 Chettiar & Co.—Raja Street, Coimbatore.
 Chinappa V. Pandaram.—Rangal Gowder Street, Coimbatore.
 Chinnappa Mudaliar & Son, M.—Vysial Street, Coimbatore.
 Chockalingam S. Chettiar.—Oppanakara Street, Coimbatore.
 G. Nanjappan.—Rangal Gowder Street, Coimbatore.
 Coimbatore Handloom Textiles.—Rangal Gowder Street, Coimbatore.

Coimbatore Swadeshi's Ltd.—Raja Street, Coimbatore.
 Coimbatore Textiles.—Raja Street, Coimbatore.
 Colombo Saree Works.—Big Bazar Street, Coimbatore.
 Co-operative Sales Emporium.—Raja Street, Coimbatore.
 O. S. Doraiswamy.—Rangal Gowder Street, Coimbatore.
 Deviah Chetty Erra R.—Rangal Gowder Street, Coimbatore.
 Dharma Rajan, T. K.—Rangal Gowder Street, Coimbatore.
 Doraiswamy B. Gowder.—Big Bazar Street, Coimbatore.
 Elliah A. K. Chetty.—Sukrawarpet, Coimbatore.
 Francis S. A. Chettiar.—Sukrawarpet, Coimbatore.
 Ganesh Hall.—Rangal Gowder Street, Coimbatore.
 Ganesh Emporium.—Oppanakara Street, Coimbatore.
 General Ware House Co. Ltd.—Big Bazar Street, Coimbatore.
 Gobind Silk House, Big Bazar Street, Coimbatore.
 Hanumantharam Ramnath Poonawalla.—Oppanakara Street, Coimbatore.

Hind Stores.—Oppanakara Street, Coimbatore.
 Indian Mills Depot.—Oppanakara Street, Coimbatore.
 Indian Sarees Mart.—Sukrawarpet, Coimbatore.
 Indian Suppliers Ltd.—Big Bazar Street, Coimbatore.
 Javantilal Shah.—Oppanakara Street, Coimbatore.
 Jofathi Ready-made Stores.—Big Bazar Street, Coimbatore.
 Jubilee Stores.—Big Bazar Street, Coimbatore.
 Jupiter Textiles.—Rangal Gowder Street, Coimbatore.
 Kannan Stores.—Crosscut Road, Coimbatore.
 Kanthan Stores.—Avanashi Road, Coimbatore.
 Karana Cloth Palace.—Raj Street, Coimbatore.
 Karana V. Elliah Chetty & Bros.—Rangal Gowder Street, Coimbatore.
 Khatau Mills Depot.—Big Bazar Street, Coimbatore.
 Khilinchand Chellaram.—Oppanakara Street, Coimbatore.
 Konniah G. R. Chetty.—Sukrawarpet, Coimbatore.
 Koolappa Rowther Stores.—Big Bazar Street, Coimbatore.
 Krishna Cloth Shop.—Big Bazar Street, Coimbatore.
 Krishna K. L. Gowder.—Rangal Gowder Street, Coimbatore.
 Kumar & Co.—Raja Street, Coimbatore.
 Kumarawamy K. Mudaliar.—Rangal Gowder Street, Coimbatore.
 Lakshmi Textiles.—Sukrawarpet, Coimbatore.
 Luakaran Pookraj & Co.—Big Bazar Street, Coimbatore.
 Madras Government Khader Depot.—Oppanakara Street, Coimbatore.

Maduram Stores.—Big Bazar Street, Coimbatore.
 Meda Gopala Chetty.—Big Bazar Street, Coimbatore.
 M. Moolchand.—Big Bazar Street, Coimbatore.
 Mohan Stores.—Big Bazar Street, Coimbatore.
 Moorthi Stores.—Crosscut Road, Coimbatore.
 Murugappa & Sons.—Raja Street, Coimbatore.
 Mysore Silk Museum.—Big Bazar Street, Coimbatore.
 Nanjunda Gowder, B., & Sons.—Big Bazar Street, Coimbatore.
 Narayanaswamy Naidu, G.—Big Bazar Street, Coimbatore.
 New Bombay Hall.—Raja Street, Coimbatore.
 Pasupathy & Co.—Raja Street, Coimbatore.
 Pound Shop.—Big Bazar Street, Coimbatore.
 Presidency Saree Mart.—Oppanakara Street, Coimbatore.
 Raheem Stores.—Big Bazar Street, Coimbatore.
 Rajaji Ware House.—Raja Street, Coimbatore.
 Rajaram Hall.—Raja Street, Coimbatore.
 Raju Chettiar, P. A., & Co.—Raja Street, Coimbatore.
 Rama Swadeshis.—Rangal Gowder Street, Coimbatore.
 Ramnarayan Girdharidas & Co.—Rangal Gowder Street, Coimbatore.
 Rangal Gowder, M.—Rangal Gowder Street, Coimbatore.
 Ratna Cloth Mart.—Big Bazar Street, Coimbatore.
 Royal Silk House.—Big Bazar Street, Coimbatore.
 Sankaran & Co.—Raja Street, Coimbatore.
 Sarada Cloth & Embroidery Stores.—Raja Street, Coimbatore.
 Satya Stores.—Big Bazar Street, Coimbatore.
 Sha Textiles.—Oppanakara Street, Coimbatore.
 Shanoy & Co.—Crosscut Road, Coimbatore.
 Shunmugham & Co.—Big Bazar Street, Coimbatore.
 Sivagnanam & Co., M.—Rangal Gowder Street, Coimbatore.
 Sivaraaj Textiles.—Rangal Gowder Street, Coimbatore.
 Sivaswamy, K.—Rangal Gowder Street, Coimbatore.
 Sri Ganeshar Textiles.—Raja Street, Coimbatore.
 Sri Kamala & Co.—Rangal Gowder Street, Coimbatore.
 Srinivas & Co., A. S.—Sukrawarpet, Coimbatore.
 Sri Ram Textile.—Vysial Street, Coimbatore.
 Subramaniam Chetty & Sons, K.—Oppanakara Street, Coimbatore.
 Sundaram Stores.—Big Bazar Street, Coimbatore.
 Swaraj Silk Palace.—Big Bazar Street, Coimbatore.
 Thomas Brothers.—Oppanakara Street, Coimbatore.
 Truthful Readymade Cloth Stores.—Big Bazar Street, Coimbatore.
 Venkatsadri Chetty, S. V.—Rangal Gowder Street, Coimbatore.
 Venkatarama Gowder & Sons, A.—Rangal Gowder Street, Coimbatore.
 Venkataramana Stores.—Rangal Gowder Street, Coimbatore.
 Venkatesh Emporium.—Big Bazar Street, Coimbatore.
 Venkataswamy Chetty, L.—Sukrawarpet, Coimbatore.
 Venkataswamy Naidu, K. N.—Big Bazar Street, Coimbatore.
 Vilaya Lakshmi Cloth Emporium.—Yadavar Street, Coimbatore.
 Vilayalakshmi Hall.—Oppanakara Street, Coimbatore.
 Vinayoga Stores.—Edayar Street, Coimbatore.
 Viswanatha Iyer, C. S.—Raja Street, Coimbatore.

TIMBER MERCHANTS

Appa & Sons, K. V.—Mill Road, Coimbatore.
 Blue Mountain Trading Co.—Coimbatore.
 Cochin Timber & Tiles Depot.—Mettupalayam Road, Coimbatore.
 Ibandapani & Co., S. V.—Avanashi Road, Coimbatore.
 F.roke Timber & Tile Co.—Mettupalayam Road, Coimbatore.
 Jothi Timber Mart.—Mettupalayam Road, Coimbatore.
 Khashim & Co., S.—Mill Road, Coimbatore.
 Oriental Timber Syndicate—Variety Hall Road, Coimbatore.
 Packer & Co.—Mettupalayam Road, Coimbatore.
 Rama & Co.—Mettupalayam Road, Coimbatore.
 Ramaswamy & Sons, P.—Mettupalayam Road, Coimbatore.
 Ranganathan & Co.—Mill Road, Coimbatore.
 Thangappa, K. K.—Nawab Hakeem Road, Coimbatore.

TOBACCO & TOBACCONISTS

Abdulsalam Rowther.—Rangal Gowder Street, Coimbatore.
 Andy Chettiar, V.—Big Bazar Street, Coimbatore.
 Linga Gowder, M.—Rangal Gowder Street, Coimbatore.
 Patel & Co., J. D.—Oppanakara Street, Coimbatore.
 Rangaswamy, I.—Big Bazar Street, Coimbatore.

TYPEWRITERS

Kayres Ltd.—Fraser Square, Coimbatore.
 Natarajan, V. R.—Jail Road, Coimbatore.
 Remington Rand Inc.—Big Bazar Street, Coimbatore.
 Underwood Typewriter Agency—R. S. Puram, Coimbatore.
 Voltas Ltd.—Race Course Road, Coimbatore.

TYRE RETREADING WORKS

Auto Retread Tyres.—Raja Street, Coimbatore.
 Dhanaalakshmi Vulcanising Works—Podanur Road, Coimbatore.
 Free India Tyre Works—Mettupalayam Road, Coimbatore.
 Good Shepherd Tyres, Ukkadam, Coimbatore.
 Nanco Rubber & Plastics Ltd., A. T. T. Colony, Coimbatore.
 National Tyre Works—Mettupalayam Road, Coimbatore.
 Rani & Co.—Oppanakara Street, Coimbatore.
 Special Guaranteed Tyre Co., Ukkadam, Coimbatore.
 Stanley Motors (South India) Ltd.—Trichy Road, Coimbatore.
 St. Antony Tyre Works—Raja Street, Coimbatore.
 United Vulcanising Works—Mettupalayam Road, Coimbatore.

UTENSILS

Arunachalam Chettiar, A. P., & Sons—Big Bazar Street, Coimbatore.
 Nanjappa Chettiar, A.—Big Bazar Street, Coimbatore.
 Ramalingam Chettiar, K.—Raja Street, Coimbatore.
 Rangiah & Sons, C. R.—Coimbatore.
 Sundaram, C. S.—Big Bazar Street, Coimbatore.

WATCHES & CLOCKS (IMPORTERS, DEALERS & REPAIRERS)

Abdul Watch Co., P. K.—Big Bazar Street, Coimbatore.
 Azim & Sons.—Oppanakara Street, Coimbatore.
 Bextex-Time House—Oppanakara Street, Coimbatore.
 Bharath Watch Co.—Raja Street, Coimbatore.
 City Watch House—Nawab Hakeem Road, Coimbatore.
 Expert Watch House.—Raja Street, Coimbatore.
 Gajendra Watch Repairing House—Sukrawarpet, Coimbatore.
 Globe Watch Co.—Oppanakara Street, Coimbatore.
 Meeran & Co., P. K.—Big Bazar Street, Coimbatore.
 Modern Watch Co.—Big Bazar Street, Coimbatore.
 Mohan Watch Works.—Nawab Hakeem Road, Coimbatore.
 National Watch Co.—Big Bazar Street, Coimbatore.
 New Watch & Radio Co.—Oppanakara Street, Coimbatore.
 Rajan Watch Co.—Sukrawarpet, Coimbatore.
 Rathnam & Co., R. P.—Avanashi Road, Coimbatore.
 Record Watch Co.—Avanashi Road, Coimbatore.
 Swiss Watch House—Oppanakara Street, Coimbatore.
 Well Done Watch Co.—Avanashi Road, Coimbatore.

YARN MERCHANTS

Abdul Salem Bros.—Oppanakara Street, Coimbatore.
 Asher & Co., N. V.—Dewanahadur Road, Coimbatore.
 Chettiar & Co.—Raja Street, Coimbatore.
 Cotton Textiles Ltd.—Mal Mill Road, Coimbatore.
 Haji Jiva & Haji Khamas & Co.—Oppanakara Street, Coimbatore.
 Kalyani & Co.—Rangal Gowder Street, Coimbatore.
 Madras Trading Corporation—Oppanakara Street, Coimbatore.
 Ponnusamy Chetty & Co., K. S.—Sukrawarpet, Coimbatore.
 Rajalingam Chettiar & Co.—Oppanakara Street, Coimbatore.
 Seethachalam Chettiar & Sons, V. G.—Oppanakara Street, Coimbatore.
 Sivagnanam & Co., M.—Rangal Gowder Street, Coimbatore.
 Sri Kamala & Co.—Rangal Gowder Street, Coimbatore.

MANIPUR

(See p. 1084)

MYSORE STATE

Area: 74,861* sq miles (Surveyor General of India's figure).

Population: 19,401,193. **Density of Population:** 259.*

Capital: Bangalore.

Strength of the Legislative Council: 63; of the Legislative Assembly: 200 including one nominated; No. of members returned to the Lok Sabha: 26; No. returned to the Rajya Sabha: 12.

The State is divided into four Divisions for administrative purposes.

The Divisions as well as the Districts which make up each Division are shown below. The names of the District headquarters are given in brackets after the names of the Districts.

1. Bangalore Division: Bangalore (Bangalore), Kolar (Kolar), Tumkur (Tumkur), Chitaldurga (Chitaldurga), Bellary (Bellary).

2. Mysore Division: Mysore (Mysore), Mandya (Mandya), Hassan (Hassan), Chikmagalur (Chikmagalur), Shimoga (Shimoga), South Kanara (Mangalore), Coorg (Mercara).

3. Belgaum Division: Belgaum (Belgaum), Dharwar (Dharwar), Bijapur (Bijapur), North Kanara (Karwar).

4. Gulbarga Division: Gulbarga (Gulbarga), Bidar (Bidar), Raichur (Raichur).

There are 10 Districts, 170 Talukas, 288 towns and 25,800 villages.

The area and population of each District and of the Talukas into which the Districts are divided are given under each District.

Abolition or reorganization of the District Boards is under the consideration of the State Government.

CENSUS

Some general figures relating to census are given below.

Total population: 19,401,193; Males: 9,866,533; Percentage of males: 50.9; Females: 9,534,660; Percentage of females: 49.1.

Urban: 4,455,985; Percentage of urban population: 23; Rural: 14,945,208; Percentage of rural population: 77.

Agricultural: 13,820,661; Percentage of total: 71.2; Owner cultivators: 9,245,978; Percentage: 47.7; Tenant cultivators: 1,812,223; Percentage: 9.3; Agricultural labourers: 2,102,958; Percentage: 10.8; Non-cultivating owners: 659,502; Percentage: 3.4.

Non-agricultural: 5,580,532; Percentage of total: 28.8; Production (other than cultivation): 1,980,665; Percentage: 10.2; Commerce: 1,061,602; Percentage: 5.5; Transport: 230,956; Percentage: 1.2; Other services: 2,307,309; Percentage: 11.9.

Scheduled Castes: 2,583,142; Percentage of total: 13.3; Scheduled Tribes: 80,402; Percentage of total: 0.41.

Literates: 3,737,286; Percentage: 19.3; Literate males: 2,864,360; Percentage: 29.0; Literate females: 872,926; Percentage: 9.2; Rural: 2,105,274; Percentage: 14.6; Urban: 1,572,012; Percentage: 35.3.

AGRICULTURE

Figures for land utilization are given below in acres. They relate to the year 1956-57.

The figures within brackets are area in thousand acres and percentage to total area respectively:

Total geographical area (47,911:—); Geographical area according professional survey (46,629,100), according to village papers (25,463:—);

*This is slightly different from the Central Government figure.

Total cropped area (24,645; 53.5); Area sown more than once (818:—); Fallow land (3,584; 7.8); Current fallow (2,420; 5.2); Other fallows (1,164; 2.5); Land not available for cultivation (4,113; 8.9); Land put to non-agricultural uses (1,854; 4.0); Barren and uncultivable land (2,259; 4.9); Other uncultivable land excluding fallow land (7,026; 15.3); Permanent pastures and other grazing lands (4,470; 9.7); Land under miscellaneous tree crops and groves not included in area sown (934; 2.0); Cultivable waste (1,622; 3.6); Forests (6,661; 14.6).

Note: Preliminary figures.

Figures for area under principal crops are given below in thousand acres with average yield per acre in lbs. (5 year average) within brackets. They relate to the year 1956-57.

Cereals—

Rice 2,198 (978); Jowar 5,732 (383); Bajra 1,198 (223); Maize 28 (530); Ragi 2,226 (587); Wheat 733 (209); Other cereals and small millets 1,221 (250).

Pulses—

Gram 402 (271); Tur 625 (323); Other pulses 1,945 (240).

Oilseeds—

Groundnut 2,221 (503); Sesamum 151 (165); Rape and Mustard 8 (310); Linseed 142 (165); Castor seed 112 (167).

Fibres—

Cotton 2,803 (58); Mesta 60 (416).

Plantation Crops—

Coffee 167 (235); Tea 4.6 (608); Rubber 4.0 (228).

Condiments and Spices—

Ginger 1 (1,120); Chillies 252 (324).

Miscellaneous—

Sugarcane 124 (4,983); Tobacco 110 (392); Potato 14 (2,601).

The normal annual food production, excluding pulses, is taken to be 30 lakh tons. The total paddy output of the State in 1956-57 was about 1,025,300 tons. The trend in the production indices of food crops is indicated by the following figures: 1952-53 (100.0 base): 1953-54 (128.1); 1954-55 (142.4) and 1955-56 (148.6). In 1957-58 five districts of the State experienced scarcity conditions, crops there having failed partly or wholly, owing to untimely rains. These districts were Mysore, Mandya, Bangalore, Kolar and Tumkur.

Animal Husbandry (Thousands): No. of cattle in the State 8,966, of buffaloes 2,669; of sheep 4,060; of goats 2,584; of horses and ponies 44; Poultry 7,668.

Inland Fisheries: 3,500 tons of fish are produced annually of the value of Rs. 10 lakhs. There are three rural fishery demonstration units one fresh water fishery research station and 14 fish farms. There are also 5 fish co-operatives.

Number of tanks 20,000; number of reservoirs 5,000; number of multi-purpose projects 14; length of rivers 3,800 miles; number of fishery divisions 13; quantity of dry fish annually stocked 20 lakhs.

Marine Fisheries: There are three fishing harbours, 200 fishing villages, 10,000 fishing boats, 40,000 fishing nets, and 20,000 fishermen. The total quantity of fish caught is 80,000 tons and the value Rs. 2 crores. There are 48 fish curing yards, 42 fishermen's co-operatives, 25 fishery schools, 20 fish-meal and oil plants, 2 cold storage ice plants and 10 mechanized boats.

The value of fish exported Rs. 83 lakhs; number of teachers in fishery schools 159; annual fish production per fisherman 4 tons; number of people depending on fish industry 123,000; number of transport vans 3; number of administrative units in charge of gazetted officers 4; varieties of marine fish 40.

Community Development Programmes (As on April 1958): No. of blocks 120; No. of taluks covered 95; Percentage of: area covered 57, population covered 66 and villages covered 56.

LAND REFORMS

Mysore is yet to evolve a uniform law to bring about significant land reforms in all parts of the State. A Land Reforms Bill was introduced in the State Assembly on November 29, 1956 by the Revenue Minister.

A net annual income from land of Rs. 3,800 (equivalent to the yield of three family holdings) is proposed as the basis for a ceiling on land holdings in the Bill.

The ceiling however, does not apply to: (a) plantation crops, (b) orchards constituting reasonably compact areas, (c) specialised farms set apart for cattle breeding, dairying and wool-rising, (d) sugarcane farms owned by sugar factories and (e) efficiently-managed farm consisting of compact blocks.

The new Bill is to replace five separate tenancy laws existing in various parts of the State.

The Bill is generally modelled on the recommendations of the Mysore Tenancy and Agricultural Land Laws Committee, headed by Mr. B. D. Jatti, in 1957, with some changes in the light of the opinions expressed in the Legislature and the suggestions made by the Central Committee on Land Reforms of the Planning Commission.

It has been calculated that about 2.5 million acres will be transferred to tenants under the provisions of the Bill. Compensation payable to land-owners will amount to Rs. 37.5 crores.

There are 24.6 lakh holdings in the State comprising 267.8 lakh acres. The average size of a holding is 10.87 acres. The largest number of holdings is the size-group of 2.5 to 5 acres. Of the total area of 267.8 lakh acres, 206.4 lakh acres are under personal cultivation. About 61.4 lakh acres (or 22.95 per cent) are cultivated by tenants. The percentage of land under tenant cultivation varies from district to district. Hassan District has the smallest proportion (2.84 per cent) under tenant cultivation and South Kanara the highest (65.86 per cent).

According to the 1951 census, 71.2 per cent of the total population are dependent on agriculture in the areas now comprising Mysore State. About 47.7 per cent of them are principally owner-cultivators, 9.3 per cent agricultural labourers and 3.4 per cent rent receivers. The Jatti Committee report says that only 28 per cent of the people working on land are landless and the owner-cultivators are more than 13 times those who rent the land.

FOREST

Forest area: 13,553.12 sq. miles.

The forests are rich in teak, rosewood, ventenak, tumkino, white cedar, ebony, etc. Rich forest areas hitherto untapped are also present with bamboos and soft wood species, potential sources of raw material for paper, rayon, plywood and matchwood industries. The revenue of the forest department is about Rs. 3.50 crores per annum.

IRRIGATION

The total area irrigated is 1,766,000 acres. Of this the area irrigated by Government canals is 401,000 acres, by private canals 14,000 acres, by tanks 786,000 acres, by wells 322,000 acres, other sources 243,000 acres.

Large Irrigation Projects in Execution

Name of the Project.	Location.	When started.	Completion	Area to be irrigated in Acres	Total cost in lakhs	Estimated rise in output after completion in tons
Tungabhadra Project ¹						
(a) Left Bank Channel ..	Rakur District	1945	1959	5,80,000	2 557 00	39,704
(b) —do— Right Bank Channel ² (Low Level)	Bellary District	1945	1954	92,346	64 44	
Rajolibanda Diversion Scheme ³ ..	Rakur District.	1947	1959	6,480	493 00	
Bhadra Reservoir Project ⁴ ..	Chickmagalur District	1947	1961	2,34,200	2 442 00	38,397
Tunga Anicut Project ⁵ ..	Shimoga.	1946	1958-59	21 500	2 11 12	6 467
Nugu Reservoir Project ⁶ ..	Mysore District	1947	1958-59	20 000	244 25	8 600
Ambilgola Reservoir Project ..	Shimoga District	1953	1960	6 944	64 7	2 964
Naranapur Anicut ..	Chitaldurg District	1952	1959	2 210	23 50	950
Kariyala Tank (Gayatri Reservoir)	Chitaldurg District	1951	1958-59	2,050	25 45	1 114
(a) Kolchi Weir Project 1st Stage ⁷	Belgaum	1949	1960	3 650	42 05	720
(b) —do— High Capacity Canal II Stage ⁸				8 000	21 50	
Ghataprabha I Stage ⁹ ..	Belgaum and Bijapur Districts	1949	1958	1 20 000	545 00	
Ghataprabha II Stage ..	Bijapur District	1956	1961	1,74,000	970 00	
Ramanahalli Tank ..	Bijapur District	1954	1959	4 800	40 80	900 ¹⁰
Kalskap Tank ..	Bijapur District.	1953	1959	2 823	19 79	504
Arashankar Tank ..	Bijapur District	1953	1959	3 100	21 07	611
Kabini Reservoir Project..	Mysore District	1957	1961	30 000	250 00	30 000 ¹⁰
Dharma Project ..	Dharwar District	1957	1960	14 000	67 00	1 850
Lakshmanathirtha Project	Coorg District	1957	1961	3 200	30 12	
Chickhole Reservoir ..	Mysore District	1957	1961	4,500	28 40	

¹ Water was allowed for an area of 39,500 acres during 1956-57 of which 25,000 acres were irrigated. ² Water made available for 57,601 acres of which 25,000 acres were actually irrigated during 1956-57. ³ Total extent of area to be irrigated is 1.15 lakh acres of which 7,400 acres are in Mysore State limits. ⁴ Works to an extent of irrigating 17,894 acres have been completed. An area of 6,146 acres has been developed as per crop planning. Estimated output: Rice 38,397 tons, Sugarcane 91,777 tons, other crops 21,132 tons. ⁵ Water was allowed to irrigate 19,135 acres during 1956-57, but the actual area brought under cultivation is 14,000 acres. ⁶ Water made available for irrigating 2,000 acres during the irrigation season of 1956-57. ⁷ The canal is proposed to be extended at a cost of Rs 21.50 lakhs to irrigate an additional area of 8,000 acres. ⁸ Area served with irrigation facilities for 76,000 acres upto end of March 1957, but the actual area irrigated is 15,510 acres. ⁹ Wheat 800 tons. ¹⁰ Paddy.

Expenditure incurred on the above projects upto March 1, 1958:

Tungabhadra Project: Rs 2,274.8 lakhs; Rajolibanda Division Scheme: Rs 291.18 lakhs; Bhadra Reservoir Project: Rs 1,051 lakhs; Tunga Anicut Project: Rs 210 lakhs; Nugu Reservoir Project: Rs 257 lakhs; Ambilgola Reservoir Project: Rs 31.15 lakhs; Naranapur Anicut: Rs 22.61 lakhs; Kariyala Tank (Gayatri Reservoir): Rs 23.87 lakhs; Kolchi Weir Project, I Stage and Kolchi High Capacity Canal, II Stage: Rs 34.83 lakhs; Ghataprabha, I Stage: Rs 530.48 lakhs; Ghataprabha, II Stage: Rs 64.91 lakhs; Ramanahalli Tank: Rs 31.31 lakhs; Kalskap Tank: Rs 15.79 lakhs; Arashankar Tank: Rs 18.76 lakhs; Kabini Reservoir Project: Rs 0.47 lakhs; Dharma Project: Rs 4.51 lakhs; Lakshmanathirtha Project: Rs 0.43 lakhs; Chickhole Reservoir: Rs 0.59 lakhs.

Tunga, estimated to cost Rs 2.31 crores and irrigate 22,000 acres upto 1956-57, Rs 198.17 lakhs were spent on it.

Nugu, estimated to cost Rs 2.44 crores and irrigate 20,000 acres upto Dec. 1956-57, Rs 241.69 lakhs were spent on it.

Ambilgola, estimated to cost Rs 56 lakhs and irrigate 7,000 acres upto 1956-57, Rs 21.35 lakhs were spent on it.

Ghataprabha Left Bank Canal, estimated to cost Rs 5.45 crores and irrigate 1.2 lakh acres upto Dec 1956-57, Rs 1.75 crores were spent on it. The Districts to benefit are Belgaum and Bijapur.

Tungabhadra Project estimated to cost about Rs 43 crores in all.

The Tungabhadra Dam is situated on the river Tungabhadra at Malapuram, three miles from Hospet in the Bellary District of Mysore State. This is a joint project of the Governments of Andhra and Mysore.

(For details see article on Irrigation)

The Bhadra or Lakkavalli, estimated to cost about Rs 26 crores, is designed to impound 61,250 million cubic feet of water on the River Bhadra, irrigating 2,34,200 acres of land in Mysore State, and generating 25,000 Kw firm power, installed capacity being 40,400 Kw. The Project was

started in 1947 and by June 1957, about Rs 9 crores had been spent. The dam has risen to nearly half the total height and irrigation was started on the left bank canal during 1956-57.

CO-OPERATION

(See under article entitled "Co-operative Movement").

ELECTRICAL POWER

Installed capacity (1957-58) 190,624 Kw

Total capacity of power plant installed in State: Hydrl 178,200 Kw; Diesel 12,204 Kw; Total effective capacity: Hydrl 142,000 Kw; Diesel 4,300 Kw

Total production (1957) 909,898 mln Kwh, (Hydrl 894,500 mln Kwh, Thermal 15,398 mln Kwh), 1957-58 (6 months), 452,854 mln Kwh, (Hydrl 450,533 mln Kwh, Thermal 2,321 mln Kwh)

Number of units supplied to industry (1957): 537,374 mlns.

Hydro-Electric Projects under Construction

Name of Project	Location.	Commencement	Completion	Installed capacity	Cost in crores of Rs
Sharavathi Valley Project ..	15 miles from Talaguppa Rly Station near Jog (Linganamakhi)	1956	1962 (I Stage)	174,200 Kw (a)	22.97 (I Stage)
Bhadra Hydro Electric Project	18 miles from Bhadravathi (Lakkavalli)	1954	1961	37,200 Kw (b)	2.42
Tungabhadra Hydro Electric Project Right Bank.	4 miles from Hospet Rly Station	1953	1961	36,000 Kw (c)	1.44 (Mysore's share)
Tungabhadra Hydro Electric Project Left Bank.	3 miles from Munirabad Rly Station (Mallapuram).	1955	1961	27,000 Kw (d)	4.6635

Estimated rise in output after completion is about 1,466 million units over the 1956-57 figure

(a) 191,000 Kw ultimate capacity. (b) 40,400 Kw ultimate capacity (c) Ultimate capacity 72,000 Kw Two units of 9,000 Kw installed and two more units being installed. (d) Ultimate capacity 36,000 Kw.

* Excluding the expenditure incurred in Andhra limits.

Names of power stations now in operation, their location, installed capacity and production :

Name.	Installed capacity (Kw.).	Location.	1956-57 Production.
			Million units
Sivasamudram ¹	42,000	28 miles from Madur Rly. Stn. towards South East.	121-000
Shimshapura ¹	17,200	28 miles from Madur Rly. Stn. towards South East.	92-000
Jog (M.G.H.E. ² Works)	120,000	12½ miles from Talaguppa Rly. Stn. towards north.	616-000
Tungabhadra Hydro Elec. Works ^{1*}	9,000†	4 miles from Hospet Rly. Station.	(57.58) estimated for one year.
Mercara ²	270	Mercara.	0-4
Somvarpet ²	184	Somvarpet.	0-087
Virajpet ²	304	Virajpet.	0-147
Kudige ²	65	Kudige.	0-015
Honikoppal ²	80	Honikoppal.	0-030
Ralchur ²	688	Ralchur.	1-688
Gulbarga ²	630	Gulbarga.	1-191
Yadgir ²	431	Yadgir.	0-364
Balihongal ²	150	Balihongal.	0-063
Guledgud ²	400	Guledgud.	Starting.
Hukal ²	400	Hukal.	0-508
Ilkal ²	200	Ilkal.	0-07

¹ These are hydel stations. ² These are diesel stations.

The following are some of the other diesel stations with the installed capacity in Kw. : Sandur 78 Kw.; Udipi 110 Kw.; Karkala 32 Kw.; Mangalore 1,284 Kw.

* Right Bank (Andhra and Mysore) Dam Site and canal stations. Mysore share 1/5th (only two units of 9,000 Kw. now in service).† Mysore's share of 25 per cent.

Sharavathi Hydro-Electric Project : It is the biggest hydro-electric project of the country, located at 15 miles from Talaguppa Rly. station near Jog, within easy distance of land centres and benefiting Mysore State and ultimately parts of the neighbouring States of Bombay, Andhra, Madras and Kerala. Electricity produced in this Rs. 40 crore scheme will be the cheapest in India. The foundation was laid by Mr. K. K. Patil, former Union Minister for Irrigation and Power on February 5, 1958. When the ten units that are proposed to be installed go into operation in four or five years the Sharavathi hydel station will produce 891,000 Kws. of power.

LARGE-SCALE INDUSTRIES

Main large-scale industries in the State with location : Textiles (Bangalore, Davangere, Bellary, Mysore, Hubli, Gadag, Gokak); Engineering (Bangalore, Harihar); Mineral and Metal (Bangalore, Bhadravati, Bellary, Kolar, Shimoga); Food, drink and tobacco (Bangalore); Chemicals, dyes, etc. (Bangalore, Mysore); Paper and printing (Bhadravati, Nanjangud and Bangalore); Process relating to wood, stone and glass (all over the State); Process connected with hides and skins (Bangalore); Gums and resins (Davangere and surrounding areas); Fisheries (Mangalore, Karwar).

Industries owned by State Government : The Central Industrial Workshop, Bangalore; The Mysore Iron and Steel Works, Bhadravati; The Government Soap Works, Bangalore; The Mysore Silk Weaving Factory, Mysore; The Government Porcelain Factory, Bangalore; The Mysore Implements Factory, Hassan; The Government Electric Factory, Bangalore.

The erection of a new cast iron spun pipe plant in the Mysore Iron and Steel Works, Bhadravati was completed in October 1957 at a cost of Rs. 55 lakhs. It will enable the Mysore Iron and Steel Works to increase the production of iron needed for water supply schemes.

The erection of the plant marks the completion of the first stage of the development of the Mysore

Iron and Steel Works under the Second Five-Year Plan. The Government of India has provided Rs. 6 crores under the Plan for the development of the works.

Major industries owned by the Union Government located in Bangalore : The Hindustan Machine Tools Ltd.; Bharat Electronics Ltd.; The Hindustan Aircraft Ltd., Bangalore; The Indian Telephone Industries, Bangalore.

Government Aided Concerns : The Radio & Electrical Manufacturing Co., Bangalore; The Mysore Lamp Works, Bangalore; The Mysore Paper Mills, Bhadravati; The Mysore Sugar Company, Mandya and The Mysore Industrial & Testing Laboratory Ltd., Bangalore; The Mysore Spun Silk Mills, Channarayana, The Mysore Chemicals and Fertilisers, Belagola; The Mysore Tobacco Co. curing centres at Mandya, Mysore, Kolar; The Mysore Stoneware Pipes and Potteries, Soladevanahalli, near Chikbanavar Railway Station; The Mysore Coffee Curing Works, Chikmagalur; The Mysore Chrome Tanning Co., Bangalore; The Mysore Lamp Works, Bangalore.

Besides, there are a number of private concerns representing various industries. They include The Bangalore Woollen, Cotton and Silk Mills, Bangalore, The Mysore Spinning and Manufacturing Co., Bangalore; Minerva Mills, Bangalore; Sri Krishnarajendra Mills, Mysore; Shree Shankara Textile Mills, Davangere; The Mysore Kirloskar Ltd., Harihar; Kirloskar Electric Co., Bangalore; The Mysore Machinery Manufacturers, Bangalore; Steel Construction Co., Bangalore.

The main industries in Belgaum and Dharwar districts are textiles, paper and printing and processes relating to wood, stone and glass. The textile industry supports the largest number of workers. There are three textile mills in Dharwar and one in Belgaum.

In Gulbarga and Raichur districts, the major industries are (1) the Hyderabad Gold Mines Co. Ltd., (2) the Associated Cement Companies Ltd., Shahabad and (3) MSK Mills Ltd., Gulbarga (Textiles).

The cashewnut industry is one of the most important both in North and South Kanara.

In South Kanara it gives employment to about 5,500 workers. South Kanara produces 2,880 tons of nuts. Besides, about 9,000 tons of cashewnuts are imported from Africa for processing in the local factories.

The West Coast Paper Mills, a Rs. 5 crore self-contained unit for the manufacture of paper with a daily capacity of 60 tons, was inaugurated at Dandell in North Kanara District on May 16, 1959.

Quantity of fine gold produced during 1956-57 : 1.94 lakh ounces. Value : Rs. 514 lakhs.

Quantity of fine silver produced during 1956-57 : 13,000 ounces. Value : Rs. 57,000.

LABOUR

The names of industries in the State with number of factories and average number of workers employed per day respectively within brackets for the year ended 31st December 1956 : Engineering (194 ; 31,000); Textile (303 ; 42,000); Chemical (98 ; 5,000); Wood, stone and glass (144 ; 10,000); Food, drinks and tobacco (435 ; 33,000); Hides and skin (33 ; 1,000); Ginning and pressing (246 ; 10,000); Mineral and metal (43 ; 25,000); Paper and printing (75 ; 4,000); Others (64 ; 10,000).

(Based on the census of manufacturing industries.)

Total number of working factories, factories submitting returns and average number of workers employed respectively : 1,869, 1,276; 1,22,934.

Provisions of the Minimum Wages Act, 1948 are in force in respect of agricultural labour in the following taluks : Bangalore District (Ramanagaram and Devanahalli taluks); Mysore District (Gundlupet and Periyapatna taluks); Mandya District (Malavalli and Srirangapatna taluks); Hassan District (Holenarasipura and Belur taluks); Chikmagalur District (Narasimharajapur and Kadur taluks); Shimoga District (Sorab and Shikaripur taluks and three of Sagar taluk); Talaguppa, Kasaba and Anandapuram (Community project areas); Chitaldurga District (Harihar and Chellakere taluks); Tumkur District (Pavagada and Kunigal taluks); Kolar District (Bagipalli and Sriharasapur taluks); Bellary District (Bellary taluk).

In the integrated areas, minimum wages under the Act in respect of agriculture is in force in Raichur and Coorg districts only.

Minimum rates of wages under the Act have been fixed for the following scheduled employment in the merged areas noted below :

Hyderabad Area : Employment in rice, flour and dal mills, oil mills, bidi making, tanneries, stone breaking or crushing, road construction and building operations, agriculture.

Madras Area : Employment in woollen carpet making, flour mills and dal mills, tobacco manufactory (bidi making), plantations, oil mills, local authority, road construction and building operations, stone breaking and stone crushing, mica works, motor transport and tanneries.

Bombay Area : Employment in rice, flour and dal mills, bidi making, oil mills, local authority, stone breaking or crushing, road construction and building operations, public motor transport, tanneries and leather manufactory, printing press, salt pans and ginning and pressing.

Coorg Area : Employment in Coffee plantations, agriculture, public motor transport and cardamom plantations.

Number of tenements put up by employers in Mysore State upto 1957 in the respective divisions : Bangalore Division 2,690; Kolar Division (under Mines Housing Scheme) 10,936; Shimoga Division 3,061; Mysore Division 2,714; under Labour Housing Corporation, Mysore 1,291; Hubli Division 2,722; Mangalore 120; Coorg (Mercara) 68; Plantation Division 3,849 units; Gulbarga Division 1,980.

registered under the Insurance Act, 1938 (IV of 1938); 4. Investment Trusts; 5. Co-operative Banks registered under any law relating to Co-operative Societies; and 6. All Banks incorporated under any law.

The authorised capital of the Mysore State Financial Corporation is Rs two crores, divided into two lakhs fully paid-up shares of the face value of Rs. One hundred each, out of which one lakh fully paid-up shares of the total value of Rs. One crore having the same face value will be issued in the first instance.

The first issue of the shares will be distributed as approved by the Central Government, among

the parties shown below to the extent indicated against their names:—

State Government	Shares. 36,000
Reserve Bank	15,000
Scheduled Banks, Insurance Companies, Investment Trusts, Co-operative Banks or other Financial Institutions	44,000
Parties other than those referred to in Sl. Nos. 1, 2 and 3 above	5,000
Board of Directors :	

G. Mathias, I.A. & A.S., Secretary to Government, Finance Department (Chairman); M. Vasudeva Rao, I.A.S. (Managing Director); B. M. Abu Baker, I.A.S., Secretary to Government, Commerce & Industries Department; S. N. Pal, Manager, Industrial Finance Corporation of India, Madras Branch; A. Damodar Pal, (Chairman, Canara Bank Ltd.; H. V. Koulagi, B.A., LL.B., M.L.A.; K. V. Narasappa, B.A., LL.B., M.L.C.; M. V. Veerappa, Director, Bank of Mysore Ltd.

Names of the two nominees of the Central Board of the Reserve Bank of India and of the Government of India were expected to be notified in due course.

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This is a teaching and affiliating University.

No. of University Colleges: 18.

No. of affiliated colleges: 37.

Total No. of Students during 1957: 30,359.

Estimates (1958-59):

Government Grant: Rs. 71,88,584.

Grant from University Grants Commission: Rs. 13,65,000.

University (fee, etc.): Rs. 24,70,500.

Opening Balance: Rs. 7,06,122.

Total: Rs. 1,17,30,206.

Expenditure: Rs. 1,17,10,880.

Closing Balance: Rs. 19,320.

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President: Sir C. V. Raman.

Secretaries: Dr. K. Ramiah; Dr. K. S. Viswanathan.

INDIAN DAIRY SCIENCE ASSOCIATION

Hosur Road, Bangalore.

President: Dr. L. C. Mikka, Ph.D. (Glasgow), A.I.D.; *Jt. Hon. Secretaries*: Dr. Ranjit Singh and Dr. J. K. Vasant.

INDIAN INSTITUTE OF PUBLIC ADMINISTRATION

(Mysore Regional Branch)

C/o Vidhana Soudha, Ground floor, Bangalore 1.

Chairman: P. V. R. Rao, I.C.S. (Chief Secy. to Govt.); *Hon. Secretary*: T. R. Natha Chandran, I.A.S. (Dy. Secy. to Govt., Gen. Adm. Dept.); *Treasurer*: S. N. Kalabhairavan.

INDIAN INSTITUTE OF SCIENCE Bangalore 8.

The departments of the Institute provide facilities for post-graduate research in Inorganic Chemistry, Physical Chemistry, Organic Chemistry, Bio-chemistry, Physics, Aeronautical Engineering, Internal Combustion Engineering, Metallurgy, Power Engineering (Electrical, High Voltage, Mechanical and Civil and Hydraulic Engineering), Electrical Communication Engineering, Chemical Technology and Chemical Engineering, Pharmacology, Fermentation Technology and Applied Mathematics. Facilities for research in Industrial Engineering and Administration, Economics and Industrial Psychology also exist.

There is also provision for post-graduate instruction in Aeronautical Engineering, Internal Combustion Engineering, Metallurgy, Power Engineering (Electrical, Mechanical and Civil and Hydraulic Engineering), Electrical Technology, Electrical Communication Engineering, Foundry Engineering, Automobile Engineering, High Voltage Engineering, Soil Mechanics and Foundation Engineering, Electronic Engineering, Ultra-short and Microwave Engineering, Line Communication Engineering and Acoustical Engineering, and for background teaching in Economics and Social Sciences and instruction in French and German. Part-time courses in Industrial and Production Engineering and in Industrial Administration have been started. The departments are well equipped and have adequate staff.

A fuels and lubricants laboratory was started on July 2, 1955.

The Library of the Institute contains about 58,447 volumes of journals and books.

Conferents: The following are the degrees that may be awarded by the Council of the Institute, in the different Faculties:—

- (1) By Research (in the Science and Engineering Faculties) Master of Science (M.Sc.), Doctor of Philosophy (Ph.D.), Doctor of Science (D.Sc.).
- (2) By Examination (in the Engineering Faculty) Bachelor of Engineering Degree (B.E.) in Electrical Communication Engineering, Electrical Technology and Metallurgy.
- (3) Master of Engineering (M.E.) in Aeronautical Engineering, Aeronautical Engineering, Automobile Engineering, Electronic Engineering, Foundry Engineering, High Voltage Engineering, Internal Combustion Engineering, Line Communication Engineering, Electrical Engineering, Mechanical Engineering, Civil and Hydraulic Engineering, Soil Mechanics and Foundation Engineering, Ultra-short and Microwave Engineering.

Honorary Fellowships of the Institute may, on the recommendation of the Council, be conferred by the President of India who is the Visitor of the Institute on persons who have attained eminence in the field of science or industry or who have rendered signal service to the Institute.

The scientific work of the Institute is recorded in the Journal of the Indian Institute of Science, published every quarter in January, April, July and October.

Budgeted expenditure for 1958-59: Rs. 37,15,650 (recurring); Rs. 9,55,006 (non-recurring).

Visitor: The President of India.

Chairman of the Governing Council, Prof. R. Chokai, M.A.

Director, Dr. S. Bhagavantam, D.Sc.

Registrar: A. G. Pal, M.A. (Cantab.).

THE INDIAN INSTITUTE OF WORLD CULTURE 6, North Public Square Road, Basavangudi, Bangalore 4.

Objects: (1) To maintain a Centre affording opportunities for cultural, intellectual and ethical development; (2) To promote universal brotherhood and peace by fostering mutual cultural appreciation between groups and peoples; (3) To raise the consideration of national and world problems to the plane of moral and spiritual values for establishing true national and international concord and co-operation.

For the furtherance of these objects the Institute, founded in 1945, maintains a large free cultural library, a Cosmopolitan Home for College students and an auditorium for frequent public lectures, commemoration and discussion meetings, exhibitions and music and dance recitals, and brings out cultural publications. (Particulars on request.)

Organ: *The Aryan Path* (Monthly) edited by Sophia Wadia.

London Branch: 62, Queen's Gardens, W. 2.

Membership is open to all believers in human brotherhood (fee Rs. 12 per annum).

President: Smt. Sophia Wadia.

INDIAN PHILOSOPHICAL CONGRESS Maharaja's College, Mysore.

President, Prof. Humayun Kabir; Secretary, Prof. N. A. Nikam.

INSTITUTION OF TELECOMMUNICATION ENGINEERS (Bangalore Local Centre)

C/o Indian Telephone Industries Pvt. Ltd., Duravannagar P.O., Bangalore.

President: B. V. Baliga; Hon. Secy.: N. V. Shenoi.

THE JEWELLERS ASSOCIATION Nagarathpet, Bangalore 2.

President: K. R. Nanjundiah Setty; Jt. Secy.: R. Sethurajan; Treasurer: P. Venkatarahalapathy Setty.

KANNADA SAHITYA PARISHAT (Kannada Literary Academy)

Hardinge Road, Chamaraajpet, Bangalore 2.

President: Athanavidwan Panditrathnam D. Sivamurthy Sastry; Hon. Secretaries: K. Gopalakrishna Rao, B.A., G. Sreenivasan; Hon. Treasurer: H. S. Seetha Ram.

KARNATAKA NANGEETHA VIDYALAYA Shankarapur, Bangalore 4.

President: M. C. Chika Nanjundappa; Principal & Secretary: D. Subbaramalya.

SRI KRISHNARAJENDRA SILVER JUBILEE TECHNOLOGICAL INSTITUTE Krishnarajendra Circle, Bangalore 1.

Mysore Government Technical Institution training candidates for Pre-Professional Course in Textiles, B.Sc. (Textiles) Degree (Spinning; Weaving specialisation) of the Mysore University and the Diploma in Textile Technology (Spinning Weaving Specialisation) and craft courses in Textiles. (For the Diploma and craft courses the certificates are awarded by the Central Board of Technical Examination, Government of Mysore.)

Principal & Professor of Textile Technology & Testing: Srinagabhushana, B.Sc., P.T.I.; Professor of Textile Manufacture: M. B. Krishnamurthy, B.Sc., B.Sc. (Tech) (Mech), A.M.C.T., A.T.I.; Professor of Textile Chemistry: B. Lakshminanth, B.Sc., B.Sc. (Tech) (Mech), A.M.C.T.

LICENSED ELECTRICAL CONTRACTORS' ASSOCIATION OF MYSORE

52A, Avenue Road, Bangalore 2.

President: M. S. Kumar; Vice-President: M. Basheer Sheriff; Secy.: C. Seshadri, B.E.; Treasurer: B. S. Nanjundalya.

MYSORE AUTOMOBILE PARTS AND ALLIED MERCHANTS' ASSOCIATION

14, Silver Jubilee Park Road, Bangalore 2.

President: Ujjagar Singh; Vice-President: K. M. Nanjappa; Treasurer: K. H. Chakrapani; Secretary: R. J. Agarwal.

MYSORE CHAMBER OF COMMERCE Kempegowda Road, Bangalore 9.

President: Jinnabhai Davidasa.
Vice-President: Gurudas D. Uthayakar.
Secretary, G. N. Krishna Murthy, M.A.

THE MYSORE ENGINEERS' ASSOCIATION Post Office Road, Bangalore-1.

President, H. Ananthachar, B.E., A.M.I.E., Hon. Secretary, B. R. Manikam, B.E., M.S., A.M.I.E., M.A.S.P.O., M.A.S.C.E.; Treasurer, A. V. Raghavachar, M.I.E.

THE MYSORE FILM CHAMBER OF COMMERCE 60, Subedar Chatram Road, Bangalore 9.

President, Y. V. Sreenivasa Murthy.
Vice-President, B. S. Garudachar.
Hon. Treasurer, K. N. Rawell.
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MYSORE GEOLOGISTS' ASSOCIATION

243, Fifth Main Road, Chamaraajpet, Bangalore-1.

President, Dr. C. S. Pichamathu; Secretary, Dr. B. P. Radhakrishna.

MYSORE HORTICULTURAL SOCIETY Lalbagh, Bangalore 2.

Chairman: Dr. M. H. Mari Gowda; Vice-Chairman: H. S. Seetharam; Hon. Treasurer: D. S. Mandayam; Hon. Secretaries: K. V. Venkat Gowda, M. L. Subba Raj.

MYSORE MEDICAL ASSOCIATION Fort, Bangalore-2.

President: Dr. M. Sivaram; Vice-President: Dr. M. S. Rama Rao; Hon. Secretary: Dr. S. C. Kuppanna.

THE MYSORE METAL MERCHANTS' ASSOCIATION

P.O. Box No. 556, 71, Sri Narasimharaja Road, Bangalore-2.
President, N. K. Shah; *Hon. Secretary*, C. Mirimal.

THE MYSORE PRINTERS CO-OPERATIVE SOCIETY LTD.

Avenue Road, Bangalore City.
President: B. Shivamurthi Shahatri; *Treasurer*: K. Ramalah;
Hon. Secretary: C. Rajagopalachar.

MYSORE PROVINCIAL SILK HANDLOOM WEAVERS' CO-OPERATIVE SOCIETY LTD.

Jumma Masjid Road, Bangalore 2.
President: H. B. Shankarappa; *Hon. Secretary*: K. V. Shivabhadriah;
Hon. Treasurer: S. K. Nanjunda Rao.

MYSORE RAW SILK MERCHANTS' ASSOCIATION

Resham Mahal, Kempe Gowda Road Cross, Bangalore 9.
President: Y. H. Venkataravanappa; *Vice-President*: B. M. Santharamasa; *Hon. Secretary*: K. B. Narasimha Setty.

MYSORE RIYASAT HINDI PRACHAR SAMITI

I Block, Jayanagar, Basavangudi, Bangalore 4.
President: H. C. Dasappa, B.A., LL.B., M.P.; *Vice-President*: K. Shamaraia Iyengar, B.A.; *Hon. Secretary*: Chhotubhai Desai, B.A. *Organiser*: A. V. Sreenivasamurthy.

MYSORE SERUM INSTITUTE

Hebbal, Bangalore 6.
Deputy Director: Dr. G. A. Hardikar, *Disease Investigation Officer*: Dr. Syed Mohiyuddin; *Asst. Disease Investigation Officer (Sheep & Goats)*: Dr. C. K. Abdulla Khan.

THE MYSORE SILK ASSOCIATION

Hardinge Road, Channarayana, Bangalore 2.
President: K. Shamsuddin Khan, B.A., Retired Director of Sericulture, Mysore; *Hon. Secretary*: H. Hanumanthappa, B.Sc., *Jt. Secretary*: S. N. Muni Rao.

MYSORE SILK HANDLOOM WEAVERS' ASSOCIATION

Jumma Masjid Road, Bangalore 2.
President: D. Hanumanthappa; *Vice-President*: B. S. Puttanna Setty; *Hon. Secretary*: H. B. Shankarappa.

THE MYSORE SILK MANUFACTURERS' ASSOCIATION (POWER LOOMS)

No. 39, Jumma Masjid Road, Bangalore 2.
President: Gurusava Dhurina B. S. Shankarappa Setty; *Vice-President*: K. Sreenivasulu; *Hon. Secretary*: Janasevanirathu Y. R. Venkataramlah.

THE MYSORE SILK THROWING FACTORIES ASSOCIATION

S. S. K. Sangha Bldgs., Kasl Viavawara Temple Street, Bangalore 2.
President: M. Govindiah; *Vice-President*: E. S. Venkatramalah, B.A., LL.B.; *Hon. Treasurer*: D. B. Sharanasa; *Hon. Secretary*: K. M. Eswara.

MYSORE SMALL SCALE INDUSTRIES CO-OPERATIVE SOCIETY LTD.

Prasad Mansion, Main Road, Gandhi Nagar, Bangalore 9.
An Industrial Co-operative Society, registered, under the Mysore Co-operative Societies Act. Authorized Capital: Rs. 1,00,000. Registered Stockholders for Iron & Steel at Bangalore. The Society handles all types of raw materials required by its members and also assists in marketing their products.
President: H. Thammalah; *Vice-President*: P. M. Thangaveloo; *Secretary*: B. M. V. Mayanna.

MYSORE STATE ADULT EDUCATION COUNCIL

1132 2, Krishnamurthipuram, Mysore.
President: N. Bhadrilah.
Vice-President: A. N. Rama Rao, B.A., M.L.C.
General Secretary: K. S. Suryanarayana, B.A., LL.B., M.L.A.
Treasurer: T. Venkataramlah, M.L.C.
Chief Executive Officer: K. S. Muniswamy, B.Sc.
Dy. Chief Executive Officer: B. V. Patyannarayana, B.A.

MYSORE STATE BADMINTON ASSOCIATION

C/o The Canara Union, 8th, Main Road, Malleshwaram, Bangalore 3.
President: Raja Manikavelu; *Vice-Presidents*: K. A. Nettakallappa, Kishindas Tikamdas; *Hon. Secretary*: P. Ramesh.

THE MYSORE STATE EDUCATION FEDERATION

Mayo Hall, Bangalore 1.
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General Secretary: T. R. Parameswaran, B.Sc., B.T., Inspector of Schools, Civil Station, Bangalore.

MYSORE STATE HIDES & SKINS MERCHANTS' & TANNERS' ASSOCIATION

74, Commercial Street, Bangalore 1.
President: Janab Marit Hajee Mohamad Ismail Sahib; *Secretary*: M. A. Kantharaj.

THE MYSORE STATE JOURNALISTS' ASSOCIATION

District Office Compound, Bangalore 2.
President: N. S. Sektarama Sastry.
Vice-President: H. Kusumakar
General Secretary: R. Shananna.

THE MYSORE STATE MINE OWNERS' ASSOCIATION

Sabuvani Bldgs., Sri Narasimharaja Road, Bangalore 2.
President: S. G. A. Naidu, *Vice-President*: Dr. M. Ramdas; *Secretary*: T. L. V. Setty.

MYSORE STATE PANDITS' ASSOCIATION

Channarayana Sanskrit College, Bangalore 2.
Vice-President: Vidyavibhushana M.P.L. Sastry, M.A., M.L.C.

THE MYSORE STATE NON-GAZETTED OFFICERS' ASSOCIATION

Cubbon Park, Bangalore 1.
President: B. Channabasavappa, M.A., LL.B.
Vice-President: B. Srikanthiah, B.A.
General Secretary: S. Nagesha Rao, B.A.

MYSORE STATE PAPER MERCHANTS' & STATIONERS' ASSOCIATION

10, Mamolpet, Bangalore 2.
President: C. D. Gopala Iyengar; *Vice-President*: S. K. Sippy; *Secretary*: C. P. Harbhugandas; *Jt. Secretary*: S. Venkatesubbiah, M.Sc.

MYSORE STATE RADIO MERCHANTS' ASSOCIATION

Secretary's Office: C/o Waco, 2-F, Mahatma Gandhi Road, Bangalore 1.
President: Hirahand, *Secretary*: K. N. Panjwani; *Treasurer*: Abhinayya.

MYSORE STATE SANGEETHA NATAKA ACADEMY

New Public Office, Bangalore 1.
To foster and develop dance, drama and music in the State.
Chairman: A. C. Deve Gowda, M.A. (Col.), B.T., M.A. (Leeds), Dip. Edn. (Director of Public Instruction, Mysore State); *Treasurer*: H. Ramaraj Urs, B.A. (Controller of Accounts, Mysore State); *Secretary*: Vacant, *Asst. Secretary*: M. D. Govindaraj.

OPERATIONS RESEARCH ASSOCIATION

Section of Industrial Engineering & Administration,
Indian Institute of Science, Bangalore 12.
Operations Research (OR) is one of the tools which the top management in an industrial or business organisation can use for taking action in complex situations. OR is the application of scientific methods for selecting the best among alternative courses of action or for arriving at optimum solutions for problem with conflicting objectives. An OR team consists of men of various disciplines: engineers, mathematicians, economists, etc. Conceptual models of problems are constructed to include all quantifiable variables in a situation for decision making. OR has extraordinarily interesting possibilities for improving business methods.
President: Prof. R. Natarajan.
Hon. Secretary: Dr. B. H. Iyer.

ORIENTAL DUMMY HORSE DANCE INSTITUTE

Tasker Town, Bangalore 1.
Managing Director cum Principal: T. C. Sundaramoorthy; *Assistant Principal*: Smt. Anubaya Devi.

ORIENTAL RESEARCH INSTITUTE

Mysore.
Director: H. Devtarappa, M.A.; *Asst. Director*: N. Hanaradhya, M.A. *Asst. Director*: B. S. Kanniah, M.A.

PRINCESS KRISHNAJAMMANI NATATORIUM

V. V. Mohalla, Mysore.
Superintendent: Dr. S. Narayana Setty, M.B.B., L.R.C.P., M.B.O.B., T.D.D. (Wales).

QUALITY CONTROL UNIT (SOUTHERN REGIONAL CENTRE)

(Indian Statistical Institute)
C/o SRSJ Technological Institute, Bangalore.
Offers Quality Control service to industries in the Southern region. Assists in organising SQC in factories and in application of SQC techniques to production and other problems in industries. Training courses in SQC are also conducted.
Executive Director: Prof. Vrinagabhushana; *Director*: S. K. Ekambaram, *Treasurer*: R. Kamaswami.

RAMAN RESEARCH INSTITUTE

Hebbal P O, Bangalore 6.

Director : Sir C. V. Raman.**SANGEETHA KALABHIVARDHINI SABHA**

1670, Hosakeri, Krishnaraj Mohalla, Mysore.

Promotes music and dance.

President : Mangatha Sastra Visharada K. Vanuduvacharya (Winner of the National Award), *Vice-President* : H. Yoganarasimham, M.A., B.T.; *Treasurer* : Vidwan B. K. Padmanabha Rao.**SEVA SADAN**

XIV Cross Road, Malleswaram, Bangalore 3.

Home for free Boarding and Vocational Training for Helpless Women & Orphan Children.

President, Mrs. P. N. Anandamma; *Vice-President*, Mrs. Devarau Shivarani; *Honorary Secretary* : Mrs. Vinala Rangachar; *Hon. Treasurer* : Mrs. Mangalamma Atchutan.**SOCIETY OF BIOLOGICAL CHEMISTS**

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President : Prof. D. K. Banerji, D.Sc., F.A.Sc.; *Hon. Treasurer* : Dr. Homi K. Cama, B.A., M.Sc., Ph.D.; *Hon. Secretary*, Dr. T. Ramakrishnan, B.A., M.Sc., Ph.D.**SOUTH INDIA UNION OF SEVENTH-DAY****ADVENTISTS**

9, Cunningham Road, Box 20, Bangalore 1.

President : R. L. Sorenson.*Secretary* : I. Kanagarayan Moses.*Treasurer* : S. John.**SREE RAMA BHAJANA SABHA**

East Park Road, Malleswaram, Bangalore-3.

President : S. K. Ramakrishna Iyengar, B.A.; *Vice-Presidents* : Dr. T. L. Ramachar, M.Sc., T. R. Srinivas Iyengar, B.A., B.L.; *Hon. Secretaries* : E. N. Srinivasan, B.A., M. N. Narayana Rao.**SREE RAMANEYA MANDALI**

(Est'd 1939)

189, 4th Main Road, Chamarajpet, Bangalore-2.

President, A. N. Rama Rao, B.A., B.L., M.L.C.; *Vice-President* : N. Sreeram; *Founder & Hon. Secretary and Treasurer*, S. V. Narayanaswamy Rao.**STATIONERY, CUTLERY & GENERAL MERCHANTS' ASSOCIATION**

C/o Messrs. C. R. & Bros., 201-202, Avenue Road, Bangalore 2.

President : G. D. Gopala Iyengar.*Honorary Secretary* : C. Rudrappa, B.A.**ST. JOHN'S CHURCH**

Bangalore.

Chaplain : Rev. William L. Holder, L.Th.*Honorary Secretary* : O. Oliver.**ST. JOSEPH'S CHURCH**

Brind Square, Chamarajpet, Bangalore 2.

Parish Priest : Very Rev. Fr. Paul D'Souza*Assistant* : Rev. Father Alphonsus Noronha**ST. PAUL'S CHURCH**

Hospital Road, Bangalore 1.

Priest, Physician and Surgeon : The Rev. Dr. E. Paramanandam, M.D. & N. (Priest-in-charge)**TEXTILE ASSOCIATION (INDIA) REGD.,**

Mysore Branch

C/o S. K. S.J. Technological Institute, Bangalore 1.

President : Srinagabhushana, B.Sc., F.T.I.; *Chairman* : S. Rangasami; *Secretary* : V. H. Mhatre; *Treasurer* : V. R. Rishud**SRI VANI INSTITUTE OF MUSIC**

V Main Road, Shankar Mutt Cross, Chamarajpet, Bangalore.

Principal : Vidwan S. V. Venkateshiah; *President* : G. V. Srinivasa Murthy; *Secretary* : S. V. Ananth.**SRI VARALAKSHMI ACADEMIES OF FINE ARTS**

Rama Vilas, Kasbipathy Agrahar, Chamaraja Road, Mysore.

President : Rao Bahadur Rajasevaprakashta M. Ramaswamy; *Founder-Secretary* : Vidwan B. Chandrasekhariah.**YOUNG MEN'S CHRISTIAN ASSOCIATION**

Cenotaph Road, Bangalore 2.

President : W. J. Paulraju; *Vice-President*, M. Thangiah; *General Secretary*, R. J. Solomon.**OTHER TRADE AND COMMERCIAL ASSOCIATIONS**

Bangalore Commercial Association, 22, Commercial Street, Bangalore-1.

Bangalore Gold Thread Merchants' Association, 39, Jumma Masjid Road, Bangalore-2.

Bangalore Grain Merchants' Association, 2, Hardinge Road, Chamarajpet, Bangalore-2.

Bangalore Wine Merchants' Association, 111, Bridge Road, Bangalore-1.

Coconut Merchants' Association, 33, Sithu Rao Street, Bangalore-2.

Mysore Odabathi Manufacturers' Association, Mysore Chamber of Commerce Bldg., Bangalore-9.

Mysore State Trunk Manufacturers' Association, 12, 1, Sri Krishnarajendra Road, Bangalore-2.

OTHER SOCIAL, CULTURAL, LITERARY, RELIGIOUS, ETC. ASSOCIATIONS

Rotary Club of Bangalore, 36, Residency Road, Bangalore.

Shorthand Writers' Association, District Office Compound, Bangalore.

Bangalore City Institute, Fort South Gate, Bangalore.

United Lodge of Theosophists, Sir Krishna Rao Road, Basavanagudi, Bangalore.

Institute of Management, C/o Hindustan Aircraft Ltd., Bangalore.

Malleswaram Ladies Association, 15th Cross, Malleswaram, Bangalore.

Mysore State Ayurvedic Congress, Jayachamarajendra Institute of Indigenous Systems of Medicine, Bangalore.

Ex-Servicemen's Association, 9, Main Road, Munireddipalyam, Bangalore.

Sri Kasturba Gandhi Hindi Shikshana Shala, III Main Road, Chamarajpet, Bangalore.

Mysore Hindi Sahitya Parishat, Chamarajpet, Bangalore 2.

Central Unani Medical Practitioners' Association, Nagarthapet.

Maharashtra Mandal, Gandhi Nagar, Bangalore.

Maharashtra Mahila Mandal, Basavanagudi, Bangalore.

Mysore State Branch of Red Cross Society, Bangalore 4.

Catholic Club, Civil Station, Bangalore.

Free Masons Lodge, Civil Station, Bangalore.

Servants of India Society, Basavanagudi, Bangalore.

Sindhi Refugee Union, Commercial Street, Bangalore.

Kanara Union, Malleswaram, Bangalore.

Central Mohammedan Association, Arrot Srinivasachar Street, Bangalore.

Faral Anjuman Club, Civil Station, Bangalore.

Mysore State Journalists Association, District Officer Compound, Bangalore 2.

BANGALORE DISTRICT

Area : 3,084 sq. miles, Population : 2,127,061. Density of population : 690

Headquarters : Bangalore.

Talukas with area in square miles and population respectively within brackets : Bangalore Corporation (26; 7,78,977); Bangalore North (163; 1,60,488); Bangalore South (229; 1,41,222); Hoskote (260; 1,12,130); Devanahalli (226; 90,302); Doddaballapur (312; 1,09,754); Nelamangala (257; 1,06,514); Magadi (358; 1,36,442); Channarayana (206; 1,31,403); Rumanagaram (244; 92,769); Kanakapura (589; 1,68,789); Anekal (203; 98,271).

The average rainfall is 30-50 inches

Bangalore is the headquarters. It is 26 sq. miles in area and has an estimated population of 12.54 lakhs (1958). It is a centre of many State-owned and private industries. Four major Govt. of India undertakings are located here. They are Hindustan Aircraft (P) Ltd., Indian Telephone Industries (P) Ltd., Hindustan Machine Tools (P)

Ltd., and Bharat Electronics (P) Ltd. Other Industries both in the private and public sector include : Soap, porcelain, insulators, electrical transformers, gas mantles, lamps, glassware, pharmaceutical products, chrome, tanned leather, woolen, cotton and silk mills.

Channarayana is situated to the south-west of Bangalore on the Bangalore-Mysore Railway. It has a population of 24,041. The town is noted for the manufacture of lacquer toys and the drawing of wire for musical instruments. It is also a centre for sericulture in the State. It contains a Government Silk Farm and the Mysore Spun Silk Mills, a Government-aided enterprise. Large quantities of coconuts and betel leaves are produced in the town. Considerable quantities of mangoes are also exported.

CLUBS IN BANGALORE

Century Club, Cubbon Park, Bangalore.

Basavanagudi Union and Services Club, Bangalore.

Basavanagudi Union and Ladies' Club.

Recreational Club, Malleswaram.
Bowring Institute St., Mark's Road, Bangalore.
Bangalore Race Club, Bangalore.
Bangalore Club, Civil Station, Bangalore.
Bangalore Golf Club, Bangalore.
Mysore State Cricket Association, Bangalore.
Mysore State Hockey Association, Bangalore.
Mysore State Football Association, Bangalore.

LIBRARIES IN BANGALORE

Public Library, Cubbon Park, Bangalore.
Kannada Sahitya Parishat (Library), Bangalore.
Gandhi Sahitya Sangh, Malleswaram, Bangalore.
U.S.I.S. Library, Sri Narayana Raja Road, Bangalore.

CINEMA HOUSES IN BANGALORE

Alankar, Bangalore City.
Asoka Talkies, Bangalore Civil Station.
Bharat Talkies, Bangalore City.
Central Talkies, Bangalore City.
Elgin, Bangalore Civil Station.
Everest, Bangalore Civil Station.
Geetha, Bangalore City.
Himalaya, Bangalore City.
Jai Hind Talkies, Bangalore City.
Kemp Gowda Talkies, Bangalore City.
Lakshmi Talkies, Bangalore City Station.
Liberty, Bangalore Civil Station.
Majestic, Bangalore City.
Minerva Talkies, Bangalore City.
MovieLand, Bangalore City.
New City, Bangalore City.
New Empire, Bangalore Civil Station.
New Imperial, Bangalore Civil Station.
New Opera, Bangalore Civil Station.
Palace Talkies, Bangalore Civil Station.
Paramount Talkies, Bangalore City.
Plaza, Bangalore Civil Station.
Prabhat, Bangalore City.
Rajeswari Talkies, Bangalore City.
Rasheed Talkies, Yeshwantpur, Bangalore.
Regal, Bangalore City.
Rex, Bangalore Civil Station.
Roopamahal, Bangalore Civil Station.
Sagar, Bangalore City.
Sharada Talkies, Bangalore City.
Shivaji, Bangalore City.
Shree, Bangalore Civil Station.
States, Bangalore City.
Super, Bangalore City.
Swastik, Bangalore City.
Vijayalakshmi, Bangalore City.

HOSPITALS IN BANGALORE

Bowring and Lady Curzon Hospital, Bangalore Civil Station.
Central Leprosarium, Magadi Road, Bangalore 2.
Church of South India Hospital, Col Hill Rd., Bangalore Civil Station.
Geetha Hospital, Bangalore Civil Station.
Hospital for Women and Children, Malleswaram, Bangalore City.
Isolation Hospital, Bangalore Civil Station.
Lady Willington Tuberculosis Clinic and Dispensary, Bangalore City.
Mental Hospital, Hosur Road, Bangalore 2.
Minto Ophthalmic Hospital, Bangalore City.
Shantabai Devarao Shirsam Sanatorium, Hosur Road, Bangalore 2.
Shri Jayachandrapura Institute of Indian Medicine, Bangalore City.
St. Martha's Hospital, Bangalore City.
St. Philomena's Hospital, Nilasandra, Bangalore Civil Station.
T. B. Sanatorium, Old Madras Road, Bangalore Civil Station.
Vani Vilas Hospital, Bangalore City.
Veterinary Hospital, Bangalore City.
Veterinary Hospital, Bangalore Civil Station.
Victoria Hospital, Bangalore City.

HOTELS IN BANGALORE

Bharath Bhavan, 15, Infantry Road, Bangalore Civil Station.
Bombay Anand Bhavan, 1, Old Poor House Road, Bangalore Civil Station.
Bombay Anand Bhavan, 12, Grant Road, Bangalore Civil Station.
Central Hotel, 20, Lavelle Road, Bangalore Civil Station.
Chamundeswari Bhavan, 171, Subedar Chattram Road, Bangalore City.
Hotel Ambassador, 5, Crescent Road, Bangalore Civil Station.
Hotel Embassy, 2, Infantry Road, Bangalore Civil Station.
Lobo's Hotel, 1, Cubbon Road, Bangalore Civil Station.
Madras Woodlands Hotel, 5, Sampang Tank Road, Bangalore 1.
Neo Mysore Cafe, Kemp Gowda Road, Bangalore City.
New Krishna Bhavan, 33/39, Sirur Park, Malleswaram, Bangalore City.
Sastri's Hotel, 89 Chickpet, Bangalore City.
Shilton Hotel, St. Mark's Road, Bangalore Civil Station.
States Hotel, Gundupanth Road, Bangalore City.

Taj Mahal Hotel, Gandhinagar, Bangalore City.
West End Hotel, Race Course Road, Bangalore Civil Station.

COTTON MILLS

BANGALORE WOOLLEN, COTTON AND SILK MILLS CO. LTD.
Spindles 46,240, Looms 1,187, Messrs Binny & Co (Madras) Ltd., Secys, Managing Agents, 7, Armenian Street, Madras, Mills at No 1, Agraharam Road, Bangalore 2.

MINERVA MILLS LTD.

Spindles 39,406, Looms 704 Messrs N Sirur & Co. Private Ltd., Mg Agents, Temple Bar Building, 70, Forbes Street, Fort, Bombay. Mills Behind City Railway Station, Bangalore.

MYSORE SPINNING AND MANUFACTURING CO. LTD.
Spindles 50,492, Looms 500 Messrs N Sirur & Co. Private Ltd., Mg Agents, Temple Bar Building, 70, Forbes Street, Fort, Bombay. Mills at Malleswaram, Bangalore 3.

TRAMKUMAR MILLS LTD.

Spindles 19,740, Looms 420 Messrs Yajalambhara Ltd., Mg Agents, Sudhama House, Chickpet, Bangalore 2 Mills at Bangalore.

SHREE KRISHNA SPINNING & WEAVING MILLS PRIVATE LTD.
Looms 180, Messrs Yadalam Subbiah Setty & Sons, Mg Agents, Chickpet, Bangalore 2 Mills at Subramanyapura, Bangalore 6.

SHREE SURYODAYA MILLS PRIVATE LTD.

Formerly Bangalore Spinning & Weaving Mills Looms 108. B Rama Setty, Mg Director, Co. Maruthi Mansions, Davangere. Mills at Yeshwantpur, Bangalore North Taluk.

T. R. MILLS PRIVATE LTD.

Looms 208 D. R. Madhava Krishnappa, Mg Dir., Office on Mill premises Mills at V. Main Road, Chamarajpet, Bangalore 3.

BANGALORE MUNICIPAL CORPORATION

Mayor, N. Narain Chetty.
Deputy Mayor, K. Sriramulu.
Commissioner, N. S. Swaminathan, I.R.A.
P.A. to the Commissioner, N. Siddalingappa, M.A., I.L.B.
Engineer, R. A. Sampath Iyengar, B.A., B.E.
Health Officer, Dr. H. Krishna Rao, M.B.B.S.
Special Officer, Depressed Classes Amelioration, T. P. Rachappa, M.A.
Physical Education Officer, A. R. Chikrapalish.
Council Secretary, M. Swaminathan, M.A.

COUNCILLORS

M. R. Narasimha Iyengar (Division No 1), N. Subbiah (Division No 2), K. Devayya (Division No 3), M. Ramalakshmi (Division No 4), V. R. Nallu (Division No 5), M. G. Subhadri (Division No 6), H. I. Anjappa (Division No 7), V. Thammiah (Division No 8), Munkeswamappa (Division No 9), Y. Ramachandra (Division No 10), B. H. Sanjeevappa (Division No 11), M. V. K. Rajan (Division No 12), I. Krishnappa (Division No 13), P. N. Narayan (Division No 14), K. Thoppalan (Division No 15), G. Narayana (Division No 16), S. Krishna Rao Pawar (Division No 17), M. Rangiah Nallu (Division No 18), P. Vetrappa (Division No 19), V. S. Krishna Iyer (Division No 20), G. Rama Rao (Division No 21), I. H. Shamma (Division No 22), K. Vajrappa (Division No 23), K. C. Puttanna (Division No 24), I. Subhara (Division No 25), P. Thimiah (Division No 26), V. B. Hanasankarappa (Division No 27), K. Shikarappa (Division No 28), I. P. Jitendra (Division No 29), B. K. M. Gowda (Division No 30), G. T. Hemanna (Division No 31), Patel M. Anjana Gowda (Division No 32), Dr. M. N. Jeromi (Division No 33), M. Sunder Raj (Division No 34), P. S. K. Naidu (Division No 35), D. Bhaskaran (Division No 36), A. Nanjappa (Division No 37), B. K. Sriramalakshmi (Division No 38), S. A. Amey Dawood (Division No 39), M. M. Devanaraja Chettiar (Division No 40), M. Jagadevan (Division No 41), Venkatesulu (Division No 42), B. N. Narayanaswamy (Division No 43), A. N. Srinivasan (Division No 44), R. Hamed Hish (Division No 45), N. R. Murthy (Division No 46), B. A. Anirvatham (Division No 47), K. Rajasekhara (Division No 48), B. Nanjappa (Division No 49), P. D. Govindaraj (Division No 50).

Depressed Classes (Reserved)

A. S. Mani (Division No 4), Siddappa (Division No 5), B. M. Sampangi (Division No 15), C. Obhiah (Division No 16), P. M. Venkatesh (Division No 45), Velisara Rathnam (Division No 50).

Women (Reserved)

Smt. B. Indiramma, M.A., Illp in Rd (Division No 1); Smt. Leela-devi Renuka Prasad (Division No 13), Smt. P. K. Jayalakshamma (Division No 23), Smt. Annapurnaamma (Division No 39); S. Kamalammal (Division No 37), Smt. C. Sharda (Division No 40).

† Statement for August 1955 not received. Figures taken from 1957 statement.

Labour Electorate I

R. Kanniah.

Labour Electorate II

M. Palanivelu ; D. S. Srinamulu

Mysore Chamber of Commerce

K. M. Nanjappa, T. N. C. Satagopan.

Bangalore Trades Association

P. Kuppuswamy.

Bangalore Commercial Association

Jaffer Haji Ibrahim Salt.

Aldermen

Jeenabhai Devdoss ; G. V. Chalam ; B. M. Seenappa ; Mrs. Vasia Begum Sadiq Suhail.

Special Councillors

The Station Staff Officer, Bangalore.

The General Manager, Mysore Government Road Transport Department.

BUDGET ESTIMATES FOR 1959-60

Revenue : Rs. 2.36 crores.

Expenditure : Rs. 2.35 crores.

Surplus : Rs. 0.01 crore.

BELGAUM DISTRICT**Headquarters : Belgaum.**

Belgaum District with Belgaum as its capital, is bounded on the north by Kolhapur and Satara South Districts; on the east by Bijapur; on the south by the Districts of Dharwar and North Kanara; on the west by the territory of Goa and Kolhapur District.

The area of the District is 5,380 square miles and the population according to 1951 census is 16,46,395. The languages spoken are Kannada and Marathi. Density of population is 306.

The talukas with their area in sq. miles and population respectively within brackets : Athani (744 ; 1,85,000) ; Belgaum (394 ; 2,81,087) ; Khanapur (675 ; 90,872) ; Paiswad (611 ; 1,21,935) ; Railbag (372 ; 91,449) ; Chikodi (479 ; 2,69,834) ; Hukeri (382 ; 1,74,414) ; Ramdurg (470 ; 90,051) ; Sampgaon (435 ; 1,64,491) ; Gokak (590 ; 1,74,650).

The country is a large plain studded with solitary peaks and broken here and there by the low ranges of Sahyadri hills. In the north and east the land is level and well-cultivated, but in the west it is intersected by spurs of the Sahyadri Range thickly covered in some places with forests. The District contains both black and red soils and produces mostly grains, pulses, oil-seeds, fibres and cotton. The average rainfall in Belgaum is 41.5 inches.

Belgaum, the Divisional and District headquarters, has a very pleasant climate especially in the hot season and it is described as the "Mahabeshwar of the poor." It has retained its historic importance in the form of an imposing fortress (which is just near Belgaum City) built in the Mogul period. A memorial in the form of a bust of Bahasabhai Bhawe the famous ruler of Ramdurg, who for his participation in the 1857 uprising, was publicly hanged at Belgaum by the British, has been put up in the heart of Belgaum City. It is a cantonment and a station on the Southern Railway. It is a busy centre throwing on all its sides well maintained roads connecting the districts of Dharwar, Bijapur and North Kanara of Mysore State and also southern Maharashtra and the Goa territory. It is an important centre of the State Transport Bus Service and is the Headquarters of the Belgaum Division of the new Mysore State.

There are a big travellers' bungalow and inspection bungalow for the Government touring officers and a well-established private hotel, Hotel Green. There are also a Civil Hospital, a Military Hospital, two well-equipped private hospitals and half a dozen maternity hospitals in the city. Belgaum has a Government Vaccine Institute which regularly supplies lymph in great quantities to the whole of Bombay and Mysore States and even outside areas on demand. For the training of military cadets and also for the children of the civilians there is a residential institution called King George Public School in the Camp and the well known Maharashtra Light Infantry Regimental Centre.

The health and sanitation of the Camp area is managed by the Cantonment Board and of the Belgaum City by the Belgaum Borough Municipality of more than a hundred years' standing. The official language of the Municipality is Marathi.

In the city and the Camp area there are five Colleges, two Arts, and one Science College, one Law College, one College of Commerce, one College for the training of Secondary School Teachers, all affiliated to the Karnatak University. There are about 19 High Schools of which five are exclusively for girls which send up students for the S.S.C. Examination. There is a Government Technical High School and a Polytechnic. The Polytechnic provides instruction in diploma courses of the different branches of Engineering as Civil, Mechanical and Electrical. This Institute will soon develop into an Engineering College. Under the First and Second Five Year Plans two local high Schools

have been converted into multi-purpose high schools, Mahila Vidyalaya High School for Girls imparting instruction in Home Science and Nardar's High School (the only High School run by Government) imparting instruction in fine arts and appreciation of arts. The Municipal High School at Bailhongal and Railbag Vidyalaya, Railbag, have been converted into Multipurpose High Schools for Agriculture under the First and Second Five Year Plans respectively. There are also three Primary Teachers' Training Colleges, one Marathi and the other two Kannada. In the City there are three privately managed Pre-primary Schools run under Montessori System by trained staff. Other institutions worth mentioning are the Remand Home, the Rotary Club, the Theosophical Society, the Masonic Lodge, Vangmaya Charcha Mandal (Marathi Literary Society started in 1927), Karnatak Sahitya Sangh, Kalopasana Mandal and Varkerkar Natya Sangh both devoted to cultural development especially the dramatic art. Besides these there are the Union Gymkhana, the Social Club and Kreedha Bhuvana, Belgaum Club and the Ladies Club for the recreation of Belgaum public.

It has literary associations managed by the lovers of Marathi and Kannada literatures and is proud of a Free General Library of a hundred years standing with an imposing building of its own having a clock tower.

There are one theatre exclusively for staging dramas, eight talkies for cinema shows, and three open air theatres one in the Govt. Sardar's High School, another at Lingaraj College and the third at the R. P. D. College, Belgaum.

There is an aerodrome at Samba, seven miles from Belgaum City.

The Belgaum Central Prison is at Hindalga, two miles from Belgaum where prisoners are taught furniture making, carpet making and other industries. This is one of the biggest jails in Mysore State.

ASSOCIATIONS, ETC.**BELGAUM VYAPARI SANGH**

691, Raviwarpath, Belgaum

President : Chandrakant Lingappa Pattanshetli, B.A. ; *Secretary* : Virupaxappa Shankarappa Bagl, B.A.

KARNATAK AYURVED VIDYAPEETH SOCIETY

Khasbag - Belgaum.

President : G. B. Patil, M.A., LL.B., M.L.C. ; *General Secretary* : Valdya A. V. Gadag (Bhishagwar) ; *Principal* : Valdya B. C. Yadur (Bhishagwar).

KARNATAK HOSIERY SAHAKARI UTPADAK SANGHA LTD.

Shahapur, Belgaum.

Chairman : G. C. Bolamal, B.A., LL.B. ; *Vice-Chairman* : M. C. Kittur ; *Secretary* : K. A. Kattiuanl.

SCHOOL OF CULTURE

Theosophical Society Belgaum Lodge

Samadevi Galli, Belgaum.

President : H. H. the Rajasahab of Sawantwadi ; *Vice-President* : N. S. Shirali, Retd. Supdt. of Telegraphs ; *Hon. Gen. Secretary* : Prof. S. Nagara, B.A., M.Ed.

COTTON MILLS

GOKAK MILLS LTD. (formerly Gokak Water Power & Mfg. Co. Ltd.). Spindles : 72,904 ; Looms : 5. Agents : Messrs. Forbes Forbes Campbell & Co. Private Ltd., Forbes Building, Home Street, Fort, Bombay. Mills at Gokak Falls, Belgaum District.

BELLARY DISTRICT

Area 3,825 sq. miles, Population . 773,712

District Headquarters . Bellary.

Talukas 7

Talukas with the area in square miles and population respectively within brackets Bellary (652, 1,84,929), Srirangappa (403, 74,966), Hospet (384, 1,37,238), Sandur (481, 52,523), Hadagalli (587, 1,01,961), Harjanahalli (611, 1,17,633), Kudligi (703, 1,08,462)

The density of population in the District is 202

Agricultural products . Cotton, groundnut, cholam, korra, sugarcane

Irrigation is confined to the Tungabhadra region. The headworks of the project are located in Mallapuram (Hospet Taluka). The area irrigated in Bellary by this project will be about 125,000 acres

Minerals . Iron, manganese. The iron deposits in Sandur are among the richest in India

Industries . Cotton carpet making, blanket weaving

There are about 20 high schools including schools for girls. There is one Intermediate College

SCHOOLS

Here is a list of some schools in Bellary District

Municipal Hindu High School, Municipal Muslim High School, St. John's High School, Wardlaw High School, S. J. High School, St. Philomena's High School (for girls), Government Girls' High School

In Hospet

Municipal High School, Sardar Patel High School, Government Girls' High School

Other schools with their location in brackets are

Board High School (Srirangappa), Government High School (Harjanahalli), 5 Board High Schools respectively at Kudligi, Kottur, Hadagalli, Sandur, Hampli

Veerasaiva College (Intermediate) Bellary

GOVERNMENT WELLSLEY TUBERCULOSIS SANATORIUM Bellary

Superintendent . S. R. Kulkarni M.B.S. 100 (Wales) M.R.C.P. (Edin.)

BIDAR DISTRICT

The country is mostly flat with a gentle slope towards the east. The largest river is Karanja. The District has a dry, healthy climate. The staple food crop is various kinds of jawar. Next come wheat rice and bajra. There are no forests. The chief mineral is soapstone

Prominent among the many relics of the palmy days is the fort of Bidar which contains the ruins of many palaces and mosques. The tombs of the twelve Bahmani kings lie to the north-east of the town

Area 2,208 sq. miles, Population . 52,141, Density of population 240

Headquarters . Bidar

Talukas with area in square miles and population respectively within brackets Bidar (44, 1,20,000), Humnabad (592, 1,08,280), Bhalki (589, 1,40,400), Santpur (106, 01,100)

BIJAPUR DISTRICT

Area 6,661 sq. miles, Population 13,06,180

Headquarters . Bijapur.

Talukas with area in square miles and population respectively within brackets Badami (527, 1,36,986), Bagalkot (512, 1,03,501), Bagewadi (763, 1,37,029), Bijapur (1,028, 2,09,283), Bilgi (327, 59,187), Hungund (512, 1,31,026), Indi (854, 1,41,279), Jamkhandi (450, 1,41,274), Muddebihal (570, 1,12,419), Mudhol (349, 81,268), Sindgi (830, 1,35,021)

The area of the District is 6,661 sq. miles and the population according to 1951 census is 1,39,61,800 spread over 2,000 towns and 1,229 villages. The scheduled castes number 121,521 and the scheduled tribes 200. Density of population is 212. The majority of the people are Lingayats. Both Kannada and Marathi are spoken. The court language is Kannada

The District has a rich soil but rains are uncertain, the average rainfall varying between 18 and 22 inches. The name of the district is synonymous with acute famine, drought and hot climate. The staple crops are jawar and wheat but cotton, groundnut, bajra, pulses, linseed, sesamum and safflower are also largely grown. Bijapur and Bagalkot are the two important market centres. The former exporting cotton, jawar, wheat, groundnut, linseed, sesamum and bajra on an extensive scale

Hikal in Hungund Taluka and Guldegud in Badami are two other commercial centres. Hikal is known for Hikal saris, the export of which exceeds 3 lakhs of rupees a year. Rabkoti, Mahalingpur and Jerdal are three power loom centres exporting fashionable saris and pattas on a large scale. Bijapur District occupies an important position in weaving industry particularly cotton textiles. Handloom industry ranks next to agriculture with about 30,000 handlooms, employing nearly 175,000 weavers. Cholkhans are the chief exporting handloom production in Badami Taluka

There is a cement factory called The Bagalkot Cement Co., Ltd. which is under the management of Tendulkar Industries Ltd., Bombay

Bijapur is an attractive tourist centre possessing a large treasure of historical monuments of architectural importance including the famous 'Golgumbaz' with its Whispering Gallery, a world-wonder. Besides, the district has the earliest Hindu temples of the 4th century,

at Pattadakal and Aihola near Badami which has rock cut cave temples of an earlier period than Ajanta and Ellora. Important Hindu pilgrimages centres are Banashankar at Badami, Kudalasangam, the Nitya place of Pasaveshwar at Sangam in Hungund Taluka, Inchakeri a seat of Sadhus about 2 miles from Bijapur. Dr. Hanote Nihal Ashram about 24 miles from there, being the second Railway Station from Bijapur on Sh. T. P. N. side

AGRICULTURE

Bijapur is mainly an agricultural district growing as stated above jawar, bajra, wheat, cotton, groundnut, pulses, linseed, sesamum, and safflower. There are four Agricultural Produce Market Committees at Bijapur, Bagalkot, Bilgi and Jamkhandi for the regulation of trade. Jawar, bajra and wheat are exported on a large scale to deficit areas, while the cash crops of cotton and groundnut are exported to Gulapur and Gokak Mills, and to Bombay and Marmugao respectively. Linseed goes to Bombay and sesamum to Madras State while safflower is consumed by local Ghansis. Grapes is now widely cultivated by Bijapur gardeners, Babanagar on Bijapur-Jadh road about 12 miles from Bijapur being the chief grape producing centre. Pomegranates are largely grown in Kolhar in Bagewadi Taluka and Kalatal in Bagalkot Taluka. Onions and beet leaves in Bagewadi and lemons in Indi and Sindgi are largely grown and exported to Sh. T. P. N. and H. L. etc. Out of the total geographical area of 4,21,491 acres according to Village, papers, the total area under cultivation is 1,36,07,164 acres. Forests cover 208,077 acres

About 66,600 acres are under irrigation. The main source of irrigation is wells. There are 18,411 wells, 19 tanks and 21 Government canals. Four major irrigation tanks at Hammanahalli in Bilgi at Aresliankar in Bagewadi, at Kalasikop in Bagalkot and at Nargthan in Bijapur talukas were constructed and completed at a cost of nearly one crore of rupees and about twelve thousand acres of cultivable land was brought under irrigation. Out of seven lift irrigation schemes only two continue to function. The total area brought under irrigation by means of Government canals, tanks and wells etc. is 60,669 acres. Besides the Ghatprabha Left Bank Canal has benefited Jamkhandi, Mudhol and Bilgi. Pitha taluka is bringing under irrigation a total area of about a lakh acres

Transport facilities . The Bombay State Transport Service functioning in the District has been taken over by the new Mysore State and is called the Mysore Government Road Transport Department

with its Head Office at Hubli. It has a workshop at Bijapur. The average number of miles operated daily is 17,142 and the number of passengers carried is 29,861.

There are as many as 430 Village Panchayats in the District. The annual income of about 25 village panchayats exceeds Rs 15,000.

There are a Merchants' Association, a Shroffs' Association, Kirana Merchants' Association, Cloth Merchants' Association, Hotel Owners' Association, Brass and Copper Merchants' Association and Stationery Merchants' Association at Bijapur. In addition to these, there are a Bailiffs' Association, a Post and Telegraph Workers' Union, a State Transport Workers' Union, Government Servants' Association, a Hammah' Union, a Gumasta Sangh, Bidi Majdoor Union and Municipal Kamgars' Union, all being at Bijapur only.

One Community Development Block with an allotment of Rs. 15,00,000 was fully implemented in 58 villages in Indi Taluka. It was inaugurated on October 2, 1953 and was completed on Sept. 2, 1956. The period of operation of this block was extended upto April 1, 1958 and is now converted into the Post-Intensive Phase Block with an allotment of Rs. 1,00,000 per year. National Extension Service Schemes one each in Mudhol and Bagalkot talukas and two blocks each in Mindgi, Badami and Indi talukas with an allotment of Rs. 12 lakhs for Stage I blocks and Rs. 5 lakhs for Stage II blocks, are under implementation. Two Pre-Extension Blocks in Hungund taluka with an allotment of Rs. 18,000 is also under implementation.

Bijapur District Khadi and Gramodyoga Board has opened Ambar Charaka Centres, 4 at Bijapur, one each at Torvi, Tikota, Bijargi and Honwad in Bijapur Taluka and about half a dozen centres in Muddebihal Taluka. At present training is imparted to only 14 men and 20 such trainees are admitted at each Centre. This Board runs a Soap-making and Match box manufacturing factory at Bijapur and Jamkhandi. It also runs a Khadi and Gramodyoga Vidyalaya at Jamkhandi, there being 40 students on its roll.

The Southern Railway runs right through the District from north to south.

Institutions. There are two First grade Colleges—one at Bijapur and the other at Bagalkot run by the Bijapur District Lingayat Association. Bijapur has in all 24 high schools, three Secondary and 575 Primary Schools; 1,087 Lower Primary schools, 80 Junior Basic schools, two Pre-primary schools, three Training Colleges; two Occupational Institutions and an Industrial-cum-Technical High School, one Shudha Ayurveda Medical School; two agricultural schools, 13 Sanskrit Pathashalas and Arabic Madarasahs; two Music, Dance, and Fine Art Schools, one Remand Home and one Arts and Crafts, tailoring and embroidery institution.

Hospitals, Dispensaries and Health Centres. There are four General Hospitals, 27 general Dispensaries, four Primary Health Centres, 32 Ayurvedic General Dispensaries, seven S.M.P. Centres, one Tuberculosis Clinic at Bijapur and one Leprosy Control Centre at Ilkal.

The Vijaya College was started in 1945 at Bijapur by the Bijapur Lingayat District Educational Association, Bijapur. The college is affiliated to the Karnatak University, Dharwar.

There is one technical institute at Bagalkot imparting education in diploma courses in civil, mechanical and electrical engineering.

COMMERCE AND INDUSTRY

There is an oil mill at Bijapur providing work to about 200 workers. Bijapur has also biscuit and soap factories, handloom centres at Dargah (a suburb of Bijapur), Terdal, Rabkavi and Banhatti where several hundred handlooms, and about 60 power looms operate to turn out a large variety of saris,

60 ginning factories working during cotton season only, slate and tile factories, glass bangles and copper and brass industries. Country carpets and blankets are made in several villages in Bagalkot, Hungund, and Badami Talukas and Bilgi Petha. There is a wool-weaving demonstration centre at Kundargi where weavers are trained in improved methods in wool-weaving. A Government sheep breeding farm is situated at Anagwadi where improved types of wool are produced. Fine white building stones are exported from Badami and grinding stones from Muddebihal. Shahabadi type slates of various dimensions are quarried and exported in abundant quantities from Talikot, Kaladgi and Minagi. There is a factory at Bagalkot for manufacturing glassware of all kinds. Oil crushing is done by country ghans throughout the District and soon oil expellers will be set up at Bagalkot.

There are at present more than a hundred looms working day and night producing hundreds of bhatafs every day.

A Sarvodaya centre is functioning at Kaladgi in Bagalkot Taluka.

EDUCATIONAL INSTITUTIONS

Vijay College, Bijapur.
Shree Basaweshwar College, Bagalkot.
Government Agricultural High School, Bijapur.
Training College for Men, Bijapur.
Training College for Men, Lachyan.
Training College for Men, Jamkhandi.
A. K. Girls' High School, Bijapur.
Marathi Vidyalaya High School, Bijapur.
P. D. J. High School, Bijapur.
Darbar High School, Bijapur.
Shree Siddheshwar High School, Bijapur.
Anjuman-E-Islam High School, Bijapur.
Government Technical School, Bijapur.
Dyeing & Printing School, Amingad.
Tailoring School, Chadchan.
Carpentry School, Bijapur.
Tanning School, Almel.

LIBRARIES

The Bijapur Sarwanjanik Wahanalaya has opened a free library called Mukhtadwar Granthalaya.

Shree Siddheshwar Wahanalaya is another public library.

SHRI KRISHNA SANGHET VIDYALAYA
Venkatpeth, Bagalkot P.O.

SOCIETIES

There are 525 Agricultural Co-operative Credit Societies; nine Marketing Societies; seven Farming Societies; 13 Grain Banks; 92 Weavers' Societies; 73 Industrial Co-operative Societies, one Co-operative Printing; one Rural Industrial Co-operative Bank, one Land Mortgage Bank; a District Central Co-operative Bank, 21 Housing Societies; 23 Consumers Societies; one Social Service Society; three Ladies Co-operative Societies; two Producers Societies; 11 Federal Societies; two General ones and 17 of other types; four Lift Irrigation Societies; 12 Taluka Supervising Unions; 12 Taluka Development Boards; seven Co-operative Urban Banks, 42 Urban Credit Societies, two Better Living Societies; one Education Society and one District Saving Society.

There is a District Social Welfare Project Extension Implementing Committee consisting of 12 members of whom 11 are women social workers and one ex-officio Deputy Commissioner. The committee has opened ten welfare centres for women and children at Honganpalli, Narwad, Kakhandki, Arjungi and Nidoni in Bijapur taluka and Waudal, Telgi, Kudgi, Ghobangal and Kalhurgi in Bagewadi taluka. *Convener.* Smt. Sunhilalal Cudecal; *Dy. Convener.* Smt. Radhabal Apte.

CHICKMAGALUR DISTRICT

Area 2,787 sq miles; Population 417,538. Density of population: 150

Headquarters: Chickmagalur.

Talukas with area in square miles and population respectively within brackets: Chickmagalur (644; 90,314); Kadur (554; 1,10,715); Talikere (466; 82,016); Koppa (335; 41,408); Narasimharajapura (314; 19,750); Mudgere (365; 49,026); Nringeri (45; 10,282).

The District has an average rainfall of 73.45 inches and a forest area the largest in the State, of 811.5 sq. miles.

Chickmagalur, the District headquarters town, is 25 miles from Kadur railway station and has a population of 21,744. Coffee, cardamom and oranges are the principal commodities produced. The town is in the heart of the coffee-growing area. A coffee curing works called Mysore Coffee Curing Works is established here as well as a warehouse for coffee. A number of planters have also settled in this town.

Copra is exported to Madras and Bombay, and gingelly mostly to places in South India. The total value of commodities exported

annually from Aralkere is Rs 40 lakhs. Cotton ginning, rice milling, and manufacture of coconut brooms are the chief activities of the town.

ASSOCIATIONS

THE INDIAN PLANTERS' ASSOCIATION
Chickmagalur P.O.

President. T. C. Manjappa Shetty.

Vice-President.—A. M. Basava Gowda, M.L.A.; *Jt. Hon. Secretaries.*—C. Veeragowda; B. K. Narasimha Murthi, B.A., B.L.

MYSORE PLANTERS' ASSOCIATION

Basankudige Estate, Javali P.O.

Chairman.—P. G. Gurjer.

Secretary.—G. P. Ohrien.

THE MYSORE PLANTERS' ASSOCIATION

Chickmagalur.

Chairman.—U. K. Lakshman Gowda; *Vice-Chairman.*—R. C. Paterson; *Secy.*—H. K. Chandrasekhara.

CHITALDURGA DISTRICT

Area 4,185 sq miles, Population 868,370 Density of population 207

Headquarters. Chitaldurga

Talukas with area in square miles and population respectively within brackets Chitaldurga (477, 1,38,354), Chialakere (854, 1,24,900), Molahalmuru (295, 49,016), Jagalur (377, 70,237), Davangere (366, 1,46,151), Harihar (184, 63,445), Holakere (419, 91,964), Hosadurga (517, 87,324), Hiriyur (647, 96,845)

The District has a rainfall of 21.95 inches and a forest area of 226,000 sq miles

Commercially the most important town is Davangere, which is also the headquarters of a Taluka. It is situated on the Bangalore Harihar railway line. Ragi, jawar, cotton and groundnut are the chief articles of production and trade. The town has over fifteen cotton ginning factories. There are also a number of cotton pressing factories and weaving mills. Large quantities of groundnut cake are exported to foreign countries.

THE DAVANGERE TRADES ASSOCIATION

Mandipet, Davangere
President H. Kotar Basavappa, M.A., LL.B.
Vice-Presidents Maganur Basappa, Iyanhalli Doddaveerappa,
Secretary Jayanna M. Chikateri
Joint Secretary Mundrigi Rudrappa

COTTON MILLS

SHRI GANESAR TEXTILE MILLS LTD.
Spindles 19,576 Messrs G. Mahadevappa & Bros., Mg. Agents,
P.O. Box No. 23, Davangere (H). Mills at Chitaldurga Road, Davangere.

SRI SHANKARA TEXTILE MILLS LTD.

Spindles 15,240, Looms 10 Messrs Murugarajendra & Co.,
Post Box No. 2, Davangere Mills at Harihar Road, Davangere.

DAVANGERE COTTON MILLS LTD.

Spindles 15,744 Looms 300 Messrs R. Hanumanthappa & Son,
Managing Agents, Post Box No. 5, Davangere Mills at Chitaldurga Road, Davangere.

COORG DISTRICT

Area 1,591 sq miles, Population: 229,405, Density of population 144 District Headquarters. Mercara, Talukas North Coorg, South Coorg

Area and population of North Coorg. 609 sq miles, 97,732

Area and population of South Coorg. 986 sq miles, 1,31,673

Coorg, a former Part "C" State, now a part of the new Mysore State, is bounded along its entire western frontier by the mountain chain of the Western Ghats. The Western Ghats curve somewhat inland and thus also serve to some

extent as the northern and southern boundaries. In the north Coorg is partially separated from the forest highlands of Mysore by the rivers of Kumaradhara and Hemavathi, and on the east it merges into the general tableland of Mysore, the boundaries being marked by the river Cavery which is known as the Ganges of South India and a famous place of pilgrimage. Coorg is a hilly country with a rainfall of 80 to 120 inches with evergreen, deciduous and semi deciduous forests.

The Coorg district covering an area of 1,591 square miles has a population according to the 1951 census of 229,405. The population is made

up of Coorgis (Kadugala Lingayats, Brahmins, Muslims, Christians and (Italians) Scheduled Castes and Scheduled Tribes. Kannada is the chief language, Kodagu (Coorg language) is a dialect of old Kannada.

Paddy, coffee, orange, pepper and cardamom are the chief agricultural produce. There is no large scale industry. Transport consists mainly of buses, lorries and bullock carts. The chief items of trade are coffee, orange, pepper, cardamom and rice. The 1955 estimates for rice crop was 70,000 tons. The whole district is covered by the community projects schemes. The output of honey is about 2 lakh lb.

DHARWAR DISTRICT

Headquarters Dharwar

Area 5,296 sq miles, Population 1,57,486 Density of population 297

Talukas with area in square miles and population respectively within brackets Bijaagi (168, 58,853), Dharwar (430, 1,61,020), Gadag (413, 1,44,260), Hangal (20, 89,627), Haveri (402, 1,24,198), Hirekerur (310, 96,564), Hubli (290, 1,90,532), Kalghatgi (259, 50,840), Kundgol (235, 48,517), Mundargi (336, 48,961), Nargund (176, 33,313), Navalgund (418, 75,237), Ranebennur (762, 1,20,813), Ron (476, 1,27,874), Shiggaon (144, 98,004), Shirhatti (367, 81,447)

Dharwar District is bounded on the north by the Districts of Belgaum and Bijapur, on the south by Shimoga and Chitaldurga Districts, on the east by Raichur and Bellary Districts, and on the west by the District of North Kanara. The area of the District is 5,296 square miles and the population according to 1951 census 1,57,486. Dharwar District is roughly divided into two belts, characterized by differences of configuration, soil and products. To the north and north east spread vast unbroken plains of black cotton soil which produce wheat and abundant cotton crops. Dharwar is the biggest cotton growing District in Mysore State. The western belt of the District is traversed by low hills. This tract consists of a succession of low ranges covered with herbage and brushwood. The ranges are separated by flat valleys and it is in these valleys and the lower slopes of the hills that cultivation is chiefly confined. Farther west the country is still more hilly, and the trees increase in size towards the frontier of North Kanara. The Basel Mission carries on social and educational work. Dharwar, the headquarters town, is a station on the Southern Railway and is the cultural centre of what is popularly known as the North Karnataka region. It is also the seat of the Karnataka University, and a broadcasting station of All India Radio started functioning in January 1950. Dharwar has two Arts and Science colleges, a Government College of Agriculture, a Law College, a Polytechnic, a Kannada Research Institute and an Agricultural Museum. The city of Hubli, 12 miles from Dharwar is the biggest city in the District and is the Divisional Headquarters on the South-

ern Railway with a railway workshop, an Arts and Science College, a College of Engineering, a Polytechnic, a Medical College and a College of Commerce. Hubli is also known for its textile industry. The town of Gadag is another centre noted for its cotton trade and textile industry.

KARNATAK UNIVERSITY

Founded in 1949. A Teaching and Affiliated University having jurisdiction over the districts of Belgaum, Bidar, Bijapur, Dharwar, Gulbarga, North Kanara, Raichur and South Kanara in Mysore State.

Faculties: Humanities, Physical Sciences, Social Sciences, Law, Agriculture, Engineering and Medicine. Medium of Examination: English. Teaching departments: 18. Affiliated Colleges: 27, Recognized Institute: nil. Constituent Colleges: 2.

Chancellor, Shri Jaya Chamaraja Wallyar, Governor of Mysore
Vice-Chancellor, D. C. Pavate, M.A. (Cantab.)

Registrar, B. N. Wodeyar, M.A., LL.B.
Total number of students (1957-58) 9,770, (1958-59) 11,604

THE DEANS OF THE VARIOUS FACULTIES

Arts, Dr. H. C. Nandimath, M.A., Ph.D. (Lond.) Basaveshwar College, Bagalkot. Social Science, Dr. C. C. Pattanshetti, M.A., Ph.D., J. G. College of Commerce, Hubli. Science, Dr. N. R. Lawde, Head of the Department of Physics, Karnataka University, Dharwar. Law, Prof. V. A. Majumdar, M.A., LL.B. R. I. Law College, Belgaum. Engineering, Prof. B. B. Sali, B.V. Bhoomraddi College of Engineering and Technology, Hubli. Agriculture, Prof. M. D. Kolagi College of Agriculture, Dharwar. Medicine, Dr. R. P. Koppikar, M.B., B.S. (Bom.), Kasturba Medical College, Manipal.

FINANCE 1958-59 (ESTIMATES)

	Rs.
Income (including Govt. Grant)	15,72,172
Expenditure	15,92,196
Govt. Grant	3,71,956

† Statement for August 1958 not received. Figures taken from 1957 statement.

UNIVERSITY TEACHING DEPARTMENTS *

Names of the departments with courses offered within brackets: Kannada (M.A., Ph.D.); Statistics (M.A. (Stat.), M.Sc. (Stat.)); Physics (M.Sc., Ph.D.); Chemistry (Organic) (M.Sc., Ph.D.); Geology (M.Sc.); History and Ancient Indian History & Culture (M.A.); Economics (M.A.); English (M.A., Ph.D.); Philosophy (M.A.); Politics (M.A.); Kannada Research Institute, Dharwar (M.A. (Ancient Indian History and Culture, Archaeology, Epigraphy, Kannada Linguistics and Socio.), Ph.D.); Sociology (M.A.); Mathematics (M.A. and M.Sc.); Chemistry (Inorganic) (M.Sc.); Sanskrit (M.A.); Anthropology (M.A.); Botany (M.Sc.); Zoology (M.Sc.).

CONSTITUENT COLLEGES

Karnatak Arts College, Dharwar Courses B.A., } f. 1917 and as
M.A., Ph.D.; Karnatak Science College, Dharwar - } constituent
Courses, B.Sc., M.Sc., Ph.D. } colleges 1958.

AFFILIATED COLLEGES

Basaveshwar College, Bagalkot; B. V. B. College of Engineering and Technology, Hubli; College Agriculture, Dharwar.

* All the departments are located on the University campus at Dharwar Engineering College, Manpal; Government College of Arts and Science, Gulbarga; Government Teachers' Training College, Gulbarga; Janata Shikshana Samiti's Law College, Dharwar; Janata Shikshana Samiti's Science and Banashankari Arts College, Dharwar; J. G. College of Commerce, Hubli; Kanara College, Kuma; Karnatak Law Society's College of Commerce, Belgaum; Kasturba Medical College, Manpal; Lingaraj College, Belgaum; R. L. Law College, Belgaum; R. P. D. College, Belgaum, Shankar College, Yadgiri; Shuran Basaveshwar College, Gulbarga; Sri Kadamdheshwar College, Hubli; Sri Laxmi Venkatesh Desai College, Raichur; Sri P. C. Jabin Science College, Hubli; S. T. College, Belgaum; The Vidyalaw College, Udupi; Vijay College, Bijapur; Pre-University Course, Gadag; Karnatak Medical College, Hubli; Raja Lakshmagouda Science Institute, Belgaum; K. L. E. Society's College of Arts and Science, Gadag.

EDUCATIONAL INSTITUTIONS

Karnatak Arts College, Dharwar.
College of Agriculture, Dharwar.
Janata Education Society's Science and Banashankari Arts College, Dharwar.
P. C. Jabin Science Institute, Hubli.
Karnatak Medical College, Hubli.
Kadasiddheshwar Arts College, Hubli.
Training College for Men, Dharwar.
Karnatak University (Post-graduate instruction in Kannada, Chemistry, Statistics, Physics and Geology), Dharwar.
Kannada Research Institute, Dharwar.
Graduate Basic Training Centre, Dharwar.
Jagadguru Gangadhar College of Commerce, Hubli.
B. V. Bhoomaraddi College of Engineering and Technology, Hubli.
Training College for Women, Dharwar.
J. N. S. Law College, Dharwar.
K. H. Kabbur Institute of Engineering and Polytechnic, Dharwar.
Extension Training Centre, Dharwar.
Karnatak Science Institute, Dharwar.
Karnatak Mahila Vidya Peeth, Hubli.

SOCIETIES

The Karnatak Vidya Vardhak Sangha, Dharwar.
The Karnatak Historical Research Society, Dharwar.
The Sanskrit Patashala, Dharwar.
The Karnatak Hindi Prachar Sabha, Dharwar.

DHARMARTH SANGEET PATHASHALA AND BHARATIYA
SHRUTIYA KALA KENDRA
Mangalwar Peth, Dharwar.

President: R. I. Akalwadli; Chairman: N. R. Sambrani.

KALA KAUSHALYA AMATEUR SANGITA NATAKA MANDALI

Kaginelli P.O., Dharwar.

Chairman: R. S. Penslondar; Vice-Chairman: N. B. Nalk; Hon. Secy.: Dr. S. R. Acharya, S.M.P.

VIJAYA ART INSTITUTE

Gadag.

Director: T. P. Akki, A.M.; Principal: C. N. Patil, A.M., G.D. Art; Vice-Principal: M. A. Chetty, G.D. Art.

VIJAYA DRAMATIC ASSOCIATION

Gadag.

President: T. P. Akki, A.M.; Vice-President: M. A. Chetty, G.D. Art; Secretary: C. N. Patil, A.M., G.D. Art.

VIJAYA LIBRARY

Kaginelli P.O., Dharwar.

Chairman: Dundappa Desai; Vice-Chairman: R. N. Kulkarni; Hon. Secretary: Dr. S. R. Acharya, S.M.P.

VANITA SEVA SAMAJ, PURANIK ROAD, DHARWAR

The Samaj is the home for the orphans, destitutes and the poor and conducts a Training College for Women, a High School for Girls, a primary school, Technical, Weaving and Tailoring School, Free Maternity Home, Free Ayurvedic Dispensary, Fit Person Basic Institution.

President: P. G. Halkatti (Dt. Pleader).

Chairman: Gangadharappa (Hubli).

Secretary: L. R. Puranik. (Dharwar).

LIBRARIES (ALL OPEN TO THE PUBLIC).

Karnatak Granthalaya (Regional Library), Dharwar.

Kannada Research Institute Library, Dharwar.

Karnatak University Library, Dharwar.

Saraswati Vidyananya Vachanala, Hubli.

KARNATAK CHAMBER OF COMMERCE

Hubli.

THE KARNATAK HISTORICAL RESEARCH SOCIETY

College Road, Dharwar, Mysore State.

President: R. R. Dwakar, M.A., LL.B., Ex-Governor of Bihar and Editor, Samyukta Karnataka.

Chief Editor & Chairman: Vidyanatna Vidyabhusana R. S. Panchanukhi, M.A.

Hon. Secretary: V. B. Nalk, M.A., LL.B. (Senator, Karnatak Univ.)

KARNATAK VIDYAVARDHAKA SANGHA

Dharwar.

Chairman: M. S. Patil; Hon. Secretary: S. R. Gudi; Hon. Treasurer: S. C. Bikkannavar.

SANSKRITI PRAKASHANA

Malmaddi-Bellary Road, Dharwar.

Is a literary and cultural body.

President: Ramachandrarao Sali

Chief Editor: Prof. Pandurangrao B. Desai, M.A. (Karnatak Univ.).

Secretary & Publisher: U. B. Bidi.

COTTON MILLS

††NARAYANDAS CHUNILAL COTTON SPINNING & WEAVING MILLS (formerly Gadag Cotton Spg. & Wvg Mills), Spindles 11,334; Looms 218 Vyavakumar Mohlal Hiranawala, Owner. Gadag; Mills at Gadag, Dharwar (West).

†NANDI HANSHI & CO COTTON SPG. MILL, spindles 8,148; F. M. Hasbi, Managing Partner; Office on Mill premises; Mills at Nargund, Dharwar District.

†NEW KARNATAK COTTON MILLS (formerly Bharat Spg. No. 1 and No. 2), Spindles: 28,004; New Gujarat Cotton Mills Ltd. Prop., Ahmedabad. Bombay Office: Gool Mansion, Homji Street, Fort; Mills at Hubli.

GULBARGA DISTRICT

Area: 6,574 sq. miles; Population: 1,212,036; Density of Population: 184

Headquarters: Gulbarga.

Talukas with area in square miles and population respectively within brackets: Aland (678; 1,34,524); Gulbarga (664; 1,86,446); Chitapur (691; 1,45,054); Chitchohi (609; 92,440); Seram (865; 82,988); Yadgir (666; 1,59,830); Shahpur (627; 1,23,830); Shorapur (711; 1,23,554); Jevargi (Andola) (746; 91,214); Afzalpur (514; 72,152).

Most of the land is almost flat, the slope being from north to south and south-east. A hill range, however, traverses the District from the west to a south-easterly direction. The principal river is the Bhima, a tributary of the Krishna. The other river is the Kagna.

Generally speaking the District is devoid of forests except in the hilly areas, which contain teak, eppa, tirman, babul, tamarind and mango. The plains are hot and dry, while the wooded hills are damp.

† Figures taken from 1937 statement.

The average rainfall is about 29 inches, but it is capricious, causing occasional droughts.

In part of the area the black cotton soil predominates while part is sandy. The rabi crops are white jawar, wheat, gram, cotton and linseed. The kharif crops are yellow jawar, bajra, castor seed, rice, linseed and hemp. The staple food crop is jawar, bajra, rice and wheat being next in importance.

The most important mineral found is laminated limestone, which occurs at Shahabad and is known as Shahabad stone, largely used for flooring and roofing. There is also a cement works in Shahabad.

The exports consist of jawar, bajra, cotton, oilseeds and tobacco. The chief imports are salt, sugar, cotton and woollen stuffs, matches and kerosene.

COTTON MILLS

MAHABOOR SHAHI KULBARGA MILLS CO., LTD. Spindles 35,140; Looms 606. Managed by Committee of Directors. Office on Mill premises. Mills at Gulbarga.

† Proprietary concern.

HASSAN DISTRICT

Area . 2,638 sq. miles ; Population . 715,135 ; Density of Population 271.

Headquarters : Hassan.

Talukas with area in square miles and population respectively within brackets : Hassan (387, 1,32,447), Alur (164, 33,340), Arsikere (479, 1,40,687), Belur (310, 70,447), Manjarabad (407, 53,394), Arkalgud (265, 85,739), Hole-Narsipur (232, 79,322), Chennarayana (404, 1,19,675).

The District has a rainfall of 38.73 inches and a forest area of 96.4 sq. miles.

Hassan, the District Headquarters Town has a population of 24,860. The town has one implements factory started by Govern-

ment. There are also a number of rice mills, engineering and cement works.

Arsikere is an important trade centre for coconuts, copra, cotton, paddy, gingelly.

INSTITUTIONS

Smt. L. A. OCCUPATIONAL INSTITUTE.

Hassan.

Literary body.

Principal : B. C. Malle Gowda.

KOLAR DISTRICT

Area . 3,188 sq. miles ; Population . 1,129,875 ; Density of Population . 354.

Headquarters : Kolar.

Talukas with area in square miles and population respectively within brackets : Kolar Gold Fields (City) (30, 1,59,094), Kolar (305, 1,32,162), Mulbagal (316, 93,891), Srinivasapur (321, 84,542), Chintamani (313, 1,05,208), Sidlaghatta (265, 75,005), Ragaipalli (361, 70,042), Judibanda (87, 22,007), Goribidnur (339, 1,27,021), Chikballapur (249, 78,885), Malur (248, 80,774), Bangarpet (237, 91,354).

The District has an average rainfall of 28.21 inches and a forest area of 285 sq. miles.

Kolar which is the District Headquarters Town has a population of 27,176. Tanning of hides and skins, manufacture of jaggery, brown sugar, agricultural implements, woollen carpets and rugs, are other industrial activities. There is also a sheep breeders' association. A woollen spinning centre is maintained by the State Department.

Kolar Gold Fields, which form the largest concentration of population in the District, are situated south west of Bangarpet taluka and are connected to Bangalore and Howringpet on the main line by railway. It is inhabited largely by working classes. The population is 1,59,094. The four important mines are Mysore Sandstone, Gorgaum and Chumpton Rocks, now all taken over by the State. Raw skins of sheep and goats, cows, bullocks and buffaloes are also exported from this area.

MANDYA DISTRICT

Area . 1,917 sq. miles, Population . 717,545, Density of Population . 374.

Headquarters : Mandya.

Talukas with area in square miles and population respectively within brackets : Mandya (277, 1,24,572), Srirangapatna (143, 64,697), Nagamangala (402, 1,01,166), Krishnarajpet (352, 1,08,151), Malavalli (307, 1,31,616), Maddur (238, 1,16,948), Pandavapura (214, 70,395).

The District has a rainfall of 27.46 inches and a forest area of 51.7 sq. miles.

Mandya, the District Headquarters Town, lies 25 miles north east of Mysore on the Bangalore-Mysore Railway. It has a population of 21,158. Cultivation which is most extensively carried on is sugarcane. The Mysore Sugar Co., Ltd., a government aided concern, has its factory here. The factory employs 1,200 persons daily. 25 to 30 thousand tons of sugar are manufactured annually. A distillery is attached to the sugar factory where molasses, a by-product is used for the manufacture of power alcohol. A confectionery is also attached to the sugar factory. Mandya is also a centre for the butter trade. Cart-making and weaving of woollen goods are other industries. The Government of India issued a licence to a private concern in January 1958 to set up a paper factory at Mandya at an estimated cost of Rs. 3 crores. The Mysore Government had agreed to invest ten per cent in the share capital.

MYSORE DISTRICT

Headquarters : Mysore.

Talukas with area in square miles and population respectively within brackets : Mysore (City) (14, 2,44,323), Mysore (303, 95,039), Krishnarajnagar (231, 1,07,895), Hunsur (342, 73,689), Periapatna (333, 72,725), Hegdevanakote (706, 75,399), Gundlupet (355, 94,320), Channarayana (479, 1,72,042), Nanjangud (372, 1,70,145), T. Narasipur (223, 1,35,016), Yelandur (104, 40,138), Killegal (1,076, 1,38,908).

The area of the District is 4,622 sq. miles and the population is 1,423,679. Density of population is 308. The District has an average rainfall of 29 inches 83 cents and a forest area of 447.5 sq. miles.

Mysore, the District headquarters town is also the residence of the Governor. It has an area of 14.43 sq. miles and a population of 244,323. It is a jaddy growing centre, with several mills for hulling paddy. There are a large number of power and handloom industries for weaving cotton and silk fabrics in the town. Sandalwood oil is produced in the Government Sandal Oil Factory. The Central Food Technological Research Institute, one of the national laboratories, is situated here. Mysore is also the headquarters of the Mysore University. There are a few taxidermists in the town. During Navarathri (Dasara) days an exhibition is also held here.

Mysore City is also the administrative headquarters of the Mysore Division which comprises the districts of Mysore, Mandya, Hassan, Chikmagalur, Shimoga, South Kanara and Coorg, having a total area of 20,632 sq. miles and population of 54,97,534.

Famous tourist attractions in the District are

Krishnarajasaagar Dam, Brindavan Gardens, the Chamundi Hills, Srirangapatna, Sandipur Game Sanctuary and the Somanathpur Temple.

ASSOCIATIONS

Ayurveda Valdyas Sangha, Mysore City. Promotion of Science of Ayurveda.

Ganamba Maternity & Child Welfare Trust, Mysore City. Promotion of maternity care and child welfare.

Children's Library, Mysore City. Run by the Rotary Club.

Hindi Prachar Sabha, Mysore City.

Theosophical Society, Mysore City.

Mysore Bar Association, Mysore City.

Mahila Samaj, Mysore City.

Ramakrishna Ashram, Mysore City.

Vanita Sadana, Mysore City.

WESLEY PRESS AND PUBLISHING HOUSE

P.O. 37, Mysore City.

USHA PRESS AND PUBLISHING HOUSE

Mysore City.

CHETHANA MUDRALAYA AND PUBLISHING HOUSE

Mysore City.

CLUBS

Social Club, Holenarasipur.

Cosmopolitan Club, Mysore City.

Sports Club, Mysore City.

Vontikoppal Club, Mysore City.

HOTELS

Hotel Metropole, Mysore City.

Hotel Krishnarajasaagar, Brindavan Gardens, Krishnarajasaagar.

Bombay Anandabhavan Boarding House, Mysore City.

Gayathri Bhavan, Mysore City.

Hotel Dasaprakash, Mysore City.
Bombay Indra Bhavan, Mysore City.
Modern Hindu Hotel, Mysore City.
Chamundeswari Bhavan, Mysore City.
Carlton Hotel, Mysore City.
Rita Hotel, Mysore City.

INDUSTRIES

Mysore Chemicals and Fertilizers Ltd., Belugola P.O.
Mysore Lac and Paint Works, Killa, Mysore.
Government Silk Weaving Factory, Mysore.

Government Sandalwood Oil Factory, Mysore.
Coorg & Mysore Coffee Co. (1937) Ltd., Chamundi Coffee Curing Works, Vanivilas Mohalla P.O.
Mangalore Ganesh Beedi Works, Mysore.

SPINNING & WEAVING MILLS

Sri Krishnarajendra Mills Ltd., Mysore; number of Spindles 42,924; Looms 202. H. N. Pallegar, M.A., LL.B., I.A.S., Chairman and Mg. Director. Office on Mill Premises. Mills at Bangalore Road, Mysore.

MYSORE MUNICIPAL COUNCIL

President, B. N. Kenggegowda, B.A., B.L.

Vice-President, M. K. Linglah.

Municipal Commissioner, M. Vazeer Ahmed, B.Sc.

Health Officer, Dr. M. Ramarao, M.B.B.S., D.P.H.

Municipal Executive Engineer, M. P. Lakshmi-rajiah, B.E.

Octroi Supdt., Harishankaralya, B.A.

Revenue Officer, R. Rama Rao, B.A. (Hons.).

Manager, Municipal Farm, Vacant.

Audit Superintendent, B. T. Ramaswamy.

Superintendent, Municipal Office, G. Subba Rao.

MEMBERS

An estimate of party position is: Con 17, P.S.P. 6, Soc 3, Comm 1, Ind 5

T. V. Srinivasa Rao, S. Soma Sundara Sharma, D. Linglah and M. Chikathammayya (Division No. 1).

Dr. J. Kamalaraman, Dr. B. G. Das and K. Siddiah (Division No. 2).

A. Krishnamurthy Rao, Vedanth Hemmege and Srikanthasharma (Division No. 3).

B. Narayana Swamy, H. Kempe Gowda and M. N. Thimmlah (Division No. 4).

Chowdiah, Doddathammiah and Srimathi Soundaramma Venkatesh (Division No. 5).

B. K. Puttlah, B. N. Kenggegowda, B.A., B.L., S. Govindiah, C. Meerama Chetty and H. N. Muddiah (Division No. 6).

A. Mohamad Salt, Azeez Salt and Mir Noor Hussain (Division No. 7).

M. K. Linglah, J. M. Coutinho, S. Sanjeeviah, M. J. Mohamad Yakoob and S. Jogi Siddiah (Division No. 8).

M. Venkatalingiah, K. Doulat Rao and Mariyappa (Division No. 9).

BUDGET ESTIMATES FOR 1958-59

Revenue: Rs. 69,00,333.

Expenditure: Rs. 71,86,460.

NORTH KANARA DISTRICT

Headquarters: Karwar.

Area: 3,964 sq. miles.

The total population according to 1951 census is 517,780. Density of population is 131.

Talukas with area in square miles and population respectively within brackets: Akola (348; 44,181); Bhatkal (129; 50,053); Haljaj (315; 36,516); Honnavar (278; 74,490); Karwar (284; 78,725); Kumta (235; 77,457); Mundgod (257; 15,615); Siddapur (333; 41,777); Supa (732; 18,159); Yellapur (508; 19,112); Sirsi (556; 57,696).

North Kanara is a District on the Konkan Coast between 15°55' and 18°31' N. and 74°0' and 75°10' E. It is bounded on the north by Goa and the Belgaum District; on the east by the Dharwar and Shimoga districts; on the south by South Kanara and on the west by the Arabian Sea. The Sahyadri range of the Western Ghats varying in height from 2,500 to 3,000 feet runs through the District from the south to the north, dividing it into two tracts, the uplands or Balaghat and the lowlands or Payan Ghat.

Karwar, the headquarters of the District, possesses a fine natural harbour with great potentialities. The natural attractions of the country around, make Karwar a good health resort and a centre for tourists.

Agriculture is the mainstay of the people. Cultivable waste is about 60,000 acres. Barren and uncultivable land is about 45,000 acres. The net area sown is about 265,000 acres.

The net area irrigated is a little over 45,000 acres. The percentage of net area irrigated to net area sown is 18.06.

Paddy occupies 190,000 acres, ragi occupies 2,000 acres, black gram 2,000 acres and horse gram 2,700 acres.

Of the cash crops:—Sugarcane occupies 33,000 acres; coconuts 12,000 acres; mangoes 2,000 acres; bananas 4,000 acres; pine-apples 1,000 acres; sweet potatoes 900 acres; onions 400 acres; cashewnuts 1,200 acres; betel-nuts cover an area of 15,400 acres; pepper 2,000 acres, cardamom 600 acres; groundnuts 9,500 acres and betel-leaves 400 acres.

Rice which is most widely grown is responsible roughly for 75 per cent of the net cropped area. The average yield ranges from 8 to 40 maunds per maund of seed. The introduction of the Japanese method of cultivation has improved matters in many tracts and is responsible for larger yields. Another agricultural product the cultivation of which is fast developing in the loose sandy soil of Kanara is groundnut.

Roughly 85 per cent of the area of the district is forest. It approximates to 3,005 square miles.

The total population of fishermen is about 26,000. The average annual yield is about 20,000 tons. The chief variety is mackerel. There is a Mackerel Research Station at Karwar.

ECONOMY

There is no major railway connection in Kanara.

Karwar-Bhatkal road is the national highway and so is the Kanara portion of the Bombay-Trivandrum national highway. Lately the Government has been constructing a cement road on the highway Kanara-Hubli-Karwar—a distance of 102 miles.

The Mysore State Road Transport Corporation piles practically throughout the district with the monopoly of passenger traffic.

Vessels up to 10 tons can go up to a distance of 20 miles in Kali River and up to 18 miles in the Agrashini. The Sharavati takes boat traffic up to Gersappa, about 25 miles from Honnavar.

The steamers of the Scindia Steam Navigation Company touch Karwar, Tadri, Kumta and Bhatkal during the fair season.

The most important commodities of export are timber, fuel, charcoal, bamboos, manganese and sweet potatoes, onions and supari. Fresh fish is transported from almost all the ports by motor launches to Bombay. The principal imports are grains, sugar, pulses, kerosene oil, coconut oil, Mangalore tiles, etc.

The only mineral that is successfully tackled at present is manganese. In flourishing times about 20,000 tons were exported every year to dollar areas.

Among the important industries are the Government saw mills, and a plywood factory at Dandell. A good many rice mills sprang up during the days of rationing. But this number is now decreasing and the pounding woman is fast taking the place of the mill.

Bee-keeping is a favourite industry initiated by Government and in a forest tract like Kanara it has a bright future. Already there are 4,500 colonies in the district and the honey yield is about 20 to 25 thousand lb. a year.

The total area covered with bamboos is 89,000 acres and lies mainly on the slopes of the Gangavli and Kali rivers.

An area of about 25,570 acres of forest is covered with very useful species of palm known as the tall palm. This provides annually about 1,500 mature palms yielding about 300 tons of edible sago flour giving means of subsistence to about 6,000 people. The chief produce is tall-chakkil or pitch from which edible flour is prepared.

Baswarajadurga an island off Honnavar produces the best quality of Cavi or reddie which is used for painting houses.

BENEVOLENT INSTITUTIONS

District Probation and After Care Association and Bemand Homa.
Hon. Secretary, S. M. Kalkini, B.A., LL.B.

COLLEGES

Kanara College, Kumta.

RAICHUR DISTRICT

Area : 5,591 sq. miles ; Population : 953,640 ; Density of Population : 171.

Headquarters : Raichur.

Talukas with area in square miles and population respectively within brackets : Raichur (688 ; 1,49,593) ; Manvi (749 ; 1,04,724) ; Deodurg (595 ; 89,815) ; Sindhmoo (628 ; 75,750) ; Gangavati (514 ; 86,921) ; Koppal (542 ; 1,30,895) ; Yelburga (545 ; 1,03,723) ; Kushtagi (536 ; 1,00,601) ; Lingasur (739 ; 1,11,658).

There is a range of hills extending from the west and north-west with two breaks. The general slope of the country is from the north-west towards the south-east. The most important

river is the Krishna, which forms the boundary in the north ; next the Tungabhadra which forms part of the boundary in the south. The Bhima joins the Krishna on the northern boundary.

The most important trees are teak, ebony, bilsal, mango, tamarind, neem.

There are no large forests. The District is generally healthy except during the rains when fevers might prevail. The temperature during the year varies from about 110° F. to about 70° F. The average annual rainfall is about 25 in.

The chief antiquities are in or near the fort of Raichur. There are also the old forts of Deo-

durg and Yadgir, besides many temples and mosques.

The staple food crops are jawar and bajra. Cotton is also grown and so are rice and oilseeds.

The most important mineral is the auriferous quartz. Laminated limestone, Shababad stone and talc are also found.

The principal exports are jawar and other foodgrains and oils and the chief imports salts, coconuts, sugar, kerosene and cloth.

Raichur town is of some commercial importance.

SHIMOGA DISTRICT

Area : 4,066 sq. miles ; Population : 663,315 ; Density of population : 163.

Headquarters : Shimoga.

Talukas with area in square miles and population respectively within brackets : Shimoga (409 ; 96,620) ; Bhadravati (257 ; 80,494) ; Chennagiri (458 ; 1,01,922) ; Honnali (338 ; 85,394) ; Shikaripur (342 ; 64,320) ; Sorab (412 ; 65,388) ; Nagar (749 ; 71,580) ; Hosanagar (539 ; 37,514) ; Thirthahalli (483 ; 60,083).

The District has an average rainfall of 56.98 inches and a forest area of 439.4 sq. miles.

Shimoga, the District headquarters town, has a population of 46,524. It is the biggest centre for area trade in the Malnad parts of the State. Rice, jawar, wheat, ragi, cane, jaggery, tamarind, chillies, groundnut are exported to South Kanara and Bombay by rail and road. Chief forest produce includes teak, sandalwood, rosewood. The Government of Mysore maintain a timber depot here and also run a Sandalwood Factory. There is also a match factory called the Mysore Match Factory.

Another notable place is Bhadravati on the Bhadra river, 12 miles south-east of Shimoga. It is an industrial and trade centre with a population of 42,451. The Mysore Iron and Steel Works, the Cement Factory, the Mysore Paper Mills and a Ferro Silican Plant are all located here.

SOUTH KANARA DISTRICT

Area : 3,250 sq. miles ; Population : 1,330,917 ; Density of population : 410.

Headquarters : Mangalore.

Talukas with area in square miles and population respectively within brackets : Umdapur (600 ; 1,74,415) ; Udipi (367 ; 2,90,559) ; Karkal (629 ; 1,71,919) ; Mangalore (406 ; 4,51,005) ; Puttur (1,246 ; 2,42,989).

The Western Ghats form a natural boundary in the east, and the Arabian Sea in the West. The land slopes gently from the east to the west, but gives an impression of flatness. Much of the surface is bare and treeless and strewn with granite boulders, but there are many small hill ranges well-wooded. From the sea the coastline presents an endless stretch of coconut palms broken by river mouths.

The District has a heavy rainfall and the flora is as a consequence exceedingly varied. Of fruit trees, the coco and the areca palms and the jack and the mango are important. The palmyra palm is found everywhere and the cashew is common. The bamboo grows luxuriantly. Flowers grow in profusion. The fauna is as varied as the flora. Leopards, bisons, elephants are fairly common. The jackal and the monkey are found almost everywhere, while many species of snakes exist.

The climate is excessively humid with a rainfall of over 140 inches. The rains seldom fail in this District and drought is extremely rare.

The chief objects of archaeological interest are the Jain remains especially in Karkala, Muddidri and Venur—in the form of huge monolithic statues, temples or bastis and slabs—basas or pillars.

The District has some of the best rice lands in the country ; tobacco and vegetables are also grown, along with black gram, horse gram and green gram. On the hills there is coffee.

The District is essentially a forest District. The country is everywhere thickly wooded. The most valuable trees are teak, pounapar, black wood and jack.

The soil yields excellent clay which has given rise to a flourishing tile industry. Another important industry is coffee curing and the processing of cashewnut.

The principal exports are coffee, tiles, copra, rice and wood. The chief imports are cotton piece-goods, grain, oil, sugar, salt.

Mangalore is the biggest single harbour. But Malpe near Udipi has greater possibilities and was mentioned by the West Coast Major Port Development Committee for development as a major port between Marmugao and Cochin.

INSTITUTIONS AND SOCIETIES

THE CODIAL RAIL PRESS
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Director & Manager : Rev. Fr. John Marian Meunes.

DIOCESE OF MANGALORE

Bishop's House, Mangalore S.
Vicar-Capitular : Rt. Rev. Mgr. Alb. V. D'Souza ; Procurator : Very Rev. Mgr. M. Pinto ; Chancellor : Rev. Fr. C. T. Sequeira.

FAMILY PLANNING ASSOCIATION OF INDIA

President : Dr. T. M. A. Pal, M.B.B.S. ; Secretary : T. Ramesh U. Pal ; Jt. Secy. : Mrs. Prema A. Pal.

THE KANARA CHAMBER OF COMMERCE

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President : Manel Sribulvan Nayak ; Vice-President : Maroll Desvaraya Kamath ; Treasurer : Kasturi Mangesh Pal ; Hon. Secretaries : P. Narasim Rao, U. Subraya Mallia.

KARNATAKA POLYTECHNIC

P.O. Box 120
Mangalore
Principal : N. S. Jathana, B.E. ; Head of A.E. Section : T. Balachandran, B.A., B.E. ; Head of C.E. : M. I. Shastri, B.E. ; Head of E.E. : H. P. Vashodhar, B.E. ; Superintendent : K. T. K. Shenaya.

ST. JOSEPH'S INTERDIOCESAN

SEMINARY

P.O. Box No. 3, Mangalore S.
A religious body for training B.C. Priests.
Rector : Rev. J. C. Pereira, S.J. ; Minister : Rev. J. Bal. D'Souza, S.J. ; Procurator : Rev. F. M. Vieira, S.J.

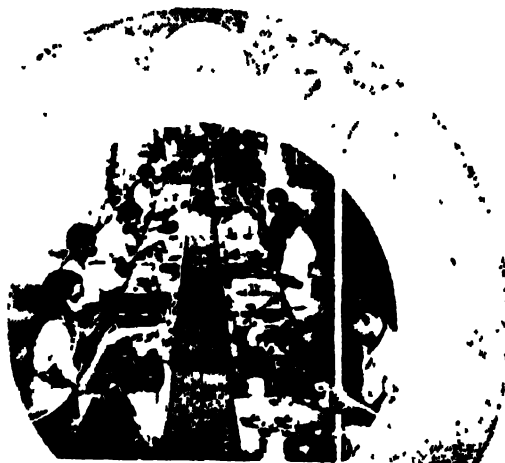
TUMKUR DISTRICT

Area : 4,093 sq. miles ; Population : 1,151,362 ; Density of population : 281.

Talukas with area in square miles and population respectively within brackets : Tumkur (403 ; 1,26,489) ; Madhugiri (422 ; 1,31,042) ; Kottagere (256 ; 78,710) ; Sira (534 ; 1,25,932) ; Pavagada (523 ; 95,579) ; Chikankannhalli (412 ; 91,899) ; Gubbi (466 ; 1,25,899) ; Tiptur (808 ; 94,142) ; Turuvekere (806 ; 86,467) ; Kunigal (343 ; 1,55,655).

Tumkur District has an average rainfall of 26.15 inches and a forest area of 196.3 sq. miles.

Tumkur which is the District Headquarters Town has a population of 35,999. It has half a dozen rice mills, and also flour mills, oil mills, slate-pencil factories, and a tile factory. Groundnuts and groundnut products, castor seed, honey seed and food grains such as ragi, avare, are exported to places in and outside the State.



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Gurusiddappa & Sons C. Chamarajpet Bangalore

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 Nathan & Co., V. L., Quadrant Road, Bangalore.
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 National Type Foundry, The, Manavarthpet, Bangalore 2.
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 Probathil Krishniah Setty & Co., Chickpet, Bangalore 2.
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 Radio Soap Institute, The, Lalbagh Road, Bangalore 2.
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 Ram Mohan & Co., Garudachar Buildings, Bangalore.
 Ramnarayan Girdharidas & Co., Avenue Road, Bangalore.
 Rangaswamiah, H., & Co., Manavarthpet, Bangalore 2.
 Reliance Assurance Co. Ltd., Reliance Assurance Buildings, Kempegowda Road, Bangalore.
 Reliance Electric Co., 20, Sri Narasimharaja Road, Bangalore.
 Royal Stores, 11, South Parade, Bangalore.
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 S. Dhondusa Gold Thread Factory, Subedar Chatram Road, Bangalore City.
 Salam Abdul Majeed & Co., M. A., Stationers, Doddapet, Bangalore.
 Samprathi Brothers, 89, Sultanpet, Bangalore City.
 Sandur Manganese & Iron Ores (Private) Ltd., Sandur House, Palace Road, Bangalore.
 Seshu Iyer & Co., Bangalore.
 Sha Sunajnuull Magaraj & Co., Dewan Surappa Lane, Chickpet, Bangalore.
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 Shah Brothers, Chickpet, Bangalore.
 Shah Sakalechand Babulal & Co., Chowdeswari Temple Street, Bangalore.
 Shamshuddin & Sons, 6-B, Ulsoor Road, Bangalore.

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 V. S. R. & Co., Chamarajpet, Bangalore.
 Western India Match Co. Ltd., 41, Old Tharagupet, Bangalore.

ORISSA

Capital : Bhubaneswar.

Area : 60,186 sq. miles.

Total Population : 14,645,946 (Males 7,242,692 and Females 7,403,054).

Average density of population : 244 per square mile.

Administrative Divisions : The whole of the State is divided into 17 Districts. But some of the districts are tagged together for administrative convenience. Thus there are only 13 Administrative Districts. The following are the administrative districts with names of district headquarters :

Cuttack and Narsinghpur (Cuttack); Puri and Nayagarh (Puri); Dhenkanal and Angul (Dhenkanal); Boudh and Khondmals (Phulbani); Balasore (Balasore); Sambalpur (Sambalpur); Ganjam (Chatrapur); Koraput (Koraput); Mayurbhanj (Baripada); Sundergarh (Sundergarh); Bolangir (Bolangir-patna); Kalahandi (Bhawanipatna); Keonjhar (Keonjhar-garh).

The District Magistrates of Cuttack, Puri, Dhenkanal and Boudh are the Ex-Officio District Magistrates of the Districts tagged therewith namely Narsinghpur, Nayagarh, Angul and Khondmals.

POPULATION

Area in square miles and population respectively of Administrative Districts :

Cuttack 4,210 : 2,529,244 ; Balasore 2,507 : 1,106,012 ; Puri 4,043 : 1,572,262 ; Sambalpur 6,765 : 1,301,804 ; Ganjam 4,725 : 1,624,829 ; Koraput 9,875 : 1,269,534 ; Phulbani 4,282 : 456,895 ; Mayurbhanj 4,021 : 1,028,825 ; Dhenkanal 4,229 : 839,241 ; Keonjhar 3,210 : 588,441 ; Sundergarh 3,788 : 552,207 ; Bolangir 3,412 : 917,975 ; Kalahandi 5,057 : 858,781.

Names of talukas in administrative districts with area in square miles and population respectively in each taluka within brackets.

Cuttack District: Sadar (1,562 : 11,75,759); Jalpur (1,115 : 6,22,539); Kendrapatna (977 : 5,20,472); Athgarh (556 : 2,04,483); Balasore District: Sadar (1,168 : 5,80,012); Bhadrak (1,076 : 4,47,270); Nilgiri (263 : 78,730); Puri District: Sadar (1,409 : 8,32,404); Bhubaneswar (332 : 2,08,706); Khurda (751 : 3,52,039); Nayagarh (1,551 : 1,01,109); Sambalpur District: Sadar (1,692 : 4,48,821); Bargarh (2,252 : 6,12,037); Deogarh (1,044 : 96,875); Kuchinda (944 : 1,01,447); Balakhol (833 : 42,024); Ganjam District: Berhampur (2,207 : 6,32,430); Ghumsur (1,691 : 5,20,871); Plains: Chatrapur (827 : 4,71,528); Koraput District: Koraput Sadar (2,100 : 2,95,009); Nowrangpur (5,572 : 6,86,390); Rayagada (2,203 : 2,88,135); Dhenkanal District: Sadar (508 : 1,86,711); Khama-khyannagar (865 : 1,76,563); Talcher (388 : 92,770); Pal-Lahara (450 : 40,799); Athmalik (711 : 84,060); Hindol (312 : 67,926); Angul (902 : 1,90,432); Keonjhar District: Sadar (2,065 : 2,88,367); Champua (612 : 1,36,355); Anandapur (539 : 1,63,719); Phulbani District: Khondmals (779 : 85,543); Boudh (1,330 : 1,67,713); Balliguda (2,173 : 2,03,689); Bolangir District: Bolangir (869 : 1,724); Titlagarh (935 : 2,57,323); Patangara (727 : 1,57,415); Sonapur (882 : 2,41,413); Sundergarh District: Sundergarh (1,781 : 2,85,261); Pampoh (711 : 1,61,451); Bonal (1,206 : 1,05,491); Kalahandi District: Sadar (1,568 : 2,24,027); Dharamgarh (2,177 : 4,14,904); Nawapara (1,312 : 2,19,830); Mayurbhanj District: Sadar (2,105 : 4,40,019); Bamanahaty (787 : 2,60,220); Panchpur (761 : 1,83,444); Kapilpada (618 : 1,45,142).

Number of Tahsils : 50 Revenue Sub-Divisions consisting of a number of Tahsils and Thanas.

Number of Union Boards : 2.

Number of District Boards : 6.

Number of Municipalities : 19.

Number of Notified Areas Councils : 17.

Number of Gram Panchayats : 2,318.

Number of villages : 60,984.

Strength of the State Legislative Assembly : 140.

Number of members returned from the State to the Lok Sabha : 20.

Number of members returned from the State to the Rajya Sabha : 10.

LARGE-SCALE INDUSTRY

Main large scale industries of State with important locations in brackets. The name following the dash indicates the district.

Textiles (Chowdwar: Cuttack); Cement (Rajgangpur); Refrigerators (Zobra); Paper (Brajnagar: Sambalpur and Chowdwar: Cuttack); Glass (Barang: Cuttack and Bahalda Road: Mayurbhanj); Sugar (Rayagada: Koraput); Iron and Steel (Nayabazar: Cuttack and Rourkela: Sundergarh); Soap Works (Kharlar Road: Kalahandi); Potteries (Baripada: Mayurbhanj and Barang: Cuttack); Spinning Mills (Cuttack, Sambalpur and Mayurbhanj); Tube Mill (Chowdwar: Cuttack); Refractories and Pipes (Barang: Cuttack, Rourkela: Sundergarh, Belpahar: Sambalpur, Rajgangpur); Ferro-manganese (Rayagada: Koraput, Joda: Keonjhar); Chlorine and Caustic Soda (Brajnagar: Sambalpur); Low Shaft Furnace (Barul: Keonjhar); Structural Transmission Towers (Nayabazar: Cuttack); Coal and Coal Products (Baripada: Mayurbhanj).

CHIEF INDUSTRIAL UNITS

The Orissa Textile Mills, Chowdwar, Cuttack; The Orissa Cement Factory, Rajgangpur; The Kalinga Tube Ltd., Chowdwar; The Kalinga Industries Ltd., Cuttack; Orient Paper Mills, Brajnagar; Shree Durga Glass Works Ltd., Barang; Orissa Industries Ltd., Barang; The Titagarh Paper Mills, Chowdwar; The National Foundry and Rolling Mills Ltd., Cuttack; The Mayurbhanj Glass Works Ltd., Bahalda Road, Mayurbhanj; Tata Ferro-manganese Plant, Joda; Ferro-manganese Plant, Rourkela; Orient Weaving Mills Ltd., Cuttack; Mayurbhanj Textiles, Baripada; Mayurbhanj Potteries, Baripada; Bana Soap Factory, Kharlar Road, Kalahandi; Refractory Plant, Rajgangpur; Hindustan Steel (Private) Ltd., Rourkela.

A new smelter plant of the Indian Aluminium Company called the Hirakud Reduction Plant was inaugurated by the Chief Minister of Orissa on February 12, 1959.

Situated a little more than a stone's throw from the Hirakud multi-purpose project, the smelter has been built at a cost of Rs 6 crores by the Indian Aluminium Company and forms part of a Rs 14 crore integrated expansion project involving bauxite, alumina and metal production facilities.

It has an installed capacity of 10,000 tons of aluminium which saves the nation Rs 2-5 crores of foreign exchange annually.

The construction of the 170-crore steel plant at Rourkela started in 1955. It will have a productive capacity of one million tons a year and has already started production.

SMALL & COTTAGE INDUSTRIES

Bamboo Factory (Cuttack); Steel (Parlakhmedil, Cuttack); Salt (Ganjam, Puri, Cuttack); Fire Bricks (Jharsuguda); Foundry (Tapang, Puri, Berhampur in Ganjam, Cuttack); Fruit products (Cuttack, Angul, Parlakhmedil, Rourkela).

Handloom, Hides and Skins, Salt manufacturers, Horn works, Bell metal, Potteries, Filigree, Blacksmithy, Carpentry, Tailoring, Cane Works, Soap making, Trunk manufacturing and Paddy husking, Kiri rearing, Rope-making, Toys, Bamboo works, Mats, Weaving, Spinning, Flaying of hides and horns.

Location : Throughout the State except salt manufacturing which has been established in the coastal areas and filigree which is confined to Cuttack. Horn works are established at Cuttack and Parlakhmedil.

There are four Engineering Schools in the State namely, Orissa School of Engineering, Cuttack; Berhampur Engineering School, Berhampur; Ganjam, Jharsuguda Engineering School, Jharsuguda; Sambalpur, Bhadrak Engineering School, Bhadrak, Balasore.

There are 12 Industrial schools giving training in carpentry, smithy, weaving, cane-works, shoe making and tailoring and 17 crafts schools giving training in handicrafts.

MINERALS, METALS

Mineral deposits : The potentialities of mines in Orissa have not been exploited fully. Iron and manganese ores and limestone and coal are worked out in large quantities. Other minerals like chromite, graphite, fire-clay, china-clay, soapstone, asbestos, white clay and kyanite are worked out in limited quantities.

Location : Iron ore in Badampahar, Gorn mahisan, Sulapat, Gargari, Hatiskily, Kasia, Bera in Mayurbhanj; Mohapatra, Badampahar in Mayurbhanj; Thakurani, Kalpatti, Sarayabali, Bhadrasahi, Belkundi, Jhiling-Longabala, Kasa, Guani, Rayagada, Uthura, Tomka, Belakhatia, Sukinda in Cuttack; Bandhubahat in Sundergarh District; Nangalash, Joria, Katpat, Bhitara, Seemunda, Baghrabat in Keonjhar; Tunga, Boudh in Cuttack; Bandhubahat in Sundergarh District.

Chromite ore: Kamarda, Saranahi and Gargari in Cuttack District; Kusanahi and Baula chromite mine in Keonjhar District.

Manganese ore: In Thakurani, Belkundi, Bamehari, Kalaparahat, Nayabali, Mangabera, Tiringpahar, Rihora, Kallimati, Chormalda, Dalpahar, Haromoti, Uthura and others.

Coal: Dhanbana, Talhar and Bera in Dhenkanal District and Hingir-Rampur, D. River Colliery and Orient Colliery in the district of Sambalpur.

Graphite: Maghivoham, Katiguda in Koraput; Sargipali in Sambalpur; Papal Matupalli, Dhak Jamar, Lahakhamar, Janjuri and others in Bolangir.

Limestone: Hatihari, Langibarna, Jagda, Jharbada and Bramitrapur in Sundergarh District.

Dolomite: Pampoh, Bramitrapur and Jagda in Sundergarh District.

China clay: Jhulan Runnesh, Chanchora, Jamkesar, Kurma, Dumuria, and Joshipur in Mayurbhanj.

Soapstone: Jhulan Runnesh in Mayurbhanj District.

Kyanite: Panijua in Mayurbhanj.

White Clay (Dudhikhadil): Jagannath Prasad in Puri District.

Asbestos: Joshipur in Mayurbhanj.

Fire clay: Belpahar, Daripali and Talabira in Sambalpur.

Quantity and value of each mineral extracted in 1957 : Chromite (71,963 tons; Rs. 92,36,716); Manganese (3,29,699 tons; Rs. 4,09,24,072); Iron ore (20,48,259 tons; Rs. 3,78,93,791); Limestone (15,63,019 tons; Rs. 90,74,920); Graphite (923 tons; Rs. 2,66,441); Coal (5,25,372 tons; Rs. 94,20,690); China clay (8,661 tons; Rs. 3,96,656); Kyanite (223 tons; Rs. 44,934 (1956); Soapstone (129 tons; Rs. 3,473); Fire clay (18,138 tons; Rs. 1,31,390); Dolomite (1,37,077 tons; Rs. 16,68,481).

Average number of workers employed daily in the mines 49,119.

Average number of workers employed daily in each mineral industry Iron ore (16,091), Coal (6,097), Manganese (16,227), Limestone (6,134), Others (1,270)

Results of prospecting operations conducted by the State Government in 1957 (1) Estimated reserve of 80 million tons of iron ore in Bailad area of Cuttack Keonjhar for export to Japan through Paradip (2) 8 lakh tons of manganese ore in Deyphola area for establishment of a Ferro manganese plant (3) 80 million tons of limestone in Dongri area of Sambalpur for cement factory

PORTS

Chandball and Gopalpur are the two ports in the State. It is proposed to spend Rs. 2-30 lakhs for the development of Chandball Port during the Second Five Year Plan period. A sum of Rs. 75,371 was spent upto 31st March 1957. Steps were being taken to start hydrographic survey of Dhamra and Baitarani rivers during 1957-58

Exports of food grains and other cargoes from Chandball during 1956-57: 2,981 tons, Imports of cargo during the same period 134 tons

Gopalpur: There has been no sea borne trade since 1942

Paradip Paradip was declared a Minor Port on January 6, 1958. The first shipment of iron ore commenced on the 25th of November 1958 and the ship left with 8,800 tons of ore on 15th December. It is programmed to export 50,000 tons of iron ore from Paradip during the 1958-59 working season

It is proposed to build up Paradip into an all weather port as early as possible so as to handle export of 1-2 million tons of iron a year

The model studies which were taken up at the Central Water and Power Research Station at Poona are very nearly complete and the preliminary report has been received. The report has clearly established the technical feasibility of building a major port at Paradip

The prospects of trade are immense with the construction of railways from Rourkela to Talcher, Sukinda Mines to Jenaipur, Cuttack to Paradip.

The total cost of the proposed major port at Paradip would be about Rs. 8-6 crores as estimated by the Japanese Mission in 1956

AGRICULTURE

Total area of State in acres (1951): 38,481,229.

Total area cultivated: 14,954,000 acres.

Total area of cultivable land: 24,484,663 acres.

Total area cultivated twice: 962,741 acres.

The latest available position is as follows. The first figure in brackets shows the area in acres, and the second the yield in tons.

Rice (9,403,100; 2,128,085); Jowar (173,000; 3,024); Maize (61,400; 9,648); Ragl (304,300; 63,062); Wheat (11,500; 2,761); Barley (700; 138); Gram (60,900; 7,808); Sugarcane (959,300; 101,003); Tobacco (11,400; 2,710); Sesamum (262,000; 10,984); Groundnut (61,300; 17,160); Mustard (126,000; 20,637); Linseed (26,000; 2,619); Castor (52,700; 4,134).

Cotton (24,900; 2,144 bales); Jute (111,250; 244,750 bales); Millet (69,800; 10,954 bales).

Total production of crops: 2,487,915 tons.

Total area under Food crops: 11,184,000 acres.

Area possibly available for further cultivation through reclamation measures: 6,200,000 acres.

Livestock: Total number of Cattle: 7,884,618; Buffaloes: 893,464; Horses: 6,439; Sheep: 681,865; Goats: 1,446,705; Mules: 608; Donkeys: 768; Camels: 603; Pigs: 108,678; Fowls: 3,877,981; Ducks: 61,447.

No. of veterinary experimental stations: 1 (Provincial Veterinary Laboratory).

No. of veterinary hospitals and dispensaries: 135.

No. of veterinary technical staff: 1,002

Variety of fish produced:

Fresh Water: Catla Catla, Rohu, Cirrhine, Mrigal, Labo Calbasu, Cat fish and other carps. Marine: Pomfret, Mackerel, Sardine and White Bait.

Estuarine: Bhettli, Kabala, Hilba, Boraga, Sahal Khuranti, Khantia, Gihungari, Surga, Patna, Singh and Misc

The provisions of the Orissa Estates Abolition and of the Amendment Acts are being implemented. With the exception of a few zamindaris in the Sundergarh district (Hengiri, Saragarh, and the Kharposh zamindars) the abolition of zamindaris is practically complete. The total area taken over is about 25,000 sq. miles and the area to be taken over about 2,000. The gross income of estates taken over till March 1955 was Rs. 118 lakhs, and the additional revenue about Rs. 77.5 lakhs. When all intermediaries are abolished there will be a further additional revenue of Rs. 20 lakhs.

The surplus in rice during 1959 is expected to be of the order of four lakh tons

The Government of Orissa issued in December 1958 an order to control the food grains trade in the State. The Orissa Food Grains Control Order, 1958, which was to come into force from January 1, 1959, followed the decision of the State Government to introduce State trading in rice and paddy at the wholesale level with effect from the kharif year 1958-59

STATE HELP FOR AGRICULTURE

Manures distributed under State auspices and their quantity: Compost (Urban): 378,290 cft.

Oil-cakes: 295 tons; Fertilisers: 7,460 tons.

Quantity of improved seeds distributed: Paddy: 32,800 mds.; Wheat: 3,569 mds. departmentally and 4,560 mds. through Gram Panchayat; Maize: 20 mds.; Groundnut: 7 tons; Gram: 794 mds; Pulses: 4,025 mds.; Potato: 15 tons.

Agricultural implements distributed or loaned: 28 pumps were loaned to cultivators during 1954-56.

Number of agricultural experiment farms: 43. Under G.M.F. programme no cash loan was issued. Rs. 1,32,339 were spent in making payment of premium, meeting the transit charges, etc., in distributing different kinds of seeds, fertilisers and green manuring seeds and were ultimately treated as subsidy during 1954-55.

Plant protection organisation and its operation: 13 farms. 102,637 acres.

Rise in production of different crops owing to Grow More Food: 16,676 tons.

FORESTS

Forests occupy nearly 40-51 per cent of the total area of the State.

Total forest area of the State: 24,244.94 square miles

The forests occur in all the thirteen districts of the State, but their distribution is rather poor in the coastal districts, e.g., Puri, Cuttack and Balasore.

Private forests under forest Department management: Seven Sq. miles.

Total area of protected forests: 12,023 sq. miles.

Total area of forest under Board of Revenue: 7,000 square miles.

Main types of forests: Tropical semi-evergreen forest; Tropical dry deciduous forest (Sal forests and mixed forest); Tidal forest (in the coastal area of Cuttack and Balasore Districts)

Sal is the most important species in the State. The other important timber species are Bija, Sisoo, Kurum, Semul, Bandhan, Gambhar, Champa and teak. Bamboos occur extensively

in the State and besides meeting the local requirements for various purposes, feed the various paper mills.

Total revenue from the forest for the year 1957-58: Rs. 2,57,98,591

Total expenditure on the State forests during 1956-57: Rs. 52,14,068.

Main forest produce, quantity of each variety and value of each variety in 1956-57: Timber (96,94,000 cft., Rs. 55,35,580); Firewood (1,57,80,500 cft., Rs. 17,74,624); Bamboos (1,43,93,791 nos., Rs. 6,91,701); Kendu leaves (2,14,779 bags; Rs. 28,12,621); Myrobalans (50,451 mds.; Rs. 24,430); Mahua flowers (14,346 mds.; Rs. 11,747); Khair (3,500 mds.; Rs. 13,360); Lac (2,546 mds.; Rs. 32,694); Sabai Grass (1,29,504 mds.; Rs. 1,29,845); Tamarind (2,350 mds.; Rs. 7,657); Vegetable oil and oilseeds, Mahua seeds and Kusum seeds (24,330 mds. Rs. 8,945).

Afforestation: During 1956-57, 267.25 acres were planted with Casuarina in Puri Division at a cost of Rs. 36,999. A sum of Rs. 6,000 was spent on making preliminary operations for Casuarina plantation in Cuttack and Balasore districts in 1957-58. In Balasore District near Chandipura an area of 200 acres was planted with Casuarina. 436 acres were planted with teak at a cost of Rs. 45,681 and 340 acres were planted with Sabai and 83 acres of Khair at a total cost of Rs. 16,807. A sum of Rs. 19,945 was spent for stall-wood plantation over an area of 125 acres in Dhenkanal Division.

LAND RECLAMATION

Reclaimed land: 10,246.14 acres in reclamation centre.

Destumped land: 1,344 acres.

Till the end of September 1958, 6,770.34 acres of the reclaimed lands had been allotted leaving a balance of 3,515.80 acres. Steps are being taken to transfer 2,664.85 acres to the Refugees and Rehabilitation Department for the settlement of refugee families from East Bengal.

60.25 acres in Lamal Camp and 213.37 acres in Lamsara Camp have been made over to the Agriculture Department and Co-operative Department respectively. There is still a balance of 850.95 acres for disposal.

By this time 2,116 families consisting of a total population of 8,508 from 42 villages have been settled in re settlement camps

TRANSPORT

Position in 1957:

Total mileage of roads: 6,017 (so far as it relates to Works Deptt.)

Mileage of metalled roads: 3,523 (so far as it relates to Works Deptt.)

Mileage of unmetalled roads: 2,524 (so far as it relates to Works Deptt.)

Total mileage of railways in the State: 887 (1955).

Total mileage of water-ways: All the canals and some of the rivers are also navigable (767 miles).

Number of aerodromes: 2 (Bhubaneswar and Jharsuguda).

Number of passenger service buses: 1,182.

Number of goods-carrying trucks, lorries: 5,316.

Number of motor cars: 5,248.

State Transport

(as on 31st March 1958)

Transport has been nationalised in the State.

Name of Transport Authority: The State Transport Services, Orissa.

Operates passenger transport service in the districts of Sambalpur, Sundergarh, Bolangir, Kalahandi, Keonjhar, Koraput and a part of Dhenkanal, Balasore and Cuttack Districts.

(capital invested (Progressive): Rs 69,5,000)
 Number of routes covered: 124
 Number of passenger vehicles owned: 260
 Number of goods vehicles owned: 16
 Total number of passengers carried: 57,68,110
 Total volume of goods carried: 3,59,837 mds

Total expenses of authority: Rs 60,29,741.04
 Total revenue: Rs 75,00,000.00 (approx.)
 Profit: Rs 14,00,000.00 (approx.)
 Number of men employed after nationalisation: 1,632 on 31.3.1958
 Total mileage: 54,02,404

Orissa Road Transport Company Ltd.

(As on 31st March 1958)

Operates passenger transport service only in the Districts of Ganjam, Puri and some parts of Puri and Cuttack districts
 Capital invested: Rs 29,99,200
 Total mileage covered: 31,42,344
 Number of routes covered: 60
 Number of passenger vehicles: 146
 Number of suburban bus services: 3 (Cuttack Bhubaneswar)
 Total number of passengers carried: 17,65,221
 Total expenses of authority: Rs 33,45,220
 Total revenue: Rs 40,26,767
 Profit: Rs 6,00,000

CO-OPERATION

Position 1958
 Total number of Co-operative Societies (including Central Banks and State Co-operative Societies): 9,048
 Total membership of Co-operative Societies: 10,54,313
 Share Capital: Rs 24,53 lakhs
 Total agricultural credit advanced: Rs 224 lakhs which covered 23 per cent of the total agricultural population
 Total working capital: Rs 14,48,24 lakhs
 Position 1957
 Types of Co-operative Societies and number of each type: Orissa State Co-operative Marketing Society: 1, Orissa State Co-operative Union: 1, Agricultural Credit Co-operative Societies (including Gram Goshis): 704, Agricultural Non-Credit Co-operative Societies: 340, Non-Agricultural Credit Co-operative Societies: 245, Non-Agricultural Non-Credit Co-operative Societies: 1,019, Provincial Co-operative Fund and Mortgage Bank: 1, State Co-operative Housing Corporation: 1, Multi-purpose Co-operative Societies: 192, Orissa State Co-operative Bank: 1, Orissa State Handloom Weavers Co-operative Society: 1, Insurance Co-operative Societies: 2, Central Co-operative Banks: 17, Central Non-credit Societies: 2, Large-sized Credit Co-operative Societies: 267
 The Orissa State Co-operative Bank is one of the biggest organisations in the co-operative banking channel. Its financial particulars are given below:
 Working capital: Rs 1,61,27 lakhs
 Deposits: Rs 1,09,00,928
 Paid up Share Capital: Rs 27,420 (of which Government contribution: Rs 4,00,000)
 Reserve and other funds: Rs 3,11,928
 Net Profit: Rs 2,15,128
 Usual rate of dividend: 4½ per cent

PUBLIC HEALTH

Commonest diseases in State and mortality from each of these in 1956: Cholera (4,566), Small pox (104), Fevers (including Malaria, etc.) (1,22,257)
 Number of allopathic hospitals (functioning up-to-date): 157 (including T.B. and Leprosy hospitals)

Number of allopathic dispensaries (functioning up-to-date): 226

Total number of beds in allopathic hospitals and dispensaries including T.B. and Leprosy hospitals: 6,611

Number of primary health centres: 38

Number of Ayurvedic and Unani Hospitals and dispensaries: Ayurvedic Hospitals: 2, Ayurvedic Dispensaries: 136, Unani Dispensary: 1

Total number of beds in Ayurvedic hospitals: 68

Number and type of special hospitals: (1) B. Cancer etc., (2) B. Hospitals, (3) Govt. B. Hospital at dit naravangur Dist. Kalihandi with 50 beds and Besant Manjari Swasth Nivas, Chandpur with 100 beds, (4) Leprosy Home and hospitals, colonies and settlements: 22 with provision for 1,611 beds

Total number of allopathic doctors: (a) 7 (all number serving in all classes of allopathic hospitals and dispensaries including Medical College: 602, (b) 1,888 (all pathid doctors registered in the State)

Number of Ayurvedic and Unani practitioners now serving in all classes of Ayurvedic hospitals and dispensaries including Unani dispensaries: 139

Total number of nurses employed: 255 (including male nurses)

Total number of nurses registered so far: 300

Total number of Health Visitors employed: 1

Total number of Health Visitors registered so far: 20

Total number of Midwives employed: 9

Total number of Midwives registered so far: 208

Total number of dais employed: 260

Total number of dais registered so far: 335

Number of out-door patients (treated in allopathic hospitals and dispensaries): 588,000 (1957)

Number of in-door patients treated in hospitals and dispensaries (allopathic): 4,10,24 (1957)

Number of Government Hospitals: Allopathic: 122, Ayurvedic: 2

Number of Medical Colleges: Allopathic: 1 (S.C.B. Medical College Cuttack), Ayurvedic: One Ayurvedic Teaching Institution (Gopabandhu Ayurvedic Vidyapeetha Puri awarding B.A.M.S. diploma)

Total number of students (1957-58): S.C.B. Medical College Cuttack: 115, Gopabandhu Ayurvedic Vidyapeetha Puri: 94

Strength of staff (i.e., Health Officers and Health Inspectors, etc.) on the preventive side of the Department: 320

Budget all India (1958-59): Medical Department: Rs 10,04,48, Public Health Department: Rs 1,00,000

The National Midwifery Training Programme covers an area with population 1,11,08,584

The National Education Control Programme covers an area with population 1,11,08,584

EDUCATION (1957-58)

	Primary Schools	Middle Schools	High Schools
Number of schools	1,000	751	91
Total enrolment	6,87,741	1,45,880	80,250
Number of teachers	25,194	3,600	1,000
Total direct expenditure (Rs.)	1,17,167	34,85,57	51,52,483
Contribution by State Govt. (Rs.)	1,23,866	2,42,458	2,01,305
By local authority (Rs.)	1,71,046	81,070	2,03,222
By private agencies (Rs.)	5,75,000	6,15,042	8,88,209
Fees (Rs.)	7,500	5,40,472	20,81,877
Contribution by Centre (Rs.)	1,23,866	9,026	87,561

Number of Arts and Science Colleges: 16 (15 A 1 for men and women respectively)

Total number of women's colleges: 1

Arts, Science and Commerce (combined): 3

Total enrolment: 69,6 (Boys 6,246, Girls 730)

Total number of professors, lecturers, etc.: 304

Total expenditure for the year in higher (general) education: Rs 2,06,008 (direct expenditure only)

Total number of professional colleges: 8 (Law: 1, Medical: 2, Training: 1, Agriculture: 2, Veterinary: 1, Engineering: 1)

Total enrolment: 208 (excluding enrolment in Medical Training, Engineering and Law Colleges)

Total number of professors, lecturers, etc.: 30 (excluding the above 4 in Colleges)

Total expenditure on professional education: Rs 2,81,000 (Direct expenditure only excluding the above 4 colleges)

Total number of teachers, training institutions: (1) Training College: 1, Non-Resident Training College: 1, Basic Training Schools: 6, Secondary Education Training Schools: 48, High Training: 1

Number of training institutions which confer degree: 2 (the two training colleges only)

Total number of teachers or staff of training institutions: Training Schools: 4, Colleges: 15, High Training: 1

Total number of students at degree institutions: 131 (B.A. 118, Girls: 13)

Total expenditure on teachers' training: Rs 1,00,000 (Direct expenditure) (including Schools: Rs 1,00,000, Training Colleges: Rs 0)

Besides the colleges for general and professional education there are three medical colleges for special education at Puri, Bhubaneswar and Parikshitimela, Medical College at Cuttack and the Social Education Officers' Training Centre at Cuttack under Community Development Department, at which four are managed by Government and two are aided

Total number of students: 21 (oriental colleges only)

Contribution by State Government: Rs 74,000 (for the medical colleges only)

Number of teachers: 6 (for oriental colleges only)

Number of commercial technical institutes: 46 (Engineering: 1, Technical: 1, Agriculture: 1, Industry: 1, Commerce: 1, Arts and Crafts: 40)

Total enrolment: 2,217 (Industry: 408, Commerce: 1, Arts and Crafts: 31, Engineering: 100, Agriculture: 404, Technical: 18)

Total number of institutions: 180 (Commerce: 1, Agriculture: 1, Industries: 100, Engineering: 1, Arts and Crafts: 31, Technical: 31)

Total expenditure: Rs 1,00,000 (Direct expenditure only)

Names of technical institutions and other notable institutions: State Department of Technical Education, New Capital, Bhubaneswar

Number of Universities: 1

Number of elementary schools: 60 owned by State Government, 5,800 by local authority, 200 by private agencies, 108 by Central Government (Excludes 60 joint school schools)

Number of elementary schools (both male and non-male) owned by the State Government: 200, by local authority: 64, by private agencies: 64, by the Central Government: 1

Number of colleges of all categories owned by State Government: 14, by private agencies including University: 10

Number of schools for deaf and dumb: 1

Enrolment: 11

Number of teachers: 3

Establishment institutions devoted to social education: 1 (literary classes and centres for adults only)

Number of teachers available : 1,816.

Number of adult (social) scholars on rolls during the year : 58,051.

Total number of adults made literate since movement was started : 2,14,757.

Total expenditure : Rs. 3,12,125.

Number of schools for oriental studies : 149 including one for girls.

Enrolment in tot only : 3,417.

Number of European and Anglo-Indian schools : 8.

Number of Madrasas : 3. Total enrolment : 312.

Number of nursery schools (Balaramas) : Nil.

Areas where education is free and compulsory : at primary stage only : (a) Banki (1) Urban area (Banki town, Grampanchayat area), (2) Rural area (20 villages under the Union Board of Banki); (b) Parikhimedi Municipality (town only). Besides the above two areas, compulsory primary education has been introduced in the following five areas since 1953-54 : Sundargarh, Angul town, Athumak thana, Baripada town and Athgarh town. 5 new centres are under notification.

Names of the places where compulsion is enforced : Banki Union Board (24 villages), Parikhimedi Municipality area and Banki Town Grampanchayat area.

Age of compulsion : 6 to 11.

Total number of children of the age group 6-14 in the State : 28,41,440 ; Number at school : 7,07,263.

Compulsion laws apply only to the male children of the age-group 6-11. They are 4,870 in number. Compulsion laws do not apply to girls.

Literacy in State : 15.8 per cent (1951 census).

Social Education

Duration of course : 3 to 4 months (Literacy).

The adults are educated in daily night classes. Certificates are awarded at the end of the course.

The scheme began in 1949. Illiterate adults numbering 2,14,757 were made literate upto 31st March 1954 but the total number of adult illiterates within the age group 14-45 is about 50,35,243.

Number of Basic schools both Junior and Senior and Post-Basic in the year 1957-58 : 385.

Number of students : 20,753

Number of teachers : 1,041.

Number of Basic training schools : 6.

Secondary Education

The Board of Secondary Education, Orissa was constituted in January 1956.

The Board conducted the High School Certificate Examination in July 1956 (Supplementary).

With effect from 1956 recognition of high schools is given by the Board.

Full attention is being given to implementation of individual schemes under the Second Five Year Plan in respect of the State of Orissa.

UTKAL UNIVERSITY

Cuttack 1.

Chancellor, Governor of Orissa.

Vice-Chancellor, Padmabhusan Dr. P. K. Parija, B.A., D.Sc., M.A. (Contab.), I.E.S. (Retd.), F.N.I.

Registrar, G. C. Rath, M.A., Dip-In-L.S.

Asst. Registrar, D. P. Baral, M.A., Dip. Md.

Affiliating-cum-Teaching University.

Subjects or Post-graduate teaching and Research : Oriya, Sanskrit, Philosophy, English,

Economics, History, Mathematics, Physics, Chemistry, Botany, Geology, Psychology, Political Science, Statistics and Anthropology.

Number of colleges affiliated to the University : 20.

Number of teaching departments under its control : 2 including a) Department of Rural Economics & Sociology, b) Diploma class in Statistics, c) Diploma class and certificate course in French & German, d) University College of Engineering, e) M. S. Law College.

Total number of students : 8,120 (Men—Full-time 7,158 ; Part-time 82 ; Women—Full-time 880 ; Part-time nil) (1957-58).

Annual income (including Government grants, donations and endowments) : Rs. 15,05,000.

Annual expenditure : Rs. 12,16,350.

Grant from State Government : Rs. 4,58,540.

Central Government grant : Rs. 2,52,527.

AFFILIATED COLLEGES

Bhadrak College, Bhadrak (Balasore).

B. J. B. College, Bhubaneswar, Puri.

Christ College, Cuttack.

Fakir Mohan College, Balasore.

Gangadhar Mehar College, Sambalpur.

Government Training College, Angul (Dhenkanal).

Intermediate College for Women, Berhampur (Ganjam).

Intermediate Science College, Angul (Dhenkanal).

Intermediate Science College, Keonjhar, Keonjhar Garh.

Intermediate Science College, Sundergarh.

Khalikote College, Berhampur (Ganjam).

Maharaja Purna Chandra College, Baripada (Mayurbhanj).

Narsing Chaudhury College, Jajpur (Cuttack).

Orissa College of Veterinary Science and Animal Husbandry, Cuttack.

Radhanath Training College, Cuttack.

Rajendra College, Bolangir.

Ravenshaw College, Cuttack.

Shallabala Women's College, Cuttack.

Saimanta Chandra Sekhar College, Puri.

Sri K.C.G. College, Parikhimedi (Ganjam).

S.C.B. Medical College, Cuttack.

Stewart Science College, Cuttack.

Utkal Krushi Mahavidyalaya, New Capital, Bhubaneswar (Puri).

Vikram Dev College, Jeypore (Koraput).

UNIVERSITY TEACHING DEPARTMENTS

University College of Engineering, Burla, P.O. Hiraikud Colony, Dist. Sambalpur.

Madhusudan Law College of the Utkal University, Cuttack 3.

Modern European Languages Teaching Department of the Utkal University, Cuttack 3.

Post-Graduate Department in Geology.

Post-Graduate Department in Philosophy.

Post-Graduate Department in Sanskrit.

Post-Graduate Department in Physics.

Post-Graduate Department in Political Science.

Post-Graduate Department in Anthropology.

Post-Graduate Department in Psychology.

Post-Graduate Department in Statistics.

Department of Rural Economics and Sociology.

Diploma Course in Statistics.

LABOUR, HOUSING

Position in 1958 :

Names of industries in which minimum wage is fixed : Rice Mill, Flour Mill and Dal Mill, Tobacco (including bidi and gudakhu making) manufactory, road construction, building operations and stone breaking or stone crushing, Public Motor Transport, employment in agricultural operations and employment under Local Authority (excepting Gram Panchayats, Anchal Sasan and Notified Area Committee for a period of five years with effect from 30th December 1954).

Number of registered factories : 562.

Average daily number of workers in registered factories : 25,535.

Average monthly earnings of industrial workers Rs. 66.54.

Total number of Trade disputes : 56.

Total number of strikes : 12 (1957).

Total number of workers affected : 20,509.

Number of Trade Unions in the State : 136.

Total membership of trade unions : 83,407.

Number of Labour Welfare Centres : 15 (14 managed by private bodies and one managed by Govt.)

Strength of Labour Welfare staff : 43.

Number of houses built through Subsidised Industrial Housing Scheme : By private enterprises : 1,136. By Government : 363.

Amount of loan sanctioned under Low Income Group Housing Scheme (1957-58) : Rs. 9,10,000.

Number of houses constructed under the scheme during 1957-58 : 229.

Provision during 1958-59 under the scheme : Rs. 8,65,000.

Provision under Village Housing Project Scheme during 1958-59 : Rs. 4,00,000.

Number of Employment Exchanges established : 9 (Cuttack, Sambalpur, Rourkela, Joda, Rairangpur, Rayagada, Balasore, Bhawanipatna and Berhampur).

Number of candidates whose names were registered in the Employment Exchanges during 1958 (upto end of Oct. 1958) : 38,471.

Number of candidates submitted to the employers by the Employment Exchanges during 1958 (upto end of Oct. 1958) : 41,217.

Number of candidates placed in services through Employment Exchanges during 1958 (upto end of Oct. 1958) : 4,743.

POWER PROJECTS

Position in 1956.

Total capacity of Power Stations installed in the State : 29,031 kW.

Total Effective Capacity : 22,625 kW.

Total Production during the year 1955-56 in kW. Hrs. (Units) : 14.3 millions.

Total Units sold : 15.2 millions.

Chief Hydro-Electric Schemes under execution in the State :

Machkund Hydro-Electric Scheme (Koraput) and Hirakud Hydro-Electric Scheme (Sambalpur).

The following are the more important thermal power houses. The first figure within the brackets shows the installed firm capacity in kW, the second the units generated in kW hrs. and the third the units sold : Choudwar (5,000 kW ; 1,40,70,000 kW hrs. ; 1,12,85,322 Kwgs.) ; Rajgangpur (C.W.P.C.) (6,500 kW ; 1,57,346 kW hrs. ; 1,50,072 Kwgs.).

The following are the more important diesel stations showing within brackets firstly the installed firm capacity and secondly the number of units generated. Rajgangpur (816 kW) ; Hirakud (C.W.P.C.) (2,665 kW ; 4,92,337 kW hrs.) ; Burla (1,620 kW).

The following is a list of the Government Undertakings : Thermal Power houses : Choudwar, Chatrapur, Rajgangpur (C.W.P.C.) ; Diesel Stations : Rajgangpur, Sundergarh, Bolangir, Bhawanipatna, Sonpur, Deogarh, Jeypore, Machkund, Aska, Bolani, Phulbani, Suroda, Bhubaneswar, Nayagarh, Talcher, Bhanjanagar, Baripada, Keonjhar, Dhenkanal, Kharlar Rd., Hirakud (C.W.P.C.) and Burla (C.W.P.C.).

Total installed firm capacity of Licensee Undertakings : 9,088 kW ; total number of units generated : 21,04,307 kW hrs. ; number of units sold : 25,94,946 Kwgs.

The more important licensee undertakings showing within brackets the installed capacity, number of units generated and the number of units sold respectively : Berhampur Electric Supply Co. (1,249 kW ; 12,50,902 kW hrs. ; 14,83,800 Kwgs.) ; Brajarajnagar Orient Paper Mills (6,250 kW).

The following are the licensee undertakings: Cuttack Electric Supply Co., Puri Electric Supply Co., Balasore Electric Supply Co., Berhampur Electric Supply Co., Sambalpur Electric Supply Co., Jharsuguda Electric Supply Co., Bargarh Electric Supply Co., Pariklmed Electric Supply Co., Rajarajnagar Orient Paper Mills and Rayagada J. S. Co.

Machkund Scheme

This is a joint scheme of Orissa and Andhra Governments and is located in Koraput District for harnessing Hydro-Electric Power from the Machkund river. Orissa's share is 30 per cent. Work on this scheme was started in 1946.

Ultimate installed capacity 1,15,500 kW

Total cost: Rs. 1,536.93 lakhs

Orissa's share: Rs. 461.08 lakhs

Expenditure upto end of First Five Year Plan: Rs. 306.96 lakhs

Provision in the Second Five Year Plan: Rs. 161.30 lakhs.

Present stage of the Scheme: Three sets have already started generation, first one from August 1955, second from December 1955 and third from June 1956. The power house transformer yard and all allied works have been completed. Work on the Jalapur Dam is in progress. Up to date installed capacity 51,750 kW. Three more sets of 21,250 kW will be installed by 1959-60.

Hirakud Scheme

This project was started in 1948 and is located at Hirakud near Sambalpur. The dam has been constructed here to utilise the waters of the Mahanadi River for irrigation, production of power and also to control the floods in the river to some extent.

It is the first of three dams proposed to control and harness the mighty river Mahanadi for the development of the entire region.

Water from the dam now completed flowed into the Bargarh Canal, the central arterial canal, in July 1956 and water was available for irrigation in September 1956.

The project will irrigate 3,80,000 acres of land in Sambalpur and Bolangir districts. At the end of November 1958, an area of 2,41,983 acres got irrigation facilities.

The main power house has four generating units and the first unit was made available from December 1956.

Upto December 31, 1958 Rs. 59.99 crores had been spent on the project. The revised estimates for Stage I are Rs. 70.78 crores.

Electric portion of the Hirakud Scheme

Installed capacity: 1,24,000 kW (first stage)

Installed capacity: 2,32,000 kW (including 2nd stage)

Present stage: Generation of power started in December, 1956. All the four generating sets have been installed and all the units are working satisfactorily. Stage I is complete. Work on the IIrd Stage is in full swing and it is expected to yield power from 1961.

Against a sanctioned estimate of Rs. 11.42 crores for the IIrd Stage, an expenditure of Rs. 5.30 crores was incurred up to December 1958.

For more particulars see under the main article on Irrigation.

Choudwar Thermal Station

Pending extension of power from Hirakud to Cuttack area, a steam station at Choudwar near Cuttack with 2 x 1500 kW and 1 x 2000 kW was installed at Choudwar. This station has been kept as a stand by plant for the Hirakud scheme as the hydro-electric power has been made available.

A 750 kW steam station which was installed at Jobra has been transferred to Chatrapur for

supplying power to the Ganjam area. This was commissioned during early part of the year 1956-57.

Transmission Schemes

Duduma Transmission Scheme: Total cost Rs. 157.69 lakhs upto Ravagada (1st stage), Rs. 142.00 lakhs upto Berhampur (2nd stage).

Expenditure upto end of First Five Year Plan: Rs. 112.46 lakhs.

Provision in the Second Five Year Plan: Rs. 154 lakhs. The scheme envisages extension of power transmission to Berhampur, Ravagada, Jeypore, Koraput, Nawrangpur and Borigumma. From Berhampur the transmission line will be extended to supply power to Aska, Bhanjanagar, Rambha and Chatrapur areas in the Ganjam District and Banpur, Balugaon, Kahu, paraghat etc. in the Chilka region of Puri District.

Hirakud Power Utilisation Scheme

Total cost: Rs. 170.61 lakhs

Expenditure upto First Five Year Plan period: Rs. 77.52 lakhs

Provision made in the Second Plan: Rs. 100 lakhs

The scheme covers sub-transmission and distribution of power generated at Hirakud with a view to developing loads which would ultimately consume the power.

On this basis, 33 and 11 K.V. lines are being constructed at Hirakud round about Rajgangpur and Rairangpur region in the north for connecting the important places and mining areas in the Sambalpur, Sundergarh, Keonjhar and Mayurbhanj districts. Lines have been constructed from Choudwar upto Puri and to Khurda, Jatni via Bhubaneswar, to Bhenkanal area, Khuntli, line to Jagatsinghpur, Kendrapara had been completed and line to Jalpur was nearing completion.

The Choudwar House now caters to the demands of all these regions which will eventually be tagged on to the Hirakud system.

Thermal Schemes

Cuttack Thermal Scheme

Plant Capacity: 5,000 kW

Total cost: Rs. 59.25 lakhs

Expenditure upto end of First Five Year Plan: Rs. 62.40 lakhs

This supplies power to Cuttack, Puri and Bhenkanal districts through the transmission lines constructed under the Hirakud Power Utilisation Scheme and the Rural Scheme. The work is almost completed.

Small Towns and Rural Schemes

Total cost: Rs. 89.02 lakhs

Expenditure upto First Five Year Plan: Rs. 49.20 lakhs

Provision in the Second Plan: Rs. 150.00 lakhs

Investigation of New Hydro-Electric Projects: In the Second Five Year Plan a provision of Rs. 12 lakhs has been made.

IRRIGATION

Gross area irrigated: 2,224,000 acres

Water from Hirakud dam began to be available for irrigation in Sept. 1956, and will irrigate an area of 6,72 lakh acres in Sambalpur and Bolangir Patna.

Minor Irrigation Schemes

Total area irrigated and/or benefited by minor irrigation projects: 595,370 acres

The following are some of the more important minor irrigation projects with their location, area irrigated in acres and cost in lakhs of rupees respectively within brackets: Suk Pika (Cuttack District, 6,068, 11.30), Uchhal Naghar (Puri District, 4,000, 4.08), Derasa (Puri District,

5,500, 13.00), Dasmausa (Balasore District, 8,880, 1.76). Projects connected with Subamarekha problem, Balasore District, (10,000, 6.00); Bauli (Bhenkanal District, 7,000, 1.35); Extension of No. 2 Distributary Rushikulya Canal (Ganjam District, 8,000, 4.00).

Major Irrigation Schemes: Name with location, area in acres and cost in lakhs respectively within brackets: Hirakud Dam (Sambalpur & Bolangir Patna Districts, 3,80,000, 7,074.00), Delta Irrigation Project (Cuttack and Puri Districts, 10,77,000, 1,492.00).

Sakhi Project is a Second Project which will irrigate 45,000 acres and is expected to be completed in 1960-61.

COMMUNITY DEVELOPMENT

The provision in regard to the opening of the blocks as per progress report of Community Development Programme for the quarter ending 31st December 1957:

Progressive total of the blocks in the whole State: 407, Area covered: 60,140 sq. miles, No. of gram panchayats covered: 2,500, No. of villages covered: 48,398, Population covered: 1,46,45,946.

The total financial provision for the programme period is Rs. 1,01,04 lakhs out of which the expenditure incurred so far is Rs. 104.55 lakhs.

The value of people's participation upto the end of 31st December 1957: Rs. 42.11 lakhs.

Besides the villages have executed many works outside the normal programme of the blocks. The value of such contributions obtained upto end of December 1957 is estimated at Rs. 40.61 lakhs.

The total contribution thus obtained was Rs. 124.12 lakhs or 31.2 per cent of the Government expenditure.

BUDGET 1959-60

(See Late Particulars)

ORISSA STATE FINANCIAL CORPORATION Killa Maidan, Cuttack 1.

The Orissa State Financial Corporation was established by the Orissa State Government under the State Financial Corporations Act, 1951 and commenced functioning from 14th March 1957 with the object of providing medium and long term credit to small scale and medium sized industrial concerns in the State of Orissa primarily for the purpose of purchase, renovation or expansion of plant and machinery and other fixed assets. Its Head Office is located in the building of the Office of the Director of Industries, Orissa, Killa Maidan, Cuttack 1 and no branches have been opened.

The Authorized Capital of the Corporation is Rs. 2 crores divided into 2 lakhs fully paid shares of Rs. 100 each. The shares of the Corporation are guaranteed by the Government of Orissa as to the repayment of principal and payment of annual dividends at the rate of 3 1/2 per cent per annum. The shares are also guaranteed by the State Government. The shares are classed as Trustee Securities under the Indian Trusts Act, 1882 and approved Securities for the purpose of the Insurance Act, 1938 and the Banking Companies Act, 1949.

Particulars as on 31st March 1959

Number of applications received: 31

Number of applications sanctioned: 14

Amount of loans sanctioned: Rs. 20,05,000

Amount actually disbursed: Rs. 6 lakhs

Amount recovered: Rs. 10,000

Rate of Interest: 6 1/2 per cent per annum with a rebate of 1/2 per cent for prompt payment of instalments and interest.

Total Income: Rs. 2,35,000

Total expenses: Rs. 19,000

Chairman: M. Ramakrishnaiah, I.A.S., Secretary to Government of Orissa, Finance Department, Managing Director: K. N. Mahan, A.C.A.

ADMINISTRATIVE PERSONNEL

(See under 'State Administrative Personnel')

ORISSA LEGISLATIVE ASSEMBLY

(See under 'General Elections')

ASSOCIATIONS

THE BIRHAMPUR CHAMBER OF COMMERCE, BIRHAMPUR The Birhampur Chamber of Commerce was formed soon after the formation of Orissa State. It maintains a library and an information service, arranges commercial arbitrations and makes commercial opinion available to Government. It has about 163 members on its roll and publishes a monthly review.

President —P. Narayana Rao, B.A., B.L.,
Vice-President —Agent, Messrs. Haji Jamal Nur Mohamad & Co. *Secretary* —I Ramamoorti,
Joint Secretary —V. Kadari Natham Raju
Address —Birhampur, Ganjam Dist.

CHRISTIAN SERVICE SOCIETY

Balsore

Executive Officer —Rev. R. K. Sahu, Mission
Secretary —Rev. C. C. Routnamel, *Treasurer* —John G. Wilson.

CUTTACK CHAMBER OF COMMERCE

Railway Dockyard, Cuttack 3

President —N. C. Agarwalla
Vice-President —D. C. Sahu
Chairman, Arbitration Board, B. Mahanti
Secretary —C. Mahanti

INDIAN MEDICAL ASSOCIATION

(Orissa State Branch)

S. C. B. Medical College, Cuttack

President —Dr. D. R. N. Sahu, *Vice-President* —Dr. R. Mahanti, *Secretary* —Dr. G. B. Mohanty

INDIAN POLITICAL SCIENCE CONFERENCE

Ravenshaw College, Cuttack 3

President —Dr. A. K. Ghoshal, Calcutta *Gen. Secretary and Treasurer* —Prof. S. C. Dash, Ravenshaw College, Cuttack 3 *Managing Editor of the Journal* —Prof. A. J. Joomba, Model House, Lucknow

KATA MANDIR

Bakharabad, Cuttack 2

President —Muraddhar Mohanty, *Vice-President* —Baldyanath Rath, *General Secretary* —Bhupen Ghosh

KATA VIKASH KENDRA

Bankatovar, Cuttack 2

College of Indian Dance and Music

General Secretary —Babulal Doshi, *H. Secretary* —Nimichand Bose, *Artistic Nanda*, Harihar Misra

MAHAVIR NAIYA SANGH

P.O. Barabagarh (Dt. Cuttack)

Chairman —Pratap Chandra Pattnaik, *Secretary* —Satyabadi Pattnaik, *Organiser* —Suderson Das Sarma

MAYURBHANJ CHHOW DANCE ORGANISATION

Baripada

Advisor —R. C. Dash, I.T.S. Co. of Police Orissa, *President* —A. C. Mahanti, I.A.S. Dist. Magistrate, *Secretary* —S. C. Das, M.C.B.

NATIONAL MUSIC ASSOCIATION

Buxi Bazar, Cuttack 1

President —Tingray Pandey, *Vice-President* —Dr. Sudoddy Misra, M.A., The Principal, Ravenshaw College, Cuttack, *General Secretary* —Dr. Bibhuti Bhushan Tripathy, M.D. (Pharm), M.C. (Med), Lecturer in Medicine, S. C. B. Medical College, Cuttack

ORISSA CHAMBER OF COMMERCE AND INDUSTRY

Barbati Stadium, Cuttack 1

President —G. I. Pattnaik
Vice-Presidents —S. N. Pattnaik, B. P. Modi
Hon. General Secy —S. M. Agarwal
Secretary —S. Mahanti

ORISSA SAHITYA AKADEMI

P.O. Box 56, Bhubaneswar

(Dt. Puri)

President —Padmasri Dr. T. N. Sahu, M.A.,
Vice Secretary —G. K. Brahma, M.A., P.E.I.
Treasurer —B. C. Das, M.A. (P.E.I.) B.A. (Hons.) (Iond)

ORISSA SANGITA PARISADA

Grand Road, Near Town Police Station, Puri

President —Gangadhar Mohapatra, *General Secretary* —Bambhara Pati

SANSKRITI VISHVA PARISHAD

Madanapada, Puri

President —Dr. S. N. Acharya, *Vice-President* —Padmalochan Upadhyay, *Secretary* —Pandit Chintamani Misra

UKAL NAIYA SANGHA RESEARCH AKADEMI OF ORISSA DANCE AND MUSIC

Cuttack 1

Founder President —Kalyanendra Kuli Chauri
Pattnaik —Nityacharya, *General Secretary* —Basant Kumar Mahanti

UKAL SAHITYA SAMAI

Surachandrabhadra, Cuttack 1

President —Dr. P. K. Patra (Vice-Chancellor, Utkal University), *Vice-President* —Dr. K. J. Tripathy (Dr. C. Ravenshaw College), *Secretary* —B. N. Kuri (Joint Editor, Daily Matha Dham)

UKAL SANGITI SAMAI

Near Basti Chari Math, Cuttack 1

President —Gopal Chandra Das, I.A.S., *General Secretary* —Nitya Chari Mahanti, *Secretary* —Ajay Kumar Bhattacharya, Ghosh

THE PUNJAB

Capital: Chandigarh.

Area: 47,456 square miles

Total Population (1951 Census). 16,134,600
(Males 8,081,778, Females 7,453,112, Urban 1,066,402, Rural 13,068,488)

Religion-wise population of the State
Hindus 9,840,779, Sikhs 5,553,918, Muslims 24,993, Jains 45,096, Christians 98,888, Buddhists 1,660, Zoroastrians 17, others 650.
Literacy (1951) 15.3 per cent, Males 24.3 per cent, Females 8.8 per cent

Main Occupation: Agriculture (66.5 per cent).

Languages spoken: Punjabi, Western Hindi, Pahari

The number of seats allotted to the Punjab — in Lok Sabha 22, Rajya Sabha 11, in the State Vidhan Sabha 154, in the Punjab Legislative Council 51

Administrative Divisions: 3, Districts: 18, Tahsils 73, Towns 191, Villages 21,516
Divisions: Ambala, Jullundur, Patiala

Names of districts (with headquarters in brackets): Hissar (Hissar), Rohtak (Rohtak), Gurgaon (Gurgaon), Karnal (Karnal), Ambala (Ambala), Hoshiarpur (Hoshiarpur), Amritsar (Amritsar), Jullundur (Jullundur), Ludhiana (Ludhiana), Ferozepore (Ferozepore), Gurdaspur (Gurdaspur), Kangra (Kangra), Simla (Simla), Patiala (Patiala), Bhutinda (Bhutinda), Sangrur (Sangrur), Kapurthala (Kapurthala), Mahendragarh (Narnaul)

POPULATION

The population District wise is as follows:

Hissar 1,016,617, Rohtak 1,122,046, Gurgaon 967,661, Karnal 1,079,379, Ambala 943,734, Simla 46,160, Kangra 946,042, Hoshiarpur 1,091,980, Jullundur 1,013,600, Ludhiana 808,101, Ferozepore 1,426,420, Amritsar 1,367,040, Gurdaspur 851,294, Bhutinda 666,899, Kapurthala 293,071, Mahendragarh 447,974, Patiala 989,069, Sangrur 1,177,662

The highest number of displaced persons is in Ferozepore (370,934) and the lowest in Kangra (19,770)

Names of Districts giving names of talukas they are in square miles and population respectively within brackets:

Simla District (S. 46,160)
Kangra District (Kangra 422, 1,06,417, Dera Gopipur 411, 142,008, Nurpur 319, 97,480, Hamirpur 590, 211,119, Palampur 724, 1,74,451, Kulu 622, 145,688)
Hissar District (Hissar 1,019, 2,32,568, Hansi 803, 2,97,792, Bhutani 967, 2,01,039, Pathankot 411, 145,654, Sirsa 1,639, 2,21,282)
Rohtak District (Rohtak 517, 312,058, Bujpur 814, 3,24,431, Gohana 403, 2,31,749, Nripat 447, 2,33,808)
Gurgaon District (Gurgaon 411, 1,69,506, Ferozpur Jirka 312, 1,11,496, Noh 401, 1,37,626, Palsal 382, 1,64,001, Rowari 511, 2,55,573, Ballabgarh 287, 1,24,703)
Karnal District (Karnal 861, 3,25,915, Pimpri 461, 2,26,648, Bahthal 1,221, 3,41,290, Jhanesar 554, 1,85,510)
Ambala District (Ambala 388, 2,97,847, Kharar 355, 1,73,407, Jagadhri 489, 2,10,372, Naraingarh 442, 1,22,906, Rupar 286, 1,39,202)
Hoshiarpur District (Hoshiarpur 572, 2,74,126, Dasuya 500, 1,44,548, Garhshankar 509, 2,73,500, Una 684, 2,96,258)
Jullundur District (Jullundur 389, 4,59,069, Nawanshahr 380, 2,24,401, Phillaur 280, 2,09,795, Nakodar 364, 1,62,335)

Ludhiana District (Ludhiana 566, 4,22,714, Jagraon 420, 2,08,646, Samrala 344, 1,76,725)

Ferozepur District (Ferozepur 680, 2,33,342, Zira 494, 1,51,184, Moga 646, 1,05,502, Mukthsar 926, 2,49,434, Fazilka 1,39,305,058)

Amritsar District (Amritsar 545, 6,76,408, Tarn Taran 474, 2,69,617, Ajnala 418, 1,56,197, Patti 525, 2,42,405)

Gurdaspur District (Gurdaspur 497, 314,151, Batala 477, 3,40,018, Pathankot 366, 1,97,143)

Patiala District (Patiala 700, 2,76,294, Rajpura 381, 1,55,388, Nabha 240, 92,587)

Bhutinda District (Bhutinda 846, 2,44,247, Karak 1,062, 1,80,621, Mausi 864, 4,41,911)

Kapurthala District (Kapurthala 525, 2,08,475, Phagwara 118, 86,066)

Sangrur District (Sangrur 346, 1,27,211, Sarim 343, 1,76,094, Narwana 36, 1,61,981, Jind 471, 1,61,644)

Mohendragarh District (Narnaul 388, 1,57,469, Mohendragarh 401, 1,24,888, Dadri 571, 1,60,718)

There are 12 District Boards, 13 Municipal Committees, two Notified Area Committees and a Panchayat in every village with a population of over 500

REGIONS

In the Zonal Division the Punjab falls within the northern Zone, comprising the States of Punjab, Rajasthan and Jammu and Kashmir and the Union territories of Delhi and Himachal Pradesh

For the more convenient transaction of business with regard to some specified matters, the State is divided into two regions, the Punjabi speaking and the Hindi speaking regions

The Hindi region consists of the districts of Kangra, Simla, Karnal, Rohtak, Gurgaon, Hissar, Mohendragarh, the Kandaghat and Nalagarh tehsils of Patiala, Ambala district excluding the Rupar and Chandigarh Assembly constituencies, Jind and Narwana tehsils of Sangrur district

The Punjabi region consists of the districts of Gurdaspur, Amritsar, Bhutinda, Jullundur, Hoshiarpur, Ferozepur, Ludhiana, Kapurthala, the Rupar and Chandigarh Assembly constituencies in Ambala district, Patiala district excluding Kandaghat and Nalagarh tehsils and Sangrur district excluding the Jind and Narwana tehsils

The Chandigarh capital project will not form part of either of the two regions. So long however as it does not become a full fledged constituency on a population basis its representative will sit in the Regional Committee for the Punjabi region

For each region there is a regional committee of the State Assembly consisting of the members of the State Assembly belonging to that region including the Ministers from the region but not including the Chief Minister

The Regional Committees have been empowered to make proposals with regard to questions of general policy not involving any financial commitments other than expenditure of a routine and incidental character

The advice tendered by the regional committees will normally be accepted by the Government and the State Legislature. In case of difference of opinion, reference will be made to the Governor whose decision will be final and binding

The regional committees will deal with the following matters: (i) Development and economic planning, within the framework of the general development plans and policies formulated by

the State Legislature, (ii) Local Self Government, that is to say, the constitutional powers of municipal corporations, improvement trusts, district boards and other local authorities for the purpose of local self government or village administration including "Panchayats", (iii) Public health and sanitation, local hospitals and dispensaries, (iv) Primary and secondary education, (v) Agriculture, (vi) Cottage and small scale industries, (vii) Preservation, protection and improvement of stock and prevention of animal diseases, veterinary training and practice, (viii) Pounds and prevention of cattle trespass, (ix) Protection of wild animals and birds, (x) Fisheries, (xi) Inns and Inn keepers, (xii) Markets and fairs, (xiii) Co-operative Societies and (xiv) Charities and charitable institutions, charitable and religious endowments and religious institutions

Language Policy. The Sachar formula will continue to operate in the area comprised in the former Punjab State and in the area comprised in the former P. P. S. State the existing arrangements will continue until they are replaced or altered by agreement later

The official language of each region will at the district level and below, be the respective regional language

The State is bilingual recognising both Punjabi (in Gurmukhi script) and Hindi (in Devnagri script) as the official languages of the State

Hindi or Punjabi (as the case may be) will be the medium of instruction in all schools in its region upto the matriculation standard and the other language shall be taught as a compulsory language from the first class of the primary department upto the matriculation stage and in the case of girls in the girls' schools in the middle classes only

On the administrative side the State Government envisages a gradual switch over from English and Urdu as official and court languages to Hindi and Punjabi

INDUSTRIES

The total number of registered factories in 1951 was 141

No. of workers engaged in these factories is 580

Some of the main industries in Punjab are: textile, leather, sports, cycle and cycle parts, sewing machines, cement sugar, food factories, paper, ferrous metals, iron and turpentine, scientific instruments, paper and wood, lighting and weaving units

Production of important industries in the State during 1951-52: Paper 1,000 tons, Sugar 2,000 tons, Cycle 110,000, Cycles from September 8, 200 per month, Cycle parts worth Rs. 100 crores, Iron and Steel perling 5,000, Sports goods worth Rs. 10 lakhs, Heavy goods worth Rs. 100 crores, Textiles 80 million yards, Sewing machine parts worth Rs. 60 lakhs, Iron ware worth Rs. 24 lakhs, Scientific instruments worth Rs. 10 lakhs, Resin and turpentine 1 lakh maunds

Textiles: There are six cotton textile mills, two at Amritsar, two at Phawara and one each at Hissar and Phagwara, six medium sized units and over 2,000 small scale and cottage establishments engaged in the production of cotton, woolen and artificial cloth. The composite mills at Bhawan have an installed capacity of 41,000 spindles and 660 handlooms and produce 40 million yards of cloth annually while the Hissar Mill is equipped with 2,000 spindles with a capacity of producing about 16,000 yards of various types of cloth per day

The small sized units and small scale cottage establishments produce art silk or wooden cloth valued at Rs. 45 crores per annum

Hosiery: There are over 1,000 units mainly located at Ludhiana mostly functioning on cottage and small scale basis and account for 80 per cent of the total production of woollen hosiery goods in India. Capital investment on this industry Rs 35 crores. No. of workers employed when it works to full capacity 25,000.

Sports: Jullundur and Batala are famous for their sports goods. There are 150 concerns employing over 4,000 workers. The annual production comes to Rs 80 lakhs. To make mulberry timber available in large quantities the Government has undertaken planting of mulberry trees in Mawwara (Ludhiana District) plantation over an area of 2,000 acres during the Second Plan.

Sewing Machines: Located at Baddi Pathankot Ludhiana and Malerkotla. Comprises about 300 units producing parts and 40 units assembling complete machines. Capital investment Rs 50 lakhs. No. of workers 8,000. Annual production of machine parts Rs 80 to 90 lakhs. No. of complete machines manufactured per year about 16,000.

Cement: Two cement factories one at Surajpur near Chandigarh and the other at Dalhousie. Total investments in these factories Rs 1.9 crores. More than 1.54 lakh tons of cement being turned out annually by the factories. No. of workers employed 1,000.

Sugar: Four major sugar mills one each at Abdullapur Phagwara Hamir and Dhuri. The factory at Abdullapur produces 16,000 tons of sugar. Crushing capacity of factories at Hamir and Dhuri 1,000 tons and 1,400 tons of sugarcane respectively. Sugar mills are being erected on cooperative basis at Merinda Bhogpur R. Bhatkand Nawashahr.

Cycle and Cycle Parts: Punjab turns out 1 lakh cycles every year assembled or manufactured. There are 15 full scale cycle manufacturing factories in the State with a total investment of Rs 60 lakhs and providing employment 1,000 workers. Besides there are about 300 smaller units engaged in partial production or assembling of cycles.

The Allah cycle factory at Sonapat which is one of the largest in the country produces 8,500 cycles per month as against 1,500 cycles in 1954.

By the end of the Second Plan the domestic production of cycles is expected to increase by 50 per cent. A private firm in the Second Plan has three units planned to establish at Malerkotla a 25 unit small scale cycle factory colony at a cost of Rs 1.5 crores for the manufacture of cycle parts on the basis of collectivist purchase scheme spinning and marketing of the products.

Wool Spinning and Weaving Units: Punjab has 8 wool spinning and weaving units. The New Light Woolen Mills at Dhuriwal produces 11 lakh lb of woollen yarn and cloth annually. The remaining seven units are located at Amritsar (4 units) and Ludhiana (3 units) with a capacity of about 1,600 and 1,200 spindles respectively.

Foundries: There are over 800 foundries in the State which produce chaff cutters and other agricultural implements of a simple type, besides machine tools and certain other miscellaneous items of machinery such as iron rollers.

Lengths of cycle parts etc. Mainly located at Baddi and Jullundur this industry provides employment for over 8,000 workers. The value of agricultural implements produced in the State amounts to over Rs 4 crores per annum while the production of machine tools at present comes to about Rs 1.5 crores lakhs annually.

Non-Ferrous Metals: Located at Amritsar, Baddi, Ludhiana, Kapurthala, Phagwara and R. W. The total production of brassware and other non-ferrous products is estimated at Rs 1.5 crores while the number of workers employed is over 4,000. Ludhiana the premier centre of this industry has got 58 concerns employing 2,100 workers. The chief markets for the products of this industry are U.P., Rajasthan, Gujarat, Saurashtra and Bombay.

Starch Factories: The State has four starch factories located at Phagwara, Faridkot, Kapurthala and Yamuna Nagar. The total production is estimated at Rs 64 lakh tons per annum. The factory at Yamuna Nagar alone has a capacity of 30 tons per day and employs 332 workers. The main markets are Bombay, Kanpur and Ahmedabad, while the basic raw material (maize) is imported from Rajasthan, U.P. and Madhya Pradesh.

Resin and Turpentine: There are 22 small scale resin and turpentine factories in Hoshiarpur with an output of 6,000 tons of resin and three lakh gallons of varnish per year. Excluding the working capital the aggregate investment on this industry is estimated at Rs 30 lakhs.

Other Industries: One hydrogenated oil factory at Abdullapur one paper mill at Jamuna Nagar with a production of 1,500 tons of paper one foot wear factory at Faridkot a biscuit factory at Kapurthala a scientific instruments factory at Ambala and glass work factories at Ambala Amritsar and Faridkot. Other small scale and medium sized industries in the State include wooden planks and books, conduit pipes, chain quilting, canning and preservation of food, starch and chemicals, distilling, rectifying and blending of spirits, electrical goods, manufacture of etc.

Cottage Industries: Manufacture of blankets, khos, rings, utensils, silk spinning and weaving, potteries, shoe making, etc. are amongst the principal cottage industries in the State. There are about 23,500 looms in the Punjab out of which 5.95% are frame fly shutters, 1.61% frame through shuttle and 17,226 pitlooms.

The number of workers engaged in the handloom industries is about 39,200 including 1,476 employed in ancillary jobs mostly belonging to weavers families.

The annual output of cotton, art silk and woollen handloom goods in the State aggregates to 27 million yards. As many as 2,500 power looms were planned to be established in the Punjab on cooperative basis during 1956-58, of these 500 power looms had been allotted for 1956-57. To promote sale of handloom goods the Industries Department has set up 19 sale depots at various places in the State. Besides cottage industries emporia are also being run at Chandigarh and Delhi.

The Government of India have so far given assistance to the handloom industries in the State by way of loans and grants to the extent of about Rs 2.5 lakhs. It is expected that 400 new handloom weaving societies will be organised during the Second Plan period.

The State Government maintains a marketing organization at Amritsar with branches at Hoshiarpur, Panipat and Kulu, which provides employment opportunities to the weavers.

New Enterprises: In the Second Five Year Plan a sum of Rs 1.6 crores is earmarked for large scale industries and Rs 4.36 crores for handloom, khadi and village industries. A new textile finishing mill with modern equipment and machinery at Amritsar, two roller flour mills at Chandigarh a bone and glue factory, a cycle factory and scrap melting factory at Kapurthala and a factory to produce electric fans and electric motors at Patiala have come into existence while arrangements for setting up a wire products factory, a textile parts manufacturing factory and a piston and ring factory at Patiala have also been completed.

Among other important developments in the large scale sectors during the Second Plan are the establishment of new sugar mills, one textile mill, a shoddy spinning plant, a slasher, sizing plant, textile dyeing, bleaching and finishing factory, calcium carbide factory, two cutlery, surgical and veterinary instruments factories. These industries will be developed in collaboration with private enterprises and the sum of Rs 1.6 crores in the Second Plan shown for this purpose represents only the extent of Government share in the above private cum public ventures.

It is also planned to establish 25 medium and large scale industrial units at a cost of Rs 2 crores, a sugar factory and a piston ring factory in collaboration with the Co-operative and Agriculture departments and the private sectors.

There are 17 vocational training centres, 10 cotton spinning and weaving centres and 11 sub centres for the benefit of the displaced persons and 24 industrial schools for men and 13 for women functioning at present in the Punjab area there are three industrial schools for women and this will be supplemented by the establishment of 6 more schools during the Second Five Year Plan period.

Industrial Area Scheme: With a view to rehabilitating the displaced industrialists and others the Government launched a scheme of establishing industrial areas at Jullundur, Ludhiana, Panipat, Jagadhari, Sonapat and Bahadurgarh. Out of 1,920 developed plots a large number has already been sold. A sum of Rs 77.97 lakhs has been provided for this scheme in the Five Year Plan.

Financial Assistance: The Department of Industries gave loans to individual industrial concerns amounting to Rs 36 lakhs and Rs 40 lakhs during 1957-58 and 1958-59 respectively under State Aid to Industries Act.

Standardization of Goods: A Government Finishing and Testing Centre has been established at Ludhiana which will undertake costly technical operations involved in the production of bicycle parts, sewing machine parts and other light engineering trades. Standardization centres have been set up by the department for hosiery goods and agricultural implements at Ludhiana and Batala. Six other centres for quality marking of sports goods, furnishing fabrics, scientific instruments, utensils, making textile goods and dyeing and calico printing are also in the process of establishment.

AGRICULTURE

The total area of the Punjab according to village records pertaining to the agricultural year 1955-56 is 30,289,000 acres as per details given below:

	Acres
Area under Forests	844,000
Area not available for cultivation	7,781,000
Cultivable waste other than current fallows	2,981,000
Current fallows	1,489,000
Net area sown -	
(a) irrigated	8,062,000
(b) unirrigated	9,732,000
Total	30,289,000

The total area under irrigation during 1955-56	
	Acres
By canals	5,338,000
By wells and tanks	2,640,000
Tanks and other sources	44,000
Total (net)	8,022,000

In the matter of food production, Punjab is the second largest wheat and gram producing area in the Union, third in barley and maize, fourth in bajra and sugarcane while it produces considerable quantities of jowar, cotton rice, rape, mustard and small quantities of tea, tobacco, groundnut and linseed. The production of cotton in the Punjab amounts to one-fifth of the total production of the country.

During the year 1956-57 the Punjab's production of foodgrains increased by 11.14 lakh tons over 1955-56 while that of cotton by 90,000 bales and of oilseeds by 10,000 tons. In the year 1957-58 production of foodgrains in the State was estimated at over 5,600,000 tons including 2,118,000 tons of wheat.

Area and Production of Principal Crops (1956-57):

Crops	Acreage	Output (tons)
Paddy	723,000	277,000
Maize	1,009,000	651,000
Jowar	706,000	45,000
Rajra	2,442,000	240,000
Wheat	4,749,000*	1,814,000
Gram	6,079,000*	1,866,000
Barley	591,000*	186,000
Sugarcane	475,000	580,000
Cotton	1,310,000	735,000
Groundnut	148,000	43,000
Linseed	26,000*	80% of normal
Karfi pulses	141,000*	99% of normal
Rabi oilseeds	682,000*	92% of normal

* Information relates to 2nd forecast

† Information relates to 1st forecast

- Production of sugarcane is in terms of gur
- Production of cotton is in terms of bales
- Production of paddy is in terms of husked rice

The following table shows targets of production for the First and Second Five-Year Plans for food grains, cotton and raw sugar

Year	Tons
A. Foodgrains	
Base Year, 1950-51	30,00,000
Targets of First Plan	4,04,00,000
Achievement, 1955-56	4,43,00,000
Targets of Second Plan	5,85,00,000
B. Cotton	
Base Year, 1950-51	376,700
Targets of First Plan	5,55,000
Achievement, 1955-56	735,000
Targets of Second Plan	1,20,00,000
C. Raw Sugar	
Base Year, 1950-51	438,000
Targets of First Plan	4,50,000
Achievement, 1955-56	5,00,000
Targets of Second Plan	8,00,000

Besides a degree college in Agriculture there are an Agriculture Research Institute at Ludhiana and a number of research stations at important places in the State for imparting education in agriculture.

The Punjab Government has allocated substantial funds for creation of green belts against the advancing desert from Rajasthan.

The consumption of artificial fertilisers was stepped up to 75,000 tons in 1956-57. The target at the end of the Second Plan is expected to go up to 1,50,000 tons.

Besides 27 co-operative garden colonies there are at present 550 co-operative farming societies in the Punjab. By the end of the Second Plan period it is proposed to raise the number of co-operative societies to 850. The State Government has also set up a Land Mortgage Bank with its branches in all the districts for the benefit of farmers. The Second Plan provides for the establishment of 650 large sized agricultural credit societies and 5,000 primary credit societies.

The Punjab Government began State trading in food grains from the 10th of May 1955. Its first purchases of wheat were at Rs. 14 a maund in the wholesale markets at Jagraon, Ferozpur and Ludhiana.

Animal Husbandry:

Live stock census of 1956

No. of animals in the State: 14,466,000 (cattle other than buffaloes 4,85,000; buffaloes 4,810,000; sheep 1,250,000; goats 1,011,000; horses and ponies 9,000; other live stock 470,000).

No. of regular veterinary hospitals: 28; permanent outlying dispensaries: 217; ordinary outlying dispensaries: 5; first aid centres: 253.

There is a Government Institution at Hissar for the manufacture of tanned products. The Government live stock farm at Hissar maintains about 1140 heads of live stock including buffaloes, sheep, donkeys, etc. etc. for breeding purposes. In this farm the famous Marathi breed of cattle is scientifically raised.

There were 14 lakh poultry in 1956. There are two Government poultry farms at Gurdaspur and Mukerthi and five sub-stations at Ambala, Jalandhar, Ludhiana, Sahiwal and Batinda. There is a Department of Veterinary Science and Animal Husbandry at Hissar.

Community Development

No. of Community Development

Blocks: 24

No. of Panchayat Blocks: 28

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LAND TENURE

Names of Tenancy Acts in force at present: The Punjab Occupancy Tenants (Vesting of Proprietary Rights) Act 1957, The Punjab Abolition of Ala Malkiyat and Fudukari Rights Act 1952, Punjab Security of Land Tenures Act 1953, Punjab Tenancy Act 1887, Punjab Security of Land Tenures (Amendment) Act 1955, P.P.S.T. Occupancy Tenants (Vesting of Proprietary Rights) Act 1957, The Patidari and East Punjab States Union Tenancy and Agricultural Lands Act 1953, The P.P.S.T. Agricultural Tenant (Temporary Protection and Disability) Ordinance 1954, The Punjab Security of Tenure (Amendment) Act 1958, The P.P.S.T. Tenancy of Agricultural Lands (Amendment) Act 1958.

With the passage of the Punjab Occupancy Tenants (Vesting of Proprietary Rights) Act 1957, there are now no occupancy tenants except on covered lands. They become proprietors from 1st June 1958. The Government of Punjab has made provision for the transfer of land to the State.

Consequent upon the enforcement of the Punjab Security of Land Tenures Act 1953, which came into force on the 14th April 1953, tenants were divided into the following two classes: Tenants of landowner owning land above the permissible limit (50 standard acres or 60 ordinary acres) and tenants of landowners owning land below the permissible limit.

The permissible area has been fixed at 50 standard acres or 60 ordinary acres in case of locals and in case of displaced persons 50 standard acres or 100 ordinary acres for those who have been allotted 50 standard acres or more in lieu of land left in West Punjab, but in the extent of land allotted in case of less than 50 standard acres and more than 20 standard acres but if allotted less than 20 standard acres then up to 20 standard acres including any land which such displaced persons have in East Punjab.

The tenants of the former category have security of tenure for a period of 10 years from the date of the commencement of the tenancy or the date of the enforcement of the aforesaid Act, whichever is later. The tenants of latter category are liable to eviction after the 30th of April 1954 upto which date no tenant is liable to eviction.

There were a fairly large number of ejectments and an Ordinance was promulgated in October 1954.

The Government piloted an amending Bill in 1955 to tighten the provisions of the original Act further.

The amended Act empowered the Government to utilise the 'surplus area' of both landowners and tenants for the resettlement of landless and ejected tenants. Under the Act all areas above 30 standard acres owned by a local owner were considered 'surplus'. Further, a small owner who held land up to 30 standard acres could not eject a tenant from five standard acres unless the tenant was settled by the Government on the surplus area. The amended Act also declared all sales *bona fide* or otherwise, effected after January 1, 1955, illegal.

Landowners who were ever anxious to dodge the new laws failed to declare their surplus areas, thereby compelling the Government to amend the Act again in the last Budget session. A penal clause was introduced imposing both fines and imprisonment on defaulters.

The former P.P.S.T. area is governed by another radical land law which lays down that ownership of all land in excess of the permissible ceiling of 40 standard acres shall vest in the State and compensation shall be payable by the State after its recovery from tenant who they assume proprietary rights. The P.P.S.T. law provides for compensation amounting to 100 times the land revenue or Rs. 100 which ever is less and the Punjab law provides compensation up to three fourth of the market value.

The Punjab Government further amended the two parent Act, 1957, to give P.P.S.T. and Punjab law in the entire State. Latest amendments passed by the State Legislature in December 1958, under the further tighten the scope of the original Acts.

The tenants' right and interest have been safeguarded against the new situation in the State and the State has taken steps to landowners. While the tenancy right will remain intact on redemption of land, the State has taken steps to landowners.

A ceiling up to the permissible area in the erstwhile Punjab has been imposed on future acquisition of land by proprietors or by the State, if there being already a similar provision in the P.P.S.T. Act.

Transfers of portions of land, imposed on surplus areas, made by landowner after 14th April 1957, in erstwhile Punjab will have no effect inasmuch as the government and utilization of surplus area by the Government is in accordance with the provisions of the Act made after 14th August 1956. In the erstwhile P.P.S.T. have been made instructions.

The work has been carried out in the State is aimed to complete the work and a number of ejected tenants will have been resettled by the end of 1958. Legislation to vest proprietary rights in occupancy tenants holding covered lands was also put through in 1958.

Steps have been taken to amend the East Punjab Cultivation of Lands Act 1949 so as to reduce the number of sub-tenants, to remove the restriction on the cultivation of waste land, to extend the application of the Act to the erstwhile P.P.S.T. area.

The State Government have enforced the Punjab Resumption of Rights Act 1949, which provides for taking over jagirs and manors in the State on payment of suitable compensation, except military jagirs and jagirs and manors granted in favour of religious and charitable institutions.

Consolidation of Holdings: The consolidation programme in the Punjab began in 1954 and up to the end of October 1958, 92 lakh acres had been re-partitioned. The remaining area requiring consolidation is 1.27 lakh acres which is intended

to be completed by the end of 1963. Progress during 1957-58 has been somewhat slow, largely owing to the Patwaris' strike and the diversion of staff or combatting calamities like floods.

Consolidation is now complete in 19 tehsils and is in progress in another 32 tehsils.

IRRIGATION

Total area irrigated inclusive of area irrigated by tube-wells, one crore acres.

The Bhakra-Nangal Project is estimated to cost Rs. 174 crores. On completion it would provide irrigation for the first time to 3.8 million acres in the Punjab, 1 million acres in PEPSU and 9 lakh acres in Rajasthan, besides improving irrigation in about 8.6 million acres. The additional agricultural production is estimated at about Rs. 182 crores annually and nearly 4,00,000 kWs. of electric energy would be added to the State's power resources.

Full benefits of the Project will be available on its completion in 1960. However, schedules have been so arranged as to bring some measure of these benefits as each step of construction is completed.

After the completion of the Bhakra-Nangal Project, the total area to come under irrigation by the Bhakra Canal System consisting of 600 miles of main lines and branches and 2,100 miles of distributaries will be over 9 million acres.

The following table shows the year-wise figures of new acreage which will be irrigated by this Project.

	Acrea
1956-57	1,572,007
1957-58	1,611,008
1958-59	2,308,211
1959-60	2,651,955
1960-61	2,880,076
After completion	4,963,705

In addition to the multi-purpose Bhakra-Nangal and Harkie Projects and minor irrigation programme under the head 'Agricultural schemes', a large number of other fairly big schemes were also undertaken at a cost of Rs. 68.8 crores. An additional area of 1,31,000 acres has come under irrigation as a result of all these schemes. Besides, in the area of the erstwhile PEPSU, an area of 1,11,000 acres has come under irrigation during the First Five Year Plan period.

The following works are to be undertaken during the Second Five Year Plan period for which there is provision for Rs. 40.98 crores. Names of the works, coverage and additional area under irrigation respectively.

Completion of Bhakra Project, Hissar, Karnal, Ambala, Jullundur, Ferozepur, Hoshiarpur, Patiala, Sangrur, Bhatinda, Kapurthala and Mohindergarh, 1,87,000 acres.

Madhopur Beas Line, Ambala Division (except Simla), Jullundur Division (except Amritsar, Gurdaspur and Kangra Patiala Division), 600,000 acres.

Strind Feeder Project, Same as Madhopur-Beas Line, 600,000 acres.

Remodelling of West Jumna Canal, Hissar, Rohtak and Karnal, 328,000 acres.

Gurgaon Canal, Gurgaon, 50,000 acres.

Increasing the capacity of canals to Karnal and Delhi Division, Rohtak and Karnal, 45,000 acres.

Dadri Irrigation, Mohindergarh, 50,000 acres.

Spill over Projects, Ambala Division (except Simla), Ferozepur, Amritsar, Gurdaspur, Kangra, 80,000 acres.

Sisra Branch Munak Link, Gurgaon, Karnal, Rohtak, Hissar, Benefit after 1961-62.

Extension of Flood Irrigation (HFI) from Western Jumna Canal to water Reward and adjoining areas, Gurgaon, 40,000 acres.

Extension of non-perennial irrigation to area in upper Ban Doab Canal, Amritsar and Gurdaspur, 40,000 acres.

ELECTRIC POWER

1957-58: No. of stations: 41; installed capacity: 174,521 kW; energy generated: 657,223 mln. kWh.

The main sources of electric supply in the State are (1) The River Hydro-Electric Scheme at Joginder Nagar where four sets of 12,000 kW. each, including one stand-by, are installed, (2) The Nangal Power House I at Gangawal with 3 units of 24,000 kW. each, out of which at present two are working, (3) The Nangal Power House II at Kotla with 3 units of 24,000 kW. each out of which two are working at present, (4) Bhakra Dam Left Bank Power House with six generating units of 90,000 kW. each and (5) Bhakra Dam Right Bank Power House with five generating units of 90,000 kW. each.

Provision of electricity, particularly in the rural areas, for industrial and domestic uses is one of the main items on the development programmes in Punjab. Electricity has already been made available to more than 2,51,000 consumers in the State.

The estimated revenue for the year 1957-58 was Rs. 5.5 crores.

Progress of electrification in the State upto December 1957: Towns and villages with a population of 20,000 and above and those with a population between 10,000 and 20,000. All electrified.

Towns and villages with a population below 1,000, 1,790 electrified out of 5,000 towns and villages, to be completed by 1960-61.

Besides the above, 7,091 tube wells also stood energised upto April 1958. It is expected that by the end of year 1960-61, fifty per cent of the population of the State will be getting benefits of electricity while the per capita consumption of electricity will rise to 50 kWh. from 8.1 kWh. at present.

Punjab Electricity Board. State Electricity Boards were set up in Punjab and Rajasthan following an agreement between the States on the terms of partnership relating to the irrigation and power wings of the Bhakra Nangal Project.

The entire assets and liabilities of all government electrical undertakings in Punjab including the Bhakra and allied power projects were passed on to the Punjab Electricity Board which came into existence on 1st February 1959.

The three-member autonomous Board with Mr. H. R. Bhalla as its Chairman has been located at Patiala. Except for policy directions from the Ministry, the day-to-day working of State Electricity undertakings shall be administered by the Board.

The Government has also resolved to gradually nationalise all private electricity ventures by paying compensation.

TRANSPORT

There are about 5,000 miles of metalled road in the Punjab.

Government has taken over 50 per cent of all pucca routes, leaving 50 per cent to private operators. This scheme has been enforced in pursuance of an agreement between private operators and State Transport Department in 1950. The Government's monopoly, however, will continue on the Karnal Ambala, Jullundur-Amritsar, Ferozepur-Fazilka routes. The agreement will last for 10 years.

Nationalisation of goods transport has been postponed till 1961.

LABOUR

Number of registered Factories: 2,573.

Number of workers: 80,000.

Employers' Provident Fund scheme has also been enforced in the State and about 150 factories are covered by it. About 16,000 workers employed in these factories at present benefit from this scheme.

Employees' State Insurance Scheme also came to be enforced in 1953 in seven centres covering about 35,000 workers. Since then the number of

workers insured has risen to 64,000. Additional facilities have also been provided with effect from the year 1956-56.

The Punjab Government have enacted legislation known as Commercial Establishments Bill. The bill confers on shop assistants and workers in all commercial establishments including newspapers and news-agency offices statutory rights with respect to earned leave, weekly holiday, minimum working hours etc. Workers in all commercial establishments will not be required to work for more than 10 hours a day with two hours rest in the afternoon.

EDUCATION

No. of students (boys and girls) receiving education in Schools and Colleges (1957-58): 17.5 lakhs.

Total number of institutions: 15,918.

Total no. of literates in the State (1951 census): 24,57,496 (Men 18,25,953; Women 6,31,543).

Percentage of total population: 16.13.

Under the Second Five Year Plan a sum of Rs. 1,485 lakhs including Rs. 2 crores for technical education, will be spent. The aim of the Plan is to bring to schools 60 to 65 per cent of the children in the age-group 6-11 and 37 per cent in the age-group 11-14.

Technical institutions will also be expanded so as to raise the admission from 40 to 105 in the Engineering College, Chandigarh, from 40 to 60 in the Veterinary College, Hissar, from 50 to 100 in the Agricultural College, Ludhiana, and from 80 to 100 in the Medical College, Amritsar.

More than 190 primary schools, 40 middle schools and all the junior teacher training schools in the State have been converted into basic type upto the end of 1957-58. Besides, first Basic Training Schools have also been started at various centres. It is expected that by the end of 1960-61 ten per cent of the elementary schools will be converted into basic type.

Promotion of education among scheduled castes and backward classes is also receiving special attention side by side. There are 13 schools for the benefit of erstwhile criminal tribes as well as 29 primary and 3 middle schools for the backward areas of Lahaul and Spiti, apart from a high school at Keylong.

In the schools of the former State of Punjab, a scheme of nationalisation of text books has already been enforced. Under this scheme, only nationalised text books, which number 147, are being used in classes I to VIII.

Education was made free in all Government schools upto the 6th class and 10,092 local body schools (322 high, 762 middle and 9,008 primary) were provincialised involving an expenditure of Rs. 525.77 lakhs. The provincialisation of local body schools alone involved an expenditure of more than Rs. 4 crores. In the Government schools of Kangra and Mohindergarh districts education was made free upto the 8th class. This concession was later extended to Tehsil Sub-Tehsil of Hissar District and the Morni Hill areas in tehsil Narainagarh of Ambala District. In the flood affected areas, free education is provided in Government schools upto the 10th Class.

In addition to a large number of adult education centres in nearly all the community development and N.E.S. blocks, the State Government has also been running 55 social education centres for male adults and 45 for female adults in the urban areas.

In addition, there are schemes for the re-organisation of Industrial Schools, and the expansion of Training Centres at a cost of Rs. 1.4 crores, the establishment of two Polytechnic and Printing Technology Institutes, the establishment of a Polytechnic at Patiala and 2 junior technical schools at a cost of Rs. 8 lakhs. Provision has also been made in the Plan to subsidize the establishment of an Institute of Engineering and Technology at Patiala.

Dental College, Patiala.
 Dev Samaj College for Girls, Ambala City.
 Dev Samaj College for Women, Ferozpur City.
 D. M. College, Moga.
 Doaba College, Jullundur City.
 Dronacharya S. D. College, Gurgaon.
 Fateh Chand College for Women, Hissar.
 G. H. G. Khalsa College, Gurusar Sadhar.
 G. H. G. Khalsa Training College, Gurusar, Sadhar.
 G. M. N. College, Ambala Cantt.
 G. N. Khalsa College, Ludhiana.
 Govt. Bikram College of Commerce, Patiala.
 Govt. College, Chandigarh.
 Govt. College for Women, Chandigarh.
 Govt. Post-Graduate Basic Training College, Chandigarh.
 Govt. Degree College, Chamba.
 Govt. College, Dharamsala.
 Govt. College for Women, Amritsar.
 Govt. Post-Graduate Basic Training College, Dharamsala.
 Govt. College, Gurdaspur.
 Govt. College for Women, Ludhiana.
 Govt. Training College for Teachers, Jullundur City.
 Govt. College, Hissar.
 Govt. College, Ludhiana.
 Govt. College, Malerkotla.
 Govt. College, Muktsar.
 Govt. Ripudaman College, Nabha.
 Govt. College, Narnaul.
 Govt. College, Rohtak.
 Govt. College, Rupar.
 Govt. College of Physical Education, Rupar.
 Govt. College, Tanda Umar.
 Govt. Agricultural College, Ludhiana.
 Govt. College, Bilaspur.
 Govt. College for Women, Patiala.
 Govt. Training College for Women, Simla.
 Guru Nanak College, Mandi Dabwali.
 Guru Nanak Engineering College, Ludhiana.
 Govt. Post-graduate Basic Training College, Solan.
 Hans Raj Mahila Mahavidyalaya, Jullundur.
 Hindu National College, Hariana.
 Hindu College, Amritsar.
 Hindu College, Sonapat.
 J. S. D. Basic Training College, Baljath.
 Kanya Mahavidyalaya, Jullundur.
 Khalsa College, Amritsar.
 Khalsa College for Women, Ludhiana.
 Khalsa College for Women, Sidhwan Khurd.
 Khalsa Basic Training College for Women, Sidhwan Khurd.
 Khalsa College, Nangal Amlira.
 K. M. Post Graduate Basic Training College, Bhiwani.
 Khalsa Training College, Muktsar.
 Lyallpur Khalsa College, Jullundur City.
 Mahendra College, Patiala.
 Malwa Training College, Ludhiana.
 Medical College, Amritsar.
 Medical College, Patiala.
 M. R. College, Fazilka.
 Montgomery G. N. Basic Training College, Jullundur.
 Mukand Lal National College, Yamuna Nagar.
 National College, Bathinda.
 National College, Sirsa.
 Punjab Engineering College, Chandigarh.
 Punjab College of Veterinary Science and Animal Husbandry, Hissar.
 Radha Krishna Arya College, Nawanshahr, Doaba.
 Ranbir College, Sangrur.
 Ranbir College for Women, Sangrur.
 Rangarhia College, Phagwara.
 Rangarhia Training College, Phagwara.
 Rajindra College, Bhatinda.
 R. K. S. D. College, Kathal.
 Randhir College, Kapurthala.
 R. S. D. College, Ferozpur City.
 Rana Padam Chand Sanatan Dharam Bhargava College, Simla.
 Saraswati Training College for Women, Amritsar.
 S. A. Jain College, Ambala City.
 S. A. Jain College, Malerkotla.
 S. D. College, Ambala Cantt.
 S. D. College, Barnala.

S. D. College, Hoshiarpur.
 S. D. College, Patwal.
 Shri Guru Ram Rai Degree College, Nahan.
 Shri Saraswati Sanskrit College, Khanna.
 Sikh National College, Banga.
 Sikh National College, Qadian.
 S. G. S. Khalsa College, Mahipur.
 S. M. D. S. D. College, Pathankot.
 State College of Education, Patiala.
 Sohan Lal Training College, Ambala City.
 S. S. N. Arya College, Raman Mandi.
 Technological Institute of Textiles, Bhiwani.
 Thapar Institute of Engineering and Technology, Patiala.
 Valah College, Bhiwani.
 Valah College, Rohtak.
 Yashwanth Mahavidyalaya, Mandi.
 Yashwanth College, Patiala.

PUNJAB FINANCIAL CORPORATION

(25-C, Sector 5, Chandigarh).

Established 1st Feb., 1953. The repayment of principal and payment of dividend at 5 per cent per annum is guaranteed by the State Government. The Corporation is intended primarily to supply the requirements of industries for block capital.

Total funds available: Over Rs. two crores. Total loans advanced upto March 31, 1959: Rs. 1,18,11,000; Amount repaid upto March 31, 1959: Rs. 27,80,020 94. Total amount of loans for which applications were received upto March 31, 1959: Rs. 4,92,71,500; Total amount of loans sanctioned upto March 31, 1959: Rs. 2,19,08,000 (including loans declined, reduced or cancelled).

Income (April 1, 1958 to March 31, 1959): Rs. 10,25,290 55; Expenses: Rs. 6,50,051 97; Profit: Rs. 3,69,231 58.

Chairman, Board of Directors, J. S. Basar, I.A.S., Managing Director, S. R. Varma, I.A.S., Secretary, M. S. Rana; Accountants, T. L. Khurana, B. L. Sawant.

ADMINISTRATIVE PERSONNEL

(See under 'States Administrative Personnel')

PUNJAB LEGISLATIVE COUNCIL

(See under 'General Elections')

PUNJAB LEGISLATIVE ASSEMBLY

(See under 'General Elections')

SHIROMANI GURDWARA PARBANDHAK COMMITTEE, AMRITSAR

(Teja Singh Samundri Hall, Amritsar.)

The Shiromani Gurdwara Parbandhak Committee is constituted under the provisions of the Sikh Gurdwaras Act, 1925 (Punjab Act VIII of 1925). It consists of:

- (i) 142 elected members;
- (ii) Head Priests of Golden Temple, Amritsar and the following four Takhts: (a) Akal Takht Sahib, Amritsar; (b) Takht Kesgarh Sahib, Anandpur; (c) Takht Patna Sahib, Patna; and (d) Takht Hazur Sahib, Nanded (Bombay) and
- (iii) Fifteen members resident in India of whom at least ten are residents of the States other than the Punjab State co-opted by the members of the S.G.P.C. as described in clauses (i) and (ii).

Every Sikh man or woman, more than 21 years of age, who resides in the Punjab is entitled to have his name registered on the electoral roll of a constituency formed for the election of a member or members of the board provided he does not trim or shave his beard or Keshas except in case of Sahajdhari Sikh and does not smoke or take alcoholic drinks. Every voter is eligible for election provided he is not of unsound mind, is not an undischarged insolvent, is not an apostate from the Sikh religion, does not take alcoholic drinks, is not a Minister of a Notified Sikh Gurdwara, other than mentioned above in clause (ii), is not a paid servant of any Notified Sikh Gurdwara, being a Keshadhari Sikh is not an Amritdhari and can read and write Gurmukhi.

Elections to the Shiromani Gurdwara Parbandhak Committee are held every five years. Dates for the elections are fixed by the State Government and the preparation of electoral rolls and other arrangements are also made by the State Government.

The Shiromani Gurdwara Parbandhak Committee directly manages some of the important and historic Sikh Gurdwaras situated within the Punjab. All the above mentioned Gurdwaras are administered by a Committee of Management consisting of five members of whom four are elected by the voters of the constituency concerned and one member is nominated by the Shiromani Gurdwara Parbandhak Committee. The S.G.P.C. supervises the affairs of these Gurdwaras.

A Judicial Commission is also constituted under the provisions of the Sikh Gurdwaras Act to settle disputes regarding the management of the Gurdwaras. This commission has the same powers as are vested in a Court by the Code of Civil Procedure, and the Commission has unlimited jurisdiction as regards the value of the suits throughout the Punjab.

Under the provisions of the Sikh Gurdwaras Act, the S.G.P.C. and the Gurdwaras under its control and supervision can spend their funds for religious, charitable, educational or industrial purposes and also for such non-political purposes as are connected with the general uplift and welfare of the Sikhs. Its accounts are annually audited by the Auditors appointed by the State Government.

In the last Gurdwara elections, out of 132 members elected 110 members were elected on the ticket of the Shiromani Akali Dal, four members on the ticket of the Khalsa Dal i.e. Congress Sikhs and 18 on the ticket of the Desh Bhagat Board, i.e. Communist.

The total strength of the S.G.P.C. is 162.

At the annual general meeting of the S.G.P.C. held on 10th November 1958 a new set of officers was elected.

In the election to the presidency Master Tara Singh, the Akali leader was defeated by sardar Prem Singh Lalpura, Congressman by 77 votes to 74. Two votes were held invalid.

The S.G.P.C. manages about 600 Gurdwaras in the Punjab. Before partition there were about 750 Gurdwaras under the S.G.P.C.

The S.G.P.C. also runs an Arts College, an Industrial College and School and several High Schools, hospitals, and libraries.

Office Bearers: -

S. Prem Singh Lalpura (President); S. Ajit Singh Mann (Senior Vice-President); S. Mohan Singh Mohawa (Junior Vice-President); S. Anwar Singh Dosanjh (General Secretary).

Members: -

S. Swaran Singh, Gurdaspur; S. Arjan Singh (Ghumna); S. Gurbakhsh Singh Morinda; S. Raudhan Singh, Prof. Waryam Singh, S. Gurbakhsh Singh, B.A., B.T., S. Harchand Singh, S. Mohinder Singh Sainanwala, S. Mohinder Singh Khanna, S. Mohan Singh Tur, Prof. Satbir Singh, S. Jagjit Singh Mangat, S. Sampuran Singh Raman, S. Pritam Singh Mofar, S. Gurdev Singh Rumana.

ASSOCIATIONS ETC.

ALL INDIA WOMEN'S HOCKEY ASSOCIATION

"Dil Fiza", Civil Lines, Jullundur City.

President: Begum Almas Rasul; Vice-President: Mrs. Shieela Kapoor; Hon. Secretary: Miss Krishna Sapra; Hon. Treasurer: S. Davinder Singh, I.A.S.

AUTOMOBILE ASSOCIATION OF UPPER INDIA

10, Alexander Road, Ambala Cantt.

President of the Committee: P. L. Mehta, J.P., I.P.

BHARTIYA SANGEET SABHA
Central Public Library, The Mall, Patiala
General Secretary: B. L. Bansal; *Secretary*
Dr Lakshvir.

DIOCESE OF AMRITSAR
Bishop's House, Taylor Road, Amritsar.
Bishop of Amritsar: The Rt Rev C. R. H. Wilkinson, M.A., D.D.; *Archdeacon*: The Venerable B. S. Chandar.

ENGINEERING ASSOCIATION OF NORTHERN INDIA
O.T. Road, Batala, Distt Gurdaspur.
President: S. Rawail Singh; *Vice-Presidents*: K. L. Malhotra; P. L. Modgil; *Secretary*: G. C. Tazali; *Financial Secretary*: W. C. Kawatra; *Joint Secretary*: Baljit Kumar; *Asst Secretary*: J. S. Nayar; *Internal Auditor*: S. B. Puri.

THE FACTORIES' ASSOCIATION
Railway Road, Batala.
President: Atma Singh; *General Secretary*: Kharali Ram Sarin; *Financial Secretary*: Dharam Paul Goel.

FAMILY PLANNING ASSOCIATION
South Gate, Simla 2
President: Suraj Mull, *Chairman* (of R. N. Khosla, I.M.S. (Regd)); *Hon Secretary*: Mrs Jagjit Singh.

FARIDABAD INDUSTRIES ASSOCIATION
Township, Faridabad
President: K. K. Sharma; *Vice-President*: N. Balasundaram; *Hon General Secretary*: G. S. Duggal; *Secretary*: K. L. Chopra.

FEDERATION OF SPORTS INDUSTRIES
Jullundur
President: S. Balwant Singh Ahluwalia; *Vice-President*: Ishar Dasa Mahajan; *Secretary*: M. R. Kohli.

GOVERNMENT HOSIERY INSTITUTE
Fort, Ludhiana.
Principal: N. N. Basu, *Chartered Textile Technologist*, A.T.I. (Manchester), F.T.C. (City & Guilds, London), A.C.H.T. (Board of Education, England).

GOVERNMENT INSTITUTE OF DYEING AND CALICO PRINTING
Fort, Ludhiana.
Principal: Kirpal Singh, M.Sc., Text Chem. (U.S.A.).

GOVERNMENT SPINNING AND WEAVING CENTRES
Near Radio Station, Jullundur.
Controller: Major Davinder Singh.

GOVERNMENT TANNING INSTITUTE
Jullundur.
Imparts training in Leather Chemistry and Technology.
Principal: Makhl Singh.

HOME HOSIERY MANUFACTURERS' UNION
Chawal Bazar, Ludhiana.
President: K. L. Sabharwal; *Senior Vice-President*: Balj Nath; *Gen. Secy.*: K. C. Spolia.

HOSIERY MACHINE MANUFACTURERS ASSOCIATION
Miller Ganj, G. T. Road, Ludhiana.
President: S. Chanan Singh; *Vice-President*: S. Gurdial Singh; *Secretary*: B. C. Khanna.

HOSIERY MANUFACTURERS ASSOCIATION
Bazaar Khuradian, Ludhiana
President: Ram Lal Navyar; *General Secretary*: Bhagat Ram Ahluwalia

JULLUNDUR RADIO MERCHANTS' ASSOCIATION
Railway Road, Jullundur City.
President: Sohan Singh; *Vice-President*: Raj Pal; *Secretary*: Khairat Ram

KAPURTHALA INDUSTRIES ASSOCIATION
Factory Area, Kapurthala
President: S. S. Khosla; *Secretary*: H. N. Saran

KENDRI PUNJABI TEKKHAK SABHA
Pakka Bagh, Jullundur
President: S. Gurbakhsh Singh; *Vice-President*: Gyan Gurumukh Singh 'Musafir'

INDIAN ACADEMY OF FINE ARTS
Madan Mohan Malviya Road, Amritsar
President: S. G. Thakur Singh; *Vice-President*: Gurdial Singh Dhillon; *Speaker Punjab Vidhan Sabha*, *Chairman*: Balwant Singh T.A.E., *Dy Commissioner*: Amritsar

LUDHIANA CYCLE PARTS SUPPLIERS ASSOCIATION
Miller Ganj, Ludhiana
President: Ram Udhair Sani; *Vice-President*: Tara Singh Khurana; *Secretary*: Kirshan Lal

LUDHIANA JOURNALISTS' ASSOCIATION
Civil Lines, Ludhiana
President: R. Dhillon; *General Secretary*: H. S. Jolly.

THE LUDHIANA MACHINE TOOLS MAKERS GUILD
G.T. Road, Miller Ganj, Ludhiana
President: Atma Singh; *Vice-President*: Ram Singh; *Secretary*: R. C. Kapoor; *Cashier*: Jagir Singh

LUDHIANA PRINTERS' ASSOCIATION
C/o Messrs Mohindra Brothers, Printers, Press Lane, Niggar Mandi, Ludhiana
President: S. Nand Singh; *Secretary*: D. Paul Mohindra.

THE LUDHIANA TEXTILE BOARD (Regd)
Chauri Sarak, Ludhiana
President: Dina Nath Agarwal; *Vice-President*: S. Nagan Singh; *General Secretary*: Ram Swaroop Sahi

NORTHERN INDIA CHAMBER OF COMMERCE
(Formerly Indian Chamber of Commerce), Ambala Cantt (East Punjab)

The activities of the Chamber are spread over all spheres of commercial life of the Punjab, Himachal Pradesh and Delhi States. The Chamber is affiliated to the Federation of Indian Chambers of Commerce and Industry and is a member of the International Chamber of Commerce, Paris and the Indian Standards Institution.

President: S. Charanjit Singh.
Vice-Presidents: Satya Paul, Bahamdar Dams Kapur.
Hon Secretary: H. S. Balhaya.

PANCHAL LALIT KALA AKADEMI
'Morvyn', Simla 5

Chairman: Justice G. D. Khosla (Judge, High Court, Chandigarh); *Hon Secretary*: M. L. Prashar, M.A. (Principal, Govt. School of Arts, Simla).

PUNJAB & DELHI CHAMBER OF COMMERCE
Scindia House, Curzon Road, Post Box No 180, New Delhi 1.

Office Bearers: Kenneth Jewers (Chairman), I. P. Anand (Dy. Chairman), Saugat Singh (Secretary)

THE PUNJAB FEDERATION OF INDUSTRY & COMMERCE
Inside Hall Gate, Amritsar

President: S. Gurdial Singh Ujjal; *Vice-President*: C. Constantinder; *Secretary*: Chaman Lal, M.A., LL.B.

PUNJAB RADIO DEALERS' ASSOCIATION
Railway Road, Jullundur City
President: Sohan Singh; *Gen. Secretary*: Kharali Ram

PUNJABI SAHITYA AKADEMI
55 E. Model Town, Ludhiana
President: S. B. Bhat Sahib Bhat Jodhi Singh M.A. *General Secretary*: Dr. Sher Singh M.A. Ph.D. (London) *Treasurer*: Prof. P. Singh M.A. (Punjab) *Learn. A. President*

THE TECHNOLOGICAL INSTITUTE OF SCIENCES
P.O. Birla Colony, Bhawal (Haryana)
Principal: D. I. Sen, *General Manager and Member of Governing Body*: P. D. Mukharia *Manager*: C. I. Rajagurthi

TENTILE MANUFACTURERS ASSOCIATION
4 Queens Road, Amritsar
President: Kirshan Chaud; *Vice-President*: Shanti Lal Khanna; *Gen. Secretary*: Diwan C. Mehra

UNITED LUDHIANA CYCLISTS ASSOCIATION
Miller Ganj, G.T. Road, Ludhiana
President: S. Chanan Singh; *Secretary*: S. Sardar Singh

VISHVESHVARANAND VEDIC RESEARCH INSTITUTE
Post Office - Sadhu Ashram, Hochpur
A non-denominational centre for post-graduate research and study in Indology including linguistics, literature, philosophy, religion, history, arts and sciences etc.

Literary activities spread over eight departments of Vedic Lexicography, Upanishad Philology, General Indology, Sanskrit Text Editing, General Cultural Publication, History, Philology, Religion & Translations.

250 Volumes so far published by eleven cultural Hindi monthly *Vedya Jyoti* (Universal Light)

Engaged, besides several minor schemes, on 30 Volume Vedic Lexicographical Project, consisting of (a) 15 Volume Vedic Word Concordance, (b) 6 Volume Grammatical Indices, and (c) 15 Volume Vedic Dictionary. Nine Volumes of Concordance published so far, remaining six volumes of Concordance and the six volumes of Indices to be issued till April 1961. Dictionary scheduled for 1961-70. On completion Concordance alone will have cost about Rs. 25,00,000.

Library of about 40,000 Volumes including 8,500 ancient manuscripts on hand made paper, birch bark and palm leaf, information papers and list of available publications can be had free of cost.

President: Dr. Sir Bakhshi Tek Chand, M.A., LL.B., LL.D., Retd. Judge, High Court, Punjab; *Vice-President*: Dr. M. C. Mahajan, M.A., LL.B., LL.D., Retd. Chief Justice of India; *Secretary*: Prof. Diwan Anand Kumar, M.A. (Cantab.), Bar-at-Law, Ex-Vice-Chancellor, Punjab University; *Hon. Jt. Secy & Director*: Prof. Vashva Bandhu, M.A., Bhadrati, M.O.L. (Pb), O'd.A. (Fr), M.C.T.H.

RAJASTHAN STATE

Area 132 147² sq miles (according to Surveyor General), 131 943⁹ sq miles (according to village papers)

Population (1951 census) 15,970,774

Capital, Jaipur.

Rajasthan is divided into 5 divisions, 26 districts, 82 sub-divisions and 212 tehsils.

Names of Administrative divisions giving the names of districts (headquarters within brackets) in each division

(1) **Ajmer Division**—Ajmer (Ajmer), Alwar (Alwar), Bharatpur (Bharatpur), Jaipur (Jaipur), Jhunjhunu (Jhunjhunu), Sawai Madhopur (Sawai Madhopur), Sikar (Sikar), Tonk (Tonk)

(2) **Bikaner Division** Bikaner (Bikaner), Churu (Churu), Gangwanagar (Gangwanagar)

(3) **Jodhpur Division** Barmer (Barmer), Jaisalmer (Jaisalmer), Jalor (Jalor), Jodhpur (Jodhpur), Nagaur (Nagaur), Pali (Pali), Sirohi (Sirohi)

(4) **Kotah Division** Bundi (Bundi), Jhalwar (Jhalwar), Kotah (Kotah)

(5) **Udaipur Division** Banswara (Banswara), Bhilwara (Bhilwara), Chittorgarh (Chittorgarh), Dungarpur (Dungarpur), Udaipur (Udaipur)

No. of village panchayats at the end of 1956 57 1401 No. of tehsil panchayats 208 Town Municipalities 136, City Municipalities 6, District Boards 11, Corporation 1

Rajasthan in its various dialects is spoken all over the State. The common language is Hindi.

Among castes and tribes in Rajasthan are the Brahmins, Jats, Mahajans (hamars), Rajputs, Meenas, Gujars, Bhis, Malis or Kachhis and Balais.

BUDGET FOR 1956-57

(See under *late Particulars*)

DISTRICTS—AREA AND POPULATION

Names of Districts giving within brackets the area in square miles and population respectively (1951)

Ajmer District (1121 825 0.1) Alwar District (1100 801 00.1) Bharatpur District (1121 907 000) Jaipur District (5434 1234 00.1) Jhunjhunu District (2122 986 21.1) Sawai Madhopur District (4057 765 17.2) Sikar District (1013 608 40.7) Tonk District (2771 400 04.7) Bikaner District (9717 111 87.6) Churu District (6251 521 27.6) Gangwanagar District (7971 630 18.0) Bundi District (2173 280 51.8) Jhalwar District (2290 401 12.4) Kotah District (4982 670 00.0) Barmer District (10111 477 28.2) Jalor District (4111 421 55.1) Jaisalmer District (10062 111 05.6) Jodhpur District (9000 671 52.0) Nagaur District (6780 761 82.0) Sirohi District (2000 280 70.1) Pali District (4671 600 45.6) Banswara District (1946 356 55.0) Bhilwara District (4048 724 14.9) Chittorgarh District (4145 586 01.1) Dungarpur District (1460 308 24.3) Udaipur District (6777 1191 21.2)

TEHSILS—AREA AND POPULATION

Districts showing within brackets the names area in sq miles and population respectively of the tehsils in each district

Ajmer District (Ajmer 914 182 000) Beawar, 612 177 000) Kerkal 894 134 000) Arain 215 25 000) Kishanganar 245 52 000) Rupnagar 204 27 000) Sarwar 219 20 000)

Alwar District (Alwar 705 180 000) Banwar 256 62 000) Behror 282 104 000) Jachhangarh 450, 140 000) Rajgarh 184, 105 000) Thanagar 147 57 000) Kishanganar, 298 78 000) Mandawar 221 69 000) Ujara 264 67 000)

Bharatpur District (Bayana, 310 72 000) Rupsa 211 64 000) Weir 217 74 000) Bharatpur 368 140 000) Naddal 173 55 000) Deeg 135 61 000) Kaman 284 84 000) Nigar 181 75 000) Bari 395 61 000) Basari 385 61 000) Gird (Dholpur) 231, 131 000) Rajakhura 151 45 000)

Jaipur District (Amber 402 130 000) Jamwa Ramgarh 548 108 000) Baswa 246 92 000) Dausa 343 95 000) Jalot, 32, 85 000) Sikral 216 66 000) Basal 266 72 000) Chakku 362 60 000) Jaipur 192 127 000) Sangar 306 70 000) Balrath 451 102 000) Kotputli 287 94 000) Dudu 496 55 000) Phagi 441, 50 000) Phulra 571 118 000)

Jhunjhunu District (Chirwa 483 128 000) Jhunjhunu 633 141 000) Khatri 603 137 000) Udaipurwati 601 181 000)

Sawai Madhopur District (Bamanwar 217 49 000) Gangapur 258 73 000) Nadoli 240 44 000) Hindan 240 91 000) Mahwa 186 61 000) Iota Bham 208 76 000) Karauli 600 105 000) Sapotra 501 56 000) Borli (Malarna) 418 68 000) Khander 416 58 000) Sawai Madhopur 617 102 000)

Sikar District (Lathpur 413 84 000) Jachhangarh 460 92 000) Danta Ramgarh 513 104 000) Neknathana 560 100 000) Sikar 61, 147 000) Sri Madhopur 472 146 000)

Tonk District (Duni 470 63 000) Malpuri 655 81 000) Tota Raisingh 315 50 000) Aligarh 358 20 000) Nival 308 58 000) Tonk 27, 114 000)

Bikaner District (Bikaner 1912 196 000) Jankarnsar 1143 40 000) Muga (Kolayat) 1144 55 000) Nokha 1320 71 000)

Churu District (Churu 681 83 000) Rajgarh 1000 87 000) Laranagar 781 44 000) Dunargarh 401 52 000) Ratnagarh 396 76 000) Sardarsahar 1860 77 000) Sujangarh 1070 104 000)

Gangwanagar District (Gangwanagar 139 118 000) Sadulgarh 1154 104 000) Suratgarh 1480 14 000) Karanpur 317 64 000) Padampur 124 58 000) Bhadra 669 66 000) Nohar 1078 84 000) Anugargh 1300 28 000) Raisinghnagar 510 45 000)

Barmer District (Pachpadra 1281 71 000) Siwana 700 61 000) Barmer 4309 214 000) Chohtan, 1532 30 000) Shiv, 2448 41 000)

Jaisalmer District (Pachgarh 1692 16 000) Jaisalmer 1620 22 000) Ramgarh 2800 11 000) Sam 4100 13 000) Narhna, 1350 9 000) Pokran 2500 40 000)

Jalore District (Taswantpura 1360 150 000) Sanchari 1219 85 000) Ahore 802 84 000) Jalor 750 106 000)

Jodhpur District (Bilara 1112 127 000) Jodhpur 1606 278 000) Shergarh 1700 81 000) Osian 1461, 91 000) Phalodi 3127 91 000)

Nagaur District (Deedwana 640 84 000) Tadnu 487 66 000) Dagnna 809 81 000) Merta 804 92 000) Jyjal 896 62 000) Nagaur 1712 141 000) Sawra 560, 97 000) Parbatsar 865 135 000)

Pali District (Ball 834 154 000) Desuri 710, 110 000) Jaitaran 519 69 000) Raipur 414 65 000) Pali 1024 91 000) Kharoshi, 600, 91 000) Sojat 672 75 000)

Sirohi District (Abu Road 304 51 000) Pindwara 344 62 000) Reodhar 473 54 000) Sheoganj 145 50 000) Sirohi 451 67 000)

Bundi District (Bundi 316, 62 000) Patan 457 72 000) Talara 500 40 000) Hindoli 452, 51 000) Nainwa 439 50 000)

Jhalwar District (Aklera 249 41 000) Bakani 216 34 000) Khanpur 329 54 000) Manoharthana 221 42 000) Dug 251 15 000) Gausgarh 185 12 000) Jhalapatan 270 54 000) Pachpahar, 177, 33 000, Pirawa, 309, 71 000)

Kota District (Anta 207 32 000) Baran 219 59 000) Kishanganar 594 36 000) Man groi 174 33 000) Shahdol 592 34 000) Atru, 180 47 000) Chabra 310 41 000) Chinsphared 327 46 000) Chhat, 159 21 000) Kamvas 270 21 000) Rangon mandri 134 26 000) Sangod 197 35 000) Barod 160 24 000) Digod 189 26 000) Itawa 148 21 000) Ladpura 538 119 000, Pipadi 294 41 000)

Banswara District (Banswara 440 85 000) Gadhi 271 67 000) Ghutol 498 71 000) Bagidora 328 70 000) Khushalgarh 409 60 000)

Bhilwara District (Banera 282 50 000) Bhilwara 359 106 000) Mandali 47, 79 000) Raipur 210 40 000) Sahara 228 52 000) Asind 431 83 000) Harid 234 40 000) Kotri 304 60 000) Mandargarh 610 75 000) Jharpur 42, 74 000) Shahpura 404 61 000)

Chittorgarh District (Bagon 81 45 000) Bhainsrogarh 634 28 000) Chittorgarh 326 61 000) Gaugar 270 47 000) Raneshmi 187 38 000) Kapasin 200 46 000) Barbadri 14 43 000) Bhadesar 136 47 000) Chhoti sadri 268 40 000) Dunga 30 42 000) Kanra 80 70 000) Simbhalra 207 43 000) Achana 226 31 000) Partipgarh 671 69 000)

Dungarpur District (Aspur 288 63 000) Dungarpur, 189, 145 000) Sakwara, 483 100 000)

Udaipur District (Bham 221 51 000) Deogarh 26, 47 000) Kotri 704 44 000) Phalodi 270 41 000) Anot 101 40 000) Kum Bhilgarh 318 60 000) Kulinaga 211 40 000) Rajamand 221 62 000) Khawada 114 69 000) Sumbhar 39, 70 000) Sarada 107 60 000) Girwa 66, 187 000) Gogunda 346 51 000) Nathdwara 311 31 000) Bhogdisgar 158 32 000) Jasoda 62, 51 000) Mavli 209 80 000) Vallabhnagar 418 40 000)

Note 1) Population based on 1951 census

2) Area (1956) Reported by Board of Revenue (Land Records) Rajasthan

GEOGRAPHY

The Aravalli mountains intersect Rajasthan from end to end by a line running north east and south west. The heights of Mount Abu, merged into Rajasthan on November 1, 1956 are close to the south-western extremity of the range while its north-eastern end may be said to terminate near Khatri alm at on the borders of Delhi.

There are two main regions, one to the north-west of the hills and the other to the south east. On the whole the north west region is sandy, ill watered and unproductive, it improves gradually as we move from west to east. In the extreme west it is mere desert, while towards the east it is comparatively fertile and habitable. The only river of any consequence here is the Luni. The great desert forming the whole of the frontier between Rajasthan and Sind is covered by sand hills on which grows a kind of coarse grass in the dry season and a slightly richer vegetation depending upon the scanty rainfall.

The cultivation is everywhere poor and precarious. Along the base of the Aravalli range the land is well cultivated.

The region south east of the Aravallis is higher, more fertile, and very diversified in character. It contains extensive hill ranges, long stretches of rocky wood and woodland. The region is traversed by many rivers and in some parts there are wide valleys, fertile table-lands and great stretches of excellent soil. The chief rivers are Banas and Chambal.

There are no natural fresh-water lakes in Rajasthan, the only considerable basin being the well known salt lake at Sambhar. There are, however, numerous artificial lakes in the

*Slightly different from the Central Govt figure

eastern half of the State. Among the many artificial lakes mention may be made of the Jai Samand, the Raj Samand, the Pichola (Udaipur), the Pushkar and the Anasagar (Ajmer).

MINERALS

Rajasthan is an important mineral and building stone producing State. It produces on an average about 60 per cent of India's total production of soapstone. It ranks next to Bihar in Mica which is chiefly found in Ajmer, Udaipur, Bhilwara and Jaipur Districts. There are over 100 localities where mica is worked both in Ajmer and Udaipur.

The non-metallic minerals are silica sand, Feldspar, Asbestos, Barytes, Clays, Emerald, Fuller's earth, Bentonite, etc. The metallic minerals are lead, zinc, silver ore, iron ore and manganese ore. Lead concentrates and zinc concentrates are prepared at Zawar mines in Udaipur. About 5 ounces of silver is found in a ton of lead, zinc and silver ore of Zawar mines. Appreciable tonnage of iron and manganese ores has also been produced. The State is the sole supplier of gypsum for fertilizer manufacture to Hindri plant.

About 75 localities in Ajmer and over 100 localities in Udaipur in addition to numerous other places in the State yield beryl.

Lignite coal is mined near Palana in Bikaner Division. There are vast deposits of high quality building stones such as marble, sandstones and limestones. Limestone is used for the manufacture of cement at Lakheri and Sawal Madhopur and for lime at a number of places. Marble quarried at Makrana in Jodhpur Division is famous as building stone.

Large resources of sodium sulphate and salt also occur at Deedwana and Sambhar lake.

Production in thousand tons of some important Minerals in 1957: Asbestos, 0.60; Barytes, 1.11; Bentonite, 2.03; Calcite, 2.35; Emerald, 131.35 (lbs); Fuller's earth, 6.01; Gypsum, 851.15; Glass sand, 20.40; Iron ore, 99.35; Lead, Zinc and Silver: (a) Run of Mine ore, 89.30; (b) Lead concentrate, 4.85; (c) Zinc concentrate, 7.47; Lignite (coal), 17.55; Manganese ore, 13.47; Marble, 23.57; Mica (cut), 1.74; Soapstone, 36.23; Selenite, 3.51.

INDUSTRIES

Among the large-scale industries of Rajasthan, cotton textile, cement, glass and sugar are important. There are seven cotton textile mills (working), 2 cement factories, 1 glass factory and 3 sugar mills in the State. The industrial production of some commodities during 1957 was as under:—

Cloth 166 lakh lbs. or 576 lakh yds.; yarn 373 lakh lbs.; cement 6.6 lakh tons; glass 695 tons; sodium sulphate 6.8 lakh mds.; salt 75.00 lakh mds.; sugar 15.5 thousand tons; khadi commercial 25.96 lakh sq. yards; khadi-woollen 0.94 lakh sq. yds.; khadi self-sufficiency 11.06 lakh sq. yds. (The last four figures relate to the financial year 1956-57.)

The most important cottage and small-scale industries are Tie and Dye Fabrics, Gota Kinari (Silver and Gold lace), Lacquer wooden toys, Handmade paper, Papier Maché toys, Gem cutting, cloth printing, manufacture of tools and implements, Embroidered shoes (Jutiyan) and leather bags, water bottles (Hadisa) and handloom weaving.

Among the chief exports are salt, wool, woollen fabrics, raw cotton, oilseeds, ghee, marble and sandstone, hides, printed cloths, camels, cattle, sheep and goats. The main imports include food grains, cotton piece goods, sugar, metals, timber and benzene oil. The principal trade centres are the capitals of the former States.

AGRICULTURE

Main Food Crops of the State: (a) Kharif Crops: Rice, Bajra, Jowar, Pulses and Maize; (b) Rabi Crops: Wheat, Barley and Gram. Main cash crops of the State: (a) Oil seeds—Sesamum, Rapeseed and Mustard, Linseed and Groundnut; (b) Cotton; (c) Sugarcane; (d) Tobacco.

Production of Food Crops in thousand tons (1956-57): (1) Cereals: Bajra 637; Jowar 212; Maize 324; Wheat 1,315; Barley 710; Rice 86; Small Millets 29; (2) Pulses: Gram 1,171; Tur 6; other Rabi pulses 5 and other kharif pulses 379.

Production of individual cash crops in thousand tons (1956-57): (a) Oil seeds Sesamum 91; Groundnut 38; Rapeseed and Mustard 110; Linseed 44; (b) Cotton (thousand bales) 168; (c) Sugarcane 679 tons in terms of gur; (d) Tobacco 5; (e) Chillies (dry) 11; (f) Potatoes 4.

Land Utilization (in thousand acres) 1956-57: Total geographical area according to village papers: 84,449; Net area sown: 30,702; Fallow land: 13,736; Land not available for cultivation: 14,832; other uncultivated land excluding fallow land: 21,626; Forests: 3,553; Area sown more than once 3,178; Total cropped area: 33,880.

Area under crops in thousand acres (1956-57): Bajra: 9,303; Jowar: 2,109; Wheat: 3,347; Maize: 1,238; Barley: 1,447; Small Millets: 185; Rice: 230; Gram: 3,813; Tur: 44; Other Rabi Pulses: 29; Other Kharif Pulses: 4,897; Sesamum: 1,183; Rape and Mustard: 657; Linseed: 376; Groundnut: 109; Cotton: 550; Sugarcane: 83; Tobacco: 22; Chillies (dry): 53; Potatoes: 3.

Fish: Variety of Fish produced: There are large numbers of tanks, lakes and rivers in which inland fishes are found. The main species are the major carps, viz. Rohu, Nares, Marigal, Kalbasa, Katla and other varieties, e.g., Puli, Lanchi, Sole, etc. are also found.

Land Reclamation:

Number of tractors available: 1,464.

Extra food production achieved by 1955-56 as compared to 1951-52: 3.3 lakh tons.

Number of veterinary experimental stations: There is one Pathology Laboratory at Bikaner.

Agriculture and veterinary education: Veterinary College, Bikaner. Five Basic Agriculture Training Schools started at Sawal Madhopur, Udaipur, Kotah, Sumrampur and Bhillai with total strength of 480 students. Besides, there are two extension centres for V.L.W.'s with a capacity of 100 students each.

COMMUNITY DEVELOPMENT AND NATIONAL EXTENSION SERVICE

Total number of blocks upto the end of March 1958: 102.

Total number of C. D. Blocks: 88; N.E.S. Blocks: 52; Post Intensive Blocks: 12.

Total number of villages covered: 15,651.

Total area covered: 47,997 sq. miles.

Population covered: 66,00,000 lakhs.

Expenditure incurred on Community Development and National Extension Service (1957-58): Rs 185.07 Lakhs.

Progress of Community Projects (1956-57): (Compost pits dug (1955-56) 62,907.

Fertilizer distributed: 84,510 mds.

Net area irrigated under Reclamation scheme: 17,902 acres.

Wells constructed: 4,763.

Wells renovated: 3,332.

Drinking water wells constructed: 1,404.

Drinking water wells renovated: 1,155.

Roads constructed: 2,357 miles.

Village houses constructed: 6,403.

People's participation: Rs. 167 lakhs.

FORESTS

Total forest area in State (1956-57): 35,53,000 acres

Main types of forests: Teak, Bamboo, Dhokara (Brewood) and Khair.

Total revenue from forest for 1956-57: Rs. 62,22,297.

Total expenditure: Rs. 47,78,043.

Main forest produce: Timber, Firewood, Charcoal, Bamboos, Grass, Aawal bark, Kathar Gum and Tendu leaves.

LIVESTOCK

Total number of cattle: 12,072,713. Breeding bulls 2,578,049; Breeding cows 4,414,370; Youngstock 4,400,294. Buffaloes: 3,439,449; Horses and Ponies: 112,636; Sheep: 7,372,005; Goats: 8,780,163; Donkeys: 190,237; Camels: 436,237; Pigs: 72,030; Mules: 616.

Total livestock: 32,426,976.

Poultry: 457,394

Number of Veterinary Hospitals: 68 and dispensaries 182.

Artificial Insemination Centres: 21.

Key Village Centres: 126

Mobile dispensaries: 11.

Mass Immunisation Centres: 7.

LAND TENURE

Land Tenure Systems in the State:

There are three kinds of land tenure in the State viz., Ryatwari, Jagirdari and Zamindari.

The Rajasthan Tenancy Act aims at introducing a uniform Tenancy Law for the whole of the State and will remove the diversity of conditions prevailing in different parts of Rajasthan in respect of Land Tenures and relations of tenants and landlords or tenants and Government.

The Rajasthan Land Reforms and Resumption of Jagirs Act, 1952 was enacted for the resumption of Jagir Lands, with the exception of jagirs utilized for the maintenance of any place of religious worship or for the performance of religious service. An Amendment was enacted in 1954. It contains provisions for allotment of Khudkast land to Jagirjars and removes the exemption from resumption to Jagirs with annual income below Rs 5,000. It provides for a scale of compensation including rehabilitation grant.

The Act came into force from 15th February 1952. Resumption of Jagirs was started immediately after the Amendment Act was passed on 15th June 1954.

The present position regarding resumption of jagirs is that all jagirs with an annual income of Rs. 200 or more in the former United State of Rajasthan, and all settled jagirs with an annual income of Rs. 500 or more in the pre-reorganised State of Rajasthan have been resumed.

The number of jagirs thus resumed is 8,254 with an estimated annual income of Rs. 262 lakhs. The total estimated rental income of all jagirs is Rs. 3.34 crores. Of an estimated total of Rs. 36 crores payable as compensation in 15 years, a sum of Rs. 410 lakhs has been paid as compensation.

About 170,000 petty jagirs, with an aggregate annual income of Rs. 70 lakhs, are yet to be resumed in Rajasthan. Also to be resumed are 5,000 jagirs of minor zamindars and maulwars in the former Ajmer State, with an annual income of about Rs. 2,00,000.

Source of acquisition of compensation money: From the resources of the State with the assistance of the Central Government.

How the tenants are helped to acquire the land so released: Rules have been framed from time to time for allotment of land with a view to encouraging Grow More Food. These were revised in 1958 to make better provision for allotment of land to landless persons and agricultural labourers.

The State Legislature has passed an Act for abolition of religious jagirs also on payment of a perpetual annuity equal to the net annual income.

Every tenant and sub-tenant is entitled to retain an area which yields a net annual income of Rs. 1,200 exclusive of the cost of labour of the tenant and his family. The excess land held by the tenant, if any, could be resumed for personal cultivation by the landlord within two years. The rent is not to exceed one sixth of the gross produce.

The Land Revenue Act, enacted in 1956, consolidated land laws, it regulated the appointment and powers of revenue courts and revenue officers for the preparation and maintenance of maps and land records, settlement of revenue and rents, and partition of estates.

Among other enactments may be mentioned the Jagiriar's Debt Reduction Act, the Relief of Agricultural Indebtedness Act and the Agricultural Loans Act.

The Agricultural Rents Control Act, limited the rent payable to the zamindar to twice the land revenue.

The Tenancy Act, 1955 ensured security of tenure. The law recognised only three kinds of tenants, khattidar tenants, tenants of khudkash and ghair-khattidar tenants.

The fragmentation of holdings was undone by the Holdings (Consolidation and Prevention of Fragmentation) Act, 1954.

The Bhoodan Yagna Act was passed in 1954 and the Bhoodan Yagna Board created by it started functioning in January 1955. During 1957 the Board received 10,503 acres of land from as many as 588 donors. It has distributed 4,131 acres of land among 584 families.

The majority of the holdings in Rajasthan are below ten acres each and, naturally, uneconomic. The number of holdings less than an acre in area is more than 432,000 and of the 268,000 acres these cover, 50,000 acres are cultivated by subtenants.

Holdings of 1,000 acres and above number 500 (and amount for 1,082,316 acres), those between 50 and 100 acres 119,050, those between 10 and 100 acres 38,283 and those between 100 and 1,000 acres 28,505. The average holding is now estimated at 15 acres.

The Lands Summary Settlement Act, 1953, empowered the State Government to undertake summary settlement in unsettled areas and to fix cash rents for land holdings, as an interim measure.

Unoccupied Government land, comprising cultivable waste and land temporarily cultivated, is estimated at 14 million acres and the number of landless cultivators 375,000. There is, thus, enough land with the Government for allotment to landless agriculturists.

Persons to whom this land is to be allotted: The landless peasants for Khudkash.

The Assembly passed the Rajasthan Zamindari and Bhawadari Abolition Bill on December 11, 1954. The President gave his assent to the Bill in February 1955.

The Bill seeks to abolish zamindari and his feudal estates in Rajasthan as recommended by the State Zamindari Abolition Committee.

IRRIGATION

Net irrigated area in the State: 3,400,000 acres (1956-57).

Net irrigated area by sources (1956-57): Canals 600,000 acres; tanks 408,000 acres; wells 2,218,000 acres; other sources 94,000 acres.

Gross irrigated area under crops (1956-57): Food crops 3,450,000 acres; Cotton 328,000 acres; Sugarcane 70,000 acres; others 420,000 acres.

Area irrigated more than once: 693,000 acres.

Names of irrigation projects in operation in the respective divisions showing the area irrigated:

Jaipur Division: Madar: 500 acres; Fateh Sagar Lake with channels: 500 acres; Swaroop Sagar and Pichola with Channels: 350 acres; Bhupal Sagar Tank: 2,200 acres; Jalsamand Lake: 13,000 acres.

Kankroli Division: Rajasamand: 6,000 acres; Nahar Sagar: 3,800 acres; Unmied Sagar: 4,400 acres.

Kodah Division: Unmied Sagar tank including Ramgarh Canals: 5,300 acres; Eklera Sagar: 2,400 acres; Parvati Canals: 11,500 acres.

Jaipur West Division: Chappewara: 5,200 acres; Kalakh Sagar: 3,400 acres; Tori Sagar: 4,450 acres.

Jaipur East Division: Sainthal Sagar: 1,900 acres; J. Ramgarh: 5,250 acres; Madho Sagar: 2,000 acres; Mansarovar: 1,490 acres; Galal Sagar: 40 acres; Dhill: 5,100 acres.

Jawai Division: Jawal: 32,000 acres; Surpura: 600 acres; Jawant Sagar: 2,000 acres; Sumair Samand: 1,600 acres.

Matya Division: Sikri: 9,000 acres; Jalsamand: 3,760 acres; Jal Sagar 600 acres; Mangahar: 830 acres; Boochara: 3,000 acres; Ajan Bund: 2,300 acres; Pichuna Canal: 10,000 acres; Ramnagar Tank & Canal: 5,000 acres; Urmila Sagar Tank & Canal: 3,500 acres; Tal-Shahd Tank and Channel: 400 acres.

Ganganagar Division: Gang Canal: 638,000 acres.

Central Sector works in progress: The names of the schemes giving within brackets the cost in lakhs, expenditure upto end of March 1956 and the area to be irrigated on completion: Bhakra (Rs. 447.39 lakhs; Rs. 339.51 lakhs; 570,000 acres); Chambal (Rs. 1,927.61 lakhs; Rs. 187.57 lakhs; 5,50,000 acres).

In 1956-57 three major canals namely Gang Canal, Bhakra and Ghaggar irrigated 691,548 acres, 92,550 acres and 12,336 acres of land respectively.

New Works

Statement showing new works prepared to be taken up during the Second Five-Year Plan:

Multi-purpose schemes showing within brackets the location, estimated cost and area to be irrigated on completion: Bhakra Nangal* (Ganganagar District; Rs. 2,275.00 lakhs; 570,000 acres); (i) Works in Rajasthan (Rs. 447.39 lakhs); (ii) Share of common works (Rs. 1,927.61 lakhs); Chambal Project (Kota and Bundi; Rs. 3,414.25 lakhs; 550,000 acres); (i) Kota Barrage, Rs. 382.55 lakhs; (ii) Right main canal, Rs. 1,046.09 lakhs; (iii) Left canal, Rs. 219.44 lakhs; (iv) Rana Pratap Sagar dam, Rs. 1,766.19 lakhs.

Major and medium works showing within brackets the cost in lakhs of rupees, the potential annual irrigation in acres and probable or actual dates of completion: Banas (Rs. 480 lakhs; 225,000 acres); Jakhm (Rs. 117 lakhs; 53,000 acres); Mahi (Rs. 315.76 lakhs; 70,000 acres); Berach Badgaon (Rs. 93.77 lakhs; 18,290 acres); Berach at V. Nagar (Rs. 49.47 lakhs; 14,000 acres); Wagana* (Rs. 64.95 lakhs; 20,000 acres); Alula (Rs. 35.45 lakhs; 11,770 acres); Sabi (Rs. 25 lakhs; 48,000 acres); Khari Feeder (Rs. 20 lakhs; 8,000 acres); Khari Storage (Rs. 30 lakhs; 8,000 acres); Bundi (Rs. 26 lakhs; 4,000 acres); Sukli (Rs. 18 lakhs; 8,000 acres); West Banas (Rs. 48.75 lakhs; 13,364 acres); Manohar Thana (Rs. 95 lakhs; 50,000 acres); Sawan Bhadon (Rs. 11 lakhs; 10,000 acres); Narayan Sagar (Ajmer) (Rs. 38.13 lakhs; 8,000 acres); Bharatpur Feeder from Agra Canal (Rs. 14.76 lakhs; 18,000 acres); Parbati in Bharatpur District (Rs. 87.10 lakhs; 37,000 acres; During 2nd Plan period); Mejai* in Bhilwara District (Rs. 50 lakhs; 30,000 acres; 1958); Gudha* in Bundi District (Rs. 42.35 lakhs; 30,700 acres; 1954-59); Jawar* in Pali District (Rs. 300 lakhs; 46,000 acres; almost completed except minor works expected to be completed in 1958-59).

Names of other schemes, irrigation benefits in acres and probable or actual date of completion respectively:

Continuing Schemes: Kallid: 14,000; 1958-59; Morel: 24,000; 1958; Juggar: 9,000; 1954-59; Lailbarka Naka: 7,000; 1958-59; Rangolia: 7,000; 2nd Plan period; Gambheri: 33,000; Second Plan period; Sareli: 22,000; Second Plan period; Arwar: 22,000; Second Plan period; Khari: 26,000; Second Plan period; Namona: 13,000; 1954-59; Ora: 9,000; 1958; Galwa: 17,000; Second Plan period; Masli: 13,000; Second Plan period; Parwana: 3,000; Second Plan period; Kallidindh: 30,000; Second Plan period; Bhinnsagar: 16,000; Second Plan period.

Second Plan Schemes: New tank on Lahasaria: 5,000; Second Plan period; Bharatpur Feeder: 18,000; Second Plan period.

Minor irrigation works: Area to be irrigated: 212,000 acres.

Cost of New Minor Irrigation Works in the agriculture sector financed by the Ministry of Food and Agriculture: Rs. 247.31 lakhs.

Number of wells constructed during the First Five-Year Plan: 25,000.

Scarcity area works*: cost Rs. 340.25 lakhs; area to be irrigated: 267,600 acres.

Rajasthan Canal

Rajasthan Canal Construction: The Government of India has decided to take up the construction of the Rajasthan Canal from the Harkis barrage across the Sutlej. The Governments of Rajasthan and the Punjab have accordingly started making preliminary arrangements for the execution of the scheme. Excavation work has begun near Hanumanagar situated in the midst of arid regions of the State (April 1959).

The Rajasthan Canal, which is a Second Five-Year Plan project, will have a discharge of 18,500 cusecs at the head. About 425.8 miles in length, it will benefit extensive areas in Ganganagar, Bikaner and Jaisalmer Districts of Rajasthan State. The project will be developed in two stages.

The main canal will be in two parts (a) Rajasthan Feeder 134.2 miles long (110.8 miles in Punjab and 23.4 miles in Rajasthan); (b) Rajasthan Canal 291.6 miles long lying entirely in Rajasthan territory.

Estimated† to cost Rs. 66.47 crores, the canal will provide irrigation facilities to a gross area of 5.11 million acres, with a total culturable commanded area of 3.36 million acres (by flow). On full development the area irrigated annually will be about 2.62 million acres, yielding about one million tons of crops annually valued at Rs. 30 crores.

The building of this canal will involve 6,700 million cft. of earthwork and 180 million sq. ft. of lining for the main canal only and will create employment for over half a lakh of people during construction period. The project will bring under irrigation a large desert area.

Direct revenue from this project after full development of the area in the pre-storage period will be about Rs. one crore by way of water rates only. Betterment levy will bring to the exchequer Rs. 45 crores and sale of Government waste land another Rs. 67 crores. Indirect revenue such as rise in income from income-tax, excise, posts and telegraphs, railway, etc. will also be considerable.

* These estimates are likely to be changed as proposals have been put up by the C.E. Irrigation to the Government to make it a lined canal instead of unlined as at present.

POWER PROJECTS

Installed capacity (1959): 43,787 kW.

Position in 1957: (in thousand k.w.h.).

Electricity Generated: Steam or Gas—66,013; Diesel 27,587.

Electricity purchased from non-electric utilities—166.

Total electricity generated and purchased—93,760.

Electricity sold to ultimate consumer—67,240. Electricity sold as percentage of electricity generated 71.7.

K.w.h. generated per thousand of population—5,861.

K.w.h. generated per square mile—704.

Names of power stations in operation with their effective capacity in kW and production during 1956-57 in units in brackets: Jaipur (5,200 kW; 25,520,947 units); Bikaner (4,500 kW; 17,788,162 units); Jodhpur (3,000 kW; 12,535,233 units); Alwar (250 kW; 1,111,387 units); Bharatpur (935 kW; 1,078,788 units); Bhilwara (75 kW; 120,000 units); Deeg (40 kW); Dholpur (180 kW; 1,000,000 units); Dungarpur (80 kW; 492,997 units); Jaisalmer (60 kW;

* Irrigation already started.

75,028 units); Jhalawar (45 kW; 232,226 units); Karauli (25 kW; 138,641 units); Kishanganar (60 kW; 9,000 units); Shri Ganganagar (900 kW; 2,277,578 units); Kotah (3.24 kW; 3,513,780 units); Newai (80 kW; 104,786 units); Nagwara (7 kW; 13,500 units); Shahpura (8 kW; 44,164 units); Tonk (100 kW; 457,739 units); Hindon (30 kW; 24,357 units); Sikar (60 kW; 6,742 units) Total consumers on 31-12-1956—48,468

The extensions of the existing power stations at Jaipur, Bikaner and Jodhpur have been completed.

In addition to the above 21 Government-owned power houses there were privately-owned power houses at the end of 1956-57 at the following places: Bundi, Jodhpur, Pali, Rajgarh, Sirahi, Abu Road, Bhawanmandi, Ladnu, Nawalgarh, Pratapgarh, Banwara, Hanumanagar, Surtgarh (Garhi), Nathdwara, Pilani, Merta, Phalodi, Kuchaman, Ajmer and Beawar.

Under the development of thermal power stations scheme, Kishanganar and Bhilwara were completed resulting in additional installed capacity of 600 kW. Work on Bharatpur and Alwar stations was nearing completion.

The scheme of rural and urban electrification provides for the installation of diesel and steam generating sets providing 6,400 kW installed capacity along with transmission and distribution lines for 270 miles by the end of the Second Plan.

The plant and equipment for this programme is being obtained under the Technical Co-operation Mission Aid Programme for which 1.00 million dollars have been provided.

Under the urban and rural electrification scheme to provide employment opportunities, 7,100 kW generating capacity is going to be added by 1958-59.

Bhakra Nangal Project. A total firm power amounting to 105,000 kW would be available for Rajasthan in the post-Bhakra Stage. Share of Rajasthan in the Bhakra Nangal Project is 2 per cent. The canal system of the project will command an area of 9,00,000 acres in Rajasthan.

Summary of the total capital cost upto the end of 1963-64 of the whole project for Rajasthan would be about Rs. 829,026 lakhs.

Estimated rise in output after completion 15,000 kW by the end of the 10th year of operation. For more details see Bhakra-Nangal under article "Irrigation".

Chambal Hydro-Electric Scheme. It is a multi-purpose scheme and will serve 29 localities in Rajasthan. The project has been divided into three stages. The first stage will comprise the Gandhi Nagar Dam and the Kotah Barrage and a network of canals on either side of the barrage for irrigating 11 lakh acres in Madhya Pradesh and Rajasthan. Power generation in the 1st stage will be 75,000 kW and the total area to be irrigated would be 5.5 lakh acres in Rajasthan. The revised cost of stage I is estimated at Rs. 61.59 crores. For more details see under "Irrigation".

The project will be financed by the Madhya Pradesh and Rajasthan Governments.

CO-OPERATION

(June 30, 1957)

Total number of Co-operative Societies: 9,082
Total membership: 343,843
Total working capital: Rs. 59,95,180.
Total share capital: Rs. 1,48,76,008.
Loans advanced: Rs. 4,40,17,327.
Recoveries made: Rs. 3,42,69,700.
Loans due: Rs. 4,19,11,956.
Purchases: Rs. 95,23,479.
Sales: Rs. 86,82,618.

Types of Co-operative Societies and their number (membership within brackets):

State Co-operative Bank 1 (334), Central Financial Institutions 24 (11,353), Central Non-credit Societies 60 (3,620), Central Land Mortgage Banks 2 (749), State non-credit Societies 2 (25), Co-operative Institutions 3 (134), Agricultural Credit Societies: 5,452 (1,82,508), Agricultural Non-credit Societies:

1,489 (14,241), Primary Land Mortgage Banks 22 (1,899), Non-agricultural Credit Societies 271 (27,237), Non-agricultural Non-credit Societies 2,048 (93,689), Societies under liquidation: 708 (10,614).

MEDICAL & PUBLIC HEALTH

In 1957, the State had about 243 hospitals, 269 dispensaries, 65 maternity and child welfare centres, 94 maternity hospitals, 435 wards in ladies and other hospitals, 2 leprosy hospitals with 95 beds, 3 mental hospitals with 264 beds, 2 isolation hospitals with 74 beds, 243 other hospitals with 5,282 beds. There were 979 doctors, 517 nurses, 718 midwives, 1,698 compounders, 299 sanitary inspectors, 347 vaccinators, 64 health visitors and also malaria surveyors, functioning in the State.

Patients treated in Government hospitals and dispensaries (1957) indoor 157,563, outdoor 8,78,105.

There is only one medical college the Rawal Mansingh Medical College at Jaipur.

TRANSPORT

Position in 1956-57:

Total mileage of roads: 14,556
Cement concrete roads: 23 miles.
Mileage of black topped roads: 2,338.
Mileage of metalled roads: 3,900
Mileage of gravelled roads: 2,961
Mileage of fair weather roads: 5,247.
Total number of Aerodromes: 5.
Total vehicles: 18,948
Number of taxi-cars: 85.
Number of motor cycles, etc.: 1,222
Number of private cars, buses, etc.: 8,048
Number of public carriers: 3,828
Private carriers: 1,142
Number of stage carriages: 2,809.
Others including tractors: 1,814.

LABOUR

Number of registered factories at the end of 1957: 412

Licensed maximum employment: 64,260

Names of important labour laws enforced in the State: Workmen's Compensation Act, 1923, Indian Trade Unions Act, 1926, The Payment of Wages Act, 1926, The Industrial Disputes Act, 1947, The Minimum Wages Act, 1948, The Indian Factories Act, 1948, Employees' Provident Fund Act, 1952, Employees' State Insurance Act, 1948, Industrial Employment (Standing Orders) Act, 1946, Indian Boiler Act, 1921, Rajasthan Maternity Benefit Act, 1951, Employment of Children Act, 1936, Weekly Holidays Act, 1942, Ajmer Shops and Commercial Establishments Act, 1956.

Number of trade Unions in State: 186 (December 1957)

Total membership: 36,375 (December 1957)

Industrial Disputes (1956-57): Disputes: 21, Workers involved: 10,148. Mandays lost: 106,208

Sixteen Labour Welfare Centres have been opened at Jaipur, Bhilwara, Pali, Sri Ganganagar, Bawal, Madhopur, Alwar, Kotah, Jodhpur, Jaisalmer, Chandel, Bikaner, Bundi, Bhajpura, Tonk, Beawar and Lakhari.

No. of labourers benefited upto 1956-57: 17,887
No. of children benefited upto 1956-57: 6,656

State Insurance was extended on 12th December 1956 to six Centres: Jaipur, Jodhpur, Pali, Bikaner, Bhilwara, Lakhari.

The Insurance was extended to Bawal Madhopur with effect from March 1, 1958. About 2,500 factory workers in this area will get the benefits of the State Insurance Act.

No. of factories covered (1956-57): 70
No. of workers benefited (1956-57): 17,179

Medical care at Bawal Madhopur will be provided by the State Government under the service system, for which one whole-time dispensary has been set up. For payment of cash benefits under the scheme, a sub-local office has been opened.

The employers of factories covered by the scheme will be required to pay their special contribution at 1½ per cent of the total wage bill.

Twelve Employment Exchanges function at Jaipur, Jodhpur, Kotah, Bikaner, Bhilwara, Ajmer, Alwar, Bharatpur, Bawal, Madhopur, Sri Ganganagar and Pali.

Number of applicants on live register: 19,779, Registration: 61,716, Placings: 8,135 (upto December 1957)

EDUCATION, 1956-57

(See under main article on Education for more statistics)

General Education (1956-57):

Centres for social education: 1,511

Number of teachers available: Teachers are provided in these centres on an honorarium of Rs. 15 and Rs. 20 for males and females respectively.

Number of adults under training: 73,085

Elementary education is not compulsory. It is free throughout the State.

Place of language in the education system: Regional language is not in force. Hindi is compulsory. English is compulsory after VI. Hindi is the medium of instruction.

The following is a list of the types of institutions showing within brackets the number of institutions in each type, the number of teachers and the number of students respectively: Senior High Schools (10) 4,584, Junior High Schools (48) 1,900, 4,830, Middle Schools (981) 9,009, 1,04,046.

RAJASTHAN FINANCIAL CORPORATION

Jaipur, Mansarovar, Mirza Ismail Road, Post Box No. 64, Jaipur

The Corporation has an authorised capital of Rs. 2 crores, divided into two lakh shares of Rs. 100 each. Only one lakh shares were issued and fully paid up. The position of shares held by various classes of shareholders as at March 1958 was as follows: State Government: 30,200, Reserve Bank of India: 21,000, Scheduled Banks, Insurance Companies and other financial institutions: 48,260, and parties other than the above: 4,550. The object of the Corporation is to provide financial assistance to medium and small scale concerns in the state.

Chairman, Board of Directors: Ram Nath A. Poddar

Managing Director: S. B. I. Bhargava

Directors: G. S. Puri, A. K. Roy, G. D. Sonant, L. N. Birla, K. C. Mittal, D. R. Madhok, P. G. Mehta and P. V. Shrikanta Rao.

The Corporation sanctioned loans amounting to Rs. 76,90,000 to 35 industrial concerns by the end of March 1959. Of this amount a sum of Rs. 46,51,700 was disbursed by the Corporation till the end of March 1959.

During 1958-59 the Corporation made a net profit of Rs. 3,70,088.10 nP as compared to Rs. 3,67,826.22 nP made during 1957-58, subject to taxation.

SECOND FIVE-YEAR PLAN †

The total allotment for the Second Five Year Plan for Rajasthan State: Rs. 10,27 crores. Plan allotment for 1956-57: Rs. 20.46 crores. Expenditure during 1956-57: Rs. 13.68 crores. Allotment for 1957-58: Rs. 21.54 crores. Expenditure for 1957-58: Rs. 15.26 crores.

Irrigation

The following are the more important irrigation projects giving the total estimated cost, the area to be irrigated and the amount expected to be spent during the Second Five Year Plan period.

Banas Irrigation Project (Aharpur), cost Rs. 4.90 crores, area to be benefited: 1 lakh acres in Bhilwara, Ajmer, Tonk and Bundi Districts. Expected to be completed by 1967.

Mahi Project, cost Rs. 3.16 crores, will irrigate 70,000 acres in Banwara District, Rs. 94 lakhs allotted for the 2nd Plan.

† See also 'Second Five-Year Plan' under 'Late Particulars'.

Rampratapagar Dam; cost Rs. 2.92 crores (Rajasthan's share); will irrigate 1.5 lakh acres; Rs. 50 lakhs to be spent during 2nd Plan; completion 1968-69.

Jakhm Irrigation Project; cost Rs. 117 lakhs; will irrigate 53,000 acres in Udaipur District; completion 1963; Rs. one crore to be spent and 15,000 acres to be irrigated during 2nd Plan.

Wagan Project; cost Rs. 64.95 lakhs; will irrigate 20,900 acres in Chittorgarh District; completion during 2nd Plan.

Rajasthan Canal and Bhakra Nangal—See under Irrigation and Power under this State.

JAIPUR MUNICIPALITY

The civic affairs of Jaipur are looked after by the Jaipur City Municipal Council consisting of 40 elected and four nominated members.

The Municipality's revenue and expenditure figures for 1967-68 were respectively Rs. 21,88,308 and Rs. 30,80,000.

President: Bhyam Bihari Lal Saxena.
Vice-President: Rai Chand Vaid.

Municipal Commissioner: Bhawanil Shankar Sharma, R.A.N. (on deputation).

Health Officer: Dr. A. M. Nagpal.
Municipal Engineer: D. K. Kripalani.
Revenue Officer: Mohan Lal Sharma, B.Com.
Assessment Officer: K. C. Mathur.

UNIVERSITY OF RAJASTHAN

Chancellor:
Gurunukh Nihal Singh, Governor of Rajasthan.

Vice-Chancellor:
G. C. Chatterjee, M.A. (Pun.), B.A. (Cantab.),
Registrar: K. L. Varma, M.A.

DEANS OF FACULTIES

Arts: Dr. M. L. Sharma, M.A., D.Litt., Head of the University Department of History, Jaipur.

Science: Dr. S. M. Mitra, D.Sc., Principal, Birla College of Science and Commerce, Pilani.

Commerce: C. B. Gupta, M.A., M.Com., Principal, Seth G. B. Podar College, Nawalgarh.

Law: Dr. G. S. Sharma, LL.M., J.S.D., Principal, University Law College, Jaipur.

Engineering: Vacant.
Medicine, Pharmacology and Veterinary Science: Vacant.

Education: K. K. Chaturvedi, M.A., LL.B., T.Dip. (Lond.), B.Ed. (Kolln.), Principal, Government Teachers' Training College, Bikaner.

Professor of Economics: M. V. Mathur, M.A., B.Com., M.P.A. (Harvard), University Professor of Economics and Head of the Deptt. of Economics and Public Administration, Jaipur.

Professor of Philosophy: Padma Bhushan Dr. P. T. Raju, M.A., Ph.D., University Professor of Philosophy, Jawant College, Jodhpur.

Professor and Head of the University Deptt. of History: Dr. M. L. Sharma, M.A., D.Litt., University Professor of History, Jaipur.

Principal, University Law College, Jaipur: Dr. G. S. Sharma, LL.M., J.S.D.

Total number of colleges affiliated to the University: 49.

Total number of male students in 41 colleges at the end of the Session 1967-68: 17,724.

Total number of female students in 41 colleges at the Session 1967-68: 2,813.

LIST OF AFFILIATED COLLEGES

Maharaja's College, Jaipur.
Maharani's College, Jaipur.
Commerce College, Jaipur.
Rajasthan College, Jaipur.

Birla College of Arts, Pilani.
Birla College of Science and Commerce, Pilani.
Seth G. B. Podar College, Nawalgarh.
Jawant College, Jodhpur.
Dangar College, Bikaner.

Lohia College, Churu (Bikaner Division).
Maharaja Bhupal College, Udaipur.
Government College, Kotah.
Raj Rishi College, Alwar.

M. S. J. College, Bharatpur.
S. K. N. Government College of Agriculture, Jobner (Jaipur Division).
Maharaj Kumar College, Jodhpur.

Government College, Sri Ganganagar (Bikaner Division).
Teachers' Training College, Bikaner.

Vidya Bhawan Govindram Seksaria Teachers' Training College, Udaipur.

Basic Teachers' Training College, Sardarsahar.
Sawal Man Singh Medical College, Jaipur.
Birla Engineering College, Pilani.

Mugsee Ram Bangur Memorial Engineering College, Jodhpur.
Shree Swaroop Govind Pareek College, Jaipur.

B. J. S. R. Jain College, Bikaner.
M.S. College for Women, Bikaner.

Rajmahal Girls' College, Jodhpur.
Rajasthan Mahila Vidyalyaya, Udaipur.

Government College, Bhilwara.
Government College, Sirohi.

Shri Jain College, Bikaner.
Agarwal College, Jaipur.

Rajasthan College of Veterinary Science and Animal Husbandry, Bikaner.

Rajasthan College of Agriculture, Udaipur.
Shramjivi College (Night Degree College), Rajasthan Vidyapeeth, Udaipur.

Government College, Ajmer.
Kavitri Girls' College, Ajmer.

D. A. V. College, Ajmer.
S. D. Government College, Beawar.

Government Teachers' Training College, Ajmer.
Banasthali Vidyapeeth, Banasthali (Jaipur).

Hangur College, Dlodwana.
Shri Rajendra College, Jhalawar.

Maharani's Girls' College, Kotah.
Government College, Banawara.

S. K. College, Nigar.
S. P. U. College, Falna.
Seth Motilal College, Jhunjhunu.

Chirawa College, Chirawa.

COMMERCIAL, EDUCATIONAL, RELIGIOUS SOCIETIES, INSTITUTIONS, Etc.

AJMER MUSIC COLLEGE

Malpua Road, Ajmer.
President: Mr. Bhag Chand Sood; *Secretary:* M. C. Saxena, *Principal:* Govindrao Rajurkar.

BANANTHALI VIDYAPITH

P.O. Banasthali Vidyapith.
President: Pt. Hira Lal Shastri; *General Secretary:* Hmt. Ratan Shastri; *Education Secy.* Prem Narain Mataru; *Management Secy.* Prakash Chandra Goyal.

BASKETBALL FEDERATION OF INDIA

C/o Nagina Bagh, Ajmer.
President: Ashwini Kumar; *Secretary:* Mehar Singh; *Treasurer:* V. Byrappa.

BHARTIYA LOK KALAMANDAL

Udaipur.
President: R. R. Diwakar; *Director:* D. L. Saman; *Vice-President:* G. D. Somani.

BIKANER VYAPAR MANDAL

K.K.M. Road, Bikaner.
President: Makhan Lal Damani; *Secretary:* Duryant Gupta.

BIKANER WOOL TRADERS ASSOCIATION

Near Daga High School, Bikaner.
President: Chajpalal Rias; *Members:* Shivkishan Thanvi; *Koshadhyaksha:* Ramkrishan Lohia; *U.P. Pradhan:* Chhotulal Kalia; *U.P. Mantri:* Jugal Kishore Agarwal.

CHAMBER OF COMMERCE

Rara Bazar, Udaipur.
President: D. P. Parikh; *Hon. Secretary:* C. S. Babel.

THE FAMILY PLANNING ASSOCIATION

The Domea, Ajmer.
President: Mrs. I. C. Bahree; *Hon. Gen. Secretary:* Dr. Marian B. Hall; *Treasurer:* Dr. J. T. Wells.

INDIAN MEDICAL ASSOCIATION

Kishen Pole Bazar, Jaipur.
President: Dr. B. N. Sharma; *Hon. State Secretary:* Dr. Tara Shankar Mathur.

JAIPUR CHAMBER OF COMMERCE AND INDUSTRY

Johri Bazar, Jaipur City.
President: Harish Chandra Golcha; *Vice-President:* Shantilal Durlabhji; *Hon. Secretary:* Purshotam Das Bhaiya.

THE JEWELLERS ASSOCIATION

Johari Bazar, Jaipur.
President: Sagermal Daga; *Vice-President:* G. C. Khinduka; *Hon. Secretary:* Dhanna Lal Juniwal.

JODHPUR BULLION MERCHANTS ASSOCIATION LTD

Khejerla House, Jodhpur.
Chairman: Pathechandji Parakh; *Secretary:* Man Mohan Chand Bapna, B.A. LL.B.

JOINT FAMILY MEDICAL RELIEF PROJECT STUDY CIRCLE

Haldiyon Ka Rasta, Jaipur.
Chief Sanitary Officer: Mrs. Kailash Ajmera; *Hon. Gen. Secretary:* Anand Lal Farwal.

MAHA BODHI ASHOKA MISSION (REGD.)

Religious and Social.
Dhamma Kuti, Buddha Vihara, Mayo Link Road, Ajmer.

The Institution conducts a journal entitled *Samyak Dristi* (Right View)—The trilingual International monthly. (*Editor:* Mrs. Quin Moi Rahula.

Founder Director: Rahula Suman Chhawara.
General Secretary: Mrs. Quin Moi Rahula.
Treasurer: Yad Ram Chaudhri.

MARWAR CHAMBER OF COMMERCE

Haider Bldgs., Sojoh Gate, Jodhpur.
President: Goverdhanlal Kabra.
Vice-Presidents: Mohanlal Gupta, K. C. Bhatia.
Hon. Secretary: Jivanlal Maheshwari.

PRESS OWNERS' ASSOCIATION

C/o Garg Printing Press, Hanuman ka Rasta, Jaipur.
President: Onkar Dayal Garg; *Vice-President:* Dwarkadas Ji; *Secretary:* Bhawarjal.

RAIL AND TRANSPORT PASSENGERS' ASSOCIATION

Prag Bhawan, Gejner Road, Bikaner.
President: P. Goswami; *Vice-President:* P. D. Bhargava; *Hon. General Secretary:* I. D. Bhargava.

RAJASTHAN ACADEMY OF SCIENCES

Birla College, Pilani.
President: Dr. S. M. Mitra, D.Sc.; *Secretary:* Prof. D. K. Santra, Ph.D. (Lond.), M. Pharm.; *Chief Editor of Proceedings:* Prof. B. N. Mulay, Ph.D., F.R.S.

RAJASTHAN CHAMBER OF COMMERCE AND INDUSTRY

Jobari Bazar, Jaipur City.

Objects: To encourage friendly feelings, co-operation and unanimity among business and industrial community; to promote and protect the trade, commerce, industry and manufacture of Rajasthan or any part thereof; to collect and disseminate statistical and other information securing the promotion of the objects of the Chamber and to make efforts for the spread of commercial, industrial and economic knowledge; to take all steps necessary for supporting or opposing legislative or other action affecting the aforesaid interest by Government or the local body or bodies.

President: Sahu Shanti Prasad Jain; *Senior Vice-President:* B. D. Periwal; *Vice-Presidents:* M. G. Kabra, P. P. Singhal, H. C. Golcha, D. D. Khandiwai, M. D. Bhatti; *Hon. Secretary:* S. L. Bhargava; *Hon. Jt. Secretary:* T. Khandiwai; *Secretary:* S. K. Godha.

RAJASTHAN ELECTRIC SUPPLY COMPANIES ASSOCIATION

Kuchaman House, Jodhpur.

Chairman: M. G. Kabra; *Vice-Chairman:* B. N. Brahmwar.

RAJASTHAN INDUSTRIAL AND MINING ASSOCIATION

Pusa Nivas, Bhilwara.

President: Seth Satyanarainji Nathaney; *Vice-President:* Banshilalji Chowdhary; *Hon. Secretary:* L. D. Naithani.

RAJASTHAN INSTITUTE OF APPLIED SOCIOLOGY AND SOCIAL WORK

Todgarh Road, Beawar.

Director: K. Narain; *Dy. Director:* R. S. Maloo; *Administrative Officer:* Balraj Kataria.

RAJASTHAN LALIT KALA AKADEMI

Jobari Bazar, Jaipur.

Chairman: Baiya Ratna P. G. Mehta, *Hon. Secretary:* Dr. Satya Prakash.

RAJASTHAN SANGEET NATAK ACADEMY

Kuchaman House, Jodhpur

Chairman: Shah, Goverdhan Lal Kabra; *Vice-Chairman:* Govind Singh Mehta; *Secretary:* Komal Kothari, M.A.

RAJASTHAN SHIKSHAK SANGH

Bera Gangore Ka Basti, Jaipur.

An organisation of primary, secondary and university teachers of Rajasthan.

President: Gaurishankar Acharya; *Vice-Presidents:* P. C. Jain and Smt. Shakuntala Gupta

THE RAJASTHAN TEXTILE MILLS ASSOCIATION

Premises of the Jaipur Spg. & Wvg Mills Ltd. Jaipur.

Chairman: Ganeshnarayan R. Pudar; *Dy. Chairman:* Raghunath Dass Mangur; *Hon. Secretary:* Ghanshyam Dass Baidua

RAJPUTANA MINE-OWNERS & MINERAL MERCHANTS ASSOCIATION

Rang Mahal, Ajmer.

President: Chaudhri Numermal, *Vice-President:* Inderchand Rajgaria & Sons, *Hon. Secretary:* Maganlal Nagda.

RAJPUTANA MUSEUM

(ARCHAEOLOGY).

Ajmer.

Superintendent: U. C. Bhattacharya, M.A.

RANTRIYA KALA MANDAL

Kuchaman House, Jodhpur.

To create and foster interest in Indian classical music arts and other cultural subjects
Founder and Patron: Shah, Goverdhan Lal Kabra; *President:* Thakur Jitkrit Singh, I.A.S.; *Principal:* R. N. Ichalkaranjkar

SAHITYA SANSTHAN, RAJASTHAN VIDYAPEETH

Near Town Hall, Udaipur

Chancellor: Sunil Kumar Chatterjee, *Pro-Vice-Chancellor:* Janardan Ray Nagar, *Director:* Bhagwati Lal Bhatt

SALT TRADERS' ASSOCIATION LTD

Sambhar Lake

Secretary: Shantikumar Jain.

SARASWATI VIDYAPITH

Tipta, Kotah P.O.

President: Shital Prasad Mathur; *Secretary and Principal:* Dadashiv Pathak Bhastri

VIDYA BHAWAN RURAL INSTITUTE

Udaipur

Librarian: Shankar Bapna, M.Com, M.P. Lib. Sc

VIDYA BHAWAN SOCIETY

Udaipur.

Educational Society founded in 1931

Founder President: Dr. Mohan Misha Mehta; *President:* Pt. Hriday Nath Kunaru, *Hon. Secretary:* Lakshmilal Joshi.

VIAPAR MANDAL

C/o Amarchand Chuni Lal, Kutch Bazar, Tunk

President: Shahdeen Khan, *Secretary:* Ratan Lal Tak

THE WOOL MERCHANTS' ASSOCIATION

Mewari Bazar, Beawar.

President: Jagannath Malpani, *Vice-President:* Karandas M. Thacker; *Hon. Secretary:* Lachhmandas T. Nappa; *Jr. Hon. Secretary:* Sukhraj Kothari, *Treasurer:* Ravi Kumar Bihani.

COMMERCIAL FIRMS

A. Lalchand, Inside Sojatigate, Jodhpur.
 Amar Automobiles, Jalorigate, Jodhpur.
 Anand Theatres Ltd., Jodhpur.
 Arjun Medical & Provision Stores, Station Road, Jaipur (Rajasthan).
 Arora Bros., Station Road, Jodhpur.
 Arora Crockery House, Minerva Building, Railway Road, Jodhpur.
 Asari Brothers, opp. Railway Station, Jodhpur.
 Associated Films Distributors, Station Road, Jodhpur.
 Automobile Works, Railway Road, Jodhpur.
 Banklaxmi Moolraj & Co., Jalorigate, Jodhpur.
 Bansilal Chowdhral, Katia Bazar, Jodhpur.
 Bhandari Brothers, opp. Mahatma Gandhi Hospital, Jodhpur.
 Bharat General & Seed Stores, Minerva Building, P.H. No. 52, Jodhpur.
 Bharat Sewa Ashram, Jodhpur.
 Bhargava & Company, opp. Prem Prakash Talkies, Sawal Mansingh Highway, Jaipur (Rajasthan).
 Bhargava Scientific Corporation, Devi Bhawan, Kutchery Road, Ajmer.
 Bhatia Bros., Jalorigate, Jodhpur (Rajasthan).
 Bombay Watch Co., Inside Sojatigate, Jodhpur (Rajasthan).
 Boot Oil Mills, Industrial Area, Jodhpur.
 Bothra Film Exchange, H.O. Bikaner (Rajasthan).
 B. N. Bhargava & Bros., Station Road, Ajmer.
 Caltex Motors, Kutchery Road, Jodhpur.
 Central Radio & Service Co., Radio House, Ajmer.
 Chandra Industrial and Commercial Corporation, Kutchery Road, Jodhpur.
 Chitra Cinema, Mehta Market, Jodhpur.
 Chitraprakash Film Exchange, Ajmer Road, Jaipur City.
 Chopani Ice Aerated Water & Oil Mills Ltd., Jodhpur.
 Cinema Publishers, 2, Hyder Building, Sojatigate, Jodhpur.
 Delhi Furniture House, Station Road, Jodhpur.
 Delhi Mishthan Bhandar, Chaura Rasta, Jaipur.
 Dhamraj Madanlal Khatri, Khamdalaba, P.O. Box 11, Jodhpur.
 D. P. Bhargava, B.Sc., I.I.T., Advertisement Bookings, opp. Railway Station, Jodhpur.
 D. R. Sharma & Sons, Sojatigate, Jodhpur.
 Durgasingh & Sons, Gramophone Dealers, Sojatigate, Jodhpur.
 Dwarkadas Nathi, Nathi Book House, Jodhpur.
 East India Mineral Development Syndicate, Ltd., Jaipur.
 Eastern Motor Company, Station Road, Jodhpur.
 Electric Radio Corporation, Station Road, Jodhpur.
 Empire Store, Mirza Ismail Road, Jaipur.
 English Watch Company, Jalorigate, Jodhpur.
 Fatehraj Mauackchand Marmat, Katia Bazar, Jodhpur.
 Ferosepur Boot House, Station Road, Jodhpur.

Phone : 2425 Grams : FURNISHERS
GENERAL MARKETING COMPANY
 S. M. S. Highway, Jaipur.
 Stockists of
 Jute Carpets, Coir mats & Mattings, Linoleum, Plywood, Veneer Boards, Folding Chairs, Table Fans, etc.
 General Marketing Co., The, Jodhpur, (Rajasthan).
 General Marketing Co., Hind Hotel Building, Chaura Rasta, Jaipur City.
 Girdhar Ganesh Trading Co., Bhomiyonjiki-tihati, Jodhpur.
 Gopal Watch Co., Sojatigate, Jodhpur.
 Gotan Lime Syndicate, Gotan J. Railway (Jodhpur).
 Govindram Ramchand, Ajmer Road, Jaipur.
 Grand Hotel, Railway Road, Jodhpur.
 Gulabchand Nawalmal, Pall-Marwar, Phone : 2.
 Hari Narain Kacholia & Co., Mirza Ismail Road, Jaipur.
 H. G. Brothers, Watch Merchants, Tripolia Gate, Jaipur.
 Hind Mica Ltd., 12, Prithvi Road, Jaipur.
 Hindustan Engineering Works, Jalorigate, Jodhpur.
 H. S. Kishibux & Sons, Bangles Building, Jodhpur.
 India Agencies, Riyan House, Sojatigate, Jodhpur.
 India Radiogram Corporation, P.O. Box 63, Kutchery Road, Jodhpur.
 Indian Industrial Command, Kutchery Road, Jodhpur.
 Indra & Company, General Merchants, Station Road, Jodhpur.
 Industrial Command of India Ltd., Kutchery Road, Jodhpur.
 Jaipur Art Studio, Kutchery Road, Jodhpur.
 Jaipur Mineral Development Syndicate Ltd., Jaipur.
 Jaipur Paper Mart, Tripolia Bazar, Jaipur City.
 Jaipur Wine Stores, Mirza Ismail Road, Jaipur.
 Janta Medical Stores, Station Road, Ajmer.
 J.M.D.S. Cosmetics Ltd., Jaipur City.
 J. Santosh & Sons, Engineers & Contractors, Sojatigate, Jodhpur.
 Jodhpur Cloth Merchants' Association, Jodhpur.
 Jodhpur Dayal Bagh Stores, Jodhpur.
 Jodhpur Hosiery Mills, Sardarpura, Jodhpur.
 Jodhpur Zinc Metal Works, Jodhpur.
 Jorgendersons & Co., 36, Mehta Market, Jodhpur.
 Kachhwaha Brothers, Sojatigate, Jodhpur.
 Kaluram Shyamdas, opp. Ratanaia Bridge, Jodhpur.
 Kamla Optical Company, Station Road, Jodhpur.
 Karachi Cloth Stores, outside Sojatigate, Jodhpur.
 K. D. Framjee Marfatlal, Station Road, Ajmer.
 Khadi & Cottage Industries Ltd., Jodhpur.
 Khairatlal & Sons, Electric Dealers, Station Road, Jodhpur.
 K. H. Thanvi & Company, Jalorigate, Jodhpur.
 Kitalghar, outside Sojatigate, Jodhpur.
 Kuchaman Electric Co., Ltd., Jodhpur.
 Kuchaman Merchants' Association, Kuchaman City (Rajasthan).
 Kumbat Binding Works, Jodhpur

Lachoo Tailors, Sojatigate, Jodhpur.
 Laung Medical Stores, Sardar Market, Jodhpur.
 Laxmi Motor Co., Sojatigate, Jodhpur.
 Laxmi Pen Company, Jodhpur.
 Lokwant, The Hindi Daily of Rajasthan, Jaipur City.
 Madan Gopal Zaveri & Co., Tripolia Bazar, Jaipur City.
 Maharaja Shri Umald Mills Ltd., Pall (Rajasthan).
 Manmohan Opticals, Sojatigate, Jodhpur.
 Marudhar Industries Ltd., Jodhpur.
 Marudhar Stores, Station Road, Jodhpur.
 Marwar Cement Company, Station Road, Jodhpur.
 Marwar Cold Storage Company, Ratanaia Bridge, Jodhpur.
 Marwar Industries, Kuchaman House, Jodhpur.
 Marwar Industries Ltd., Jodhpur.
 Marwar Kala Mandir Ltd., Jodhpur.
 Marwar Mercantile Co., Ltd., Kuchaman (Rajasthan).
 Marwar Oil Mills, Jodhpur.
 Minerva Hotel, Station Road, Jodhpur.
 Mittal Sports, Ajmer Road, Jaipur.
 M. Kumbhat & Sons, Jodhpur.
 Modern Hair Dressers, Station Road, Jodhpur.
 Modern Tailors, Outside Sojatigate, Kutchery Road, Jodhpur.
 Mohan Brothers, Outside Jalorigate, Jodhpur.
 Mohan Brothers, Furniture House, Station Road, Jodhpur.
 M. S. Cycle Stores, Inside Sojatigate, Jodhpur.
 M. Suraj Raj & Co., Gaucha Bazar, Jodhpur.
 Nagaur Electricity Co., Ltd., Jodhpur.
 Narasinghmal Mehta & Co., Sojatigate, Jodhpur.
 Nathmal Tarachand Bothra, Rangri-ka-Chowk, Bikaner (Rajasthan).
 National Motors, Mirza Ismail Road, Jodhpur.
 National Tractors, Chogani Road, Jodhpur.
 National Weaving Industries, Nagaurigate, Jodhpur.
 Natwar Automobiles & Allied Industries Ltd., Jodhpur.
 Northern India Machinery Corporation, Ras House, Jodhpur.
 O. P. Sanghi & Co., Jodhpur.
 Pall Electricity Co., Ltd., Jodhpur.
 Pannalal Manchahal Khatri (Snuffwala), Tanakhu Bazar, Jodhpur (Rajasthan).
 Paradise Trading Corporation, Station Road, Jodhpur.
 Perfect Advertisers, Sojatigate, Jodhpur.
 Phalool Electricity Co., Ltd., Jodhpur.
 P. M. Allah Baksh & Son, Mirza Ismail Road, Jaipur (Rajasthan).
 Praja-Sweek Weekly, Inside Sojatigate, Jodhpur (Rajasthan).
 Prakash Optical & General Mart, Minerva Talkies Building, Shop No. 9, Jodhpur.
 Prem's Universal Store, Kutchery Road, Jodhpur.
 Pustak Bhandar, Chopani Road, Jodhpur.
 Rai Bahadur Ramprasad Rajgarhia, 12, Prithviraj Road, Jaipur.
 Rajasthan Metal & Rolling Mills, Ltd., Ratanaia (Rajasthan).
 Rajasthan Mineral & Co., 12, Prithviraj Road, Jaipur.
 Rajasthan Oil Mills Association, Lake House, Udaipur (Rajasthan).
 Rajasthan Printing and Dyeing Mills, Nagaurigate, Jodhpur.
 Rajasthan Traders, 1/B Road, Sardarpura, Jodhpur.

Rajasthan Trading Corporation, Station Road, Jodhpur
 Rajputana Metal Works, 1 B Road, Sardarpura, Jodhpur
 Rajputana Stationery Mart, Sojatigate, Jodhpur
 Rajputana Trading Co., Ltd., Jodhpur
 Ramesh Films Motion Picture Distributors, Olympic Cinema Building, Jodhpur (Rajasthan)
 Rangopal Pukhraj, Juni Nagar, Jodhpur
 Ramdasman Stores, Kutchery Road, Jodhpur
 Ram Swacharam, Perfumed Hair Oil Manufacturers, Jalorigate, Jodhpur
 Rashtriya Khadi Bhandar, Sojatigate, Jodhpur
 R. R. Seth Moolchand Nurchand, Automobile Dealers, Jodhpur
 Regal Sports, Railway Road, Jodhpur

R. P. Agdayemawer & Sons (Regd.) Moti Bhongri Road, Jaipur (Rajasthan)
 Sainik Motors, Kutchery Road, Jodhpur
 Rajjan Stores Jalori Gate, Jodhpur
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 Seth Raghunathdas Shreeram Parihar, Mirana Merchants, Kotla Bazar Jodhpur
 Shankerlal & Sons, Station Road Jodhpur
 Shanti Bhawan Lodge, Jodhpur
 Sharma Brothers, News Paper Agents, Balji Talab, Jodhpur
 Shreeram Hajarimal Rangwala, Jodhpur
 Shri Aron Marble Ltd., Jodhpur
 Shri Mahaxmi Colour Mfg. Co., Ltd., Erinpura (Rajasthan)
 Shri Marwar Printers Ltd., Jodhpur
 Shri Sharda Devi Moondhra Motor Company, Station Road Jodhpur

Surana Bros. Sojati Gate, Jodhpur
 Surana & Co., Minerva Building, Jodhpur
 Tak Studios opp Prem Prakash Jaipur
 Thakuramal Bakhand, Kundan Niwas, Ajmer Road Jaipur
 Thakur Das Khatri & Sons, Tripolia Bazar, Jodhpur
 Udaipur Distillery Company Limited, The Udaipur (Rajasthan)
 Udaipur Mineral Development Syndicate, Ltd. (Bhilwara (Mewar State))
 Uma Medical Stores, Khemlaphalan Road, Jodhpur
 United Motors Sojatigate Jodhpur
 Vijaya Medical Stores Jodhpur
 Vides Limited, Mirza Ismail Road Jaipur
 Vyas P. B. & Co. Jalori Gate Jodhpur
 Western Indian States Motors (Private) Ltd. Jaipur (For details please refer page 95.)

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 Rajasthan Arhat Factory, Head Office, Chhachhmandi Jodhpur
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Ajmer	363
Kotah	70

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 Marudhar Stores, Railway Road, Jodhpur (Rajasthan)

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 D. R. Sharma & Sons, Sojati Gate, Jodhpur (Rajasthan)
 Dwarkadas Kotha, Ratnada Bridge, Jodhpur
 Empire Store, Mirza Ismail Road, Jaipur
 Rajputana Stationery Mart, Sojatigate, Jodhpur
 Rashtriya Pustak Bhandar, Chopasni Road, Jodhpur
 Sainik Prakashan, Sojati Gate, Jodhpur.

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Lalung Medical Stores, Sardar Market, Jodhpur.
Porwal Brothers, Station Road, Jodhpur.

Rajputana Medical Stores, Sojati Gate, Jodhpur.
Sehan Medical Stores, Sojati Gate, Jodhpur.
Uma Medical Stores, Khandaphala Road, Jodhpur.
Vijaya Medical Stores, Jodhpur (Rajasthan).

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Bhawani Talkies, Jaipur.
Charbhuj Talkies, Jodhpur.
Chetak Cinema, Udaipur.
Chitra Cinema, Jodhpur.
Krishna Cinema, Jodhpur.
Man Prakash Cinema, Jaipur.
Minerva Cinema, Station Road, Jodhpur.
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Surya Mal P. Sons, Minerva Cinema, Jodhpur (Rajasthan).

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Edwards Mills Ltd., Beawar.
Haroti Cotton Press Ltd., Beawar.
Krishna Mills Ltd., Beawar.
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India Radiogram Corporation, P O Box 63, Kutchery Road, Jodhpur.
INDUSTRIAL COMMAND OF INDIA (PRIVATE) LTD., Mirza Ismail Road, Jaipur. Phone: 971. Grams: "ENTRICOM."

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B. K. FILMS, Minerva Cinema, Jodhpur. Phone: 404 PP.

Bothra Film Exchange, Jodhpur

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Phone: 870

George Talkie Cinema, Jodhpur

Jagdish Film Distributors, Jodhpur.

Kamal Pictures, Jodhpur.

KHAJANCHI FILM DISTRIBUTORS, Post Box No. 9, Jodhpur. Phone: 380. Grams: "SAMPATTI." Branch: Indore. Phone: 6044 PP. Grams: "KHAJANCHI."

RAYLEXMI PICTURES, Motion Picture Distributors, Anand Cinema Building, Jodhpur. Grams: "RAYLEXMI." Phone: 881 (Res.); 411 pp. (Office). Proprietor: Premnaghi Kachhwa.

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Ramesh Films, Olympic Cinema Building P O Box No 57, Jodhpur (Rajasthan)

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TALKIE FILM DISTRIBUTORS (PRIVATE) LTD, 2000, Mirza Ismail Road, Jaipur Phone: 697. Grams: "PARAMOUNT." Manager: O P Sharma Head Office: 38, Maharam Road, Indore Phone 6491. Grams: "PARAMOUNT." Managing Director B L Salgia

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Chitra Cinema Hotel, Mohia Market, Jodhpur.

Dak Bungalow, Station Road, Jodhpur.

DELHI MISTHAN BHANDAR, Chaura Rasta, Jaipur (Rajasthan). Phone: 770.

Edward Memorial Hotel, Ajmer Road, Jaipur

Grand Hotel, Railway Road, Jodhpur (Rajasthan)

Hind Hotel, Chaura Rasta, Jaipur

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Madan Gopal Zaveri & Co., Tripolia Bazar, Jaipur City. Phone : 468

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P. M. Allah Buksh & Son, Mirza Ismail Road, Jaipur (Rajasthan).

Thakryamal Balchand, Kundan Niwas Building, Ajmer Road, Jaipur.

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Volta Limited, Mirza Ismail Road, Jaipur.

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Chandra Industrial & Commercial Corporation, Kutchery Road, Jodhpur (Rajasthan).

General Marketing Co., Ajmer Road, Jaipur.

India Radiogram Corporation, P.O. Box 63, Kutchery Road, Jodhpur.

Jaipur Paper Mart, Tripolia Bazar, Jaipur City.

J. S. Dhaddha & Co., opp. Mahatma Gandhi Hospital, Jodhpur (Rajasthan).

M. Kumbhat & Sons, H. O. : Jodhpur.

Prem's Universal Stores, Kutchery Road, Jodhpur (Rajasthan). Phone : 622.

Vyas, P. B. & Co., Jalori Gate, Jodhpur.

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A. Lalchand, Inside Sojati Gate, Jodhpur.

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Hari Narain Kacholia & Co., Mirza Ismail Road, Jaipur.

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Bhupal Mining Works, Bhilwara (Rajasthan).

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Jaiboom! (Daily), Jaipur.

Jwala, The, (Hindi Weekly), Sojati Gate, Jodhpur.

Lalkar Weekly (Hindi), Tripolia, Jodhpur (Rajasthan).

Lokjeevan (Weekly), Minerva Building, Jodhpur.

Lokraj (Weekly), Minerva Building, Jodhpur.

Lokvani, The Hindi Daily of Rajasthan, Jaipur City.

Navyug (Daily), Jaipur.

Prasidh (Weekly), Inside Sojati Gate, Jodhpur (Rajasthan).

Rashtradoot, Jaipur.

Vivek (Weekly), Jalap Mohalla, Jodhpur.

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 Modern Tailors, Outside Sojati Gate, Kutchery Road, Jodhpur (Rajasthan)
 Naraina, Station Road, Jodhpur.
 Rajasthan Tailors Station Road, Jodhpur.

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MARWAR TEXTILE WORKS, Kaiserbag, 289, Ratanada Shiv Road, Jodhpur. Manufacturers of Superfine Malmulls. Phone : 610. Grams : "MARTEX." (Estd. 1941).

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 H. C. Brothers, Watch Merchants, Tripolia Gate, Jaipur (Rajasthan).
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General Automobiles & Agencies Ltd., Imperial Road, Ajmer.

GENERAL MEDICAL STORES, THE, Kutchery Road, Ajmer. Suppliers to States, Government and Municipal Hospitals, Estd. 1931. Phone : 325.

Telephone : 412

Res. Phone : 412-A.

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K. D. Framjee Marfatia, Station Road, Ajmer.

KELLY & CO.—Kelly Street, Ajmer. Wine, Travel Service, Exporters, Importers. Phone : 14.

K. J. Mehta & Bros., opp. Railway Station, Ajmer.

Kohinoor Watch Co., 6, Kutchery Road, Ajmer.

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New Drapery House, Kaiser Ganj, Ajmer.

New General Stores, Beawar Road, Ajmer.

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Rajasthan Civil & Electrical Works, Near Martindale Bridge, Ajmer.

R. D. Mankar & Co., Imperial Road, Ajmer.

Royal Bar & Restaurant, opp. Railway Station, Ajmer.

Sharda Brothers, Imperial Road, Ajmer.

STANDARD ELECTRIC CO.—Licensed Government Contractors; Dealers in Electrical goods. Prop. : P. C. Goyal, Post Box 142, Kalsarganj, Ajmer.

TRIPURA

Capital: Agartala.

Area: 4,116^{sq} Miles; **Population:** 6,45,707.*

The number of refugees was 361,719 as on 31st December 1956. The total estimated population as on 31st December 1956 was 9,06,000.

After the reorganisation in November 1956, the State has been a Union Territory.

Tripura Territory is bounded on the north by the Sylhet District of East Pakistan and Cachar District of the Indian Union, on the west by the Sylhet, Tippera and Wokhali Districts of East Pakistan and on the east by the Lushai Hill Tract District of the Indian Union and the Chittagong Hill Tracts of East Pakistan. The major portion of the Territory is hilly and full of jungles.

The agricultural wealth of the Territory consists of paddy, jute, cotton, tea and fruit such as pineapple, jackfruit, etc., while forests yield timber, firewood, bamboo and charcoal. Paddy is the main source of revenue.

There is only one District—Tripura, one municipality and no Panchayats.

The Territory is divided into ten administrative Sub-Divisions—Sadar, Khowai, Kailashahar, Dharmanagar, Sonamura, Udaipur, Belonia, Sebroom, Kamalpur and Amarpur.

POPULATION

Sadar Sub-Division has a population of 353,000 (31-12-1956) and is divided into ten Tahsils—Sadar, Purnanagar, Ramutia, Mohanpur, Simna, Ishanchandranagar, Kamalpur, Takarjala, Bishnagar, Charlam.

Khowai Sub-Division has a population of 75,000 (31-12-1956) and is divided into four Tahsils—Khowai, Kalyanpur, Ashrambari and Telamara.

Kailashahar Sub-Division has a population of 96,000 (31-12-1956) and is divided into two Tahsils—Kailashahar and Fakirpur.

Dharmanagar Sub-Division has a population of 90,000 (31-12-1956) and is divided into five Tahsils—Dharmanagar, Brajendranagar, Kurli, Kancharpur and Longai.

Sonamura Sub-Division has a population of 64,000 (31-12-1956) and is divided into five Tahsils—Sonamura, Kailash, Bakhanagar, Dhanpur and Matinagar.

Udaipur Sub-Division has a population of 67,000 (31-12-1956) and is divided into two Tahsils—Radhakrishnoredpur and Nalgahar.

Belonia Sub-Division has a population of 60,000 (31-12-1956) and is divided into seven Tahsils—Belonia, Rajnagar, Radhanagar, Purnarajbari, Achinagar, Rishyamukh and Muhuripur.

Sebroom Sub-Division has a population of 31,000 (31-12-1956) and is divided into five Tahsils—Sebroom, Manu, Amilghat, Pame-randranaj and Gorakha.

Kamalpur Sub-Division has a population of 40,000 (31-12-1956) and is divided into two Tahsils—Kamalpur and Kulai.

Amarpur Sub-Division has a population of 29,000 (31-12-1956) and is divided into three Tahsils—Birganj, Omph and Dumbournagar.

The Chief Commissioner who is the head of the Territory, is assisted by Secretaries, each in charge of several Departments.

There is also a District Magistrate and an additional District Magistrate, and for each of the Divisions an S.D.O. On the judicial side there is a Judicial Commissioner's Court which is the highest Court in the Territory. There is also a District and Sessions Court, one Court of Subordinate and Assistant Sessions Judge and eight Munsiff Courts.

Territorial councils have been established and they have been entrusted with the administration of welfare activities such as education, medical services, agriculture, etc.

No. of persons speaking each of the languages prevalent in the State

Bengali 575,635; Tribal 197,486; Hindi 37,079; Manipuri 19,098; Others 16,449.

Budget for 1959-60: See under "Late Particulars".

ECONOMY

The area in acres under the crop and the production in mds are given below (1956-57)

Rice 365,558; 4,199,661; Sugarcane 5,296; 108,578; Pulses 1,510; 7,391; Jute 22,922; 271,344; Cotton 15,855; 45,240; Tea (1956) 11,242; 4,992,113 (lbs.).

Area of Territory in acres: 2,634,240; Area cultivated 507,000 (1955-56); Area under wet cultivation 424,000 (1955-56).

More money, better seeds and improved implements are being distributed to increase food production. In Tripura the expenditure went up from Rs 4.6 lakhs to Rs 31 lakhs in 1956.

Total cattle 802,865; Total buffaloes 40,477; Horses and ponies 746; Sheep 6,774; Goats 101,332; Other livestock 60,114.

The fishing population may be reckoned as 2,500 families.

Road mileage 724. Of this motorable 624, metalled 152, unmetalled 272.

There is no railway or water-way in the Territory. There are however, five aerodromes.

Tripura, which at present is cut off from the rest of the country, is being linked by road with Assam through the Assam-Agartala road. More than Rs. 300 lakhs are to be spent on road development.

There are no irrigation works in the Territory.

Power position in 1956: Installed capacity of plants 466 kW. No. of units generated 1,032,144 kWh. No. of units supplied to industry 120,374, for domestic purposes 572,211, for commercial 59,546, for public lamps 24,849.

The source of power is the Agartala Electric Supply in Agartala town. This is proposed to be nationalised and expanded. Expansion was expected to be completed at the end of 1957 when the capacity of the plant was expected to increase to 635 kW.

Average daily number of workers employed in registered factories 1,497 (1955).

Minimum wages are fixed in the following tea plantations (Rs. 31 15 0 a month), bidi making (Rs. 29 a month).

Total no. of members of trade unions: 6,865

Labour Welfare Schemes: The Tripura Labour Welfare Scheme offers recreational, adult educational and vocational training facilities such as sewing, knitting, basket making etc. to the tea plantation labourers during the Second Five Year Plan. One Labour Welfare Centre was opened on 15-3-1957 at Manuvalley T.E. under Kailashahar Sub-Division. It is located in between 3 gardens and will serve about 800 labourers.

Employment Exchange: One District Employment Exchange was opened on 23-2-1957 at Agartala. In addition to the primary duty of placements, other important functions such as collection of factual information relating to employment situation on a local basis and for particular industries and occupation will be also made.

There are no large-scale industries in the Territory. Cottage industries include handloom, carpentry, black-smithy, bidi making, soap, basketry, pottery, leather works, tannery and paper making. The total value of the finished goods will be about Rs 3.40 crores. Most of these are co-operative undertakings. Out of the 5,000 persons engaged in cottage industries about 960 are paid workers.

There are three types of land tenure in the Territory: Kayrami Taluk, Takahshahi Taluk, Khas Jami or Kayati right.

The Acts governing the three systems are: Rajaswa Sambandhiya Niyamhali for the Kayrami, Contract and customary law for the Takahshahi, and the Landlord and Tenant Act (Act I of 1296 T K) for the Khas Jami.

The Kayrami Taluk are held in fixed rent with full and permanent rights of ownership. If the rent is in arrears the taluk can be put up for sale.

The Takahshahi are held on settlement, mostly for 30 years with succession right of renewal on enhanced revenue.

The more important provisions of the Landlord-Tenant Law are as follows:

Term of settlement is from 5 to 7 years. But if the tenant continues to pay rent the settlement remains valid under the existing Tenancy Act, a tenant has no legal right to build a pucca house, excavate a tank, or grow or fell a prohibited tree in his holding. He is liable to be ejected if he fails to mutate his name within 6 months after his succession. Pucca structures can be constructed on lands settled in higher right (Kayrami or Takahshahi right).

No laws have been passed for the expropriation of the non-proprietary rentier class—the so-called Zamindari or Jagirdari abolition Acts.

The Tripura Advisory Committee suggested in September 1955 that in the proposed land reforms for the Territory, 25 standard acres of land be fixed as the ceiling limit for personal cultivation by an owner in Tripura and for future acquisitions subject to the limit being increased to 50 standard acres in case of large families.

The Committee approved a Bill to provide for the acquisition of estates in Tripura and for certain other measures of land reform.

Displaced Persons (1956): Tripura has spent Rs. 10 crores so far on various schemes of assistance to and welfare of the displaced persons in the territory. A further sum of Rs. 2.50 crores is likely to be spent in the next financial year.

Tribes (1956): Nine Tribal colonies have been set up for the Jhumias (shifting cultivators) at various places and the people are gradually taking to settled cultivation. A sum of Rs. 81.55 lakhs has so far been spent on this scheme. Betterment of ex-servicemen and labourers is also receiving due attention.

Second Five Year Plans (1956): The Second Plan provision for Tripura is over Rs. 8.46 crores, of which Rs. 3.50 crores are intended for construction and improvement of roads and Rs. 3 crores for social services like Education, Health, etc. A scheme for survey and settlement operation has also been sanctioned at a cost of Rs. 1.33 crores and works on it are in progress.

Education

The number of primary schools has risen from 403 in 1950-51 to 1,041 in 1956, including 112 Junior Basic Schools. Nearly 73,000 pupils including 23,700 girls were admitted from 1956-57 to 1958-59. The number of secondary schools has increased from 64 to 110.

A Polytechnic with Diploma courses in Civil, Electrical and Mechanical Engineering has been started.

(For more statistical information see article on Education).

Health

Position 1956: There are 6 allopathic hospitals (including one Police Hospital) and 91 dispensaries, (75 under the D.M.S. and 16 under the Director of Rehabilitation) (including one Ayurvedic and 6 homoeopathic). The total number of beds is 247 (1956). The total number of allopathic doctors is 105 including ayurvedic and homoeopathic, nurses 29, dais 17. There are no medical colleges in the Territory.

A Rs. 30-lakh hospital is being built (August 1956).

Co-operation

(See main article on Co-operation)

* Slightly different from the Central Govt. figure.

UTTAR PRADESH

Area : 113,409 square miles.
Population : 63,215,742 (1951 census).
Capital : Lucknow.

Uttar Pradesh is a member of the Central Zone of which the other member is Madhya Pradesh. The headquarters of the zone is at Allahabad. The Vice-Chairman for the first year is the Chief Minister of U.P.

Total income of population of State in 1954-55 (in terms of 1948-49 prices) : Rs. 1,774 crores; in 1955-56 Rs. 1,787 crores; in 1956-57 Rs. 1,779 crores, total rural income in 1954-55 Rs. 1,132 crores; in 1955-56 Rs. 1,088 crores and in 1956-57 Rs. 1,333 crores; total urban income in 1954-55 Rs. 612 crores; in 1955-56 Rs. 679 crores; in 1956-57 Rs. 646 crores.

Per capita income for State in terms of 1948-49 prices (1954-55) : Rs. 209 15; (1955-56) : Rs. 205 32; (1956-57) : Rs. 201 32.

Number of Districts : 61; Tahsils : 221; Antaria Zila Parishads : 51; Municipalities : 135; Town Areas : 277; Notified Areas : 24. Number of elected seats to these Notified Areas : 243 (elections took place in 22 Notified Areas); Panchayats : 72,409; Villages : 111,722.

There are ten revenue divisions under ten full-fledged commissionerships namely Meerut (Hqrs. Meerut), Allahabad (Hqrs. Allahabad), Varanasi (Hqrs. Varanasi), Lucknow (Hqrs. Lucknow), Agra (Hqrs. Agra), Gorakhpur (Hqrs. Gorakhpur), Faizabad (Hqrs. Faizabad) and Rohilkhand (Hqrs. Bareilly), Jhansi (Hqrs. Jhansi) and the Kumaon (Hqrs. Nainital).

Names of the ten revenue divisions with the districts comprising each :

Meerut Division : Dehra Dun, Saharanpur, Muzaffarnagar, Meerut, Bulandshahr.

Agra Division : Aligarh, Agra, Mainpuri, Etah Mathura.

Allahabad Division : Farrukhabad (Fategarh), Etawah, Kanpur, Fatehpur, Allahabad.

Rohilkhand Division : Bareilly, Bijnor, Budaut, Moradabad, Rampur, Shahjahanpur, Pilibhit.

Jhansi Division : Jhansi, Jalaun (Oral), Hamirpur, Banda.

Varanasi Division : Varanasi, Mirzapur, Jaunpur, Ghazipur, Ballia.

Gorakhpur Division : Gorakhpur, Deoria, Basti, Azamgarh.

Kumaon Division : Naini Tal, Almora, Garhwal (Pauri), Tehri-Garhwal (Narendranagar).

Lucknow Division : Lucknow, Unnao, Rae Bareilly, Sitapur, Hardoi, Khurji (Lakhimpur).

Faizabad Division : Faizabad, Gonda, Bahraich, Sultanpur, Pratapgarh, Barabanki.

AREA, POPULATION

Names of the ten revenue divisions giving within brackets the area in square miles and population respectively :

Meerut Division (9,182; 6,718,510); Agra Division (8,054; 6,075,402); Rohilkhand Division (11,759; 7,217,606); Allahabad Division (10,207; 6,990,638); Jhansi Division (11,310; 2,988,522); Varanasi Division (10,466; 6,849,031); Gorakhpur Division (9,558; 8,831,241); Kumaon Division (18,252; 2,159,082); Lucknow Division (12,034; 7,152,237); Faizabad Division (12,073; 8,302,713).

Names of districts under each division showing within brackets the area in square miles and population respectively :

Meerut Division : Dehra Dun District (1,189; 562,005); Saharanpur District (2,147; 1,353,636); Muzaffarnagar District (1,634; 1,221,768); Meerut District (2,300; 2,281,217); Bulandshahr District (1,912; 1,499,884).

Agra Division : Aligarh District (1,950; 1,543,506); Mathura District (1,456; 912,264); Agra District (1,800; 1,501,391); Mainpuri District (1,674; 993,890); Etah District (1,713; 1,124,351).

Rohilkhand Division : Bareilly District (1,592; 1,269,239); Bijnor District (1,835; 984,196);

Budaun District (2,014; 1,251,152); Moradabad District (2,316; 1,680,955); Shahjahanpur District (1,790; 1,004,378); Pilibhit District (1,343; 508,424); Rampur District (899; 543,324).

Allahabad Division : Farrukhabad (1,660; 1,092,611); Etawah District (1,688; 970,695); Kanpur District (2,379; 1,939,867); Fatehpur District (1,611; 908,965); Allahabad District (2,839; 2,048,250).

Jhansi Division : Jhansi District (3,884; 877,607); Jalaun District (1,761; 555,239); Hamirpur District (2,779; 665,429); Banda District (2,886; 790,247).

Varanasi Division : Varanasi District (1,998; 1,978,634); Mirzapur District (4,369; 1,017,289); Jaunpur District (1,559; 1,517,173); Ghazipur District (1,299; 1,141,278); Ballia District (1,241; 1,94,957).

Gorakhpur Division : Gorakhpur District (2,437; 2,238,689); Deoria District (2,093; 2,102,627); Basti District (2,818; 2,387,603); Azamgarh District (2,210; 2,102,423).

Kumaon Division : Naini Tal District (2,721; 335,114); Almora District (5,389; 772,896); Garhwal District (5,612; 639,625); Tehri-Garhwal District (4,530; 412,047).

Lucknow Division : Lucknow District (949; 1,128,101); Unnao District (1,802; 1,067,055); Rae Bareilly District (1,755; 1,156,704); Sitapur District (2,207; 1,380,472); Hardoi District (2,314; 1,361,562); Khurji District (2,067; 1,058,313).

Faizabad Division : Faizabad District (1,704; 1,181,796); Gonda District (2,842; 1,877,484); Bahraich District (2,636; 1,346,355); Sultanpur District (1,710; 1,282,160); Pratapgarh District (1,447; 1,110,734); Barabanki District (1,734; 1,264,204).

TALUKAS

Names of Districts with the names of talukas, their area in square miles and population respectively within brackets :

Dehra Dun District (Chakrata; 447; 59,732; Dehra Dun; 742; 302,253).

Saharanpur District (Deoband; 385; 266,960; Nakur; 430; 227,913; Roorkee; 706; 410,787; Saharanpur; 628; 447,976).

Muzaffarnagar District (Bulhana; 288; 204,962; Jansath; 440; 280,264; Kafrana; 438; 313,748; Muzaffarnagar; 468; 362,794).

Meerut District (Baghat; 400; 417,317; Ghazabad; 445; 425,187; Hapur; 407; 370,854; Mawana; 421; 278,163; Meerut; 286; 485,235; Sardhana; 341; 304,461).

Bulandshahr District (Anupshahr; 456; 380,740; Bulandshahr; 476; 455,701; Khurja; 459; 340,109; Sikandrabad; 521; 317,236).

Aligarh District (Atrauli; 351; 269,697; Hathras; 291; 276,813; Igla; 214; 143,086; Khal; 402; 237,331; Koll (Aligarh); 355; 388,621; Sikandra Rao; 337; 227,058).

Mathura District (Udhata; 407; 178,240; Mat; 331; 200,876; Mathura; 410; 315,047; Sadashah; 308; 218,101).

Agra District (Agra; 219; 511,609; Bah; 338; 151,883; Etwadpur; 278; 205,156; Fatehabad; 241; 139,566; Firozabad; 203; 199,211; Khengarh; 308; 144,677; Kirooli; 273; 149,309).

Mainpuri District (Karhal; 218; 116,767; Jaarana (Mustafabad); 317; 171,813; Bhongson; 489; 283,778; Mainpuri; 386; 212,611; Shikohabad; 294; 208,921).

Etah District (Alligan; 517; 299,015; Etah; 482; 309,881; Jalesar; 227; 145,068; Kaagan; 487; 370,387).

Bareilly District (Aonla; 317; 239,591; Baheri; 369; 203,990; Bareilly; 441; 536,190; Faridpur; 244; 149,538; Nawabganj; 221; 130,924).

Bijnor District (Bijnor; 482; 273,492; Dhampur; 458; 341,434; Nagina; 457; 167,469; Najibabad; 438; 201,402).

Budaun District (Bisauli; 360; 260,675; Budaun; 454; 320,302; Dataganj; 419; 241,350; Gunnaur; 359; 190,122; Sahaswan; 422; 238,703).

Moradabad District (Amroha; 383; 293,198; Bilari; 333; 294,951; Hasnapur; 569; 238,078; Moradabad; 316; 368,476; Sambhal; 475; 341,521; Thakurdwara; 240; 124,131).

Shahjahanpur District (Shahjahanpur; 395; 307,745; Pawanpur; 591; 227,729; Jalaun; 361; 204,222; Tilhar; 413; 264,692).

Pilibhit District (Bhalpur; 365; 210,384; Pilibhit; 466; 280,817; Purnapur; 512; 87,227).

Rampur District (Bilaspur; 205; 88,230; Huzur; 180; 239,711; Mohak; 156; 93,251; Shahabul; 167; 91,803; Suar; 130; 50,176; Tanda; 61; 30,153).

Farrukhabad District (Chhibramau; 418; 254,251; Farrukhabad; 445; 379,406; Kannan; 361; 214,100; Kannauj; 393; 244,424).

Etawah District (Auraiya; 415; 241,093; Bhathana; 417; 233,841; Bidhuna; 429; 216,903; Etawah; 427; 278,725).

Kanpur District (Akkarpur; 364; 148,807; Bhognpur; 380; 147,396; Billaur; 387; 210,605; Derapur; 403; 208,880; Ghafampur; 423; 212,326; Kanpur; 418; 932,163).

Fatehpur District (Fatehpur; 642; 358,151; Khaga; 485; 274,627; Khajula; 514; 276,207).

Allahabad District (Chail; 303; 548,408; Handia; 297; 243,177; Karchhana; 521; 254,083; Manjhanpur; 274; 164,022; Meja; 678; 208,446; Phulpur; 280; 227,128; Sirathu; 233; 150,790; Soran; 261; 244,306).

Jhansi District (Garutha; 594; 108,688; Jhansi; 482; 232,642; Lalpur; 1,059; 187,061; Mahroni; 887; 127,293; Mau Ranipur; 424; 110,280; Moth; 438; 102,663).

Jaunpur District (Jalaun; 514; 213,388; Konch; 409; 130,604; Kalpi; 480; 110,202; Oral; 358; 92,045).

Hamirpur District (Hamirpur; 416; 109,316; Kulghar; 591; 132,982; Mahoba; 354; 90,034; Maudaha; 604; 144,816; Rath; 655; 154,820; Charkhari; 159; 33,161).

Banda District (Banda; 614; 180,285; Baberu; 610; 185,668; Naini (Girwan); 523; 155,762; Karwi; 822; 182,093; Maw; 317; 77,439).

Varanasi District (Varanasi; 506; 1,043,466; Chandauli; 510; 432,230; Bidadhi; 419; 388,471; Chakia; 474; 114,467).

Mirzapur District (Chunar; 562; 254,021; Dudhi; 988; 118,856; Mirzapur; 1,186; 432,098; Robertganj; 1,633; 212,314).

Jaunpur District (Jaunpur; 288; 343,378; Kerkat; 246; 258,285; Machhlishahr; 344; 279,986; Maraha; 320; 307,058; Shahganj; 361; 328,466).

Ghazipur District (Ghazipur; 558; 488,237; Mohammadabad; 318; 285,446; Saidpur; 428; 367,195).

Ballia District (Ballia; 446; 470,419; Pandih; 374; 353,187; Naara; 421; 371,051).

Gorakhpur District (Panagan; 531; 552,188); Gorakhpur; 655; 823,664; Maharajganj; 682; 481,652; Pharrada; 569; 381,084).

Deoria District (Deoria; 493; 530,605; Hata; 346; 484,688; Padmauna; 559; 548,667; Salempur; 495; 538,669).

* Government dissolved all District Boards on May 1, 1958 and constituted Antaria Zila Parishads in their place.

Basti District (Basti): 614; 520,490. Basti: 553; 506,308; Dumraiganj: 546; 437,643. Haraiya: 500; 394,376. Khalilabad: 565; 529,945.

Azamgarh District (Azamgarh: 313; 347,726. Mohammadabad: 358; 369,240. Sagri: 350; 311,549. Ghosi: 364; 358,923. Phulpur: 441; 400,170. Iqbalpur: 364; 314,815).

Naini Tal District (Haldwani: 1,279; 97,572. Kashipur: 189; 51,305. Kichha: 620; 91,978. Naini Tal: 433; 94,659).

Almora District (Almora: 4,136; 260,928. Champawat: 600; 64,737. Pithoragarh: 653; 204,973. Ranikhet: included in Almora Tehsil: 222,258).

Garhwal District (Chamoli: 3,595; 216,972. Lansdowne: 1,056; 264,066. Pauri: 961; 158,547).

Tehri-Garhwal (Deo Prayag: —; 129,148. Pratap Nagar: —; 80,568. Rawain: —; 106,054. Tehri: —; 86,273).

Lucknow District (Lucknow: 387; 745,758. Malhatia: 327; 214,667. Mohanlalganj: 275; 167,656).

Unao District (Hansangan: 440; 267,104. Purna: 531; 325,162. Safipur: 409; 239,945. Unao: 402; 234,844).

Rae Bareilly District (Bahau: 472; 328,804. Maharanjan: 464; 292,008. Rae Bareilly: 375; 250,061. Salon: 444; 285,227).

Sitapur District (Sitapur: 508; 321,359. Mirikhi: 596; 326,149. Siddhauri: 542; 341,550. Sitapur: 511; 349,408).

Hardoi District (Bilgram: 608; 324,319. Hardoi: 632; 387,734. Sandila: 55; 314,654. Shahdadi: 519; 314,459).

Kheri District (Jakhimpur: 1,053; 437,556. Muhamdi: 663; 304,325. Nighasan: 1,251; 316,462).

Faizabad District (Akharpur: 539; 441,190. Bikanpur: 460; 349,417. Faizabad: 355; 366,577. Tanda: 350; 324,592).

Gonda District (Gonda: 619; 494,092. Tarainjan: 663; 443,032. Tiraula: 1,560; 940,420).

Bahraich District (Bahraich: 931; 523,101. Kaisarganj: 683; 420,910. Nanpara: 1,022; 602,324).

Sultanpur District (Amethi: 366; 241,541. Khatipur: 439; 315,658. Musafirkhana: 397; 305,189. Sultanpur: 308; 419,772).

Pratapgarh District (Kunda: 543; 385,522. Pratapgarh: 417; 366,305. Patti: 467; 338,907).

Bara Banki District (Patelpur: 500; 342,911. Haluarjan: 290; 227,567. Nawabganj: 360; 310,776. Rameshchhat: 564; 397,904).

AGRICULTURE

Main food crops: Wheat, barley, gram, rice, jowar, bajra and maize.

Main cash crops: Sugar cane, linseed, rapeseed, mustard, groundnut, oil, cotton and jute.

Total foodgrains (cereals and pulses) production (1956-57): 12,414,774 tons.

Production of individual food crops in tons for 1956-57: Rice 2,265,723; Barley 1,596,349; Bajra 464,703; Kodo 164,464; Maize 966,141; Peas 529,630; Potatoes 607,098; Wheat 3,114,575; Jowar 439,499; Mandua 84,768; Rawan 62,274; Gram 1,507,067; Arhar 1,054,638; Kahun 2,701; Kutki 960; Masur 63,511; Urd 43,301; Moong 4,183; Moth 4,571; Sugarcane 3,497,321 (in terms of Gur).

Production of individual non-food crops in tons for 1956-57: Linseed 11,127; Rapeseed and Mustard 603,003; Groundnut 175,910; Oil 77,037; Cotton 66,725 bales; Jute 157,262 bales; Indigo (for dye) not available; Tobacco 14,552; Castor 1,131; Oilseeds 9.64 lakh tons.

Food production in 1957-58: 14,676,000 tons. Position as in 1956-57.

Area of State in acres: 74,204,569.

Area cultivated 41,813,366 acres. Area of uncultivated land 32,391,509 acres. Area cultivated more than once: 10,652,667 acres.

Area under dry cultivation: 30,593,622 acres. Area under wet cultivation: 11,419,744 acres.

Area under food crops: 49,294,297 acres. Area under non food crops: 3,532,736 acres.

Area under individual food crops (in acres) (1956-57): Rice 9,519,639; Wheat 9,979,744; Barley 4,949,854; Jowar 2,308,593; Bajra 2,741,369; Mandua 466,383; Kodo 966,765; Rawan 420,425; Maize 2,566,288; Gram 6,146,901; Peas 2,085,721; Arhar 1,051,572; Potatoes 236,551; Other fruits and vegetables 508,286. Other food crops 742,341; Kahun 27,604; Kutki 12,499; Masur 398,320; Urd 468,099; Moong 35,841; Moth 58,576; Sugarcane 3,060,189.

Area under individual non food crops (in acres): Linseed 186,228; Rapeseed and Mustard 66,812; Groundnut 380,436; Oil 194,205; Cotton 147,573; Jute 55,438; Tobacco 46,006; Opium 18,365; Castor 5,885; Salai 137,492.

Area possibly available for further cultivation through reclamation measures: 7,527,026 acres (for plains only).

Seed distributed during 1957-58: 72.28 lakh tons.

No. of Govt. farms in 1957-58: 128.

No. of fair price shops opened in January 1959: 4,006.

Forest: Total area: 12,988 sq. miles. Out of this reserve forest: 8,239 sq. miles; protected forest: 1,119 sq. miles; and unclassified forest: 3,630 sq. miles.

1957-58 Revenue: Rs. 5,95,19,472. Expenditure: Rs. 2,41,26,144; surplus: Rs. 1,01,93,128.

Three types of trees are planted in the State: (a) Fruit trees, (b) Fuel trees and (c) Timber trees.

Area of plantation in 1956-57 and new orchards: 14,321 acres.

Number in plantation: Fruit trees 1,594,539. Fuel and Timber trees 761,388.

LIVESTOCK

The following figures are for June 30, 1958: Number of stud bulls: 6,077; Buffalo bulls: 1,588; No. of Rams: 1,788; No. of Bucks: 716; No. of Boars: 215.

Number of stallion stands: 44; Donkey stands: 10.

No. of circle laboratories: 4; Central laboratories: one.

No. of veterinary hospitals: 307. Stockmen centres: 541.

No. of assistant surgeons and stockmen: 256 and 1,337.

No. of State poultry farms at the close of 1958: 11. No. of poultry development blocks: 242. No. of poultry demonstration units in hills: 19. No. of poultry extension centres: 15. No. of farmed birds issued: 31,418. No. of farm eggs issued: 317,064. No. of persons trained in poultry keeping at different State poultry farms: 58. No. of private poultry farms subsidised: 21.

Number of sheep and wool research stations (one at Allahabad).

Cattle breeding: Intensive cattle breeding work has been done throughout the State. Nuclear herds of breeding stock of each breed are being maintained at the Government cattle breeding farms in each of the nine cattle breeding zones of the State. Besides, there are no artificial insemination centres functioning in the State.

In 1957-58 eight new key village blocks with A.I. centres in rural areas and milk routes and four in urban A.I. centres were established thereby raising the total number of A.I. centres in the State to 80. Two key villages were added to each of the existing key village blocks financed by the Government of India thus expanding the area of the blocks from four to six units.

Six more cattle breeding extension centres were established where 40 bulls are located in research centres for natural service. 27 castrals have also been subsidised.

Mass prophylactic inoculation of cattle against rinderpest was carried out in nine more districts.

Five new Veterinary Hospitals were started. Ten centres for mass treatment of livestock against parasitic diseases were started during the year and 600 stations were provided with additional equipment and medicines.

In the hills there are seven sheep farms and 2 stud ram centres while in the plains there is one sheep farm, five sheep breeding units, 24 stud ram centres and 24 sheep and wool development extension centres to supplement the sheep and wool development programme.

FISH

Variety of fishes in tanks, lakes and reservoirs stocked by the Fisheries Department: Labo, Rohita (Rohu), Common Carp (Catla), Tilapia (Tilapia), Mithun (Mithun), Labo (Labo), Labo (Labo), Mithun (Mithun), Mithun (Mithun).

Arrange of water under the control of the Department for Pisciculture: 6,000 approx. mostly total area stocked: 600 acres. Number of fingerlings collected and stored from spawning grounds: 600,000 approx. No. of fingerlings stocked: 600,000. Quantity of fish netted out through departmental efforts: 1,249,494. Total no. of fingerlings distributed to the public: 1,249,494. Total no. of fish collected and stored: 14,600,948 (approx.).

Construction of the Fish Reclamation Farm at Gajpur Tal Jampur is in progress. Forty-one nurseries were acquired for rearing fry and fingerlings and 60 nurseries were improved. The renovation work in Kalyan Hatchery in district Tehri Garhwal is in progress.

A cold storage plant has been installed at Allahabad for providing facilities for keeping the daily marketable fish to private producers and dealers. Eight fishermen co-operative societies were organised and given financial assistance to the extent of Rs. 10,000 per party.

CIVIL SUPPLIES

There is no rationing of foodgrains, salt or sugar. Imported wheat and coarse foodgrains are, however, being distributed on no profit no loss basis through fair price shops throughout the State and at subsidised rates in flood affected and chronically deficit hill areas of the State.

The number of fair price shops in the State on December 30, 1958 was 4,012.

Following are the figures of issues for 1957-58: (a) Wheat: (i) through fair price shops in the State on no profit no loss basis: 2,22,800 mds.; (b) at subsidised rates in scarcity and flood affected areas: 958,779 mds.; (c) at subsidised rates in hill areas: 117,400 mds. Total: 6,549,179 mds.; (ii) Coarse grains at subsidised rates in scarcity and flood affected areas: 666,211 mds.

During the financial year 1958-59 the State Government obtained from the Government of India 2,65,478 tons of wheat, 4,191 tons of gram, 1,158 tons of maize, 1,026 tons of Bombay chana, 22,147 tons of milo and 24,963 tons of rice upto November 22, 1958. During this period 2,76,508 tons of wheat, 60,790 tons of coarse grains and 14,839 tons of imported rice were distributed among the people through fair price shops.

The State Government had decided to procure during the year 1.5 lakh tons of rice from State production.

SUPPLY OF COAL DUST IN U.P. IN 1957

Allocation—50,000 wagons, Actual supply: 24,849 wagons.

Supply of cement in 1957: Allocation: 652,747 tons; Actual supply: 67,000 tons.

Articles in which the State is in surplus and the actual surplus: Gur and sugar which shows over 50 per cent of the export trade. Oil seeds and pulses partly surplus and grain.

LAND TENURE

With the vesting of zamindari, following the enforcement of the U.P. Zamindari and Land Reforms Act, 1950, on July 1, 1952 in 48 out of the State's 51 districts, estates of nearly 20 lakh zamindars were taken over resulting in direct contact with 12,800,000 Kisans. The area of land taken over from intermediaries is about 8 crore acres.

Liquidated zamindars retain such of Sir, Khudkasi and groves of which they have become Bhumidhars.

The new land tenures under the U.P. Zamindari Abolition and Land Reforms Act are: Bhumidhar, Sirdar and Asami.

The following laws govern the different tenures extant in the State and other matters connected with them:

1. The U.P. Zamindari Abolition and Land Reforms Act as amended from time to time governs the new tenures; 2. The U.P. Tenancy Act, 1939 governs small pockets where the U.P. Zamindari Abolition and Land Reforms Act, 1950, has not yet been made applicable; 3. The Jauhar Bawar Zamindari Abolition and Land Reforms Act, 1950 and U.P. Urban Area Zamindari Abolition and Land Reforms Act, 1950 govern the new tenures in Pargana Jauhar Bawar of the Dehra Dun District and the urban areas in the State respectively; 4. The U.P. Land Revenue Act of 1901 as amended from time to time; 5. The U.P. Bhudai Yagna Act, 1952; 6. The U.P. Land Reforms (Supplementary) Act, 1952; 7. The U.P. Commutation of Rent (Regulation of Proceedings) Act, 1952; 8. The U.P. Land Tenures (Regulation of Transfer) Act, 1952; 9. The Jauhar Bawar Security of Tenure and Land Records Act, 1952; 10. The U.P. Zamindars' Debt Reduction Act; 11. The U.P. Agricultural Tenants' (Acquisition of Privileges) Act, 1949.

The main features of the Zamindari Abolition, and Land Reforms Act are: Extinction of intermediaries' rights; Payment of equitable compensation; Payment of rehabilitation grant to ex-intermediaries who paid land revenue upto Rs. 10,000 per annum; Undisturbed possession of land by actual tillers of soil and conferment of greater rights upon them; Undisturbed possession by every person of his house, well or grove; No landlord tenant system to be in force in future i.e. prohibition of subletting except in restricted cases of disabled persons; Prevention of uneconomic holdings; Village community to own all common lands and to have powers of land management; The entire body of bhumidars and sirdars to be jointly and severally responsible for the payment of land revenue; and a provision for co-operative farming.

Every ex-intermediary (ex-zamindar) is entitled to compensation at the rate of eight times his net assets. In addition, every ex-intermediary, whose land revenue did not exceed Rs. 10,000 would be given rehabilitation grant at a graduated specified scale.

Uttar Pradesh denies landlords the right to evict tenants even for self-cultivation of the vacated holdings.

The abolition of zamindari released 43,969,300 acres, that is, 96.3 per cent of the total land holdings, in the State. Two classes of cultivators, *Bhumidhars* (owners of land) and *sirdars* (wielders of the plough), enjoying different rights, inherited these lands from the State, which had acquired them from the intermediaries.

Of the alienated lands, nearly nine million acres of waste land were made over to the village communities for management. Another 2,400,000 acres of waste land and private forests were handed over to the Forest Department for development.

Pastures and pathways, cremation grounds and threshing floors, ponds and village baras (wells), in July 1952, into the possession of the village community. *Bhumidars* and *sirdars* continue to pay the same revenue or rent as before, but the *sirdar*, acquiring *Bhumidari* rights on payment of ten times the rent or revenue, will have his revenue halved.

The final zamindari abolition compensation payable to ex-intermediaries is assessed at Rs. 69.76 crores. Up to the end of October 1958, compensation to the tune of Rs. 61.48 crores had been paid to them of which a sum of Rs. 15.55 crores was in cash and Rs. 45.93 crores in 2½ per cent interest bearing transferable 40 year bonds.

Rehabilitation grants payable to ex-intermediaries have been estimated at about Rs. 70 crores. Up to the end of October 1958, grants totalling about Rs. 9,75,00,000 had been paid in cash and in 25 years non-interest bearing transferable bonds.

The State Government are also paying compensation to former landholders of adhvaks who were declared as sirdars in 1954. Their number is about 40,60,000. The amount of compensation payable to their erstwhile landholders is estimated at about Rs. 10.5 crores. Till the end of October 1958, compensation on this account amounting to Rs. 2.7 crores has been paid them in cash and Rs. 2.5 lakhs in bonds.

In future, no more than 12½ acres including the existing holdings can be acquired by a person in his and in the name of his family which includes wife or husband, as the case may be and minor children. The corresponding limit in the trans-Yamuna portions of the State, the Tarai and Kashi pur sub-divisions and certain areas in Mirzapur District has been fixed at 25 acres.

According to official estimates, over 7.6 lakh families in this State are landless. The percentage of landless labourers to tenure holders works out at 16.1 against 51 in Bihar, 54.4 in Rajasthan, 71.4 in Madras and 73.2 in Kerala.

Likewise, the cultivated land available for an average family in Uttar Pradesh is the lowest in India and does not exceed 4.8 acres against 13.1 in north-west India, 11.7 in Central India, 6.3 in Eastern India and 5.7 in south India.

There are only 9,976 holdings, each more than 50 acres and totalling 13,19,515 acres. Excluding about 2,100 mechanised farms from the operation of ceilings proposed by the Planning Commission's directive, only about five lakh acres would be available for distribution among the landless.

Consolidation of holdings: Operations under the scheme are being carried out in 32 tehsils of 27 districts of the State, comprising 13,336 villages having a cultivated area of about 62.50 lakh acres. Till September 30, 1958 the scheme of consolidation had been completed and chaks transferred in 6,255 villages while demarcation of chaks had been made in 6,651 villages covering about 22,51,000 acres of cultivated area. The scheme affected 6,68,948 tenure holders. The number of plots was reduced to 11,11,500 chaks. During 1958-59 the scheme was expected to be extended to eight more tehsils covering about 14 lakh acres of additional cultivated land.

Bhoo-dan: Land gifts amounted to 306,606 acres at the end of 1957 out of which 94,543 acres had been distributed by the Bhoo-dan Committee.

IRRIGATION

Area irrigated by State Irrigation works (1957-58): 8,025,673 acres.

Number of tube-wells energised and brought into operation till March 1958: 5,577. Area irrigated by tube-wells 1,708,692 acres; by canals 6,316,981 acres.

Total additional area brought under irrigation from State irrigation works of the First Plan during 1957-58 was 20 lakh acres. Total estimated rise in output was about 4.84 lakh tons.

Names of irrigation projects in execution with the area in acres which will be irrigated, total cost in lakhs of rupees and probable date of completion wherever available, respectively within brackets:

803 miles extension of Sarda Canal (1,76,000; 50-00); 1,062 miles extension of Sarda Canal (1,76,000; 110-00); Pratapgarh Branch (Extension of Sarda Canal) (67,000; 71-00); Trans-Yamuni Project (Extension of Sarda Canal) (74,000; 60-00); Sarda Canal Reservoir in Tarai

Forest Stage I including Jaunpur Branch and increasing capacity of Sarda Canal (1,72,000; 479-49); Increasing capacity of Ganga Canal (1,12,000; 18-00); Irrigation Schemes in Kumaon (21,500; 48-50); Banganga Canal (22,000; 36-32); Matatila Dam Stage I (2,64,500; 487-56); Arjun Dam (27,000; 118-00); Belan and Tons Canal (1,01,477; 198-46; March 1961); Ahaura Dam (22,000; 87-71); Chandraprabha Dam (24,000; 87-71); Shaganj Distributary (20,000; 18-70); Tamsa Pumped Canal (1,39,000; 129-00; During 2nd Plan); Naugah Dam (30,000; 132-97; 1959).

Continuing schemes: Names of the schemes not mentioned in the above list with the irrigation benefits in thousand acres and probable or actual date of completion respectively within brackets: Dohrigat Pumped (anal 1,39,000; 1960); Remodelling Eastern Yamuna Canal (22,000; 1960); Remodelling Agra Canal (27,000; 1959-60); Narayani Ghandak Pokhra (anal 51,000; 1959); Afzalgarh (anal 10,000; 1960); Remodelling Jani Escape (Benefits included in increasing capacity of Upper Ganga Canal; 1958-59).

Second Plan Schemes with irrigation benefits in thousand acres and probable date of completion within brackets: Othen Reservoir (16,000; 1961); Tumeria Reservoir (40,000; 1960); Nanaksagar (1,33,000; 1959); Upper Khajuri (15,000; 1958-59); Jirga Reservoir (64,000; 1960); Kwanu Pumped (anal 53,000; 1959).

Drainage and floods: 268 miles of bunds completed, about 4,000 villages raised and 490 miles long drains completed.

Names of certain irrigation systems with the area irrigated in acres by each during 1956-57: Upper Ganga (anal 1,489,321; Lower Ganga Canal 1,124,504; Eastern Yamuna Canal 458,041; Agra Canal 313,320; Hijnor Canal 16,293; Ramganga Canal 23,267; State tube-wells 1,156,977; Banganga Canal 3,325; Sarda Canal 1,076,793; Rohilkhand Canal 42,191; Ghagra Canal 21,805; Dure Canal 24,258; Behon Canal 225,199; Rampur Canal 33,207; Ghaggar Canal System 109,810; Chakia Canal 54,609; Ken Canal 143,640; Canals in Tarai Division 13,384; Canals in Kumaon Division 9,951; Nappur Lake 4,859; Nauri Lake 2,008; Jaguar Tank (Agra District) 8,411; Bundhis in Hamirpur 8,234; Bundhi in Allahabad 2,083; Bundhi in Varanasi 24,561.

Community Projects: Till the end of October 1958 there were in the State 370 development blocks covering 46.2 per cent of the total area of the State and 40.4 per cent of the population spread all over its 51 districts. The percentage of the rural population, however, comes to 46.8 square miles, with a population of 2,009,024.

POWER

Total installed capacity in State 367,740 kW. (1958)

Total installed capacity of the power houses under Electricity Department till December 1958: 180,219 kW.

Total effective capacity of power houses under Electricity Department till December 1958: 133,568 kW.

Total production during the year 1956-57: 301,543,316 K.W.H.

Estimated rise in the installed capacity after completion of the Second Five Year Plan scheme: 310,000 kW. The completion will be in the Third Five Year Plan period.

Units in kW sold under different categories during the year 1956-57 by Electricity Department.

Domestic 25,412,644; Industrial 66,466,593; Railways 9,031,508; Cantonment 11,063,394; Street Light 2,678,036; Pumping 2,428,372; Agricultural 7,999,990; State Tube-wells 81,521,650; Miscellaneous 12,424,319; Total 219,011,746 K.W.H.

The following are the names of power houses in operation in December 1958 showing their location and installed capacity in kW within brackets.

† Completed in 1958. †† Completed in 1958 except payment of land charges etc. ††† Completed in 1967.

Paiba Hydro (Bulandshahr 600), Bhoila H (Meerut 2,700), Mirzapur H (Mirzapur 3,000), Chitaura H (Mirzapur 3,000), Salawa H (Mirzapur 3,000), Sumera H (Aligarh 1,200), Mohammedpur H (Saharanpur 9,300), Patil H (Saharanpur 20,000), Tehri H (Tehri 20), Khatima H. (Nainital 41,000), Bagewar H (Almora 30), Chandausi Thermal (Moradabad 9,000), Harduaganj I (Aligarh 15,000), Sohawal T (Fatehabad 12,500), Mainpuri T (Mainpuri 10,000), Rampur T (Rampur 3,000), Mau T (Azamgarh 15,000), Gorakhpur T (Gorakhpur 15,000), Moradabad II (Moradabad 650), Aligarh II (Aligarh 400), Tundia D (Agra

300), Lakkar D (Saharanpur 50), Meerut D (Meerut 250), Saharanpur D (Saharanpur 250), Bahraich D (Bahraich 3,136), Bhak rail D (Dehra Dun 1,000), Pauri D (Corbawal 112), Nalva Nagar D (Gorakhpur 100), Hamirpur D (Hamirpur 190), Mahoba D (Hamirpur 190)

The following are the names of power houses which were also in operation for constructional purposes, showing their location and installed capacity in kW within brackets: Bhak Pathar D (Dehra Dun 200), Chapra T (Mirzapur 6,000), Pipri T (Mirzapur 4,000), Roberts ganj T (Mirzapur 600)

Continuing schemes their installed capacity and probable date of completion respectively: Eastern Area power projects 45,000 kW (3,000 kW commenced 1959), Kanpur power stat on 15,000 kW 1959-60

The following are particulars about power houses after completion of the 2nd Five Year Plan scheme showing their location and installed capacity in kW within brackets: Mirzapur II (Mirzapur 25,000), Harduaganj I (Aligarh 60,000)

These are included in a fuller table given below

Projects Under Execution

Name of Power House	Installed Capacity	District	Cost in lakhs of rupees	When started	Completion
Rihand H.	250,000	Mirzapur	4,526.11	1953-54	1960-61
Matatila H.	15,000	Jhansi	574.25	1956-57	1960-61
* Yamuna H.	17,000	Dehra Dun	1,959.25	1956-57	1960-61
Harduaganj T	60,000	Aligarh	900.00	1956-57	1960-61
Rihand for construction T	6,000	Mirzapur	48.95	1956-57	1956-57

* There are three Power Stations at Yamuna and the cost mentioned is for the whole scheme having an installed capacity of 51,000 kW. The scheme will be completed by 1965-66 and the 1st Power Station of 17,000 kW will be ready by 1960-61

LARGE-SCALE INDUSTRIES, MANUFACTURES

Important large-scale industries in the State are: Textile (Cotton, Woollen and Jute), Sugar, Paper Alcohol, Glass, Leather and Tanning, Oil, Vanaspathi, Rosin and Turpentine, Linters, Paper and Paper Board, Hosiery, Bobbins, Starch, Agricultural Implements, Catechu, Match, Metal Rolling, Engineering, Cigarettes, Precision Instruments and Cement

The State is not rich in minerals. Limestone, iron and copper ores, glass, sand, mica, gypsum, lead, scapolite, sulphur, etc. are found in the Himalayan region and southern districts of the State

Coalfields exist in the District of Mirzapur in Tehsil Sangrauli. Gold is found in minute quantities by washing the sands in some of the rivers in the hills. Limestone is found in the Himalayas and in the districts of Banda and Mirzapur and stone is largely quarried in the districts of Allahabad, Hamirpur, Banda and Mirzapur. At Churk in Mirzapur District Government have set up a cement factory with an installed capacity of manufacturing 700 tons of cement per day. An expansion programme to double its capacity is under way

A preliminary survey report presented to the Heavy Industries Plan Committee of the I.P. Government has revealed the presence of iron ore in Naini Tal (Garhwal), Mirzapur and a few other districts. Coal has been discovered at Singrauli, while Corbawal and Almora have fairly large deposits of copper ore

Deposits of limestone have been found in Mirzapur which could be utilised for the manufacture of calcium carbide and cement. Limestone deposit suitable for the cement industry has been found in Dehra Dun

Gypsum deposits had been reported in Garhwal, Tehri Garhwal, Dehra Dun and Naini Tal. Deposits of fire clay, which could be utilised for the manufacture of refractory bricks, cement crockers, sanitary ware and insulators have been found in Mirzapur district at a place 30 miles off Pipri, the Rihand Dam site. Approximately three million tons of good quality non-plastic fire-clay are stated to be available there

Deposits of magnetite have been found at Jakhra in Almora District

The Government Precision Instrument Factory at Lucknow is engaged in the manufacture of water meters and microscopes of the student and research types. It has a capacity of manufacturing 38,000 water meters and 300 microscopes in a year. The factory produced about 23,167 water meters of 1" size, 1,421 water meters of 1" size and 825 water meters of 1"

size from April to end of December 1954. During the same period 187 scholar microscopes, one comparison microscope, 16 stethoscopes and three diagnostic sets were also manufactured

Kanpur is the chief centre for cotton spinning and weaving mills. According to the latest figures available about 600 persons are employed in registered cotton spinning and baling factories and about 68,000 in spinning and weaving mills.

Agra, the principal centre of shoemaking, is rightly called the Northampton of India and produces shoes worth over a crore of rupees a year. Kanpur is next to it in importance

For further development of the leather tanning industry, the setting up of 20 additional tanning centres was sanctioned in 1954. Besides a research and testing laboratory for conducting research and investigation to find out the optimum conditions and proper tanning properties of indigenous tanning material, 60 tanning centres and three training centres function at present

The glass industry is important at Bahjoi (Balawali), Naini, Haranganu, Bhikohabad (Naini), Allahabad, Ghaziabad and Varanasi. Prayagrah is the chief centre for manufacturing glass bangles in India

There are about 25 general glass factories in the State. They produce approximately 40,000 tons of goods per year, worth Rs. five crores. These factories manufacture different varieties of glass articles including lantern chimneys, globes and shades for electric lights, glass tumblers, dishes and other table ware, bottles and phials, window glass sheets, electric bulbs and glass novelty articles, etc.

At Firozabad in Agra District there are 60 glass bangle factories manufacturing bangles. Three factories produced approximately 16,000 tons of bangles worth Rs. 3.5 crores. In addition to these factories, there are 15 other small factories in different parts of the State making general goods

There are four factories manufacturing vegetable ghee (Vanaspathi) with a capacity of about 150 tons per day. Their total output during 1954-55 was about 34,000 tons. The oil crushing industry is well developed in the State since I.P. produces about 21 crore maunds of oil seeds. There are over 116 big oil mills registered under Factories Act and over 250 small oil mills working with power. About half a dozen oil mills are equipped with refining plant

There are about a dozen organised soap factories manufacturing superior quality soap on scientific lines by boiled process besides a number of small scale and cottage industry units

During 1954-55 the production of soap by the organised factories and small scale units was estimated at 100,000 and 1,50,000 maunds respectively

The paints and varnishes industry is located at Kanpur, Meerut, Bareilly and Lucknow. There are over a dozen medium and small scale factories with a total production capacity of 1,000 tons of paints and enamels and 1 lakh gallons of varnishes. These factories produced 1,000 tons of paints and enamels and 10,000 gallons of varnish during the year 1954-55. Nearly 50 per cent of the total production is exported outside the State

Boiled oil is already being manufactured by some firms producing about 650,000 gallons annually

Allied industries like textile auxiliaries and bolsters are being manufactured at some places

Tin canisters are made at Agra, Mathura, Etawah, Mainpuri and Ghaziabad

There are Fruit Preservation and Canning Institutes at Lucknow and Kanpur under the Director of Fruit Utilization with headquarters at Kanpur. A fruit processing factory has also been established by the State at Kanpur

The sports goods industry in the State is mainly concentrated in Meerut. In order to improve the quality of its products, the industry has been brought within the fold of the Quality Marking Scheme

There are 600 sugar mills in the State (For sugar industry see article 'Sugar Industry')

COTTAGE INDUSTRIES

Main cottage industries in the State: Textile, leather, brass and copper (utensils), lock cutting and building fittings, iron and steel, glass, ceramics and pottery, ghee, oil, soap and gur, wood working, cane and reed furniture and basketry, fibre, essential oils and perfumery, and miscellaneous

In cottage industries Agra produces Vanaspathi and Morniabadi artistic brassware, Vanaspathi Milk and Biscuits, Wooden toy making and glass bead, Baharanpur Wood Carving, Farukhbad Prints, Lucknow Bider and Chikan works and Handloom fabrics, Carpet and Sholar industries of Mirzapur, Moradabad brass comb and artistic brassware, Bareilly and Agra durrie making, Meerut, Lucknow and Kanpur musical instruments, Mathura durrie and silver weaving and calico printing, Prayaggarh Tat-patti are noteworthy

The Directorate of Industries, U.P. has launched a number of schemes to train educated young men in arts and crafts. A tailoring centre has been established at Lucknow. Other training schemes are being implemented at the Occupational Institute, Lucknow, Government Textile Institute and Government Leather Work Institute, Kanpur. Training in wooden toys and allied industries is also imparted at the Central Wood Working Institute, Bareilly.

The German Electroplating Plant is being set up at Moradabad under foreign experts' guidance. Necessary land has been acquired and the construction of buildings is being expedited.

Under the Handloom Development Scheme, 162 sales depots and 63 dye houses had been established till the end of December 1954. A dyeing and finishing factory has also been established at Mau, District Azamgarh. Medium-sized dye houses have also been opened at Meerut and Haridwar.

With a view to rendering common facilities of processing silkworms and razors, their heat treatment, technical advice and availability of the right type of raw materials, a cutlery scheme was started in the First Five Year Plan at Meerut which has since been continued and has been further expanded at Meerut and Hathras (Aligarh).

A Central Design Centre was established at Lucknow in 1956-57, with the object of studying market trends and conducting research in selected industries, designing of improved and new tools as may be found suitable for commercial production, training of designers, publication of information on subjects of use to the artisans and traders and organisation of exhibitions for popularising new designs.

The Centre provides for the training of 20 apprentices per year, at a monthly stipend of Rs. 100 each, 184 new designs have so far been evolved at the Centre.

TRANSPORT

Total mileage of roads (March 31, 1956): 46,153 miles.

Mileage of metalled roads 12,566 miles under the P.W.D. and the District Boards as on March 31, 1956.

Number of passenger service buses: 2,791 (excluding roadways vehicles). Number of goods carrying lorries, trucks: 6,720. Number of taxis: 460.

Fleet of motor vehicles (excluding roadways fleet) on March 31, 1956. Passenger buses 3,224, public and private carriers trucks 9,330, taxis (contract carriages) 414.

The State owns a transport service under the name of U. P. Government Roadways, managed as a Government Department with the Transport Commissioner as the head.

The State is divided into seven regions namely Agra, Allahabad, Bareilly (with which has been amalgamated the Kumaun region), Gorakhpur, Kanpur, Lucknow and Meerut (with which has been amalgamated the Garhwal region). Each region is in the charge of a General Manager.

The U.P. Road Transport Service (Development) Act, 1956, provides for the grant of compensation to the displaced operators who were not provided alternative routes.

The headquarters of the Transport Commissioner is Lucknow.

Capital invested Rs. 6,17,71,000 approximately (31st March 1958).

Number of routes operated 483. Mileage of routes: 22,190.2. Road mileage covered 6,814.8 (March 31, 1958).

By the end of the Second Five Year Plan it is expected to cover 6,964 miles of roads in the State.

Total mileage covered (1957-58): 51,764,002 miles.

Number of vehicles owned by authority on September 30, 1957: Passenger: 1,967; Goods trucks: 136; Taxis: 54.

Number of nationalised city bus services: 23.

Cities where Roadways operate city bus services: Allahabad, Bareilly, Lucknow, Varanasi, Gorakhpur and Agra.

Names of places where suburban bus services operate: Mathura, Vrindaban, Fatehgarh, Farrukhabad, Dehra Dun, Premnagar, Clement Town.

Names of routes operated by the Government Roadways: Etah-Agra-Tundla, Naugarh-Lumbini, Naugarh-Sohratgarh, Rae Bareilly-Sukon Pratapgarh-Kalakanker, Unao-Lalganj, Kidni-Benwar-Mainpuri, Chitraman Benwar-Mainpuri, Bulandshahr-Delhi and Saharanpur-Hardiwar.

Roadways have 49 depot workshops and regional workshops undertaking maintenance and repairs of Roadways fleet. There is a Central Workshop undertaking heavy repairs, reconditioning of engines, chassis, manufacture of bus bodies and batteries, etc. in addition to training of technical personnel.

Special tourist buses have been provided to carry tourists to places of scenic beauty.

Number of passengers carried by Authority during 1956-57: 63,262,235.

Total revenue (April 1, 1956 to January 31, 1957): Rs. 3,42,06,204.

Profit (April 1, 1956 to January 31, 1957): About Rs. 73 lakhs.

No. of persons employed (September 30, 1957): 10,267.

Rate of bus fare for lower class: 7-6 paise per mile.

Goods service has not been nationalised.

CO-OPERATION

Figures as on June 30, 1958.

Total number of co-operative societies: 51,813.

Membership of co-operative societies: 33,26 lakhs.

Total working capital: Rs. 51,24,27 lakhs.

Total owned capital: Rs. 16,43,74 lakhs.

Primary societies including large sized Credit Societies. Total number of societies 43,490. Individuals 18.64 lakhs. Advances during the year 1957-58 Rs. 1,072.00 lakhs. Share Capital Rs. 42.54 lakhs. Working Capital Rs. 1,431.18 lakhs. Value of goods sold Rs. 26.52 lakhs.

District Co-operative Banks and Banking Unions. Total number of Banks 58. Total number of Societies 39,094. Share Capital Rs. 258.42 lakhs. Working Capital Rs. 1,099.11 lakhs. Reserve and other funds Rs. 53.50 lakhs.

Uttar Pradesh Co-operative Bank. Working Capital Rs. 1,057.17 lakhs. Paid up Share Capital Rs. 108.02 lakhs. Deposits Rs. 520.00 lakhs. Reserve fund, other funds and provisions Rs. 25.90 lakhs.

Block Development and Marketing Unions. Total number of Unions 1,942. Share Capital Rs. 69.10 lakhs. Working Capital Rs. 527.67 lakhs. Value of goods sold Rs. 277.18 lakhs.

District Co-operative Federations: Total number of Federations 50. Share Capital Rs. 21.10 lakhs. Working Capital Rs. 198.39 lakhs.

Pradesh Co-operative Federations: Paid-up Share Capital Rs. 26.93 lakhs. Working Capital Rs. 344.82 lakhs. Reserve Fund and other funds Rs. 79.98 lakhs. Business handled Rs. 17.07 lakhs.

Co-operative Seed Stores: Total number of seed stores 1,260. Total Kharif and Rabi Seeds distributed 21.37 lakh mds.; Total demand of Kharif and Rabi Seeds 26.71 lakh mds.; Distributed Oilseeds and green manures 10.35 lakh mds.; Distributed artificial fertilizers 51,930 tons.

Co-operative Farming: Total number of Co-operative Farming Societies 260. Total membership 6,079. Share Capital Rs. 14.36 lakhs. Working Capital Rs. 39.08 lakhs. Reserve and other funds Rs. 1.84 lakhs.

Milk Unions. Total number of Milk Societies 275. Total number of Milk Unions 7. Quantity of milk supplied 2.43 lakh mds.

Brick Kilns. Number of Co-operative Brick Kilns 772. Number of bricks manufactured 4,883 lakhs. Number of persons given work, directly 60,000; indirectly 170,000.

HOUSING

Work on the scheme of subsidised Industrial Housing was carried out in four phases with the target construction of 21,600 houses. Of this target, 13,782 houses were completed under three phases by the end of the First Five-Year Plan. The remaining work under phase four is being continued. Nearly 6,680 quarters were completed by November 1, 1958 out of the proposed construction target of 6,764 quarters to be built under phase IV. The remaining quarters under this phase were expected to be completed by the end of 1958-59.

The townwise distribution of houses constructed by the end of August 1958: Kanpur 14,788, Lucknow 1,046, Agra 1,296, Feroza bad 1,000, Allahabad 504, Saharanpur 792, Mirzapur 96, Gondaupuri (Meerut) 129, Rampur 356, Hathras 216, Bareilly 84, Gorakhpur 108.

During the Second Five-Year Plan it is proposed to construct about 17,750 quarters (including incomplete works of the First Five-Year Plan) in 18 industrial towns of the State under the subsidised Industrial Housing Scheme.

Under the Low Income Group Housing Scheme, 4,161 houses have been completed so far. A sum of Rs. 462.55 has been earmarked for the scheme during the Second Five-Year Plan for construction of 5,675 houses and development of 186.75 acres of land.

Slum clearance in the KANAL towns of the State is another important scheme included in the housing programme. The Central Government has allocated a sum of Rs. 98 lakhs as loan and Rs. 49 lakhs as subsidy. The remaining Rs. 49 lakhs will be contributed by the State Government from the State's resources.

It envisages construction of 1,369 houses and development of 17 open plots. Out of this target, 24 houses have been completed, 92 have reached roof level and the other 136 are at plinth level.

Village Housing Projects Scheme is another important scheme included in the housing programme of the Second Five-Year Plan. A sum of Rs. 170 lakhs is proposed to be distributed as loan during the Second Plan period and the scheme is proposed to be implemented in 450 villages. 255 villages have been selected for the scheme and survey carried out in 52 of them. Master Plans have also been prepared for 41 villages.

Other housing schemes in the State include Plantation Labour Housing Scheme, Sugar Factory Labour Housing Scheme and the scheme of housing municipal sweepers in 37 towns. Work in regard to construction of quarters for sweepers was nearing completion.

MEDICAL AND PUBLIC HEALTH

Vital Statistics (1957):

Death Rate (per thousand) 8.46; Birth Rate (per thousand) 14.82.

Total number of deaths from: Cholera 16,616; Plague 48; Small-Pox 7,103; Malaria 56,541.

Number of State Hospitals and Dispensaries: Allopathic 585; Indigenous 587.

Maternity & Child Welfare Centres 763.

Number of patients treated in State Hospitals and Dispensaries: Indoor 488,055, Outdoor 18,333,283.

Number of beds in State Hospitals : 17,529
Number of operations performed in State-owned hospitals : 615,306

Number of Doctors in Government Service : 1,540

Number of Doctors registered in U.P. : 7,338

Number of Nurses : 1,441

Number of Registered Vaidas and Hakims : 1,050

Number of Vaidas and Hakims in Government service : 767.

Number of State allopathic dispensaries in the countryside : 470

Number of Ayurvedic and Unani dispensaries : 57

State Expenditure on Medical Department : Rs. 40,621,449 (1957-58)

State Expenditure on Public Health (1957-58) : Rs. 15,691,100

With the assistance of the WHO and UNICEF, 200 child welfare centres have been opened since 1947.

Number of dispensaries run by District Boards : 325

Number of anti malaria units : 40, Anti kalazar units : 4

Number of Districts in which antimalarial units function : 43

Number of Districts in which anti kalazar units function : 1 (1956-57)

Number of Filaria Control Units : 6

Number of Filaria Survey Units : 3

Number of districts in which Filaria Survey work is being done : 12

Number of I B Sanatoria : 10, T B Clinics : 27, Total number of beds in the I B. Sanatoria and Clinics : 1,203

Number of leprosy asylums : 15

Number of beds : 1,000

A venereal disease hospital functions at Hakesta

Number of women's hospitals : 151

Under the Employees' State Health Insurance scheme, 13 fixed and two mobile dispensaries were opened at Kanpur for providing medical facilities to industrial workmen drawing an income upto Rs. 400 per month. The scheme has been extended to Lucknow, Agra, Saharanpur, Allahabad, Varanasi, Rampur, Aligarh, Mathura, Bareilly and Shikharbati also where dispensaries have especially been opened for industrial workmen.

LABOUR

Total number of registered factories in the State : 1,000, of which 1,000 have submitted returns. Daily average number of the workers as per returns submitted : 2,42,719

Total number of women workers : 3,540, 1.46% of the total strength

Percentage of Young persons : 2.4 Actual number : 61

Wages of adult agricultural labourer about Rs. 1 per day or Rs. 20 per month without perquisites

Daily wages for those below 18 : 10 annas a day or Rs. 10 a month without perquisites

Industries in which minimum wage is fixed : Rice, Flour or Dal Mills, Tobacco (including bidi making), Manufacturing units in Rubber, Tea or Coffee Plantation in Dehra Dun District only, Oil Road Construction or Building operations, Stone Breaking or Stone Crushing, Lumber Manufacturing, Textiles and Leather goods Manufacturing, Public Motor Transport and Local Authority

Total number of man days lost : 78,521 Lockouts and Strikes : 71, Workers affected : 10,462

State Govt. Acts for the welfare of the labourers

**Excluding figures of four degree colleges of the State whose enrolment and number of teachers during 1956-57 was 1,779 and 80 respectively

(1) U.P. Shops and Commercial Establishments Act (1947), (2) U.P. Industrial Disputes Act (1947), (3) U.P. Maternity Benefit Act (1958), (4) U.P. Sugar and P. and M. Alcohol Industry, Labour Welfare and Development Fund Act (1954), (5) U.P. Industrial Housing Act (1955), (6) U.P. Welfare Fund Act (1954)

Trade Unions upto November 1958 : 68, Total membership : 2,00,000, 100% on returns received at the end of 1958

Labour Welfare Centres : 54, Total annual expenditure on them : Rs. 12,10,000 (1958)

Under the Sugar Factory Labour Housing Scheme 1,287 tenements have been constructed in 12 sugar mills at a cost of Rs. 54,40,000

The State Conciliation Boards decided 155 cases of which the parties came to a settlement in 686 cases and the number of cases decided by Adjudicator and State Industrial Tribunal were 494 and 69 respectively in 1957

Provident Fund Scheme covered 8105 employees, in 20 factories in 1958

During 1957 the activities of the Labour Department were extended to non-labour sphere by the introduction of Old-Age Pension Scheme

Initially with a fund of Rs. 20 lakhs the Old Age Pension Scheme was introduced in December 1, 1957 and the first instalment of the pension was paid to 11 destitutes. At the age of 70 in the State in Republic Day (26th Jan) 1958, Number of people to whom old age pension has been paid : 4,400

Of the two new projects the Employment Market Information Scheme has been started at 21 Exchange Offices and the Vocational Guidance Scheme at the Lucknow office

Amenities are provided to labourers through 41 labour welfare centres

Social Welfare : The State Social Welfare Department was established in January 1953. The Department runs the women welfare scheme in all districts. It has also started a couple of centres for the village youth and provides financial help to widows, orphans, orphanages, schools for the deaf dumb and blind and other voluntary social welfare organisations

The department has taken up in itself the care of the girls from orphan institutions by the enforcement of Suggestion 4. In rural areas, A. V. S. villages of the State Private welfare and children homes will now be controlled by the department under the A. V. S. Women and Children Institutions under the A. V. S.

Five after care homes have been opened for men and women released from jails and other non-correctional institutions

EDUCATION (1957-58)

Total number of Basic Primary Schools : 5,047, total enrolment : 32,77,099, total number of teachers : 85,533

Total number of Junior High Schools : 1,081, total enrolment : 4,56,600, total number of teachers : 21,144

Total number of Higher Secondary Schools : 1,084, total enrolment : 7,21,337, total number of teachers : 30,688

Total number of Universities : 7, total enrolment : 29,812, total number of teachers : 1,760

Total number of Degree Colleges : 80, total enrolment : 51,84,000, total number of teachers : 2,51,900

Total number of Sanskrit Pathshalas : 1,000, total enrolment : 40,020, total number of teachers : 4,565

Primary education upto class VI was made free from 1957-58

Compulsory education for boys introduced in 95 municipalities, for girls in the whole area of eight municipalities and in parts of two municipalities

The U.P. Ministry of Education was expected to open a model school for blind children at Dehra Dun on January 4, 1959

Expenditure on education from Government funds in 1957-58 was about Rs. 15.11 crores

(For more statistical data see tables for 1956-57 under the main article on Education)

JUDICIARY

A scheme of separation of judiciary from executive was introduced in 1949 in eight selected districts. It was extended to other districts. The scheme has now been working in 18 districts : Muzaffarnagar, Mathura, Mainpuri, Bareilly, Aligarh, Bulandshahr, Meerut, Ghaziabad, Jhansi, Lucknow, Shahjahanpur, Farrukhabad, Fatehpur, Unnao, Rai Bareilly, Sitapur, Gonda and Bahraich

BUDGET (1958-59)

(See Table Particulars)

U. P. FINANCIAL CORPORATION.

104, Swarnaprasad, Kanpur

The Corporation was established on Nov. 1, 1954. It has an authorized capital of Rs. 8 crores, which is divided into 8 lakh fully paid up shares of Rs. 100 each. The paid up capital of the Corporation now stands at Rs. 10 crores divided into 1 lakh shares of Rs. 100 each fully paid up. These shares have been distributed in this way : 55% State Government : 1,000 Reserve Bank, 10,000 scheduled banks, 9,000 insurance companies, 1,100 co-operative banks, 2,400 others

The object is to provide finance to small and medium scale industries

During the period November 1, 1954 to March 31, 1958, 2,601 applications were received out of which 49 applications aggregating Rs. 1,13,00,000 have been sanctioned. The effective amount sanctioned as on 31st March 1958 is Rs. 84,00,000 and the total disbursement amounted to Rs. 54,40,000

Profit for 1957-58 : Rs. 50,52,110

UNIVERSITIES

Agra University

Chancellor : Governor, Uttar Pradesh (Rs. office)

Vice-Chancellor : J. C. K. P. Bhattacharya, M.A., LL.B.

Registrar : Dr. P. P. Mathur, D.Sc.

Affiliated Colleges : 14, Students : 34,064 (approx.)

LIST OF COLLEGES

Agra College : Agra

Agricultural College, Kanpur

A. K. College, Shikharbati

A. S. Jai College, Jhansi

Almora Degree College, Almora

Aligarh Shikharbati Agrawal Degree College, Mathura

Balwant Rajput College, Agra

Berhampur College, Aligarh

Bareilly College, Bareilly

Brahman Sanskrit Mahavidyalaya, Banka

Bundelkhand Degree College, Jhansi

Christ Church College, Kanpur

D. A. V. College, Bulandshahr

D. A. V. College, Dehra Dun

D. A. V. College, Kanpur

D. A. V. College, Muzaffarnagar

D. N. Degree College, Firoz (Bulandshahr)

D. R. H. Government's Degree College, Mainpuri

D. S. M. College, Mathura (Meerut)

Dayanand College of Law, Kanpur.
 Dayanand Vedic College, Oral.
 Dayanand Women's Training College, Kanpur
 Deva Nagri College, Meerut.
 Dharmaram College, Aligarh.
 Digambar Jain College, Baraut.
 Engineering College, Dayalbagh, Agra
 Faizabad Degree College, Faizabad.
 G. F. College, Shahjahanpur.
 Ganjdundwara Degree College, Ganjdundwara
 (Etah).
 Gokal Dass Hindu Girls' College, Moradabad
 Govt. Central Textile Institute, Kanpur.
 Govt. Basa College, Rampur.
 Gurukul Kangri Degree College, Gurukul,
 Kangri.
 Harcourt Butler Technological Institute, Kan-
 pur
 Hindu Degree College, Moradabad
 Indian Veterinary Research Institute, Izatnagar
 J. V. Jain Degree College, Baharanpur.
 Jat Vedic Agricultural College, Baraut
 Kanhlal Hasantial Mahavidyalaya, Mirzapur.
 K. G. K. College, Moradabad
 K. V. Degree College, Machhra (Meerut)
 Kishori Raman College, Mathura
 Kishori Raman Girls' College, Mathura
 K. N. Govt. College, Gyanpur (Varanasi)
 Lala Ram Lal Agarwal Degree College, Baran
 (Allahabad)
 Mahadevi Kanya Pathshala, Dehra Dun
 Mahara Singh Degree College, Baharanpur
 Meerut College, Meerut.
 M. M. H. V. College, Ghazalabad
 Multanlal Modi Degree College, Modinagar
 (Meerut).
 N. R. E. C. College, Khurja.
 Nanak Chand Anglo Sanskrit College, Meerut.
 Narain College, Shikhabad.
 Phool Chand Degree College, Hathras
 Radhaswami Educational Institute, Dayalbagh,
 Agra.
 Ragnath Girls' College, Meerut
 Raja Mahendra Pratap Prem Vidyalaya College,
 Narsan (Baharanpur)
 Rastriya Kisan College, Shamli (Muzaffarnagar)
 R. S. K. College, Shimshaoli (Meerut)
 R. S. M. College, Dhanpur (Bijnor)
 R. D. College, Muzaffarnagar.
 Shri Saraswati Vidyalaya Degree College, Hapur
 S. M. College, Chandauli
 S. N. Medical College, Agra
 S. N. Son Balika Vidyalaya Degree College,
 Kanpur.
 St. John's College, Agra.
 Subhash National College, Unnao
 Tika Ram Kanya Mahavidyalaya, Aligarh
 U. P. College of Vet. Science and Animal
 Husbandry Mathura
 Vaish Degree College, Shamli (Muzaffarnagar)
 V. S. B. D. College, Kanpur
 Women's Training College, Dayalbagh, Agra.
 Y. D. College, Lakhimpur Khuri

BUDGET ESTIMATES FOR 1959-60

Total income . Rs. 23,43,320
 Total expenditure : Rs. 20,65,163

Aligarh Muslim University

Aligarh

Chancellor : His Holiness Dr. Sardar Syalina
 Tabir Saifuddin.
Pro-Chancellor : Nawab Sakul Mulk Dr. Hafis
 Mohd. Ahmad Said Khan of Chhatari.

Vice-Chancellor : Col B. H. Zaidi.
Pro Vice Chancellor : Dr. Yusuf Husain Khan.
Registrar : Y. D. Khan
 Residential. Students 5,000 (approx.).

CONSTITUENT COLLEGES

Women's Muslim College, Aligarh.
 College of Engineering and Technology, Aligarh
 Tibbiya College, Aligarh

BUDGET ESTIMATES FOR 1958-59

	Rs.
Anticipated Income	52,34,232
Anticipated Expenditure	54,69,637
Colling fixed by the Finance Com- mittee against the total ap- proved expenditure	52,75,000
(a) Central Govt. grants	Rs.
Block grant including grant for D. A.	37,90,000
(b) U. P. Govt. grants	1,93,914
(c) Former Ruling States grants	7,200
Total	39,91,114

Allahabad University

Chancellor : Governor of U.P.
Vice Chancellor : Dr. Shri Ranjan, D.Sc., F.S.I.
Registrar : K. L. Govil, M.A.
 Unitary, teaching, residential; Colleges 4.
 Students 6,777.

LIST OF COLLEGES

Allahabad Agricultural Institute, Naini, Allahabad.
 Chaudhari Mahadeo Prasad Degree College,
 Allahabad
 Ewing Christian College, Allahabad.
 Agarwal Vidyalaya Degree College, Allahabad

BUDGET ESTIMATES, 1958-59

Total income : Rs. 34,15,620.	
Total Expenditure : Rs. 34,15,620.	
	Rs.
State Govt. Grant : Recurring ..	24,41,014
Total ..	24,44,014

VI IALIS FOR 1957-58

Total income Rs. 34,70,602.
 Total expenditure Rs. 34,15,506
 State Govt. Grant Rs. 14,15,350

Banaras Hindu University

Banaras 5

Chancellor : Lieut. General His Highness Maha-
 raja Sir George Jiwaji Rao Scindia Bahadur,
 G.C.S.I., G.C.I.E.

Pro-Chancellor : His Highness Maharajadhiraj
 Sir Kameshwar Singh Bahadur, K.C.S.I.,
 D. Litt., of Darbhanga.

Vice-Chancellor : Dr. Venkankar Jha, Ph.D.
 (Lond.)

Pro-Vice-Chancellor : M. C. Bijawat, B.Sc., B.A.
Registrar : Major S. L. Dar, M.A., LL.B.

Residential, Constituent Colleges 14; Affiliated
 Colleges 7. Students 8,952 (1957-58).

LIST OF COLLEGES

Central Hindu College.
 Central Hindu College (Intermediate Section),
 Varanasi.
 College of Agriculture.
 College of Indology.
 College of Mining and Metallurgy.
 College of Music and Fine Arts.
 College of Science.
 College of Technology.

Engineering College.

Law College.

Sanskrit Mahavidyalaya.

Teachers' Training College.

Women's College.

Basant College, Rajghat, Varanasi.

D. A. V. (Degree) College, Varanasi.

Harish Chandra College, Varanasi.

U'dai Pratap College, Varanasi

Vasanta College for Women, Rajghat, Varanasi.

Arva Kanya Mahavidyalaya, Kanachha, Varanasi

BUDGET ESTIMATES FOR 1958-59

Income : Rs. 1,97,25,670.
 Expenditure : Rs. 2,01,21,430.

Lucknow University

Residential and Teaching University.

Chancellor, Governor of Uttar Pradesh.

Vice Chancellor, Prof. K. A. Subramanya Iyer,
 M.A. (Lond.)

Registrar, K. D. Tewari, M.A., LL.B.

Number of students 10,346 including 1,677
 women students and 260 research scholars for
 1957.

LIST OF COLLEGES

Isabella Thoburn College, Lucknow.
 Kanya Kubja College, Lucknow
 Karamat Hussain Muslim Girls' College, Lucknow.
 Lucknow Christian College, Lucknow.
 Mahila Vidyalaya College, Lucknow.
 Shia College, Lucknow.
 Kanya Kubja Vocational College, Lucknow.
 D.A.V. College, Lucknow.
 Vidyan Hindu College, Lucknow.
 Jubilee Girls' College.
 Louto Convent Girls' College, Lucknow.

Roorkee University

Roorkee

Chancellor, V. V. Giri, Governor of Uttar
 Pradesh

Vice Chancellor : Padma Bhushan Dr. A. N.
 Khosla, I.S.K. (Rtd.), M.I.

Pro Vice Chancellor : K. N. Kathpalia, I.S.K.
 (Rtd.)

Registrar : S. S. Sharma, M.A.

Unitary, Teaching and Residential, Students
 (1957-58) Full Time 1,070 (men 1,069
 women 1), Part time 4. New admissions 691.
 Post graduate students 40

Students from other countries : 41 (Nepal 25,
 Sikkim 2, British East Africa 3, British West
 Indies 1, Gold Coast 2, Malaya 2, Burma 1,
 Sudan 1, Ceylon 1, Indonesia 1)

BUDGET FOR 1957-58

	Rs.
Revenue	5,09,971
Grant-in Aid from State Govern- ment	32,60,315
Grant from Govt. of India	1,55,674
Loan from Central Government for construction of K. S. Hostel	2,00,000
Grant from the University Grants Commission	3,80,671
Scholarship to P. G. Students	20,250
Grants from C.S.I.R. for 14 schemes under investigation	11,073
Other sources	75,305
Expenditure	46,63,969

ASSOCIATIONS, ETC.

ACADEMY OF ZOOLOGY

164, Civil Lines, Agra

President, Beni Charan Mahendra, *Secretary* G. N. Pachori; *Treasurer* S. S. P. Capoor.

THE AGRA MERCHANTS' CHAMBER LTD

Bari Kothi, Belanganj, Agra

Chairman Amar Nath Agarwal, M.P., *Vice-Chairman* Ram Kishore, *Supervising Director* Balaqi Das Goyal, *Secretary* Hothal Jain

AGRA SHOE MANUFACTURERS ASSOCIATION

Sadar Bhatti, Agra

President A. N. Varma, *Vice-President* J. R. Chopra, *Hon. General Secretary* H. C. Dewan

AKATHIT GYAN KENDRA ACADEMY

'Nand Bhawan', Gautam Budh Marg Lucknow
Secretary and Director Dr. S. N. Pandey M.A. Ph.D. (U.S.A.), C.T.D. (London) C.T.D. (Him.)

AKHIL BHARAT SARVA SEVA SANGH

K. 33 4 Gadhgar Varanasi

The Sangh was founded consequent on a resolution passed at a meeting of the representatives of several constructive work organisations (formerly working under the guidance of Mahatma Gandhi) held on the 15th of March 1948 at Seva Gram.

The Sangh was originally formed as a federation of these organisations. Later, several of these organisations merged themselves into the Sangh, which has thus become the chief executive organ for constructive work. The objects of the Sangh are as follows:

To establish a social order free from all exploitation and based on the principles of Truth and Non-violence, and with this object to foster village mindedness in the citizens of India.

To serve, help and educate the common man of India especially poor rural folk so that poverty, disease, ignorance and other miseries may be conquered and men may be made conscious of their own power.

The programme includes various constructive work items like communal harmony, khadi removal of untouchability, Basic Education, relief to the poor (by securing employment, living wage, security and unemployment benefit, educational and medical facilities, research in hand spinning and weaving).

The Sangh believes in decentralisation of authority whether economic or political. In the political sphere it has faith in direct democracy which it calls 'Gram Swaraj'. The village is accepted by the Sangh as the basic unit for political organisation and economic self-sufficiency.

At present the Sangh is concentrating on the Bhooman Yajna, Sarvodaya Patra and Shanti Sena movements started by Acharya Vinoba Bhave a close associate and disciple of Mahatma Gandhi.

Literature about Bhooman Sampatidan and other Vinoba Yajna movements can be had from Akhil Bharat Sarva Seva Sangh, Publication Division Rajahat, Kasbi (Banaras) or Sarvodaya Prakashan Mandir, Ahmedabad, or Sarvodaya Pracharalaya, 24 Srinivasapuram, Tanjore, South India. The Sangh also publishes three weekly papers namely *Bhooman Yajna* (Hindi) *Bhooman* (English), *Bhooman Taksik* (Urdu), and *Vinoba Prachar* (Hindi) thrice a week.

The Sangh has its headquarters at Varanasi (U.P.).

The Sangh has a general body consisting at present of 113 members. The Executive organ of the Sangh is known as the Prabandh Samiti of members. It has a President, a Secretary, four Joint Secretaries and a Treasurer. The Sangh has a Board of Trustees consisting of three who hold the property of the Sangh in trust.

Four well known associations which merged into the Sarva Seva Sangh are: All India Spinners Association, All-India Village Industries Association, (to Sarva Sangh), Hindustani Prachar Sabha.

ALIGARH LOCK MANUFACTURERS AND TRADERS ASSOCIATION

Baza Bazar Aligarh

President Mirza Ibrahim Beg, *Secretary* Jagdish Prasad Varshney

ALL INDIA CRIME PREVENTION SOCIETY

Office Behari Niswani Kanpur and Council House Lucknow*President* Paripurnanand Varma*General Secretary* Dr. B. S. Haikarwal

Supported by West Bengal U.P. and Bihar Govts. and Government of India

ALL INDIA KASHIRAJ TRUST

Fort Ramnagar Varanasi

Objects: Among others, advancement and propagation of the Sanskrit language, Sanskrit learning and Indology.

H. H. the Maharaja of Banaras, *Chairman*, Dr. Panna Lal, *Trustee nominated by the Govt. of India*, Dr. Sampurnanand, *Chief Minister*, U.P. and Pt. Kanupriya Tripathi, *Education Minister*, U.P., *Trustees nominated by the Govt. of Uttar Pradesh*, Dr. Sumit Kumar Chatterji, *Chairman*, West Bengal Legislative Council, Maharaj Kumar Dr. Raghuir Singh, M.P. and Pt. Murari Lal Mehta, *Trustees nominated by H. H. the Maharaja of Banaras*.

ALL INDIA NATURE CURE ASSOCIATION

52 Gwynne Road Lucknow

President Kareshwar Dayal, *Hon. Secretary* Dr. S. J. Singh

ALL INDIA SEVA SAMITI

Seva Samiti Building,

Seva Samiti Road, Allahabad 3

The Samiti conducts a library called the Hindustani Memorial Library with over 12,000 volumes, which is also on a Seva Samiti Road. The Samiti conducts in addition a hospital called the Seva Samiti Hospital.

It also runs a Seva Samiti Vidya Mandir Higher Secondary School in which girls also read upto sixth standard. The Samiti has affiliated branches in various places and has a Northern India branch office at Amulda.

President, G. S. Pathak*General Secretary*, Dr. H. N. Kumar, I.D., D.Litt. M.P.*Organising Secretary*, S. R. Bharatiya M.A.

ALL INDIA SPORTS MANUFACTURERS FEDERATION

Suraj Kund Road Meerut

ALLAHABAD TRADERS' ASSOCIATION

55-A Kanta Prasad Kakkar Marg Allahabad 1

President Beni Prasad Agarwal, *Vice President* Ram Charan Das, *Secretary* Luxmi Narayan Agarwal

ANJUMAN FARAGHI URBH HIND

Sultan Jehan Manzil Aligarh

President Col. B. H. Zaidi, *Vice President* Pandit Sunderlal, *Secretary* Prof. A. A. Suria

ARCHAEOLOGICAL MUSEUM

Dampier Park Mathura

Curator V. N. Srivastava

ARYA BHARMA PUSTAKALAYA BANARAS

The biggest Hindi public library in India. No. of books, over 60,000. Specially rich in ancient and early Hindi books and periodicals, of great use to research scholars. Combined Reading Room. All leading Hindi papers and journals, and selected English periodicals also available.

ASSOCIATION OF SCIENTIFIC WORKERS OF INDIA

800, Arya Nagar, P.O. Box No. 308, Kanpur (U.P.)

Affiliated to the World Federation of Scientific Workers. Has branches in all the main centres of scientific activity in India.

Founder President, Pandit Jawaharlal Nehru;*President*, Prof. P. C. Mahalanobis, *Vice-Presidents*, Dr. S. Husain Zuhri, Dr. B. Mukherji, Dr. D. S. Kothari, Dr. A. Varma, *General Secretary* (Org.), M. R. Raman, *General Secretary* (Pub.), Dr. D. K. Roy, *Joint Secretary* (Org.), V. H. Rao, *Joint Secretary* (Pub.), Dr. S. K. Chatterjee, *Treasurer* J. S. Mirza.

BAIWANI VIDYAPITH RURAL INSTITUTE

P.O. Bichpuri (Agra)

Educational Institute sponsored by the Government of India.

Hon. Director, Dr. R. K. Singh, *By Director*, Dr. S. K. Anant Rao, *Executive Secretary*, P. C. Gowan.

THE BANARAS INDUSTRIAL & TRADE ASSOCIATION

Chowk Banaras

President M. Abdul Alim Sahib, *Hon. Secretary* Pralhad Das M.A., *Treasurer* Anand Prasad Agrawal

BHARATI KATA BHAVAN

(Art Museum)

Banaras Hindu University, Banaras 5

Hon. Director, Bal Kishindas, *Asst. Curator* Vijay Krishna, *Editor* Kala Vidya Anand Krishna

THE BHARATI SCOUTS AND GUIDES

UTTAR PRADESH

17 Katra Road, Allahabad

President Khandipati Tripathi, M.A., *Minister of Edu. Home and Information*, U.P., *State Chief Commissioner*, R. N. Jaisri, *State Secretary*, P. S. Sharma

BHARATI GANITA PARINAD

(FORMERLY BENARAS MATHEMATICAL SOCIETY)

Address: Lucknow University, Lucknow*President*, Dr. Gorakh Prasad*Secretary*, Dr. A. Sharma, *Editor*, Dr. Ram Ballabh

BHARATIYA HINDI PARINAD

Office, Hindi Department University of Allahabad Allahabad*Patron*, Dr. Ishwendra Varma, *President*, Prof. Sand Dulari Vajpai, M.A., *Vice Presidents*, Dr. Mata Prasad Gupta, M.A., Dr. and S. Nagappa

BHARATIYA KATA NIKETAN

(Chandauli)

President, Dhannendra Jain, *Hon. Secretary*, Ram Prakash Agrawal, *Hon. Principal*, Vishweshwar Kumar

BHARATIYA SANGHET TATHA

TATIKALA VIDYAPITH

British Radio Building, The Mall, Kanpur

Kulpati, Gopi Nath Singh, M.P., *Pro Kulpati*, Mahapandit Sanghet Krishna Rao Khannar, *Pandit Founder and Upa Kulpati*, S. C. Kaulhal, M.A., D.D.

BHATHANDY SANGH VIDYAPITH

1, Kashi Singh, Lucknow

Raja Bhagvendra Pratap Singh, M.A., *President*, Raj Uma Nath Mall, M.A., *Vice-President*, Lal Chait Bhann Singh, *Treasurer*, Dr. S. S. Ratanjankar, *Chief Director*

BHARAT NAHVI INSHIJITIK OF PALAKHIMTANY

63, University Road Lucknow (U.P.)

*Scientific Body**Palaeontological Society**President and Hon. Director*, Mrs. Kavitha Bhatti, *Secretary and Asst. Director*, Dr. K. K. Karanag

BINAT BANA VYAPAR MANDAL

Raja Darwaza, Varanasi

President Md Hassan *Secretary* Mahabir Sharma, *Treasurer* Seth Kedar Nath**BRASS AND PRAYAGI TOIA MANUFACTURERS ASSOCIATION**

Babhnaiya Toia, Konerhatti, Mirzapur

Chief Director Jai Dev Verma, *Secretary* Bhadro Prasad Pandia**BUREAU OF PSYCHOLOGY**

Allahabad

Director Dr S N Mohotra *Senior Research Psychologist* Dr J P Srivastava, Dr S N Upadhyaya**CAWNPORE CLUB LTD****Membership:** (1) *Ordinary Members* Entrance Fee Rs 100, monthly subscription, Rs 20; (2) *Temporary Members* No entrance fees Rs 5 per day with a maximum of Rs 50 per month (3) *Service Members* No entrance fees Confined to officers below the rank of substantive Lt-Col or equivalent Monthly subscription Rs 12*Chairman* Col Capt D A Moha, IAS
Hon Secy Ranooch Srivastava**THE CAWNPORE SUGAR MERCHANTS ASSOCIATION**

61-57 Collectorganj Kanpur

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Chandauli

Shri Gopal *President*, Kapoorchand Jain, M.A., B.Com., *Hon Secy***THE CHAMBER OF COMMERCE**

Hajur Dist Meerut

President Paramagnand *Vice President* Om Prakash, *Secretary* R S Singh**THE CHAPRA VYAPAR WARDHINI SABHA**

Densalinganj Mirzapur

Honorary President Bhagwati Prasad Jayaswal, *Honorary Vice President* Ramesh Chand Jain, *Honorary Secretary* Suraj Mal**COLLAGE INDUSTRIES DEVELOPMENT INSTITUTE**

Tilpurwa Hosnalinganj, Lucknow

Director in Charge P Kapoor *Director of Organisation* Chander Prakash Kapoor *Associate Director* R Prakash**DIOCESE OF ALLAHABAD***Bishop's House*, 32, Thornhill Road, Allahabad
Bishop of Allahabad Rt Rev I Raymond
Vicar General, Rt Rev R D McIllo**DISTRICT CRIME PREVENTION COMMITTEE**

Midland House, Weston Road Kanpur

Hon Secretary U C Rastogi, M.A.**EMPLOYERS' ASSOCIATION OF NORTHERN INDIA**(14-77, Civil Lines Post Box No 344 Kanpur)
Chairman Lala Sohan Lal Singhania
Vice Secretary and Chief Labour Officer M I Khullar**ETHNOGRAPHIC AND FOLK CULTURE SOCIETY**Anthropology Department,
Lucknow University Lucknow*President* Dr Sita Ram, D Litt, *Vice President* B D Sanwal ICS, *Hon Secretary* Prof D N Majumdar**FAMILY PLANNING ASSOCIATION**

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President Mrs Him Sanwal, *Vice President* Dr Nand Kishore, *Secretary* Dr Balkrishna**FRIENDS UNION CLUB**

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Alfred Park Allahabad

President Ayan *Secretary* Mahomah pulhviya Dr Umsha Mishra M.A., D Litt
Treasurer K M Lal (Retd Chairman),
U P Public Service Commission**THE GENERAL MERCHANTS' ASSOCIATION**

P.O. Box No 8 Dehra Dun

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Mahatma Gandhi Road, Allahabad

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Smt Parvati Bagla Road, Kanpur

Principal Dr I D Dasgupta *Head of Chemical Technology Section* B K Kinnothi *Head of Textile Technology Section* J N Singh
Vice Principal B K Jha**GOVERNMENT CENTRAL WEAVING INSTITUTE**

Chowkaghat Varanasi

Research Officer J C Seth**GOVERNMENT CENTRAL WOOD WORKING INSTITUTE**

26 Civil Lines Bareilly

Principal R K Sharma *Vice Principal* B C Rai *Cabinet Instructor* K C Kapoor**GOVERNMENT PRECISION INSTRUMENTS FACTORY**

Aishbagh Road Post Box 151 Lucknow

Engineer Manager R K Singh, *Workshop in Charge* K Schroter**GOVERNMENT TECHNICAL INSTITUTE**

Lucknow

Principal D N Jayakar, BSc (Hons), MEd (India)**GOVERNMENT WOOD WORKING INSTITUTE**

Katra Road Allahabad

Principal P A Kurup**GURUKUL KANGRI VISHWAVIDYALAYA**

P.O. Gankul Kangri (Dist Saharanpur)

Vice Chancellor Pt. Indra Advait Chospati
Principal Pt. Prityavrat Advait Chospati,
Recteur Pt. Nagishwar Advait Chospati, M.A.**H B TECHNOLOGICAL INSTITUTE**

Company Gardens Kanpur U.P.

Principal Dr H Trivedi MSc (Hons) DSc (Ald) D Met (Sheffield) D Inst
Oil Expert U P Gort, Om Prakash MSc,
Dip Tech Arts MEd Chem M*Industrial Chemist* U P Government Ayan
Alcohol Technologist U P Government
W R Dumb MSc (Chem) Ald MSc (Ind Fermentation) Birmingham**HIDE MERCHANTS' ASSOCIATION**

Farra-akhana, Kanpur

President M A Barkat, *Vice President* A Aziz, *Hon Secy* M Yakub M A**HIND KUSHI NIVARAN SANGH**Co Director of Medical and Health Services,
U P, Lucknow*President* Dr K M Lal, *Vice President* B D Sanwal ICS**HINDI SAMITHI**

Royal Hotel Bldgs Lucknow

Chairman Dr Ram Prasad Tripathi, *Secretary* Bhagwati Sharan Singh, *Asst Secretary* Balraj Singh**HINDUSTANI ACADEMY**

4 Kamla Nehru Road Allahabad

President Kamla Kant Verma, *Secretary* Dharmendra Varma M.A., D Litt**INDIA VILLAGE SERVICE**

(Marehra, P.O. Dist Etah, U.P.)

The aim of the service is to enable the village people to meet their needs by living and working among them. The programme of work includes health, sanitation, agriculture, hand-work, child care, literacy, citizenship, etc

The service is located in three different areas: Marehra (Dist Etah) Mahanagar (Dist Lucknow) Chhiti Sidihi (Dist Etah). Enquiries however should be sent to Marehra. Funds are largely raised from private sources both in India and abroad

INDIAN BRISTLE MERCHANTS ASSOCIATION

18-4, Mahatma Gandhi Road Kanpur

President K I Khatwal *Vice President* S R Sood, *Secretary* J M Sadri**INDIAN CERAMIC SOCIETY**

Banarus Hindu University Banarus 5

President Dr H K Mitra
Secretary Prof H N Roy
Treasurer I R Bhagat**INDIAN CONFERENCE OF SOCIAL WORK**

Lucknow University Lucknow

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"The Temple of Service"

Mahatma Gandhi Rd Kanpur

President Dr R Rohat
Hon Gen Secretary Dr Satwat Singh
Hon Treasurer Dr Gulzar Lal**INDUSTRIAL TRAINING INSTITUTE**

Aishbagh Lucknow

Principal A C Sharma**INSTITUTE OF OPHTHALMOLOGY**

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Director R R Shukla**INSTITUTE OF ORIENTAL PHILOSOPHY**

Arindabon (Dist Mathura)

President His Holiness Swami B H Bon Maharaj *Vice President* M Anantaajaynam Assangan, Speaker, Lok Sabha,
Registrar J S Pandit M.A., B.T.**INTERNATIONAL CLUB**

Munshi Hall Ram Tirth Marg Lucknow

President Dr Sushon Bose *Hon Secretary* Prof M Mangalik, *Hon Treasurer* A N Jindal

It insists on the purity of the means as the
of the ends.

For the achievement of the aim, the following programme is followed:

Communal harmony (fellowship between followers of different faiths and sects); Removal of untouchability; Abolition of class distinctions; Prohibition; Promotion of khadi and other home industries; Village sanitation; Basic Education; Equality of status and rights, for both men and women; Health and hygiene; Development of provincial languages; Removal of provincialism; Propagation of Hindustani as the national language; Economic equality; Development of agriculture; Organization of labour; Welfare of aboriginals; Organization of students; Service of leprosy patients; Relief work; Cow protection, Naturopathy.

Whoever accepts the above aim and the basic principle and endeavours to follow them is eligible for the brotherhood of the Samaj, on sending his or her name and address to the Secretary of the Sarvodaya Samaj, K. 33 4, Gidghar, Varanasi.

The 30th January of every year when Mahatma Gandhi passed away is observed at all places as Sarvodaya day.

On 12th February every year, fairs are organized at places where the Mahatma's ashes were immersed.

To facilitate mutual contact and exchange of views among the Savaka Sarvodaya melas and Sammelans are held.

The deliberations of the Samaj are of an advisory nature and not mandatory in any way.

SHAHJAHANPUR MERCHANTS CHAMBER Shahjahanpur.

Director Jagdish Chander Kumra; President Devki Nandan Mehrotra; Secretary Laxmi Narain Gupta.

SHAHJAHANPUR RICE MILLERS' ASSOCIATION Shahjahanpur.

President Nagar Mal; Secretary Kirpal Singh.

SHRELA DHAR INSTITUTE OF SOIL SCIENCE

University of Allahabad, 2-D, Bell Road, Allahabad.

Director N. R. Dhar, D.Sc. (Land and Parks), F.R.C. (Land), F.R.I. (Foreign Member of the French Academy of Agriculture).

ST. JOHN AMBULANCE BRIGADE (INDIA)

No. VII (U.P.) District.

Office of the Director of Medical and Health Services, P. B. No. 67, Lucknow.

Asst. Commissioner, Dr. K. M. Lal, F.M.S.I., M.Surg. and Suppl.; Dr. P. D. Srivastava, M.S.; M. Suppl., (Surg.) Dr. (Km) (U.P. Kanraj).

THE SUGAR TECHNOLOGISTS' ASSOCIATION OF INDIA

Nawabganj, Kanpur, (U.P.).

President, Dea Raj Narang; Vice-Presidents, J. M. Saha, S. N. Gundu Rao, Hon. Secretary, N. C. Varma; Hon. Treasurer, J. P. Shukla; Hon. Editor, Dr. S. C. Sen.

THE TANNERS' FEDERATION OF INDIA

14/69, Civil Lines, Kanpur.

President: Mohammed Yakub; Secretary: R. K. Mehra.

TEXTILE ASSOCIATION (INDIA) REGD

14/1, Civil Lines, Kanpur.

Chairman: N. S. Kapoor; Hon. Secretary: C. G. Shively; Hon. Jt. Secretary: V. K. Gautam; Treasurer: P. N. Gurnain.

THEOSOPHICAL SOCIETY (Kamachha, Banaras I.)

General Secretary: Rohit Mehta.

National Journal: *The Theosophical Review*.

TRADERS' CHAMBER OF UTTAR PRADESH

Meaton Road, Kanpur.

President: V. S. Katoogi; Hon. Secretary: Umesh Chandra.

UNITED SIKH MISSION

51, Gwynne Road, Lucknow.

President: M. Jhandia Singh; Vice-President: S. Charan Singh; Secretary: S. Devendra Singh.

THE U. P. AUTOMOBILE ASSOCIATION

32-A, Canning Road, Allahabad.

President: Mr. Justice O. H. Mootham, Chief Justice.

Vice-President: Mr. Justice A. P. Srivastava; Hon. General Secretary: Mr. Justice S. K. Varma, Bar-at-Law.

Hon. Treasurer: R. S. Agarwal.

U. P. CHAMBER OF COMMERCE,

15-197, Civil Lines, Kanpur.

President:—Hirday Narain.

Senior Vice-President: S. M. Bagla; Junior Vice-President: H. K. Srivastava; Hon. Secretary: Ramesh Srivastava; Hon. Jt. Secretary: R. L. Aurora; Office Secretary: P. K. Menon.

U. P. GUR AND KHANISARI ASSOCIATION

Alamgirganj, Bareilly.

Working President: J. N. Agrawal, M.L.A.; General Secretary: K. K. Shaukha; Secretary: R. P. Agrawal.

UPPER INDIA CHAMBER OF COMMERCE

(14-69, Civil Lines, Kanpur.)

President: J. K. Srivastava.

Vice-President, K. M. Wilcox, A.C.A.

Secretary: N. Hanerjee, I.C.S. (Retd.).

THE UPPER INDIA SUGAR EXCHANGE LTD.

Collectorganj, Kanpur.

Chairman: Manohar H. Parikh; Vice-Chairman: Manjogopal Chaudhery; Manager: Ram Kumar Misra.

UTTAR PRADESH PUBLISHERS' ASSOCIATION

31, Shoo Charan Lal Road, Allahabad 3.

UTTAR PRADESH TUBERCULOSIS ASSOCIATION

1, A. P. Sen Road, Lucknow.

Chairman: C. B. Gupta, M.A.L.L.B.; Hon. Secretary: Dr. M. M. S. Siddhu, M.B.B.S.; Hon. Treasurer: Pt. Suraj Din Bajpal, D.Sc., LL.B.

SHRI UTTARAKHAND VIDYAPITH

Vidyapith (Dt. Garhwal).

Secretary: Gangadhar Malthani; Manager: Shri Singh Sah; Principal: Shridhar Prasad Khali.

VIJAI BEOPAR CHAMBER LTD.

New Mandi, Musaffarnagar.

Chairman: L. Deep Chandra; Vice Chairman: L. Devi Sarup.

THE VIJNANA PARISHAD (ESTABLISHED 1913)

The Vijnana Parishad Bhawan, Thornhill Road, Muir College Buildings, Allahabad 2.

Scientific. The only institution in India for propagation of Science through the medium of Hindi.

Publishes a popular monthly magazine "Vijnana" in which articles on scientific subjects are printed in a popular and easy language. Publishes a research journal, quarterly in nature, wherein are published original research papers with summaries of the papers in English and German. Both are in Hindi. The association has by now brought out more than sixty books on scientific subjects.

President: K. D. Malaviya, Minister for Mines and Oil, Government of India.

Working President: Hiralal Khanna.

General Secretary: Dr. D. N. Varma, M.Sc., D.Phil., F.R.S. Sc.

VISHWA SEVA SADAN

Behind Tehsil, Meerut City.

President: C. F. Hansal; General Secretary: Madan Mohan; Director: Hanwari Lal.

WESTERN U.P. CHAMBER OF COMMERCE

MEERUT CANT., U.P.

President: B. D. Gupta.

Vice Presidents: S. Sham Singh; B. K. Das.

Secretary, Kailash Chandra.

Y.W.C.A.

Institute and Hotel.

Barrow Road, Zahur Bakhsh, Lucknow.

President: Mrs. J. O. N. Shukla.

Hon. Treasurer: Mrs. W. W. Bell.

General Secretary: Miss Raj Rallia Ram.

THE YOGA-VEDANTA FOREST-ACADEMY

The Divine Life Society, Sivananda Medical Mission, Sivananda Ashram, Sivananda Nagar Post, District: Dehra Dun, (U.P.).

Nature of Body: Dissemination of knowledge and spiritual uplift of mankind, health and longevity through YOGA.

Chairman of the Academy and Founder-President of the Divine Life Society: Swami Sivananda; Director, Sivananda Medical Mission: Major-General A. N. Sharma (Retd.); General Secretary of the Divine Life Society and Vice-Chancellor of the Yoga-Vedanta Forest-Academy: Swami Chidananda.

Churches in Uttar Pradesh

THE METHODIST CHURCH IN SOUTHERN ASIA (LUCKNOW AREA)

37, Cantonment Road, Lucknow.

Bishop, Rt. Rev. Bishop Gabriel Sundaram, D.D.

WEST BENGAL

Area 33,945 sq miles, Population 26,301,992.

Capital: Calcutta.

There are two Divisions in the State, the Burdwan Division and the Presidency Division. The Districts in the Burdwan Division with their headquarters in brackets are as follows:

Bankura (Bankura), Birbhum (Suri), Burdwan (Burdwan), Hooghly (Chinsura), Howrah (Howrah), Midnapore (Midnapore), Purulia (Purulia).

The Districts in the Presidency Division with their headquarters in brackets are as follows:

Calcutta, Cooch-Behar (Cooch-Behar), Darjeeling (Darjeeling), Dinajpur (Balurghat), Jalpaiguri (Jalpaiguri), Malda (English Bazar), Murshidabad (Berhampur), Nadia (Krishtanagar), 24 Pargannas (Alipur).

The boundaries of the present State as between East and West Bengal were fixed by the Radcliffe award.

Areas of Bihar merged with West Bengal. As a result of the reorganisation of the States, part of Purnea district in Kishanganj and Khatihar sub-divisions and part of Manbhum District in Nadia sub-division of Purulia both of Bihar, were transferred to West Bengal with effect from November 1, 1956. The total area so transferred is 3,166 sq miles with a population of 1,446,385.

The transferred area from Purnea District has been amalgamated with the adjoining district of West Dinajpur with Lalurghat as its headquarters. The area carved out of the old Revenue Thana of Islampur and Kishanganj of Kishanganj sub-division and Gopalpur of Khatihar sub-division have been reconstituted into four Police Stations, viz., Karandighi, Gopalpur, Chopra and Islampur with their headquarters at Karandighi, Gopalpur, Chopra and Islampur, respectively, all under the existing Rajnagar sub-division of West Dinajpur District.

The total area transferred from Purnea District comes to 759 sq miles comprising 913 villages with a population of 2,77,244 (1951 census).

The transferred area from Manbhum District comprising the Nadia sub-division of Purulia with the exception of the Revenue Thana of Chas and Chandil and the Police Station Patamda of the Revenue Thana Parahitum has been constituted to form a new district in West Bengal under the name of Purulia with its headquarters at Purulia in charge of a Dy. Commissioner, under the Commissioner of Burdwan Division.

As no delimitation of the internal jurisdiction boundary was called for the old Thana and Police Station boundaries have been retained.

The total area transferred to West Bengal to form the new District of Purulia is 2,407 sq miles, comprising 2,725 villages with a population of 11,69,097 (1951 census).

AREA OF DISTRICTS

Bankura 2,647 sq miles; Birbhum 1,743 sq miles; Burdwan 2,705; Cooch Behar 1,324; Darjeeling 1,200; Hooghly 1,209; Howrah 546; Jalpaiguri 2,378; Malda 1,892; Midnapore 5,255; Murshidabad 2,072; Nadia 1,609; 24 Pargannas 5,639; West Dinajpur 1,364; Purulia 2,407.

POPULATION

Burdwan 2,191,667; Birbhum 1,046,849; Bankura 1,319,259; Midnapore 3,859,022; Howrah 1,611,373; Hooghly 1,564,320 (excluding Chandernagore); 24 Pargannas 4,609,376; Calcutta 2,648,677; Nadia 1,144,924; Murshidabad 1,715,759; West Dinajpur 720,573; Malda 987,880; Jalpaiguri 914,538; Darjeeling 445,280; Cooch-Behar 671,156; Purulia 1,169,097.

Names of Districts giving within brackets the names of sub-divisions their area in square miles and population respectively.

• Also called West Dinajpur.

Burdwan District (Nadia, 1,246 sq miles; Amtol, 624 sq miles; Khatia, 340 sq miles; 305,751; Khatia, 400 sq miles; 314,504).

Birbhum District (Nadia, 1,136 sq miles; 634,159; Rampurhat, 606 sq miles; 428,730).

Bankura District (Nadia, 1,933 sq miles; 965,363; Viahampur, 715 sq miles; 353,996).

Midnapore District (Nadia, 2,038 sq miles; 1,057,634; Contal, 911 sq miles; 749,441; Tamulak, 749 sq miles; 748,498; Ghatal, 364 sq miles; 311,382; Jhangram, 1,185 sq miles; 461,703).

Hooghly District (Nadia, 446 sq miles; 4,45,574; Serampur, 349 sq miles; 729,831; Arambag, 412 sq miles; 370,416; Chandernagore, 4 sq miles; 49,900).

Howrah District (Nadia, 174 sq miles; 924,600; Chubaria, 346 sq miles; 682,917).

24 Pargannas District (Nadia, 1,106 sq miles; 1,513,948; Haripurhat, 817 sq miles; 714,619; Patamda, 384 sq miles; 393,940; Jhangram, 319 sq miles; 204,742; Khatia, 119 sq miles; 877,900; Diamond Harbour, 1,202 sq miles; 901,120).

Nadia District (Nadia, 946 sq miles; 702,871; Khatia, 540 sq miles; 442,053).

Murshidabad District (Nadia, 654 sq miles; 544,224; Lalbagh, 521 sq miles; 393,871; Jangipur, 437 sq miles; 431,979; Kandi, 454 sq miles; 345,681).

Malda District (Nadia, 1,392 sq miles; 997,580).

West Dinajpur District (Balurghat sub-division, 545 sq miles; 328,116; Rajnagar, 799 sq miles; 392,459).

Jalpaiguri District (Nadia, 1,295 sq miles; 546,162; Alipur Duars, 1,078 sq miles; 368,396).

Darjeeling District (Nadia, 361 sq miles; 169,691; Kurseong, 164 sq miles; 85,718; Nilguri, 266 sq miles; 416,475; Kalimpong, 407 sq miles; 93,441).

Cooch Behar District (Tufanganj, 224 sq miles; 97,713; Dinabata, 271 sq miles; 161,054; Nadia, 284 sq miles; 171,845; Mathabanga, 345 sq miles; 144,691; Mekhliganj, 108 sq miles; 91,835).

Purulia District (Nadia, 2,407 sq miles; 1,169,097).

AGRICULTURE

Acreage and production of principal crops in 1957-58 are as follows:

	Area (acres)	Production (tons)
Rice	10,245,000	1,00,000
Wheat	141,000	44,000
Sugarcane	56,000	11,000
Jute	550,000	1,40,000

About 5.28 lakh tons of manure and fertilisers were produced and distributed. Six improved seed multiplication farms had been established and 8,112 tons of improved seeds had been distributed. 2,401 demonstration centres had been established in rural areas. Land covering 30,690 acres had been reclaimed through tractors.

The total provision in the State Second Plan in respect of agriculture and related subjects is of the order of Rs. 780.27 lakhs.

A State-wide campaign for the Japanese method of cultivation was undertaken during the First Five-Year Plan period and 1.8 lakh acres of land were put under this method of cultivation increasing considerably the average yield of paddy per acre. In the field of animal husbandry breeding bulls were supplied to villages for upgrading livestock. Nine artificial insemination centres have been opened.

Under the Greater Calcutta Milk Supply Scheme milk colony units are being established at Haringhata and Khatia (five miles away), and milk is being collected from rural areas through different collection centres round about and from the milk colonies mentioned above.

In January 1959 four units of cattle colonies were functioning each with a capacity of accommodating 1,272 heads of cattle. Twelve more

units are under various stages of construction. These are expected to be completed by the middle of 1961 where in all 20,000 milch cattle will be accommodated.

In January 1959, 1,250 maunds of milk were being handled daily in the dairy factory for sale in Calcutta. This quantity has been increasing daily and by the end of 1960 five thousand maunds of milk will be handled by which time the Dairy Factory in Calcutta which is under construction is expected to be ready.

A sum of Rs. 466.45 lakhs has been earmarked for this scheme under the Second Plan.

Zamindaris and intermediary interests in West Bengal were abolished on April 16, 1956 corresponding to the 1st of Baisakh in the Bengalee Year.

All rent-receiving interests in agricultural lands vest in the State and the numerous tenants and sub-tenants as the case may be now hold land directly under the State Government. All forests too are now managed directly by the Government.

Under the Act on intermediaries is permitted to retain in his possession non-agricultural land up to 1 acre, homestead land which together with such non-agricultural and domestic land exceed 20 acres, agricultural land up to 2 acres and tanks, fisheries and orchards. Calcutta is a notable exception in the Act.

There are roughly 1.28 million acres of cultivated land in the State of which according to preliminary but by no means a complete statistics only 600,000 acres will be found surplus for redistribution among the tillers of the soil.

The Bihar Land Reforms Act is still in force in the territories transferred to West Bengal after the reorganisation of States though steps for setting up machinery for the management of vested estates according to the West Bengal pattern are under way.

Compensation is payable on a slab system at rates varying between 100 per cent for the first and lowest slab of Rs. 500 of net income and twice for the highest slab of over Rs. 1 lakh.

Where, however, the interest of an intermediary is held under a *trust* or other legal obligation for an exclusively charitable or religious purpose, the compensation payable is being assessed as a perpetual annuity equal to the annual net income of the interest.

Up to April 15, 1957, the Government had sanctioned interim payments totalling Rs. 52.21 (an) to some 24,000 intermediaries.

Payment is being made partly in cash and partly in non-negotiable annuity bonds at 8 per cent per annum and payable in 30 equal annual instalments.

Somarpur Arpanach Scheme. The Somarpur-Arpanach Malda Drainage Scheme of reclaiming vast water-logged tracts 106 sq miles in area, with powerful pumping plants, is the first of its kind in India and the biggest in Asia. The first part of the scheme which was started in 1951 and cost nearly Rs. 46 lakhs is now complete. The second part of the scheme is in progress. Under the first part of the scheme a submerged area of 23,200 acres has been reclaimed for cultivation. The total yield of paddy from these large tracts of land was 21,000 maunds.

Bagjola Drainage Scheme. Rs. 104 lakh Bagjola Drainage Scheme is intended to improve the drainage of 116 square miles of area. The scheme when completed will reclaim 25,000 acres of water-logged lands and render them fit for cultivation, which will result in annual additional yield of 12,000 tons of paddy and 1,610 tons of rabi crops.

FORESTS

Total forest area : 30,230 acres (1957-58).

IRRIGATION

During the First Five-Year Plan period, the multi-purpose schemes namely the Mayurakshi Reservoir Project, two medium irrigation and two medium drainage schemes and 129 units of minor schemes had been completed. The Mayurakshi Reservoir Project involves the harnessing of the Mayurakshi River. The project benefits 7,20,000 acres of land. During the First Plan, another 117 small irrigation schemes were completed to irrigate another 11 lakh acres of land.

In all 12 lakh acres of land have been benefited since independence by about 200 irrigation schemes big and small.

About 6,00,000 acres of land were irrigated from the Mayurakshi project during the kharif season and 1,20,000 acres of land during the rabi season of 1957. The hydro-electric portion of this project came into operation in December 1956. The installed capacity of this power station is 4,000 k.w.

The Kangsabati Reservoir Project, included in the Second Five Year Plan, aims at irrigation of eight lakh acres of land in the Purulia, Bankura, Midnapore and Hooghly districts.

	Total cost (Rs. lakhs)	Area in acres benefitted (kharif season)
Mayurakshi Reservoir	15.85-00	600,000
Harahatganj Drainage	12.94	16,000
Beral Canal	21.78	9,000
Jibanti-Banki	3.11	6,400
Jampol	0.52	800
Sodighi Gangakhali	24.08	29,400
Jhargram	7.74	5,000
Suvankar Daura	17.57	6,000
Trans-Damodar	4.27	32,900
Saraswati	6.25	7,100
20 Minor Schemes	6.18	45,292
52 Procurement Bonus Schemes	21.27	27,757
23 Emergency Schemes	10.70	62,880
5 New Minor Schemes	1.96	13,676
Excavation of Nonaganj river	5.14	4,800
Sonarpur-Arapaneh-Matia	126.30	46,400
Bagjola-(thuni)-Jatragachi	104.00	25,600
Improvement of Kamakhya Khal	3.52	3,840

DAMODAR VALLEY CORPORATION

The Damodar Valley Corporation Act was passed in March 1948, and the Corporation itself came into existence on July 7.

The Damodar Project is a multi-purpose one, for purposes of flood control, irrigation, power and navigation.

(For details see under "Irrigation")

SOME MAJOR DEVELOPMENT SCHEMES

Durgapur Coke-oven and Gas Grid: A Rs. 7.25 crore coke-oven plant capable of handling daily 1,300 to 1,400 tons of coal and coke breeze (1,235 tons of coal and 65 tons of coke breeze) at Durgapur in the district of Burdwan and auxiliary plants for the recovery of by-products from coke-oven gas (ammonia, sulphuric acid, coal-tar, crude benzol and its rectified products), and a coal-tar distillation plant, with a daily input of 50 tons of coal-tar.

The President Dr. Rajendra Prasad inaugurated the Coke-oven Plant on March 14, 1959.

Built by German experts, the plant has a daily output capacity of 1,000 tons of top quality hard coke. It will also turn out a number of valuable by-products, including 15 million cubic feet of gas, 50 tons of tar and 10 tons of benzol daily.

For the first time in India, metallurgical coke will be produced out of coals that have so far been considered unsuitable for the purpose.

The project was completed on schedule, in two and a half years, despite difficulties arising out of shortage of foreign exchange and scarcity of steel.

The gas produced at the coke-oven plant will be used for industrial and lighting purposes and for domestic consumption in Calcutta and the vicinity.

The Ganga Barrage Scheme: Investigations in connection with the Ganga Barrage, also called Farakka Barrage Scheme, are now in an advanced stage. The current estimates of the cost of the project is Rs. 56 crores.

Benefits expected from the barrage : 1. Supply of water to resuscitate the moribund rivers in West Bengal and also improve the Sunderbans rivers; 2. Provision for irrigation and flushing on a vast scale; 3. Improvement of the Calcutta Port; 4. Provision of a direct railway and road link between the northern and southern parts of the State; 5. Provision of an inland water route entirely through the Indian Union starting from Calcutta and going up to Bihar and Uttar Pradesh and ultimately to Assam; 6. Improvement of the basic economy of the State by increasing food production, providing better transport facilities, efficient maintenance of the Calcutta Port, raising the standard of public health and sanitation in the south-western regions and so on.

Reclamation of Salt Lakes: The scheme for the reclamation of the swampy northern and southern salt lakes covering about 33 square miles on the eastern fringes of Calcutta aims at liquidating the scourge of malaria and at reclaiming the water-logged areas, partly for the extension of the City and partly for agricultural purposes. On the basis of the experts' reports, plans in respect of the project, with estimates of cost (a little over Rs. 14 crores) had been prepared and submitted to the Planning Commission for inclusion in the Second Five-Year Plan.

The area proposed to be filled up and improved for the present is 2,400 acres and this low-lying area is to be filled with thoroughly silt by dredging and pumping operations from the river and raise the land level by 11 feet. It is estimated that the filling up operations would take approximately six years and that some consolidated land would be available for development purposes at the end of the 3rd year. A nine-year scheme has been drawn up for the sale of land to the low income group.

Gas from Calcutta Sewage: The main purpose of this scheme is the utilisation of Calcutta Sewage for generation of gas. It is expected that about 1.5 million c.ft. of gas per day will be generated from the sewage of Calcutta. Moreover 250 tons of manure will be available for sale every day. The scheme has been submitted to the Planning Commission for inclusion in the Second Five-Year Plan.

Kalyani: The Kalyani Township scheme was inaugurated in 1950, with a view to relieving acute pressure of population in Calcutta and to help dispersal of industries from the congested city. The total area has been divided into six blocks, viz., residential blocks, commercial blocks, industrial blocks, etc.

Development of one block covering an area of about 1,100 acres was almost completed during 1957-58 and that of a portion of another block as an industrial block was nearing completion (Dec. 1958). Out of over 5,000 residential flats, about 1,200 have been leased out to the public.

Several parks have been laid out. A Radio and Battery Manufacturing Factory has also been opened by the Government. Thirty miles of water-supply mains have been laid. A total length of 42 miles of underground mains and subsidiary sewers has been completed. About 50 miles of metalled roadways in the residential block have also been completed.

A polythene plant was opened at Kishra, 14 miles from Calcutta on May 2, 1959. This will produce 3,500 tons of plastics annually.

POWER

Position 1957-58:

No. of stations 46; installed capacity 563,064 kW; energy generated 1,090,415 mln. kWh; energy sold 1,873,136 mln. kWh.

Under the State's First Plan, 66 kV transmission lines with a coverage of 106 miles and 33 and 11 kV transmission lines running upto 315 and 499 lines have been laid. Seven collieries are receiving supply of electricity and retail supply is being given to 100 places in the State.

During the Second Plan period the State Electricity Board will execute 11 schemes for expanding the scope of the schemes already started and providing further power facilities within the State. The Plan involves construction of over 800 miles of transmission lines including 106 miles of low voltage distribution lines and establishment of 13 sub-stations (including main). Sixty-two villages and 27 towns will get electricity. Besides hydro-electricity will be generated by harnessing the rivers of Jaldhaka and Balasun in North Bengal for supplying power to Jalpaiguri, Cooch Behar and Darjeeling districts.

The following power schemes included in the Second Plan are being executed by the West Bengal State Electricity Board.

Extension of Mayurakshi Hydro-Electric Scheme: Four places in Birbhum district will be electrified. Five-year cost: Rs. 9.90 lakhs.

Rural Electrification Scheme: Electrification of 62 villages at a total cost of Rs. 94.39 lakhs. Four hundred and fifty miles of 11 kV O-H line and 70 miles of low voltage distribution line would be laid.

Extension of North Calcutta Electrification Scheme: Stringing of the second circuit of 27 miles of the existing 66 kV double circuit tower line between Shannagar and Ranaghat. Districts to be benefited: Nadia, Murshidabad and 24 Parganas. Estimated capital expenditure for the Plan period: Rs. 6.08 lakhs.

Jaldhaka Hydro-Electric Scheme: Tapping of river Jaldhaka in north Bengal to generate electricity, generating capacity: 2.10 Mw etc. Provision for the scheme: Rs. 194.01 lakhs.

Balasun Hydro-Electric Scheme: Harnessing of river Balasun in Darjeeling District. Estimated expenditure: Rs. 158.53 lakhs. Scheme is kept in abeyance.

Kharagpur Midnapore Electrification Scheme: Purchase of power in bulk from D.V.C.'s Kharagpur sub-station and distribution in Midnapore district through a network of transmission lines. Length of overhead lines to be laid: 114 miles; of 11 kV and 33 kV. Capital expenditure: Rs. 45.34 lakhs.

Howrah-Hooghly Rural Electrification Scheme: Length of overhead transmission lines to be laid: About 80 miles of 11 kV. Estimated cost: Rs. 25-80 lakhs.

Durgapur-Malda Transmission Scheme— Places to be supplied with power: Districts of Murshidabad, Malda and West Dinajpur. Provision during the 2nd Plan period: Rs. 34-86 lakhs.

Suburban-Electrification Scheme: Electrification of a few suburban areas on the outskirts of the licensed area of Calcutta Electric Supply Corporation Ltd. Total Plan provision for colliery electrification, tube-well irrigation, Central testing laboratory and suburban electrification schemes: Rs. 20-21 lakhs.

D.V.C. Project. See article on Irrigation.

INDUSTRY

Principal industries of the State: Jute, tea, coal, cotton, textiles, paper, rubber, engineering, etc.

No. of registered factories: 3,506 (March 31, 1958). **No. of workers:** 680,000.

No. of jute mills: 101 in 1957 (employing 220,000 workers, 1957).

Total acreage under jute cultivation in West Bengal: 750,000.

No. of cotton mills: 39* (44,706 workers; total no. of spindles 585,236; no. of looms 10,864) (31st August 1958).

No. of tea gardens: 238 (246,000 workers). West Bengal produces about 90 million pounds of tea.

No. of coal mines: 220 (about 99,000 workers daily on an average). The total output of the West Bengal coal mines is 13,674, 348 tons.

West Bengal's tea gardens are mostly in the Dooars, Terai and Darjeeling districts.

No. of paper mills: 5 (about 9,648 workers).

Jute, cotton and most of the other industries are located in the Greater Calcutta industrial area; there is a growing tendency on the part of the engineering, textile and other industries to move towards the Asansol belt in Burdwan District, where most of the coal mines and the major iron and steel works are located. The tea gardens are located in the Dooars and Terai regions of Northern Bengal.

Main small scale industries: Handloom weaving, sericulture and silk, brass and bell metal, hand-made paper, palm gur and mat industries.

No. of looms engaged in handloom weaving: 1,50,000.

Principal centres of handloom weaving: Santipur (Nadia), Santinketan (Birbhum), Rajbahal, Dhanakhal (Hooghly).

Principal silk industry Districts: Malda, Murshidabad and Birbhum.

In the sphere of large-scale industries, the work on the proposed Iron and Steel Industry at Durgapur is progressing. The Durgapur Coke-Oven Plant was completed and was inaugurated by the President on March 14, 1959. Various schemes connected with village industries such as handloom, coir products, bell-metal etc. have been taken up. Under the Howrah Engineering Scheme, 762 small engineering firms in Howrah, near Calcutta, are being brought together to rationalise and accelerate their production. In the rural areas, villagers are being trained and paid in the works-cum-training centres.

LABOUR

No. of registered factories: 3,506. (March 31, 1958).

No. of workers: 680,000.

No. of registered trade unions: 2,254 (1958).

No. of members of trade unions: 834,032.

No. of industrial disputes: 4,736 (1957).

No. of successful conciliations: 2,260.

* Two mills not working.

No. of cases referred to adjudication: 542.

No. of disposals: 470.

No. of workmen's compensation cases disposed of in 1957: 5,000.

No. of man days lost in 1957-58: about one million.

Eighteen Minimum Wages Advisory Committees have been appointed. Minimum Wage Committees were appointed for revision and fixation of wages for workers in unorganised industries, such as flour mills, oil mills, rice mills, public motor transport, tea plantations, etc. Tribunals for fixation of minimum wages were set up also in jute, textiles and engineering industries.

The Employees' State Insurance Act, which provides for sickness and other medical benefits, cover 280,000 workers in Calcutta and Howrah areas. In factory areas there are 225 canteens, 230 shelters or rest rooms and 103 creches for children.

The Employees' Provident Funds Act covers 248,166 workers including workers in tea plantations.

No. of labour welfare centres: 30.

No. of tenements completed under the Subsidised Industrial Housing Scheme: 1,420.

The Labour Department of the State took over the administration of the Employment Exchanges in West Bengal towards the end of 1956 from the Central Government.

WEST BENGAL FINANCIAL CORPORATION†
P-11, Mission Row Extension (5th Floor), Calcutta-1.

The Corporation was established as from the 1st March 1954. The object of the Corporation is to provide financial assistance, chiefly by way of long and medium term loans, to industrial concerns in the State.

Authorized Capital Rs. 2 crores divided into 2,00,000 fully paid-up shares of Rs. 100 each, of which 1,00,000 fully paid-up shares of the total value of Rs. 1 crore were issued in the first instance and are held by the following classes of shareholders:

	shares	Rs.
a) State Govt.	31,770	31,77,000
b) Reserve Bank	20,000	20,00,000
c) Scheduled banks, insurance companies, investment trusts, co-operative banks or other financial institutions	45,000	45,00,000
d) Other parties	3,230	3,23,000
	1,00,000	1,00,00,000

Gross Income (1957-58): Rs. 5,28,937 40.

Expenditure: Rs. 3,46,705-08.

Net Profit: Rs. 1,82,232 11.

BOARD OF DIRECTORS†

Chairman, B. M. Birla.

Managing Director, H. P. Banerjee.

Directors, G. Basu; C. D. Khanna; B. P. Singh Roy; K. K. Roy; D. N. Mitra; N. N. Majumdar; D. N. Bhattacharjee; S. R. Mitra.

Secretary, B. K. Roy.

CO-OPERATION

From 1948 to 1957 the number of co-operative societies increased from 12,946 to 18,337. The membership increased from 635,000 to 1,253,934.

Number, membership and working capital respectively of other types of co-operative societies: Urban co-operatives (531; 431,341; Rs. 1,366-93 lakhs); Consumers' Co-operatives (431; 62,020; Rs. 15-07 lakhs); Fishermen Co-operatives (413; 24,198; Rs. 6-58 lakhs); Housing and Colony Co-operatives (162; 20,955; Rs. 70-19 lakhs); Milk Co-operatives (174; 12,138; Rs. 2-95 lakhs).

Rural credit for agricultural production to the extent of Rs. 1-48 crores was distributed in 1957. The number of co-operatives participating in the work was 12,120 in 1957.

There are 1,454 multi-purpose societies, 139 marketing societies and 97 farming co-operatives.

Weavers' Co-operatives form the bulk of industrial co-operatives in the State. There are at present 952 such societies with 68,549 members and a total working capital of Rs. 34-13 lakhs.

There are 531 Urban Co-operative Societies with a membership of 431,341 and a working capital of Rs. 1,366-93 lakhs. There are 431 Consumers' Co-operatives and 33 Transport Co-operatives. Large sized co-operatives numbering 148 had been organized up to June 30, 1957.

ROADS

With the completion of the First Five Year Plan, the total length of roads directly maintained by the Government had gone up to above 5,000 miles.

There are six national highways in West Bengal: Calcutta-Delhi (162 miles), Calcutta-Bombay/Madras (90 miles—common alignment in West Bengal), Bihar-Assam (181 miles), Siliguri-Gangtok (85 miles), Calcutta-Siliguri (203-5 miles) and Calcutta-Kongaon (43 miles).

The Second Five Year Plan envisages construction and improvement of 2,200 miles of new State roads in addition to the spill-over from the First Plan.

The State spent Rs. 20-22 crores during the First Plan period, while the ceiling of expenditure for the Second Five Year Plan has been limited to less than Rs. 17-50 crores. In the first two years of the Second Plan, a sum of Rs. 590 lakhs was spent on road development.

With a view to the gradual nationalisation of road transport services, a number of bus routes in the City of Calcutta have already been taken over by the Government and other routes would be taken over under a phased programme.

The State Transport owns (1958) a fleet of 561 vehicles. By the end of 1960, the State Transport will have a fleet of 700 buses.

The State Transport provides employment for 6,350 persons of whom about 60 per cent are displaced persons.

About 6,40,000 passengers are carried every day. The State buses cover about 53,000 route-miles daily.

Total mileage run by the State Transport in 1957-58: 19,236,000.

No. of passengers carried: 235,125,000.

Total earnings: Rs. 223-85 lakhs.

The State Transport has a Central Workshop which employs about 700 persons. During 1957-58, 620 vehicles were repaired and rebuilt, 139 new bodies were built, 428 bodies were repaired and rebuilt, 516 fuel pumps were re-conditioned and 1,238 tyres were re-used and repaired.

There is a State Transport Employees' Co-operative Society which gives loans to employees at 6½ per cent. Share capital (1957-58): Rs. 28,700. Working Capital: Rs. 1,72,106.

Gross revenue of the State Transport Undertaking in 1958-59: Rs. 257-57 lakhs. Budget estimates show a deficit of Rs. 0-60 lakh.

COMMUNITY DEVELOPMENT PROJECTS

The Community Development Projects now cover about 15,000 villages. The object of the programme is the development of rural township with a group of 100 villages in a block taken up for intensive development programme.

† The report for 1958-59 was not available when this was prepared.

EDUCATION

The secondary schools will, henceforth, have an 11-year course as against the ten-year course prevailing before. With the introduction of the 11-year course, preliminary knowledge of some of the subjects previously taught in the intermediate course will be imparted. The students passing out the 11-year school course will be admitted to a 2-year degree course direct, the intermediate course being abolished. Some of the secondary schools are being converted into multi-purpose schools which will also train students in various arts and crafts of their choice, thus helping them to choose their professional career according to their aptitude.

(For more statistical information see tables in the article on education).

HEALTH

Birth rate: 20.9 (1957); Death rate: 9.8 (1957); Infant mortality: 93.9 (1957); Maternal mortality: 3.8 (1957); Death rate from T.B.: 0.2 (1957); Death rate from cholera: 0.1 (1956); Death rate from small-pox: 0.03 (1956).

No. of hospitals: 309; no. of dispensaries and clinics: 956; Rural Health Centres: 263 (1957); No. of beds: 3,300 (1956); Total no. of beds in hospitals: 24,671 (1957); no. of T.B. hospitals and Sanatoria: 9; T.B. chest clinics: 36 (1958); Mobile Units for domiciliary treatment of T.B. cases: 9 (1958); no. of T.H. beds: 2,488 (1958); Rural Health Centre beds: 2,372; Maternity and child welfare centres: 94 (1957); Maternity homes and hospitals: 12; Maternity beds: 3,763 (1957); Medical colleges: 4; no. of students in colleges: 691; Nursing training centres: 15 (1956); no. of seats: 837; pharmacy training centre: 1; no. of students at the centre: 50; Mobile medical units: 242; no. of beds for treatment of leprosy: 2,350 (1957); for venereal diseases: 111 (1957); for treatment of mental diseases: 1,229 (1957) (including 757 beds maintained by West Bengal Govt. in two Mental Hospitals at Ranchi and 85 beds of Bangiya Unmad Ashram, Dum Dum); V. D. clinics: 39 (1958); Antimalaria units: 16 (1958); no. of beds for infectious diseases: 1,697 (1957); Family Planning centres: 27 (1957).

Per capita expenditure (1957-58): Rs. 3.40.

REFUGEES AND REHABILITATION

Over 41 lakh persons migrated from East Pakistan to India upto December 1957. The refugee population in West Bengal upto that date was 31.6 lakhs.

About 22 lakh refugees received Government assistance by way of house-building loans, small trade loans etc. and nearly half of them have been fully rehabilitated. Of these 96,358 have found employment through Government

assistance. The total cost incurred upto March 1958 for rehabilitation grants for education and training of refugee students in schools, colleges and other institutions was Rs. 1,636 lakhs. Total expenditure on camps and homes upto March 1958 was Rs. 3,803 lakhs. Paucity of land for the rehabilitation of refugees in West Bengal has forced the State Government to settle refugees outside the State. Among these schemes for rehabilitation outside the State are a scheme to rehabilitate 27,000 displaced persons at Bettiah in Bihar and the Dandakaranya Scheme under which 40,000 square miles in Madhya Pradesh, Orissa and Andhra are proposed to be reclaimed for the rehabilitation of the surplus refugee population.

It was decided that steps would be taken to close all refugee camps in West Bengal by July 1959.

(For more statistical data see main article on 'Refugees and Rehabilitation').

HOUSING

To provide accommodation for working girls in Calcutta, several hostels are under construction. Under the low income group housing scheme, loans amounting to Rs. 157.25 lakhs have been sanctioned for the construction of 2,538 houses by individuals, co-operatives and an institution.

Industrial Housing Scheme: Second Plan target 10,000 houses. No. completed 1,420. No. under construction 2,390. Government of India allotment Rs. 475 lakhs.

BUDGET 1959-60

(See 'Late Particulars').

CORPORATION OF CALCUTTA

5, Surendra Nath Banerjee Road, Calcutta 13.
Telephone: 243471 (20 lines).

Mayor, B. K. Banerjee.
Dy. Mayor, K. L. Dhandhania.
Commissioner, B. K. Sen.
Dy. Commissioners, A. K. Basak; Loknath Bal.
Secretary, B. J. Ghosh.
Chief Engineer, A. K. Sen.
Dy. Chief Engineer, S. Mitter (Actg.).
Executive Engineer, Water Works, S. C. Mukherjee.
Executive Engineer, Drainage, K. L. Dey.
City Architect, P. B. Guha.
Health Officer, Dr. Anil Mukerji.
Dy. Health Officer, Maj. I. N. Sarkar.
Finance Officer and Chief Accountant, Paritosh Mitra.
Chief Law Officer, B. Basu (Actg.).
Civil Engineer, N. L. Bhattacharjee.

Councillors

Sushil Kumar Paul (1); Ganapati Sur (2); Sudha Sankar Singh (3); Nandlal Banerjee (4); Dulal Chandra Mukherjee (5); Satyananda Bhattacharjee (6); Ranajit Coomarr Mitter (7); Kumar Dutt (8); Purnendu Sen Gupta (9); Mihir Lal Ganguli (10); Dr. Kripabindu Chakrabarty (11); Sudhir Chandra Mukherjee (12); Pannalal Das (13); Dr. Kanailal Das (14); Naren Sen (15); Kall Charan Paul (16); Tulsi Ch. Pal (17); Kamal Krishna Paul (18); Krishna Chandra Bysack (19); Gobindo Chandra Dey (20); Badridas Burman (21); Krishna Chandra Kundu (22); Bouf Ansari (23); Dr. Sudhangsu Kumar Sett (24); Harinarayan Sadani (25); Bivash Chandra Gana Chowdhury (26); Kishori Lal Dhandhania (Dy. Mayor) (27); Keshab Chandra Basu (28); Samar Kumar Rudra (29); Surendra Krishna Das (30); Dr. K. P. Ghosh (31); Nandadulal Srivastava (32); Chandra Sekhar Bhowmick (33); Shiv Kumar Khanna (34); Dr. Sukhabehari Mukherji (35); Panchanan Sarker (36); Durlov Chandra Majumdar (37); Rajendra Nath Masumdar (38); Mohanlal Ghose (39); Dr. Ramali Ebrahim (40); Debendra Lal Dutt (41); Tara Prasad Mitra (42); Dr. H. K. Das (43); Sudhangsu Shekhar Mitra (44); Dharendra Nath Dhar, M.L.A. (45); Mukur Chandra Saravdhikari (46); Dr. L. M. Bhattacharji (47); Bankim Chandra Sarker (48); Amulya Charan Sarker (49); Benoy Lal Ghose (50); Karam Hosain (51); Jogindra Lal Saha, M.L.C. (52); Abu Hafeez M.I. Ismail (53); Dharendra Nath Bose (54); Biman Behari Mitra (55); Ratan Manick Chatterjee (56); Md. Zakir (57); Sushil Kr. Roy (58); Bejoy Kr. Banerjee (Mayor) (59); Nil Ratan Sinha (60); Anil Mitra (61); Shyamal Kumar Dutta (62); Sachindra Kumar Sen (63); Dr. Birendra Ch. Basu (64); Dr. Parimal Kumar Sen Gupta (65); Chittaranjan Chatterjee (66); Kumar Banoyendra Deb Rai (67); Dr. P. K. Roy Chowdhury (68); Subrata Kr. Sen Sarma (69); Barindra Kumar Chattopadhyay (70); Dr. Kanai Lal Sarker (71); Mani Sanyal (72); Gahar Alam Shami (73); Brojendra Nath Banerjee (74); Palal Bhuran Paul (75); Raj Satyendra Mitra (76); Nripendra Nath Banerjee (77); Deva Prasad Chatterjee, M.L.A. (78); Prasanta Kumar Sur (79); Dr. Arabinda Prasad Dasgupta (80); S. K. Gupta, I.C.S., Chairman, Calcutta Improvement Trust (ex-officio).

Aldermen

Dr. Triguna Sen; Bijoy Singh Naher, M.D.A.; Pratima Bose; Gurugobinda Bosu; Dr. Amiya Kumar Bose.

EDUCATIONAL INSTITUTIONS

University of Calcutta

Chancellor, Smt. Padmaja Naidu (Governor of West Bengal).

Vice-Chancellor, Prof. N. K. Sidhanta, M.A. (Cantab.).

Treasurer, Satish Chandra Ghosh, M.A.

Registrar, Dr. Duhkharan Chakrabarti, D.Sc., F.N.I.

DEANS OF FACULTIES.

Arts, Professor Jitendraprasad Niyogi, M.A., Ph.D. (Lond.).

Science, Professor Nikhilranjan Sen, M.A., Ph.D., D.Sc.

Law, Rama Prasad Mookerjee, M.A., LL.B.

Medicine, Dr. Subodh Mitra, M.B., M.D. (Berlin), F.R.C.S. (Edin.), F.R.C.O.G. (Lond.).

Engineering, A. C. Roy, B.Sc. (Glas.), A.M.I.E.

Technology, Prof. Hireschandra Guha, M.Sc., Ph.D., D.Sc. (Lond.), F.N.I.

Agriculture, Professor Pabitrakumar Sen, M.Sc., Ph.D. (Lond.), D.I.C.

Commerce, Dr. Sarojkumar Basu, M.A., Ph.D.

Education, Professor Sivaprasad Chatterjee, M.Sc., T.D. (Lond.), Ph.D. (Lond.), D.Litt. (Paris), F.G.S.

Fine Arts and Music, Professor Niharjan Ray, M.A., D.Litt. & Phil. (Leyden), F.L.A.

Veterinary Sciences, Capt. P. B. Mookerjee, M.B., F.R.C.S. (Edin.), D.M.V.M.

Journalism, Dr. Anilchandra Banerjee, M.A., Ph.D.

PROFESSORS.

Sanskrit, Dr. A. Bhattacharyya Sastri, M.A., Ph.D. (Asatoth Professor).

Islamic Studies, Dr. M. Z. Siddiqui, M.A., LL.B., Ph.D. (Cantab.) (Asatoth Professor).

History, Dr. N. K. Sinha, M.A., Ph.D. (Asatoth Professor).

Ancient Indian History and Culture, Prof. J. N. Banerjee, M.A., Ph.D. (Carmichael Professor).

Islamic History, Dr. M. L. Raychaudhuri, M.A., D.Litt., Sastri.

Philosophy, Vacant (Acharyya Brojendranath Seal Professor).

English, Miss A. G. Stock, B.A. (Oxon.), Dip. in Education (Oxon.) (Sir Gooroodas Banerjee Professor).

Economics, Dr. J. P. Niyogi, M.A., Ph.D. (Lond.).

Fine Arts, Dr. N. R. Ray, M.A., D.Litt., Phil. (Leyden), Dip. Lib. (Lond.), F.L.A. (Rani Bageswari Professor of Indian Fine Arts).

Physics, Dr. S. B. Khastgir, Ph.D., D.Sc. (Guruprasad Singh Professor); Dr. B. D. Nagchaudhuri, M.Sc., Ph.D. (Pallit Professor); Dr. Sisir Kumar Mitra, D.Sc., F.N.I. (Emeritus Professor); Dr. J. N. Bhar, D.Sc. (Ghosh Professor).

Applied Physics, Dr. A. K. Sengupta, D.Sc. (Ghose Professor).

Chemical Physics, D. Subodhnath Bagchi, D.Sc.

Chemistry, Prof. B. N. Ghosh, D.Sc. (Pallit Professor); Dr. P. B. Sarker, M.Sc., D.Sc., F.N.I. (Ghose Professor); Dr. J. C. Bardhan, D.Sc. (Cal. & Lond.) (Khair Professor).

Applied Chemistry, Dr. B. C. Guha, D.Sc. (Lond.), Ph.D.

Agricultural Chemistry, (Vacant) (Sir P. C. Ray Professor).

Psychology, Dr. S. C. Mitra, M.A., D.Phil. (Leipzig).
Mathematics, Dr. R. N. Sen, M.A., Ph.D. (Harding Professor); B. M. Sen, M.A. (Cantab.), M.Sc. (Emeritus Professor).
Applied Mathematics, Dr. Nikhilranjan Sen, M.A., Ph.D., D.Sc. (Ghose Professor).
Zoology, Dr. J. L. Bhaduri, D.Sc. (Lond.), D.L.C. (Sir Nilratan Sircar Professor).
Botany (Vacant).
Indian Linguistics and Phonetics, Dr. Sukumar Sen, M.A., Ph.D.; Dr. Sumiti Kumar Chatterjee, M.A., D.Litt. (Emeritus Professor).
Agriculture, Dr. P. K. Sen, M.Sc., Ph.D. (Lond.), D.L.C. (Khaira Professor).
Anthropology, Kshitisprasad Chattopadhyay, M.Sc. (Cantab.).
Modern Indian Languages, Dr. Sasi Bhushan Das Gupta, M.A., Ph.D. (Ramtanu Lahiri Professor).
Pali, Dr. N. Dutt, M.A., LL.B., Ph.D., D. Litt.
Physiology, Dr. B. B. Sarkar, D.Sc., F.R.S.M.
Political Science, D. N. Banerjee, M.A. (Surendranath Banerjee Professor).
Geography, Dr. S. P. Chatterjee, M.Sc., Ph.D. (Lond.), T.D. (Lond.), D. Litt., F.G.S.
Geology, Prof. N. N. Chatterjee, M.Sc.
Industrial Finance, Dr. S. K. Basu, M.A., Ph.D.
 No. of affiliated Colleges—130.
 No. of constituent colleges : 7.
 Total no. of students : 94,437 boys and 19,314 girls (1956-57).

BUDGET (1956-57)

Receipts	Ra. 1,08,70,029
Expenditure	Ra. 92,99,062
West Bengal Govt. grant	Ra. 25,12,160
India Govt. grant	Ra. 19,59,666

CALCUTTA COLLEGES

ALL-INDIA INSTITUTE OF HYGIENE & PUBLIC HEALTH, 110, Chittaranjan Avenue, Calcutta-12.
 ASUTOSH COLLEGE, 92, Syamaprasad Mookerjee Rd., Kalighat, Calcutta-26.
 BANGABASI COLLEGE, 19, Scotts Lane, Calcutta-9.
 BENGAL MUSIC COLLEGE, 4, Hindusthan Road, Calcutta-29.
 BENGAL VETERINARY COLLEGE, Belgachia, Calcutta-4.
 BENGAL TANNING INSTITUTE, Canal South Road, Pagla Danga, Calcutta-15.
 *BETHUNE COLLEGE, 181, Cornwalls Street, Calcutta-6.
 CALCUTTA DENTAL COLLEGE, 114, Lower Circular Road, Calcutta-14.
 CALCUTTA NATIONAL MEDICAL INSTITUTE, 32, Gorchand Road, Calcutta-17.
 CENTRAL CALCUTTA COLLEGE, 8, Wellesley Street, Calcutta-13.
 CHARUCHANDRA COLLEGE, 22, Lake Road, Calcutta-29.
 CHITTARANJAN SEVA SADAN, Shyamaprasad Mookerjee Road, Calcutta-26.
 CITY COLLEGE, 102/1, Amherst Street, Calcutta-9.
 CITY COLLEGE (COM. DEPT.), 13, Mirzapur Street, Calcutta-12.
 DAVID HALE TRAINING COLLEGE, 25/3, Ballygunge Circular Rd., Calcutta-19.
 *DESHBANDHU COLLEGE FOR GIRLS, 58A, Sadananda Road, Calcutta.
 GOENKA COLLEGE OF COMMERCE & BUSINESS ADMINISTRATION, 210, Bowbazar Street, Calcutta-12.
 *GOKHALE MEMORIAL GIRLS' COLLEGE, 1/1, Harish Mukherjee Road, Calcutta-20.
 INSTITUTE OF CHILD HEALTH, 95, Dilkhusha Street, Calcutta-17.
 *INSTITUTE OF EDUCATION FOR WOMEN, Hastings House, Calcutta-27.
 KSHUDIRAM BOSE CENTRAL COLLEGE, 71/2A, Cornwalls Street, Calcutta-6.
 LA MARTINEIRE, 11, London Street, Calcutta-16.
 *LADY BRABOURNE COLLEGE, P. 1/2, Sahrawardy Avenue, Calcutta-17.

*LORETO HOUSE, 7, Middleton Row, Calcutta-16.
 MAHARAJA MANINDRACHANDRA COLLEGE, 20, Ramkanta Bose Street, Calcutta-3.
 MEDICAL COLLEGE, 88, College Street, Calcutta-12.
 *MURALIDHAR GIRLS' INSTITUTE, 4, Hindusthan Road, Calcutta-29.
 NARKELDANGA GURUDAS COLLEGE, Narkeldanga Syamaprasad Institute, Calcutta.
 NILRATAN SARKAR MEDICAL COLLEGE, 138, Lower Circular Road, Calcutta-14.
 PRESIDENCY COLLEGE, 86/1, College Street, Calcutta-7.
 R. G. KAR MEDICAL COLLEGE, 1, Belgachia Road, Calcutta-4.
 SANSKRIT COLLEGE, Bankimchandra Chatterjee Street, Calcutta-12.
 THE SCHOOL OF TROPICAL MEDICINE, Chittaranjan Avenue, Calcutta-12.
 SCHOOL OF ANAESTHESIOLOGY, 244, Lower Circular Road, Calcutta.
 SCOTTISH CHURCH COLLEGE, 4, Azad Hind Bagh, Calcutta-6.
 SETH ANANDARAM JAIPURIA COLLEGE, 10, Raja Nabakissen St., Calcutta-5.
 *SETH SOORJAMALL JALAN GIRLS' COLLEGE, 186, Chittaranjan Avenue, Calcutta.
 *SOUTH CALCUTTA GIRLS' COLLEGE, 72, Lansdowne Road, Calcutta-25.
 *SRI SIKSHAYATAN (College Dept.), 11, Lord Sinha Road, Calcutta-16.
 ST. JOSEPH'S COLLEGE, 69, Bowbazar Street, Calcutta-12.
 ST. XAVIER'S COLLEGE, 30, Park Street, Calcutta-16.
 ST. PAUL'S C. M. COLLEGE, 33/1, Amherst Street, Calcutta-9.
 SURENDRANATH COLLEGE, 24, Harrison Road, Calcutta-9.
 SURENDRANATH LAW COLLEGE, 24, Harrison Road, Calcutta-9.
 UNIVERSITY COLLEGES OF ARTS & COMMERCE, Calcutta University.
 UNIVERSITY COLLEGES OF SCIENCE & TECHNOLOGY, 92, Upper Circular Road, Calcutta-9.
 UNIVERSITY LAW COLLEGE, Calcutta University, Calcutta.
 *VICTORIA INSTITUTION FOR GIRLS, 78-B, Upper Circular Road, Calcutta-9.
 VIDYASAGAR COLLEGE, 39, Shankar Gosh Lane, Calcutta-6.
 VIJAYGARH JYOTISRAY COLLEGE, Jadavpur P.O., Calcutta-32.
 WEST BENGAL STATE COLLEGE OF AGRICULTURE, Rani Kuthi, Calcutta-40.
 *WOMEN'S COLLEGE, 204, Cornwalls Street, Calcutta-6.
 *WOMEN'S CHRISTIAN COLLEGE, 6, Greek Church Row, Kalighat P.O., Calcutta-26.

MUFASSIL COLLEGES

ANANDACHANDRA COLLEGE, Jalpaiguri, Jalpaiguri.
 ASANSOL COLLEGE, Asansol, Burdwan.
 BALURGHAT COLLEGE, Balurghat, West Dinajpur.
 BANKIMCHANDRA SARDAR MAHAVIDYALAYA, Tangraakhali, 24-Parganas.
 BANKURA CHRISTIAN COLLEGE, Bankura.
 BANKURA SAMMILANI COLLEGE, Bankura.
 BANKURA SAMMILANI MEDICAL COLLEGE, Bankura.
 BARRACKPORE RASTRAGURU SURENDRANATH COLLEGE, Barrackpore, 24-Parganas.
 BARASAT GOVT. COLLEGE, Barasat, 24-Parganas.
 BASIRHAT COLLEGE, Basirhat, 24-Parganas.
 BENGAL ENGINEERING COLLEGE, Botanic Gardens, Howrah.
 *BERHAMPORE GIRLS' COLLEGE, Berhampore, Murshidabad.
 BAGOOA SRIKRISHNA COLLEGE, Bagooa, Nadia.
 BOLPUR COLLEGE, Bolpur, Birbhum.
 BRAHMANANDA KESABCHANDRA COLLEGE, Kamarhati, 24-Parganas.

BURDWAN RAJ COLLEGE, Burdwan, Burdwan.
 CHANDERNAGAR COLLEGE, Chandernagar, Hooghly.
 DARJEELING GOVT. COLLEGE, Darjeeling.
 DARJEELING ST. JOSEPH'S COLLEGE, North Point, Darjeeling.
 DARJEELING ST. PAUL'S COLLEGE, Jalapahar, Darjeeling.
 DINABANDHU ANDREWS COLLEGE, Garla, 24-Parganas.
 DINABANDHU INSTITUTION (COLLEGE), 412/1, G. T. Road, Sibpur, Howrah.
 DINABANDHU MAHAVIDYALAYA, Bonagan, 24-Parganas.
 DINHATA COLLEGE, Cooch Behar.
 DUM DUM MOTIJHEEL COLLEGE, Dum Dum, Calcutta-28.
 FAKIRCHAND COLLEGE, Diamond Harbour, 24-Parganas.
 GANHETA COLLEGE, Garbeta, Midnapore.
 GOBARDANGA HINDU COLLEGE, Gobardanga, 24-Parganas.
 HOOGHLY MOHSIN COLLEGE, Chinsurah, Hooghly.
 HUGHLI TRAINING COLLEGE, Hooghly.
 *HOOGHLY WOMEN'S COLLEGE, Chinsurah, Hooghly.
 *HOWRAH GIRLS' COLLEGE, 5/3, Mahatma Gandhi Road, Howrah.
 JANGIPUR COLLEGE, Jangipur, Murshidabad.
 JHARGRAM RAJ COLLEGE, Jhargram, Midnapore.
 KALNA COLLEGE, Kalna, Burdwan.
 KATWA COLLEGE, Katwa, Burdwan.
 KHARAGPUR COLLEGE, Kharagpur, Midnapore.
 KRISHNACHANDRA COLLEGE, Hetampur, Birbhum.
 KANDI COLLEGE, Kandi, Murshidabad.
 KRISHNAGAR COLLEGE, Krishnagar, Nadia.
 KRISHNATH COLLEGE, Berhampore, Murshidabad.
 MAHARAJA BIR BIKRAM COLLEGE, Agartala, Tripura State.
 *MAHARAJA UDAYCHAND COLLEGE FOR WOMEN, Burdwan.
 MAHISHADAL RAJ COLLEGE, Mahishadal, Midnapore.
 MALDA COLLEGE, Malda.
 *MANIMALA GIRLS' COLLEGE, Asansol, Burdwan.
 MIDNAPORE COLLEGE, Midnapore.
 NARSINGH DUTT COLLEGE, 129, Bellillo Road, Howrah.
 NETAJI MAHAVIDYALAYA, Arambagh, Hooghly.
 *PRASANNANDEV BALIKA MAHAVIDYALAYA, Jalpaiguri.
 PRABHATKUMAR COLLEGE, Contal, Midnapore.
 RAMANANDA COLLEGE, Bishnupur, Bankura.
 RAMKRISHNA MAHAVIDYALAYA, Kallanahar, Tripura State.
 RAMKRISHNA MISSION VIDYAMANDIR, Belur, Howrah.
 RAMPURHAT COLLEGE, Rampurhat, Birbhum.
 RAMSADAY COLLEGE, Amta, Howrah.
 RANAGHAT COLLEGE, Ranaghat, Nadia.
 RAIGANJ COLLEGE, Raiganj, West Dinajpur.
 RISHI BANKIMCHANDRA COLLEGE, Nalhati P.O., 24-Parganas.
 SANTIPUR COLLEGE, P.O. Santipur, Nadia.
 SCOTTISH UNIVERSITIES MISSION COLLEGE, Kalimpong, Darjeeling.
 SERAMPORE COLLEGE, Serampore, Hooghly.
 SHYAMSUNDAR COLLEGE, Shyamsundar, Burdwan.
 SILIGURI COLLEGE, Siliguri, Darjeeling.
 SONADA SALESIAN COLLEGE, Darjeeling.
 SRI CHAITANYA COLLEGE, Habra, 24-Parganas.
 SRIPAT SINGH COLLEGE, Jiaganj, Murshidabad.
 *SOBOJINI NAIDU COLLEGE FOR WOMEN, Dum Dum, 24-Parganas.
 TAKI GOVT. COLLEGE, Taki, 24-Parganas.
 TAMBALIPTA MAHAVIDYALAYA, Tamruk, Midnapore.

ULUBERIA COLLEGE, P. O. Uluberia, Howrah.
 UNION CHRISTIAN TRAINING COLLEGE, Berhampore, Murshidabad.
 UTTARPARA RAJA PEARYMOHAN COLLEGE, Uttarpara, Hooghly.
 VICTORIA COLLEGE, Cooch-Bihar.
 VIDYASAGAR COLLEGE, Nabadwip, Nadia.
 VIDYASAGAR COLLEGE, Suri, Birbhum.
 VIJAYANARAIN MAHAVIDYALAYA, Itachune, Hooghly.
 VIVEKANANDA COLLEGE, Barisha.

Colleges marked with "Asterisk" are women's colleges.

SPECIAL INSTITUTIONS

Government.

GOVERNMENT COMMERCIAL INSTITUTE, 15, Netaji Subhas Road, Calcutta.
 GOVERNMENT SCHOOL OF ART, 28, Chowringhee Road, Calcutta.
 BAIGACHI GOVERNMENT BASIC TRAINING SCHOOL, No. 1, Post Office Tababaria, 24 Parganas.
 BAIGACHI GOVERNMENT BASIC TRAINING SCHOOL, No. 2, Post Office Tababaria, 24 Parganas.

TECHNICAL AND INDUSTRIAL INSTITUTIONS

MAHARAJA COSIMBAZAR POLYTECHNIC INSTITUTE, 3, Nanda Lal Bose Lane, Calcutta.
 CALCUTTA DEAF AND DUMB SCHOOL, 293, Upper Circular Road, Calcutta.
 BHARATI VIDYALAYA, 35/2, Bradon Street, Calcutta.
 MUSLIM ORPHANAGE INDUSTRIAL SCHOOL, 8, Syed Saleh Lane, Calcutta.
 KARAYA INDUSTRIAL SCHOOL, 8, Nasiruddin Road, Calcutta.
 CALCUTTA ORPHANAGE TECHNICAL SCHOOL, 1/1, Balaram Ghose Street.
 THE REFUGEE, 125, Bowbazar Street, Calcutta.
 ALL-INDIA LIGHT-HOUSE FOR THE BLIND, 27, Russa Road.
 L. M. S. BOYS' INDUSTRIAL SCHOOL, Kaurapukur, Tollygunge.
 ST. GABRIEL'S INDUSTRIAL SCHOOL, Canning, 24 Parganas.
 CALCUTTA BLIND SCHOOL, Behala, 24 Parganas.
 SRIRAM INDUSTRIAL SCHOOL, Sultanpur, Birbhum.
 DEAF AND DUMB SCHOOL, Suri, Birbhum.
 BENGAL AFTER-CARE ASSOCIATION, Bally, Howrah.
 B. P. TECHNICAL SCHOOL, Krishnagar.
 DEAF AND DUMB SCHOOL, Murshidabad.
 MOBERLY TECHNICAL SCHOOL, Hooghly.
 MALIARA INDUSTRIAL SCHOOL, Bankura.
 COLLEGE OF AERONAUTICAL SERVICES, P-37, Mission Row Extension, Calcutta 13.
 BANIPITH GIRLS' INDUSTRIAL SCHOOL, 57/3, Raja Dinendra Street, Calcutta.
 BANI MANDIR GIRLS' INDUSTRIAL SCHOOL, 2, Williams Lane, Calcutta.
 BALLYGUNGE SILPA VIDYALAYA, 14, Ballygunge Place, Calcutta.
 DESHABANDHU SILPA SIKSHALAYA, 124/1, Russa Road, Calcutta.
 SHAMIA GIRLS' INDUSTRIAL SCHOOL, 6, Palm Avenue, Ballygunge, Calcutta.
 MUSLIM GIRLS' FREE INDUSTRIAL SCHOOL, 52/1D, Bright Street, Calcutta.
 LORETO CONVENT INDUSTRIAL SCHOOL, Morapat, Mograhat, 24 Parganas.
 VAGINI NIVEDITA GIRLS' INDUSTRIAL SCHOOL, Udaipara, Hooghly.
 MISSION GIRLS' INDUSTRIAL SCHOOL, Bankura.
 KRISHNAGAR MAHILA SAMITY, Krishnagar.
 R. O. GIRLS' INDUSTRIAL SCHOOL, Nabadwip.
 Girls' institutions are in italics.

GOVERNMENT-SPONSORED TECHNICAL SCHOOLS

KALIKATA SHILPA VIDYAPITH, 13, Jamir Lane, Ballygunge, Calcutta 19.
 VISHNUPUR K. G. ENGINEERING INSTITUTE, Post Office Vishnupur, Bankura.

THE MAHARAJADHIRAJ SIR BEJOY CHAND INSTITUTE OF ENGINEERING AND TECHNOLOGY, Bardwan.

JADAVPUR UNIVERSITY

(P.O. Jadavpur University, Calcutta 32.)

Teaching:

Courses provided at present and Degrees:—

Engineering Courses:

Degree Courses in Mechanical Engineering (B.M.E.); Electrical Engineering (B.M.E.); Chemical Engineering—(B.Ch.E.); Civil Engineering (B.C.E.) and Tele-Communication Engineering (B. Tel. E.).

Post-Graduate Courses: Mechanical Engineering (M.M.E.); Electrical Engineering (M.E.E.); Chemical Engineering (M.Ch.E.) and Civil Engineering (M.C.E.).

Arts & Sciences Courses:

Preparatory Course to 3 years' Honours Course in Arts & Science; 3 years' Honours Course in Arts in English, Bengali, History, Economics, International Affairs, Philosophy, Sanskrit and Comparative Literature (B.A.).

3 years' Honours Courses in Science in Chemistry, Mathematics, Physics, Geological Sciences (B.Sc.).

Post-graduate courses in Arts in English, History, Economics, Bengali, Philosophy, Sanskrit, International Affairs, Comparative Literature (M.A.).

Post-graduate Courses in Science in Mathematics, Physics and Geological Sciences (M.Sc.).

University Colleges:—

College of Engineering & Technology, Bengal; College of Arts and Science.

Number of Students:—2,102.

President, Dr. B. C. Roy, M.D., M.R.C.P., F.R.C.S. (Eng.); Rector, Dr. T. Sen, Dr. Ing. (Munich), M.I.E. (Ind.); Registrar, P. C. V. Mallik, M.A. (Cantab.); Treasurer, S. S. Bagchi, B.E.M., M.I.E. (Ind.).

BUDGET 1958-59

Income: Rs. 14,44,180.

Expenditure: Rs. 31,40,173.

VISVA-BHARATI UNIVERSITY

Santiniketan, West Bengal.

Founded by Rabindranath Tagore in 1921; Incorporated as a Central University, 1951.

AIMS AND OBJECTS: To study the mind of Man in its realization of different aspects of truth from diverse points of view; to bring into more intimate relation with one another through patient study and research, the different culture of the East on the basis of their underlying unity; to approach the West from the stand-point of such a unity of the life and thought of Asia; to seek to realize in a common fellowship of study the meeting of the East and the West, and to strengthen the fundamental condition of World peace.

With such ideals in view to provide at Santiniketan a centre of culture where research into and study of the religion, literature, history, science and art of Hindu, Buddhist, Jain, Islamic, Sikh, Christian and other civilizations may be pursued along with the culture of the West, with that simplicity in externals which is necessary for true spiritual realization, in amity, good fellowship and co-operation between the thinkers and scholars of both Eastern and Western countries, free from all antagonisms of race, nationality, creed or caste.

Visva-Bharati is a residential University with students and teachers drawn from all over India and there is always a fair mingling of teachers, students and visitors from abroad. Students live a community life, dining in the same halls (with separate arrangements for vegetarians and non-vegetarians), playing in the same spacious play-grounds close to the hostels, organizing common socials, picnics, excursions, literary and musical entertainments.

Visva-Bharati maintains the following Institutions:

Patha-Bhavana (School), Siksha-Bhavana (Higher Secondary), Vidya-Bhavana (College of Under-Graduate and Post-Graduate Studies and

Research), Vinaya-Bhavana (Teachers' Training College), Kala-Bhavana (College of Fine Arts and Crafts), Sangit-Bhavana (College of Music and Dance). The University maintains also the following Research Departments: (1) Cheena-Bhavana, (2) Indo-Tibetan Institute, (3) Hindi-Bhavana, which organises teaching and Research in Chinese, Tibetan and Hindi respectively.

The Visva-Bharati central library contains about 145,000 volumes. There are sectional and seminar libraries attached to various departments. The University has its own hospital with a Chief medical officer and his assistants. The Guest House, which makes catering arrangements of its own, is open to visitors and guardians.

Besides the academic institutions, the University conducts two Departments: one for Rural Reconstruction and the other for Publication of Books. The Palli-Samgathana Vibhaga (Department of Rural Reconstruction) at Sriniketan is concerned mainly with a comprehensive study of the problems of rural life in its social, cultural, economic and other aspects and extension work in the villages. The department maintains a multi-purpose school with technical stream for rural children.

A two-year Certificate Course in Indian and Foreign languages viz. Sanskrit, Bengali, Hindi, Oriya, Chinese, Japanese, Tibetan, French and German is available to Post-Graduate and Under-graduate students. Those who have successfully completed the Certificate Course may continue another year's further study for the Diploma in the same languages.

Silpa-Sadana (Cottage Industry Training Centre) provides 2-year Certificate course followed by a further 1-year Diploma course in Weaving and Woodwork.

The Social Education Organizers Training Centre, started under the Community Project Scheme, provides for training of organizers deputed by the different States of the Indian Union.

A scheme of Agro-Economic Research is being conducted at the University under the auspices of the Ministry of Food and Agriculture, Government of India. The scheme has under its purview a considerable area consisting of West Bengal, Bihar, Orissa and Assam.

Under the auspices of the Ministry of Education a Scheme of Educational Extension Services for the improvement of teaching in the Secondary Schools has been introduced at Vinaya-Bhavana. The object of the scheme is to bring new ideas and ideals to bear upon the Secondary Schools.

The Institute of Rural Higher Education, started at Sriniketan in December, 1956, sponsored by the Council of Rural Higher Education (Government of India) offers the following courses: (1) 3-Yr. Diploma course in Rural Services; (2) 2-Yr. Certificate course in Agricultural Science; (3) 1-Yr. Preparatory course.

Budget for 1956-57:

Govt. Grants	Rs. 8,29,792
Other Sources	Rs. 14,97,414
Total	Rs. 23,27,206
Expenditure	Rs. 29,75,275
<i>Chancellor:</i> Jawaharlal Nehru, M.A. (Cantab.).	
<i>Vice-Chancellor:</i> K. C. Chaudhuri, M.A.	
<i>Registrar:</i> S. C. Chakravarty, M.Sc., LL.B.	
<i>Principal:</i>	
Vidya Bhavana, Dr. S. Bhattacharya, M.A., Ph.D. (Lond.), D. Litt. (Lille).	
Siksha-Bhavana, S. C. Roy, M.A.	
Sangit-Bhavana, Sallajaranjan Majumdar, M.Sc., LL.B.	
Kala-Bhavana, D. K. Dev Barman.	
Patha-Bhavana, S. C. Roy, M.A.	
Vinaya-Bhavana, A. N. Basu, M.A. (Lond.).	
Cheena-Bhavana, Tan Yun-Shan.	
Hindi-Bhavana, Dr. B. S. Tomar, M.A., D.Phil. (Ald.).	
<i>Director, Rural Reconstruction Institute, Dhira-</i>	
<i>nanda Roy.</i>	
<i>Director, Publications Department, Pullinbehari</i>	
<i>Sen, M.A.</i>	
<i>Director, Agro-Economic Research Section, Dr.</i>	
<i>Jyoti Prasad Bhattacharjee, M.A., Ph.D.</i>	
<i>Librarian, Central Library, Bimal Kumar Datta,</i>	
<i>M.A., Dip. Lit.</i>	
<i>Proctor, Vacant.</i>	

SOCIETIES, ASSOCIATIONS, ETC.

ACADEMY OF FINE ARTS

Indian Museum House,

27, Chowringhee, Calcutta 13.

President: Lady Ranu Mukherjee; *Jt. Hon. Secretaries:* Rathin Maltra, Gopal Ghose; *Hon. Treasurer:* T. N. Hor.

ACHINTA MOHAN HOMOEOPATHIC HOSPITAL

21, Justice Dwarkanath Road, Calcutta 20.

President: Smt. Promila Devi; *Hon. Jt. Secretaries:* Kalidash Mukherjee, Bankim Chatterjee; *Superintendent:* Dr. H. L. Sengupta, M.B.B.

AIR TECHNICAL TRAINING INSTITUTE

4, Mall Road, Dum Dum.

Principal: S. C. Moltra, M.A.E.S.I., A.M.E.

THE ALL BENGAL PHYSICAL CULTURE ASSOCIATION

5, Krishna Bihari Sen Street, Calcutta 7.

President: Bhupati Majumdar; *Minister, Government of Bengal;* *Hon. Secretary:* Dr. H. C. Ray, M.A., F.R.S., Ph.D., D.Lit. (Lond.), F.A.S.; *Hon. Treasurer:* Dr. P. C. Chunder, M.A., LL.B., D.Phil. (Cal.). *Hon. Joint Secretary:* Sachindra Mohan Ghosh, Advocate.

ALL-BENGAL TEACHERS' ASSOCIATION

15, Bankim Chatterjee Street, Calcutta 12.

Office-Bearers: Bejoy Behari Bose (*President*); Satyapriya Roy (*General Secretary*).

ALL BENGAL WOMEN'S UNION

89, Elliot Road, Calcutta 16.

Chairman: Smt. S. C. Mukherjee; *Hon. Gen. Secy.:* Smt. N. Hajara; *Chairman, Adult Home:* Smt. Romola Saha; *Chairman, Children's Home:* Smt. B. Roy.

ALL INDIA ARYA (HINDU) DHARMA SEVA SANGH

102, Mukhtaram Jaba Street, Calcutta 7.

President: Seth Jugalkishore Birla; *General Secretary:* Ravbhankar Tripathi; *Sanchalak:* Vishwanath Shashtri.

ALL-INDIA ASTROLOGICAL AND ASTRONOMICAL SOCIETY

(Regd., Estd. 1907).

Head Office:

"Jyotish-Sumrat Bhawan", 50/2, Dharamtala Street, Calcutta 13.

Branch Office: 105, Grey Street, Calcutta 5.

President: Jyotish-Sumrat Pt. Ramesh Ch. Bhattacharya, Jyotishnarab, Samudrikratna, Raj-Jyotish, M.R.A.S. (Lond.) *Secretary & Librarian:* Dr. Prof. Pt. K. Roy, Jyotishn-charyya, M.A., Ph.D., M.A.A.S.; *Manager:* P. K. Bhattacharya, B.Com.; *Administrative Officer:* D. N. Ganguly, B.A.

ALL INDIA CANTONMENTS ASSOCIATION

1/2, Nundy Street, Calcutta 29.

President: Seth Govind Dass; *Hon. Secretary:* Kidar Nath, M.A., LL.B.

ALL INDIA INSTITUTE OF HYGIENE AND PUBLIC HEALTH

110, Chittaranjan Avenue, Calcutta 12.

Director: Dr. N. Jungalwalla.

ALL-INDIA JUTE MILL BOBBIN MANUFACTURERS ASSOCIATION

P-11, Mission Row Extension, Calcutta 1.

Gram: "Care Conjoint," Phone: 23-2052.

President:—S. N. Khaitan; *Vice-President:* B. D. Poddar.

ALL INDIA LAWN TENNIS ASSOCIATION

90-A, Bokulbaghan Road, Calcutta 25.

President: Rajkumari Anrit Kaur; *Hon. Secretary:* S. L. B. Sawhny; *Hon. Treasurer:* Dr. S. Rajan.

ALL-INDIA MANIMELA MAHAKENDRA

16, Col. Blawas Road, Calcutta 19.

Child Welfare.

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Office-Bearers: D. J. Cohen (*Vice-President*); Leslie W. Newbond (*Secretary*).

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31, Mufidul Islam Lane, Calcutta 14.

Philanthropic, Educational & Social Institution
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General Secretary: Jites C. Guha, M.A., M.B.

Principal of Deshbandhu College.

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39, Lower Circular Road, Calcutta 16.

Director: Dr. U. P. Basu, D.Sc., F.N.I.

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Central Library, Calcutta University, Ashutosh Building, Calcutta 12.

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4/3/A, Bankim Chatterjee St., Calcutta 12.

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BENGAL THEOSOPHICAL SOCIETY

4/3A, Bankim Chatterjee Street, Calcutta 12.

President: Prof. A. Das Gupta; *Hon. Secretary:* S. K. Kar.

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P. 21, Scheme 49, C.I.T. Road,

P.O. Entally, Calcutta 14.

Chairman: Dr. A. G. Ukil; *Hon. Gen. Secy.:* Dr. K. N. De; *Hon. Treasurer:* D. P. Chatterjee.

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71/A, Kansaripara Road, Bhowanipur, Calcutta 25.

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BIBLE SOCIETY OF INDIA AND Ceylon (CALCUTTA AUXILIARY)

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11A, Nasiruddin Road, Calcutta 17.

Dramatic & Cultural Institution.

Director: Sombhu Mitra; *President:* Gangadho Bose; *Secretary:* Amar Ganguly.

BOSE INSTITUTE

93/1, Upper Circular Road, Calcutta 9.

Director: Dr. D. M. Bose, M.A., Ph.D., F.N.I.; *Head of the Dept. of Botany:* Dr. K. T. Jacob, M.A., Ph.D.; *Head of the Dept. of Chemistry:* Dr. P. K. Bose, D.Sc., F.N.I.

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India Exchange, 7th floor, Calcutta.

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BUDDHIST SOCIETY OF INDIA & BUDDHIST MISSION OF INDIA

31/1, Baghbazar St., Calcutta 3.

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(Est'd. 1947)

62, Bowbazar Street, Calcutta 12.

An association for propagation of the United Nations ideals and World peace.

President: P. C. Sen, M.L.A., Minister, Govt. of West Bengal; *Secretaries:* Prof. A. B. Dutta, H. N. Mozoomder, M.L.C.; *Treasurer:* K. K. Palit.

CALCUTTA BACTERIOLOGICAL INSTITUTE

105, Vivekananda Road, Calcutta 6.

Research-in-Charge: Dr. H. N. Sanyal, B.Sc., M.B.; *Technical Advisers:* Dr. D. Mitra, M.B., Dr. N. B. Gupta, M.Sc., M.B.

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6, Netaji Subhas Road, Calcutta.

CALCUTTA FRIENDS SOCIETY

84, Barrackpore Trunk Road, Calcutta.

CALCUTTA GRAIN, OILSEED & RICE ASSOCIATION

Royal Exchange, Calcutta.

CALCUTTA HIDES, SKINS SHIPPERS ASSOCIATION

6, Netaji Subhas Road, Royal Exchange, Calcutta 1.

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INDIAN SCIENCE CONGRESS ASSOCIATION

64, Dikhuma Street, Calcutta-17.

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F-11, Mission Row Extension, Calcutta 1.

Objects: To safeguard, protect and promote the interests of the Indian Soap and Cosmetics manufacturers. The Association has several committees in four zones, viz., East, West, North and South with their respective headquarters at Calcutta, Bombay, Madras and Calcutta. The Association has journal of its own under the style "Indian Oil and Soap Journal" in which articles of research on soaps and oils are published.

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INSTITUTE OF JUTE TECHNOLOGY

85, Ballygunge Circular Road, Calcutta 19.

Principal: R. N. Banerjee; *Superintendent:* N. E. Sen.

INSTITUTE OF RADIOPHYSICS AND ELECTRONICS

Univ. College of Technology, 92, Upper Circular Road, Calcutta 9.

Head of the Institute: Prof. J. N. Bhargava, D.Sc., F.N.I.

INSTITUTE OF RURAL HIGHER EDUCATION

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8, Gokhale Road, Calcutta 20.

The Institution also acts as the Indian National Committee for the World Power Conference, and the World Petroleum Congress.

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Researches on breeding and genetical, cytogenetical, anatomical, physiological, agronomical soil, biochemical and microbiological, myco-

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Its chief objects are:—To promote and advance the moral, intellectual, commercial, economic, political and social interests of the Marwari community and to protect its rights and status.

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The Ramakrishna Math and Mission are Organisations for missionary, philanthropic and educational service.

The Ramakrishna Math and Mission is registered under Act XXI of 1860 and has 73 centres spread over India, Pakistan, Burma, Ceylon, Singapore, Fiji, Mauritius and France.

It has under it 10 indoor hospitals, 53 outdoor dispensaries, 2 colleges for general studies, 1 for physical education, 6 for Teachers' Training, 2 for Social Education Organisers' Training, 1 for Rural Higher Education, 4 Engineering Schools, 5 Junior Technical Schools, 1 Agricultural School, 45 Students' Homes, 8 Orphanages, 39 secondary schools, 98 lower grade schools, 3 chatuspathis, 17 school-cum-community and adult education centres, 17 basic schools, 2 institutions for training nurses, and 58 libraries making a total of 370 institutions in addition to cultural and religious lectures and classes, mass education work, social service, monetary help and relief work.

The Ramakrishna Math has 66 centres spread over India, Pakistan, Europe, U.S.A., and Argentina. It conducts 4 hospitals, 14 outdoor dispensaries, 1 veterinary hospital, 3 secondary schools, 10 students' homes, 5 lower grade schools, 2 orphanages, 1 chatuspathi, 1 junior technical school, 10 principal publication centres, a convent, and a large number of libraries, besides relief work. It lays special emphasis on the dissemination of the spiritual and cultural ideals of India.

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President: Swami Siddatmananda; *Secretary:* Swami Prajnanananda; *Manager:* Swami Adyananda.**THE REFUGEE**
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Central Laboratory:—Haringhata Central Laboratory, P. O. Mohanpur (Dt. Nadia).
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Principal: Sallaja Ranjan Majumdar, M.Sc., B.L.**SANSKRIT SAHITYA PARISHAT**
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Literary, Sporting, Social and Cultural.

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SILPASREE

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2B, Camoe Street, Calcutta.
The S.P.C.I. seeks to rescue and protect children in India who are exposed to any kind of danger, e.g., cruelty, moral danger, exploitation, vagrancy, delinquency and the like, irrespective of caste or creed or nationality.
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No. 2, Dhurumtolla Street, Calcutta 13.
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LAND RECLAMATION CORPORATION LTD., 6, Ganesh Chandra Avenue, Calcutta 12.

Managing Agents: United Provinces Commercial Corporation.

Laterite Syndicate Ltd., High Alumina Cement Patentees in India and Abroad, 36, Chowringhee, Calcutta 16.

Lawrence & Mayo (India) Ltd., B-5, Olive Buildings, Calcutta 1.

Lee, C. H., Rooms 38-39, 67-B, Netaji Subhas Road, Calcutta 1.

Leys & Scientific Instrument Co., Ltd., 5-2, Old Court House Street, Calcutta 1.

Leonard Biermann, S. A., 12-1-A, Government Place East, Calcutta 1.

Leslie, W. (Motors), 24, Chittaranjan Avenue, Calcutta 12.

Levetus Limited, Pollock House, 18-B, Brabourne Road, Calcutta 1.

Lewis & Tyler Ltd., Belting and Hose Manufacturers, 6, Church Lane, Calcutta 1.

Lipika Ink Co. Manufacturers of all sorts of Inks, Chemists, Alambaras, Calcutta 25.

Lotus Oil Co., Manufacturers of Linseed Oil, Mowah Oil, Groundnut Oil, Coconut Oil, 44, Beadon Row, Calcutta 6.

Loyal Art Press, Art and Commercial Printers, 20, Strand Road, Calcutta 1.

Macfarlane & Co., Ltd., 25, Netaji Subhas Road, Calcutta 1.

Mackenzie, Lyall & Co., 5, Mission Row, Calcutta 1.

Mackie Bros., Process Block Specialists, Engravers, Printers and Designers, 53, Bowbazar Street, Calcutta 12.

Macneill & Barry Ltd., Merchants and Agents, 2, Fairlie Place, Calcutta 1.

Macropolo, D., & Co. Ltd., 11, Old Court House, Street, Calcutta 1.

Madan & Co., 116, Bowbazar Street, Calcutta 12.

Madan Gopal Mullick, 19, Brabourne Road, Calcutta 1.

Madhavil & Co., 11, Ezra Street, Calcutta 1.

Madhuprasad Mahabirprasad, 22, Canning Street, Calcutta 1.

Madona Paint, Colour & Varnish Works Ltd., 1/5, Frankrishna Mukherjee Road, Calcutta 2.

Mair, A. M., & Co. Ltd., Allahabad Bank Buildings, 6, Royal Exchange Place, Calcutta 1.

Majhipara Agricultural Farm, 3, Husuri Null Lane, Calcutta 14.

Majumdar, M. B. Ltd., 3, Chittaranjan Avenue, Calcutta 12.

Manick Lall Mullick, 8-1, New Bowbazar Lane, Calcutta 12.

Mansfield & Sons, Saw-mill Owners and Engineers, 16, Radhanath Chowdhury Road, Calcutta 15.

Mansfield Oil-Gas Co., Ltd., P-35, Ganesh Chandra Avenue, Calcutta 12.

Marine & General Suppliers' Corporation, 6-1B, Jugal Kishore Das Lane, Calcutta 6.

Maritime Supplying Agency, Engineers and Contractors, 3, Commercial Buildings, Netaji Subhas Road, Calcutta 1.

Mati Lall Atta, Seller of All Sorts of Cast Iron Goods and Hardware, 54, Netaji Subhas Road, Calcutta 7.

Millsters Ltd., 67-B, Netaji Subhas Road, Post Box No. 2618, Calcutta.

Modern General Agencies Ltd., 4, Stephen House, 4, Dalhousie Square (East), P.O. Box 2640, Calcutta 1.

MOHANTAL SONS, Successors to TREVILLION & CLARK, H.O. 21-B, Cannanagar Place, New Delhi. Branches at Garden Reach, Mussoorie and 8-A, Lindsay Street, Calcutta. Phone: New Delhi 40736; Mussoorie: 12; Calcutta: 24-2464. Grams: New Delhi: "TREVILLIONS"—at—Trevclark.

MOOLJEE SICKA & CO., Indian Tobacco and Biri Leaves Merchants, Biri Manufacturers, Tea Estate Owners, Exporters, Importers and Landlords. Head Office at 51, Ezra Street, Calcutta-1. Phone: Office (34-2748). Res: (44-1148) Grams: "TRISHOOL". Branches at Bombay, Gondia (Bombay), Tirora (Bombay), Champa (M.P.), Chakradharpur (Bihar) and Darjeeling etc. Partners: Kanjee Mooljee Sicks, Vijay Kanjee Sicks, Pratap Kanjee Sicks and Mahendra Kanjee Sicks. Manager: Gokaldas Kal-yanjee.

Nagendra Nath Basu Ltd., A-5, Jagannath Ghat, Calcutta 7.

Nagins Musical Products Co., Musical Dealers, 18, Mirzapur Street, Calcutta 12.

Naik & Co., 68-A, Netaji Subhas Road, Calcutta 7.

Nairam Sagarwall, Timber Importers, Stone Quarry Owners and General Merchants, 59-60, Strand Road, Calcutta 6.

Nandas Bros., 2, Chakrabarti Road (South), Bhowanipur, Calcutta 25.

Nandoram Khedanalal, 30, Upper Chitapore Road, Calcutta 7.

Naran Chunder Dey, Olive Buildings (China Bazar Side), Calcutta 1. Phone No. B.K. 2640.

Narandas Gopaldas, Chemical and Metal Broker, 2, Dalhousie Square East, Calcutta 1.

Natabar Paul & Co. Ltd., 19, Maharshi Debendra Road, Calcutta 7.

Natharun & Co., 26, Strand Road, Calcutta 1.

National Agencies, 120, Upper Circular Road, Calcutta 9.

NATIONAL CASH REGISTER CO., (A branch of the National Cash Register Co., Dayton, Ohio, U.S.A.). Head Office for India, Ceylon and Pakistan: Stephen House, 4-D, Dalhousie Square East, Calcutta 1. Grams: "NACARECO".

Calcutta Sales Office: 5, Park Street, Calcutta 16. Phone: 23-1923 and 23-1923.

National Cash Registers, Adding and Accounting Machines; Agents for India: Addressograph and Multigraph Addressing and Duplicating Machines; Friden Calculators.

National Collapsible Gate Co., Manufacturers of Collapsible Gates, Grills, etc., 38, Akhil Mistry Lane, Calcutta 9.

NATIONAL FIRE & GENERAL INSURANCE CO., LTD., 7, Council House Street, Calcutta 1. Fire, Marine, Motor & Miscellaneous Insurance. Bombay Office: 204, Dr. Dadabhai Naoroji Road. Gram: "NATINSFIRE, CAL." Phone: 23-6165 (5 Lines).

National Insulated Cable Co. of India Ltd., Stephen House, 4, Dalhousie Square East, Calcutta 1.

National Syndicate, Manufacturers and Importers, 2, Royal Exchange Place, Calcutta 1.

Nationale Handbank, N.V., 1, Royal Exchange Place (East), Calcutta.

Natwarial N. Daffary, Dealers in Screws, 46, Ezra Street, Calcutta 1.

New Theatres Ltd., 172, Dharamtala Street, Calcutta 13.

N. G. B. Concern Ltd., 9, Nayan Chand Dutt Street, Calcutta 6.

Ocean Accident & Guarantee Corporation Ltd., 32, Dalhousie Square, Calcutta 1.

Odhavji Devidas & Co., 9, Armenian Street, Calcutta 1.

Olpherts Ltd., 1-2, Moti Silk Street, Calcutta 13.

Olympia Sporting House, 1, Wellington Street, Bowbazar, Calcutta 12.

Omega Date-Stamp Mfg. Co., 13-D, Ghose Lane, P.O. Beadon Street, Calcutta 6.

Onkarmull Kanadiah & Co., Merchant and Banker, 18, Netaji Subhas Road, Calcutta 1.

Optics Manufacturing House, American Qualified Consulting and Dispensing Opticians, 309, Bow Bazar Street, Calcutta 12.

ORIENT EXPRESS CO. PRIVATE LTD., THE, Norton Buildings, 1 & 2 Old Court House Corner, Calcutta 1. Phones: 22-1911 & 22-1558. Grams: "OREXPRESCO." World Wide Travel Service. Authorised Agents for Airlines, Steamship Companies, Railways and Hotels. Offices in New Delhi, Calcutta and Bombay. Correspondents in 360 cities throughout the world. Managing Director: S. B. Poddar.

Orient Safe & Cabinet Manufacturing Co., Ltd., 133, Canning Street, Calcutta 1.

Orient Supply Syndicate, 2, Raja Woodmunt Street, Calcutta 1.

Panchkari Tat & Sons Ltd., 6, Meerbahar Ghat Street, Calcutta 7.

Panna Lal Seal & Co., 56-1A, Radha Bazar Street, Calcutta 1.

Pan-Orient Co., Ltd., Import and Export Merchants, 8, Waterloo Street, Calcutta 1.

Paper & Stationery Co., Paper Merchants and Importers, P-22, Radhabazar Street, Calcutta 1.

Paris Collapsible Gate Co., 2 & 3, Rife Road (Park Circus), Calcutta 17.

Pioneer Industries, 1, Mangoe Lane, Calcutta 1.

Quaderia Pharmacy, Chemists and Druggists, 20-1A, Jannagar Road, Calcutta 14.

Queenland Insurance Co., Ltd., 16, Netaji Subhas Road (Ground Floor), Calcutta 1.

Queen Stationery Stores, 63-E, Radhabazar Street, Calcutta 1.

Quick Photo Service Co., Ltd., 157-B, Dharamtala Street, Calcutta 13.

Radio Supply Stores Ltd., 3, Dalhousie Square, Calcutta 1.

Radon House, 89, Kalighat Road, Calcutta 26.

Rae & Co., Die Stampers, Card Printers and Engravers, 5-A, Madge Lane, Calcutta 16.

Rahman, S. A. & Sons, 11, Colootola Street, Calcutta 1.

Railway Appliances & Engineering Co., 71-A, Netaji Subhas Road, Calcutta 7.

Ramohandra Bajranglal, 173, Harrison Road, Calcutta 7.

Reference Library, 39/4/O, Beniatola Street, Calcutta 5. Importers, Booksellers and order Suppliers.

REFRIG PRIVATE LIMITED, 580, Chowringhee Road, Calcutta 16. Refrigerating & Air-conditioning Engineers. Distributors for Hallmark Machinery Manufactured by J. & E. Hall Ltd. of Dartford, England.

ROBERTS, McLEAN & CO. PRIVATE LTD., Head Office: 587, Netaji Subhas Road, Calcutta 1. Phone: 23-2154/55. Branches at: Ilaco House, Sir P. Mehta Road, Fort, Bombay; 200, Mount Road, Madras 2; and 14-A, Najafgarh Road, New Delhi. Grams: "ROBLEAN". Board of Directors: K. Tapuriah, Mg. Director; K. L. Thirani, Director; E. J. Benjamin, Director.

Sadasukh Kabra & Co., 2, Royal Exchange Place, Calcutta 1.

Saha, B. N. & Co., 26, Gouribari Lane, Calcutta 4.

Satal Engineering Works, 16, British Indian Street, Calcutta 1.

Saxby & Farmer (India) Ltd., 17, Convent Road, Entally, Calcutta 14.

S. B. Trading Co., 2, Manook's Lane, Calcutta 1.

Spence Limited, P-38, Mission Row Extension, Calcutta 13.

Standard General Assurance Co. Ltd., The, 9, Brabourne Road, Calcutta.

Standford Metal Co., Perforated Metals & Woven Wire, 101, Netaji Subhas Road, Calcutta 1.

Taparia & Co., Dealers in Ball and Roller Bearings, 137, Canning Street, Calcutta 1.

Tarachand Gupta & Co., 131, Cotton Street, Calcutta 7.

Tarachand Purnam, 7-1C, Lindsay Street, (4th Floor), Calcutta 16.

Tata Iron & Steel Co., Ltd., Manufacturers of Iron and Steel, 23-B, Netaji Subhas Road, Calcutta 1.

Tecalemit (India) Ltd., 31, Chittaranjan Avenue, Calcutta.

Uberol Limited, Manufacturers of Athletic Goods, 22-1, Chowringhee Road, Calcutta 13.

U. N. Co., Ophthalmic Opticians, 80, Harrison Road, Calcutta 9.

Union Insurance Society of Canton Ltd.—Branch Office: 32, Clive Buildings, 8, Netaji Subhas Road, Calcutta.

Union Metal Industries Ltd., Brass Electric Lampholders, Connectors, Aerial Fuses, 3, Clive Ghat Street, Calcutta 1.

Union Oil Distributing Co. (India), Room No. 16, 22, Canning Street, Calcutta 1.

Union Plywood Ltd., 1, Commercial Buildings, Calcutta 1.

UNITED PROVINCES COMMERCIAL CORPORATION, 6, Ganraj Chandra Avenue, Calcutta 13. Managing Agents: Assam Sillimanite Ltd., Sole Distributors

of Fordson Major Tractors, Implements and Spare Parts, Earth Moving Machinery & Equipment, Electrical Motors & Generators, Excavating Machinery, Mining Equipment, Pumps & Pumping Machinery, Refractories, Road Making Machinery, Sprayers & Dusters.

Universal Radio Co., 3/2, Madan Street, Calcutta 13.

Varat Plywood, Plywood Sheet Manufacturers, 67-B, Netaji Subhas Road, Calcutta 1.

Variety Trading Co., Hardwares, Metal Merchants, 231-2, Strand Bank Road, Calcutta 1.

Varma, M. L. & Co., 4-1, Bevd. Kali Banerji Row, Calcutta 6.

Vax Institute Laboratory Ltd., 12, Daspara Road, P.O. Uladanga, Calcutta 4.

Vishwa Bharati Trading Co., Welding & Safety Equipment Manufacturers, G.P.O. Box 2625, 84/1, Canning St., Calcutta. Grams: "ARCWELD".

Volta Limited, 8, Netaji Subhas Road, Calcutta 1. Head Office: Bombay 1.

Branches and Offices throughout the Country. Departments: Agricultural Machinery, Construction Equipment, Air Conditioning and Refrigeration, Electrical, Mechanical, Textile Machinery and Paper Machinery, Machine Tool, Pharmaceutical, Chemicals, Vitamins, Type-writers and Accessories.

Wakefield, C. C. & Co., Ltd., 7, Royal Exchange Place, Calcutta 1.

Wan Hsing Trading Co., Windsor House, Room No. 19, P-14, Mission Row Extension, Calcutta-1.

Waverley Pharmacy, 128, Dharamtala Street, Calcutta 13.

Wearwell & Co., Leading House for High Class Footwear, 1, New Market, Calcutta 13.

William Jacks & Co., Ltd., Engineers and General Merchants, 16, Netaji Subhas Road, Calcutta 1.

Xanthic Industries, Paints and Varnish Manufacturers, 14, Subhas Nagore Road, Calcutta 28.

Yagooball Moosajee & Co., Importers and Exporters, 67-A, Netaji Subhas Road, Calcutta 1.

Yogendra Brothers, 24, Netaji Subhas Road, Calcutta 1.

Young & Co., 44, Chittaranjan Avenue, South, Calcutta 12.

Young Graduate & Co., 126-C, Dharamtala Street, Calcutta 13.

Young India Typewriter Co., 253, Upper Chitpur Road, Calcutta 3.

Zenith Assurance Co., Ltd., Norton Buildings, 2, Old Court House Corner, Calcutta 1.

Zenith Ink & Gum Products Co., 29, Madan Mitter Lane, Calcutta 6.

Zenith Radio & Electric Stores, Electrical Importers and Dealers, 25, Ezra Street, Calcutta 1.

Zenith Wire-Netting Works, 113, Netaji Subhas Road, Calcutta 7.

Ziffo & Co., Freight Brokers, 5, Garstin Place, Ezra Street, Calcutta 1.

CLASSIFIED LIST OF TRADES AND PROFESSIONS

AGRICULTURAL MACHINERY & IMPLEMENTS

Associated Asby Industries Ltd.—22, Strand Road, Calcutta 1.
 Bengal Iron & Steel Works.—8, Canning Street, Calcutta 1.
 Great Eastern Outlay Works.—2A-2B, Chetal Road, Tollyganje, Calcutta 22.
 Gushatt, S. P. & Sons Ltd.—2, Madhusudan Paul Chowdhury Lane, Howrah.
 Howrah Foundry Works Ltd.—55-3, Ashu Bose Lane, Off Belilios Road, Howrah.
 Jayems Engineering Co.—22, Brabourne Road, Calcutta. Phone: Bank 6711.
 Leslie, W. & Co.—B-3, Olive Buildings, Calcutta 1.
 Marshall Sons & Co (India) Ltd.—33/1, Netaji Subhas Road (P O Box No 22), Calcutta Phone 22-4844 (3 lines) Grams "ENGINE"
 Spence Ltd.—P-38, Mission Row Extension, Calcutta 18.
UNITED PROVINCES COMMERCIAL CORPORATION, THE.
 —8, Ganesh Chandra Avenue, Calcutta 13. Assemblers & Sole Distributors for Fordson Major Tractors and Implements in India.
 Voltas Limited—8, Netaji Road, Calcutta

AGRICULTURAL REQUISITES

Jayems Engineering Co.—22, Brabourne Road, Calcutta. Phone: Bank 6711.
 Tecalemit (India) Ltd.—81, Chittaranjan Avenue, Calcutta. Phone: City 5080. Grams: "TECALEMIT."
 Voltas Limited—8, Netaji Road, Calcutta

AIR COMPRESSORS

Delhi Garage Ltd.—Gandhi House, P-34, Mission Row Extension, Calcutta.
 Jayems Engineering Co.—22, Brabourne Road, Calcutta. Phone: Bank 6711.
 Spence Ltd.—P-38, Mission Row Extension, Calcutta 18.
 Tecalemit (India) Ltd.—81, Chittaranjan Avenue, Calcutta. Phone: City 5080. Grams: "TECALEMIT."
 Voltas Limited—8, Netaji Road, Calcutta

ALUMINIUM MANUFACTURERS

A. G. Bros. & Co.—2, Neogipara Road, Calcutta 26.
 Aluminium Corporation of India Ltd.—7, Council House Street, Calcutta 1.
 Aluminium Manufacturing Co., Ltd.—56, Free School Street, Calcutta 16.
 Ashoka Aluminium Products—72-78, Old China Bazar Street, Calcutta 1.
 Indian Aluminium Co., Ltd.—31, Chowringhee Road, Calcutta 16.

AROMATIC CHEMICALS & ESSENTIAL OIL MANUFACTURERS

Banga Luxmi Chemical Works—11, Olive Row, Calcutta 1.
 Calcutta Chemical Co., Ltd.—35, Pandita Road, R. B. Avenue, Calcutta 22.
 Eastern Drug Co., Ltd.—4, Moyerspore Road, Calcutta 27.
 Ghose Bros (Perfumers).—50, Ezra Street, Calcutta 1.
 Hindustan Gas Co., Ltd.—8, Royal Exchange Place, Calcutta 1.
 Premier Stores Supplying Co., Ltd.—8, Royal Exchange Place, Calcutta 1.
 Pt. Debi Pershad Prayag Dutt Ltd.—59, Lower Chitpur Road, Calcutta 7.

AUTOMOBILE PARTS AND ACCESSORIES

Jayems Engineering Co.—22, Brabourne Road, Calcutta. Phone: Bank 6711.
 Spence Ltd.—P-38, Mission Row Extension, Calcutta 18.
 Tecalemit (India) Ltd.—81, Chittaranjan Avenue, Calcutta. Phone: City 5080. Grams: "TECALEMIT."

BATTERY MANUFACTURERS

Associated Motor & Electrical Works.—57-1, Dr. Abani Dutt Road, Howrah.
 Bharat Battery Manufacturing Co., Ltd.—P-1-A, Rashbehari Avenue, Calcutta 19.

Cassor Engineering & Accumulator Co.—6, Bramhan Para Lane, Calcutta 6.
 Chloride & Exide Batteries (Eastern) Ltd.—4, Lyons Banga, Calcutta 1.
 Eastern Accumulator Co.—3-1, Mangoe Lane, Calcutta 1.
 Eastern Electro-Chemical Co.—112, Narkeldanga Main Road, Calcutta 1.
 Electrical Storage Co., Ltd.—112, Narkeldanga Main Road, Calcutta 11.
 Free India Dry Accumulators Ltd.—2, Doyahatta Street, Calcutta 7.
 Hard Storage Battery Co.—12-23, Russa Road, Calcutta 23.
 Hindusthan Battery Manufacturing Co.—167, Old China Bazar Street, Bhola Nath Building, 2nd floor, Calcutta 1.
 Spence Ltd.—P-38, Mission Row Extension, Calcutta 18.

BELTING (TEXTILE) MFRS. AND SUPPLIERS

Bengal Belting Works Ltd.—2, Dalhousie Square, East, Calcutta 1.
 Brand, S. B., & Co.—80, Pathurialghat Street, Calcutta 6.
 Chowdhury Belting Works.—2, College Square, Calcutta 12.
 Lewis & Tylor (India) Ltd.—6, Church Lane, Calcutta.
 Zenith Stores & Agency Co.—19, Strand Road, Calcutta 1.

BISCUIT AND CONFECTIONERY MANUFACTURERS

Arizona.—2, Lindsay Street, Calcutta 16.
 Aryan Bakery.—53, Kali Temple Road, Calcutta 28.
 Bengal Confectionery Works.—99-3, Canning Street, Calcutta 1.
 Britannia Biscuit Co., Ltd.—5-1, Mangoe Lane, Calcutta 1.
 Calcutta Crown Biscuit Co.—99-3, Canning Street, Calcutta 1.
 East Indian Bakery.—106, Lansdowne Road, Calcutta 29.
 Empire Confectionery Co.—187-A, Dharamtala Street, Calcutta 12.
 Ferrasini's Ltd.—Humayan Court, 21, Lindsay Street, Calcutta 16.
 Flurry's Swiss Confectionery Ltd.—18-A, Park Street, Calcutta 16.
 G. S. Emporium Ltd.—47-A, Chittaranjan Avenue, Calcutta 12.

BOBBIN AND SPOOL MANUFACTURERS

Associated Timber Products Ltd.—Stephen House, Dalhousie Square, Calcutta 1.
 Bengal Bobbin & Plywood Co., Ltd.—44-46, Canning Street, Calcutta 1.
 Day Wood Iron & Steel Works.—36, Strand Road, Calcutta 1.
 General Stores Supplying Co.—137, Canning Street, Calcutta 1.
 General Supply Syndicate.—12, Raja Woodmunt Street, Calcutta 1.
 Greenway & Co.—3, Mangoe Lane, Calcutta 1.
 National Industrial Works.—135, Canning Street, Calcutta 1.
 S. K. Woodproducts Co.—86-2, Bahir Surah Road, Calcutta 10.
 Standard Wood Works.—200, Manicktolla Main Road, Calcutta 11.
 Wood Crafts Products.—8, Royal Exchange Place, Calcutta 1.

BOLT, NUT & RIVET MANUFACTURERS

Adarson & Co.—36, Strand Road, Calcutta 1.
 Alliance Engineering Works.—Santragachi, Howrah.
 Ashly & Co.—23, Strand Road, Calcutta 1.

BOOKSELLERS, PRINTERS AND PUBLISHERS

G. RINGER & CO.—Homeopathic Chemists, Booksellers and Publishers, 23, Lall Bazar Street, Calcutta 1. Phone: 22-4747. Grams: "RINGERCOY." Business running 78 years.
 Jaleo Publishing House.—35, Chittaranjan Avenue, Calcutta. Grams: "POCKETBOOK."
 Reference Library.—6/1/1, Rajendra Nath Sen Lane, Calcutta 6.
 W Newman & Co., Ltd.—3, Old Court House Street, Calcutta. Publishers of 'INDIAN BRADSHAW'.

BOTTLE CAP AND CAPSULE MANUFACTURERS

British Merchandise Co.—137, Canning Street, Calcutta 1.
 Chemical Association (Calcutta) Ltd.—55, Canning Street, Calcutta 1.
 Crown Cork Mfg. Co. (Calcutta).—1, Umakanto, "Swastika" Sen Lane, Calcutta 20.
 Dutt, P. S. & Bros.—7, Ezra Street, Calcutta 1.
 Wunday, P. & Sons.—39, Ratan Babu Road, Calcutta 2.
 Paul, N. B. & Co.—Manicktolla Bazar Lane, Calcutta 6.

BRUSH FACTORIES

Bengal Brush Factory.—20, Serpentine Lane, Calcutta 14.
 Bepin Pal Sons & Co.—174-A, Dharamtala Street, Calcutta 13.
 Briffonia Brush Works.—123-124, Canning Street, Calcutta 1.
 Caledonian Brush Works.—137, Canning Street, Calcutta 1.
 Champatola Brush Factory.—18, Ambarni Street, Calcutta 3.
 Climax Brush Works.—64-A, Mirzapur Street, P.O. Ambarni Street, Calcutta 3.
 Corawalla Brush Factory.—15, Ghosh Lane, Calcutta 6.
 Crown Brush Factory.—122, Old China Bazar Street, Calcutta 1.
 Dutt, S. K.—23, Strand Road, Calcutta 1.
 Ghosh, B. C. & Bros.—44, Old China Bazar Street, Calcutta 1.

BUTTON AND COMB MANUFACTURERS

Dacca Button Works.—23, Windsor House, Mission Row Extension, Calcutta 1.
 Jannadas Ramkumdas.—42, Sir Hariram Goenka Street, Calcutta 7.
 Smith, J. & Co.—124-6, Gopal Lal Thakur Road, Calcutta 25.

CANNING AND CONDIMENT WORKS

Bengal Collective Industries & Farm Ltd.—56, Husurimal Lane, Calcutta 14.
 Bhal Wadhawa Singh & Sons Ltd.—H.O.: 4, Stephens House, 4, Dalhousie Square East, Calcutta 1.
 Daw, Sen & Co. Ltd.—29, Dr. Suresh Sarkar Road, Entally, Calcutta 14.
 Farm & Fruit Products Ltd.—71-A, Chakrabarti Road North, Calcutta 20.
 Farmer's Industries—3, Husurimull Lane, Calcutta 14.
 Great Eastern Preserving Works.—13, Blochmann Street, Calcutta 13.

CANVAS AND PAULIN MANUFACTURERS

Harley, F. & Co.—5, Dehi Serampore Road, Entally, Calcutta 14.
 India Waterproofing & Dyeing Works.—80-2, Dharamtala Street, Calcutta 13.
 Mantion & Martin.—70, Netaji Subhas Road, Calcutta 1.
 Shew Prosad Bishnu Prosad.—M, Dinu Bakht Lane, P.O. Hathkole, Calcutta 6.
 Soobashah, A. S. & Bros.—33, Netaji Subhas Road, Calcutta 1.

CARD BOARD BOX MANUFACTURERS

Antool, S. & Co. Ltd.—61, Upper Circular Road, Calcutta 9.
 Ariacademy.—3, Noormul Lohia Lane, Barrabazar, Calcutta 7.
 Bengal Box Mfg. Co.—1 & 4, Raj Coomari Chatterjee Road, Comipur, Calcutta 2.
 Bengal Card Board Box Co.—14, Ambarni Street, Calcutta 3.
 Bengal Card Board Box Factory.—9-B, Noormul Lohia Lane, Calcutta 7.

CARPET MANUFACTORIES

Birla Jute Manufacturing Co., Ltd.—8, Royal Exchange Place, Calcutta 1.
 Cosmo Trading Co.—98, Netaji Subhas Road, Calcutta 1.
 Indian Carpet Corporation.—30, Central Avenue, Calcutta 13.
 Shroffs Carpets.—12, Chowringhee Road, Calcutta 13.

CHAMOIS LEATHER MANUFACTURERS

Hindustan Tannery.—Windsor House, P-14, Beatinak Street, Calcutta 1.
 National Tannery Co., Ltd.—Cannal South Road, Pagladanga, P.O. Tangra, Calcutta 15.

CHEMICAL AND PHARMACEUTICAL PRODUCT MANUFACTURERS

Adcoo Ltd.—29-3-A, Chetia Central Road, Calcutta 27. Manufacturers of Raw & Finished Pharmaceutical Products.
 Allied Drug Industries Ltd.—2, Mission Row, Calcutta 1.
 Arrow Co.—10-1, Bipradas Street, P.O. Ambarni Street, Calcutta 3.
 Aryan Drug House Ltd.—23, Kali Kumar Banerjee Lane, Calcutta 2.

CHEMICAL MANUFACTURERS

Albert David Ltd.—15, Chittaran Avenue, Calcutta 13.
 Alkali & Chemical Corporation of India Ltd.—I.C.I. House, 34, Chowringhee, Calcutta 13.
 Asiatic Oxygen & Acetylene Co. Ltd.—3, Dalhousie Square, Calcutta 1.
 Barroo Coke Co. Ltd.—4, Olive Row, Calcutta 1.
 Bathgate Co. Ltd.—17-19, Old Court House Street, Calcutta 1.
 Bengal Chemical & Pharmaceutical Works Ltd.—6, Ganesh Chandra Avenue, Calcutta 13.
 Bengal Immunity Co. Ltd.—152, Dharamtala Street, Calcutta 13.
 Birla Jute Mfg. Co. Ltd.—Calcium Carbide Dept., 8, Indian Exchange Place, Calcutta 1.

Birla Laboratories.—2, Boorpara Lane, Calcutta 20.
 Burma Lime & Chemical Co. Ltd.—4, Olive Ghat Street, Calcutta 1.
 Calcutta Chemical Co. Ltd.—35, Panditji Road, Calcutta 23.
 Calcutta Industrial Chemicals & Minerals Co. Ltd.—43, Dharamtala Street, Calcutta 13.
 Dabur (Dr. S. K. Burman) Ltd.—142, Bash Bahari Avenue, Calcutta 20.
 East India Pharmaceutical Works Ltd.—Bansree Bldgs., 11/1/4, Dr. Shyamam Prasad Mukerjee Road, Calcutta 23.
 Hindustan Heavy Chemicals Ltd.—Hindustan Bldgs., 4, Chittaranjan Avenue, Calcutta 13.
 Indian Chemical & Therapeutic Works Ltd.—63, Harnackpore Trunk Road, Calcutta 2.
 Indian Health Institute & Laboratory Ltd.—1, Garandagar Road, Dum Dum Cantt., Calcutta 23.
 Indian Medical Supply Laboratory Ltd.—5, Indian Exchange Place, Calcutta 1.
 Industrial Gases Ltd.—122, Canning Street, Calcutta 1.
 National Carbon Co. (India) Ltd.—Industrial Products Division, P-17, Mission Row Extension, Calcutta.
 Phosphate Co. Ltd.—14, Netaji Subhas Road, Calcutta 1.
 Shalimar Tar Products (1935) Ltd.—3, Lyons Range, Calcutta 1.
 Shaw Wallace & Co.—Fertilisers Department, 4, Bankhall Street, Calcutta 1.
 Stralk Ltd.—3, Indian Exchange Place, Calcutta 1.
 Smith Stanistreet & Co. Ltd.—13, Convent Road, Calcutta 14.
 Standard Pharmaceutical Works Ltd.—67, Dr. Suresh Sarkar Road, Calcutta 14.
 Union Drug Co. Ltd.—235, Bow Bazar Street, Calcutta 1.
 Voltas Limited.—3, Netaji Road, Calcutta.

CHEMICAL PLANT & MACHINERY MANUFACTURERS

C. S. A. (Mfg.) Co.—Forni Road, Behala, Calcutta 24.
 Chemical Industries & Eng. Co.—2-1, Barrackpore Trunk Road, P. O. Barrackpore, Calcutta.

CHEMISTS (IMPORTERS AND STOCKISTS)

G. RINGER & CO.—Homeopathic Chemists, Bookbinders and Publishers, 23, Lal Bazar Street, Calcutta 1. Phone: 23-4747. Grams: "RINGERCOY." Business running 75 years.

CHEMISTS & DRUGGISTS

Allied Agency.—16, Bonfield Lane, Calcutta.
 Ashok Exporters & Importers.—4, Bhawanji Dutta Lane, Calcutta.
 B. B. Herman & Mohatta (India) Ltd.—19, British Indian Street, Calcutta.
 Bajaya Glass Depot.—7, Jackson Lane, Calcutta.
 Bengal Corporation Ltd.—14, Netaji Subhas Road, Calcutta.
 Bengal Mineral Supply Co.—71-A, Netaji Subhas Road, Calcutta.
 Bharat Export & Import Co.—6, Karhalla Mohammed Street, Calcutta.
 Bhimmin Sunderrain.—14, Amratolla Street, Calcutta.
 Bhuta & Co.—6/B, Amratolla Street, Calcutta.
 C. A. Mohammad.—26, Brabourne Road, Calcutta.
 C. D. Thakkar & Co.—22, Brabourne Road, Calcutta.
 Calcutta Traders Co.—23, Amratolla Street, Calcutta.
 Chemical & Commercial Industry.—39A, Armenian Street, Calcutta.
 Chemical Importers & Distributors Private Ltd.—21/22, Radha Bazar Street, Calcutta.
 Chemical & Solvents Ltd.—27/29, Brabourne Road, Calcutta.
 Chemical Trading Co.—72, Canning Street, Calcutta.
 Churnilal Radhakhyam.—22, Amratolla Street, Calcutta.
 Dass & Co. (India) Ltd.—43, Dharamtala Street, Calcutta.
 Eagle Brothers.—32, Armenian Street, Calcutta.
 Gha Iram Laxminarayan.—15, Portuguese Church Street, Calcutta.
 Harkindas & Co.—6, Amratolla Street, Calcutta.
 Hindustan Chemical & Industry Corporation.—23, Swallow Lane, Calcutta.
 Indo-European Agency Ltd.—67, Kara Street, Calcutta.
 Industrial Importer Ltd.—Room No. 49, 4, Dalhousie Square East, Calcutta.
 Ivan Jones Ltd.—18B, Brabourne Road, Calcutta.
 Jackaria Osman & Co.—4, Rajmohan Street, Calcutta 7.
 Jagannath Bajrangli.—22, Armenian Street, Calcutta.
 Jagannath Jotmal.—37, Armenian Street, Calcutta.
 Jagdishprasad Pannalal & Co. Ltd.—27, Amratolla Street, Calcutta.
 Jainarayan Nagarmall.—19, Mallick Street, Calcutta.
 Jankidas Shankarlal.—27, Mohanlal Street, Syambazar, Calcutta.
 Jankidas Ramgopal.—43, Canning Street, Calcutta.
 Kajaria Sons Ltd.—32, Armenian Street, Calcutta.
 Kanji Savaji Parekh.—55, Canning Street, Calcutta.
 Khandewal Bros. Private.—23, Netaji Subhas Road, Calcutta.
 Khaitan Brothers Private Ltd.—24, Netaji Subhas Road, Calcutta.
 Khaitan Sons & Co.—2, Dalhousie Square East, Calcutta.
 Khubchand Baijnath.—77, Netaji Subhas Road, Calcutta.

Krishnalal Purnashotandas.—32, Ezra Street, Calcutta.
 Lachhminarayan Ramjiwan.—13, Portuguese Church Street, Calcutta.

Mahabir Prasad Sita Ram.—15, Shoaram Bazaar Street, Calcutta.
 Merchants & Traders Ltd.—32, Armenian Street, Calcutta.
 Moda Brothers.—18, Sovaram Bazaar Street, Calcutta 7.
 Mohamed Ibrahim Mohamed Jaffer & Co.—16, Amratolla Lane, Calcutta.

Mohanal Chandrahan.—32, Armenian Street, Calcutta.
 Mohatta Brothers.—19, British Indian Street, Calcutta.
 N. N. Biswas & Sons.—19, British Indian Street, Calcutta.
 Narasinga: Bhowanath.—3, Amratolla Street, Calcutta.
 Narayandas Parmanandas.—37, Armenian Street, Calcutta.
 Odhavji Devidas & Co. (P) Ltd.—9, Armenian Street, Calcutta.
 Oswal Company Private Ltd.—14/2, Old China Bazar Street, Calcutta 1.

Pannalal Kishanlal.—18, Amratolla Street, Calcutta.
 Pioneer Chemical Corps.—19, Ganesh Chandra Avenue, Calcutta.
 Pokarnal Gurdayal.—208, Cross Street, Calcutta.
 Rajkumar (India) Private Ltd.—33, Netaji Subhas Road, Calcutta.
 S. Kunalchand & Co.—167, Old China Bazar Street, Calcutta.
 Shamdeo Govindram.—208, Cross Street, Calcutta.
 Shewbuxrai Onkarnall.—20, Burtolla Street, Calcutta.
 Shewbuxrai Rameshwarial.—20, Burtolla Street, Calcutta.
 Soorajmull Nagarmull.—8, Dalhousie Square East, Calcutta.
 Surajmull Murlidhar.—28, Amratolla Street, Calcutta.
 United Chemical & Hardware Agency.—27/29, Brabourne Road, Calcutta.

Universal Trading Co.—71, Canning Street, Calcutta.
 Vachharaj Nemchand & Co.—10, Portuguese Church Street, Calcutta.
 Vasant Corporation Ltd.—28, Amratolla Street, Calcutta.
 West Bengal Supply Agency.—35, Armenian Street, Calcutta.

CINEMATOGRAFIC EXHIBITORS

HUMAYAN PROPERTIES LTD.—1, Humayan Place, Calcutta 13. Property Owners, Cinematograph Exhibitors and also Theatrical Performances. Proprietors of 'New Empire Theatre', 'The Lighthouse Cinema' and 'Humayan Court'. Lessees of 'The Tiger Cinema.' Phone: 231401/2. Grams: "TIGER".

COTTON MILLS

Adarsha Cotton Spg. & Wvg. Mills Ltd.—41, Chowringhee Road, Calcutta 16.

Agarpara Kutir Silpa Pratisthan.—P.O. Agarpara, 24 Prgs.
 Arati Cotton Mills Ltd.—29, Strand Road, Calcutta 1.
 Banga Sri Cotton Mills Ltd.—Post Sukchar, Sodepur, 24 Prgs.
 Bangawari Cotton Mills Ltd.—33, Radhabazar Street, Calcutta.
 Bangodaya Cotton Mills Ltd.—176, Cross Street, Calcutta 7.
 Basanti Cotton Mills Ltd.—24, Netaji Subhas Road, Calcutta 1.
 Bengal Cotton Mills Ltd.—174B, Cross Street, Calcutta.
 Bengal Fine Spg. & Wvg. Mills Ltd.—7, Bowbazar Street, Calcutta 12.
 Bengal Luxmi Cotton Mills Ltd.—7, Chowringhee Road, Calcutta 13.
 Bhagyalaksmi Cotton Mills Ltd.—1A, S. N. Banerji Road, Calcutta.
 Bowrah Cotton Mills Co. Ltd.—21, Strand Road, Calcutta 1.
 Calcutta Silk Mfg. Co. Ltd.—37, Vivekananda Road, Calcutta 7.
 Calcutta Woollen & Silk Mills Ltd.—Kumari ara, Lilicoh, Howrah.
 Central Cotton Mills Ltd.—9, Brabourne Road, Calcutta.
 Chittaranjan Cotton Mills Ltd.—3, Netaji Subhas Road, Calcutta 1.
 Dhakeswari Cotton Mills Ltd.—Kanak Buildings, 41, Chowringhee Road, Calcutta 16.

Dunbar Mills Ltd.—21, Strand Road, Calcutta 1.
 East India Corporation Ltd.—18, Netaji Subhas Road, Calcutta 1.
 Hindusthan Cotton Mills Ltd.—5, Olive Row, Calcutta 1.
 Howrah Cotton Mills Ltd.—P-11, New Howrah Bridge App. Road, Calcutta 1.

Jay Shree Textiles Ltd.—Rishra, Hooghly.
 Jyoti Weaving Factory.—P-11, New Howrah Bridge App. Road, Calcutta 1.

Kanoria Industries Ltd.—59, Netaji Subhas Road, Calcutta 1.
 Kesoram Cotton Mills Ltd.—42, Garden Reach Road, Calcutta 24.
 Kesoram Cotton Mills Ltd.—9, India Exchange Place, Calcutta 1.
 Luxminarayan Cotton Mills Ltd.—4B, Garstin Place, Calcutta 1.
 Mahalaksmi Cotton Mills Ltd.—135, Canning Street, Calcutta 1.
 Manindra Mills Ltd.—P-49, B. F. Paul Avenue, Calcutta 5.
 Mohini Mills Ltd.—23, Canning Street, Calcutta 1.
 Onkar Industries (P) Ltd.—18, Netaji Subhas Road, Calcutta 1.
 Oriental Cotton Cultivation & Mills Ltd.—2, Waterloo Street, Calcutta 1.

Orissa Cotton Mills Ltd.—P-7, Mission Row Extn., Calcutta.
 Orissa Textile Mills Ltd.—33, Chittaranjan Avenue, Calcutta 12.
 Pioneer Knitting Mills Ltd.—6/1A, Prannath Scur Lane, B.T. Road, Calcutta 2.

Rampooria Cotton Mills Ltd.—147, Cotton Street, Calcutta 7.
 Rampooria Cotton Mills Ltd.—Serampore, Hooghly.

Shree Luchminarain Jute Mfg. Co. Ltd.—59, Netaji Subhas Road, Calcutta 1.

Siddheswari Cotton Mills.—54, Olive Street, Calcutta 7.
 Sri Annapurna Cotton Mills Ltd.—P-10, New Howrah Bridge App. Road, Calcutta 1.

Sri Durga Cotton Spg. & Wvg. Mills Ltd.—135, Canning Street, Calcutta 1.

Swadeshi Industries Ltd.—33, Netaji Subhas Road, Calcutta 1.
 Vidyasagar Cotton Mills Ltd.—11, Colocolla Street, Calcutta 1.

COTTON-WASTE MANUFACTURERS

Khan Industries Ltd.—14, Hare Street, Calcutta 1.
 Ladakchand O. Vora.—38-D, Netaji Subhas Road, Calcutta 1.
 Textile Waste Co.—119-C, Netaji Subhas Road, Calcutta 1.

CUTLERY MANUFACTURERS

Bengal Cutlery Works.—123-A, Dharamtala Street, Calcutta 18.
 Bengal Iron & Steel Works.—8, Canning Street, Calcutta 1.
 Edward Miller & Co.—20, Strand Road, Calcutta 1.
 Great Eastern Cutlery Works.—2A-2B, Chetia Road, Tollyganje, Calcutta 23.
 Indian Cutlery Manufacturing Co., Ltd.—A-2, Olive Buildings, Netaji Subhas Road, Calcutta 1.

CYCLE MANUFACTURERS

India Cycle Manufacturing Co., Ltd.—4, Olive Ghat Street, Calcutta 1.
 Sen-Raleigh Industries of India Ltd.—Mercantile Buildings, Lalbazar Street, Calcutta 1.

DIESEL ENGINES

UNITED PROVINCES COMMERCIAL CORPORATION, THE.—8, Ganesh Chandra Avenue, Calcutta 13. Fordson and other makes.

Volitas Limited.—8, Netaji Road, Calcutta

DISTILLERIES AND BREWERIES

Bengal Breweries Ltd.—6, Mission Row, Calcutta 1.
 Carey & Co. Ltd.—4, Fairlie Place, Calcutta 1.

EARTH MOVING EQUIPMENT

UNITED PROVINCES COMMERCIAL CORPORATION, THE.—8, Ganesh Chandra Avenue, Calcutta 13. Crawlers, Scrapers, Bulldozers, Angle Demers, Sheepfoot Rollers, Graders, Reetors, Diggers, Loaders, Dumpers, etc.

Volitas Limited.—8, Netaji Road, Calcutta.

ELECTRICAL ENGINEERS & CONTRACTORS

F. & C. Osler (India) Ltd.—12, Old Court House Street, Calcutta.
 Spence Ltd.—P-38, Mission Row Extension, Calcutta 13.

ELECTRICAL GOODS & APPLIANCES

Allied Iron & Steel Co., Ltd.—12, Dalhousie Square East, Calcutta 1.
 Argentefferous Metal Processing Co.—119-B, Harrison Road, Calcutta 7.

Associated Electrical Industries (India) Private Ltd.—Crown House, 6, Mission Row, Calcutta 1.

Asia Electric Lamp Co., Ltd.—45, Durga Charan Mukherji Street, Calcutta 8.

Bengal Electric Lamp Works Ltd.—190-C, Rash Behari Avenue, Calcutta 29.

Calcutta Fan Works Ltd.—'Lealie' House, 19B, Chowringhee Road, Calcutta 13. Phone: 23-3552.

Champion Neon Signs.—16, British Indian Street, Calcutta 1.

Globe Electric & Trading Co.—54, Ezra Street, Calcutta.

Modern General Agencies Ltd.—4, Stephens House, 4, Dalhousie Square East, Calcutta 1.

National Cable Works Ltd.—12, Dalhousie Square East, Calcutta 1.

ELECTRIC MOTORS & DYNAMOS

Marshall, Sons & Co. (India) Ltd.—33/1, Netaji Subhas Road (P.O. Box No. 22), Calcutta. Phone: 22-4844 (3 lines). Grams: "ENGINE."

Spence Ltd.—P-38, Mission Row Extension, Calcutta 13.

Volitas Limited.—Netaji Road, Calcutta.

ELECTRICITY SUPPLY WORKS

Associated Power Co., Ltd.—8, Olive Row, Calcutta 1.
 Calcutta Electric Supply Corporation Ltd.—Victoria House, Chowringhee Square, Calcutta 1.

Dishargah Power Supply Co., Ltd.—8, Olive Row, Calcutta 1.

Jalpaiguri Electric Supply Co., Ltd.—2, Church Lane, Calcutta 1.

Kurtoong Hydro-Electric Supply Co., Ltd.—12, Netaji Subhas Road, Calcutta 1.

ELECTROPLATED WARE & BRASSWARE MANUFACTURERS

Calcutta Metal Store.—62, Netaji Subhas Road, Burra Bazar, Calcutta 7.

Indian Brassware Store.—P-87B, Kalakar Street, Calcutta 7.
Metal House.—59-1, Cotton Street, Burra Bazar, Calcutta 7.
Nath's Brassware Factory.—6-2, Hospital Street, Calcutta 13.

ENGINEERING STORES

Calcutta Small Tools Co., The.—30, Strand Road, Calcutta.
INDUSTRIAL TOOLS & MILLSTORES CO.—67-B, Netaji Subhas Road, Calcutta 1. Dealers in Engineering Tools.
Spence Ltd.—P-38, Mission Row Extension, Calcutta 13.

ENGINEERS & CONTRACTORS

Agarwal Hardware Works Ltd.—167, Chittaranjan Avenue, Calcutta.
Air Conditioning Corporation Private Ltd.—B-2, Clive Buildings, 8, Netaji Subhas Road, Calcutta.
Atta's Iron Foundry.—171, Grand Trunk Road (IV), Bolkia, Howrah.
B. R. Harmon & Mohatta (India) Private Ltd.—19, British Indian Street, Calcutta 1.
Bagri Iron & Steel Co.—10/A, Shibtolia Street, Calcutta.
Balgopalides Iron & Steel Co. Ltd.—19, British Indian Street, Calcutta.
Bengal Electric Lamp Works Ltd.—7, Old Court House Street, Calcutta.
Bengal Rolling Mills Ltd.—86/B, Netaji Subhas Road, Calcutta.
Bent Engineering Works.—1, Crooked Lane, Calcutta.
Bhartha Commercial Co., Ltd.—P-23/24, Radha Bazar Street, Calcutta.
Bhartha Electric Steel Co. Ltd.—42, Shibtolia Street, Calcutta.
Bharat Electrical Industries Ltd.—6-A, S. N. Banerji Road, Calcutta 13.
Bihar Firebricks & Potteries Ltd.—22, Strand Road, Calcutta.
Binani Metal Works Ltd.—38, Strand Road, Calcutta.
Birkmyre Bros., Ltd.—87, Stephen House, 4, Dalhousie Square East, Calcutta.
Blue Star Enamel Co. (Private) Ltd.—49, Stephen House, 4, Dalhousie Square St., Calcutta.
C. Comens & Sons Ltd.—103/3, Diamond Harbour Road, Calcutta 23.
Calcutta Expanded Metal Mfg. Co. Ltd.—P-16, Kalakar Street, Calcutta.
D. K. Das & Co. Ltd.—233, Bellillo Road, Howrah.
Development of Metal Industries Ltd.—72-1, Lansdowne Road, Calcutta.
Electrical Construction & Equipment Co. Ltd.—35, Chittaranjan Avenue, Calcutta.
Electrical Mfg. Co. Ltd.—P.B. No. 800, Calcutta 1.
Engineering Works of India Ltd.—20, Ulladanga Road, Calcutta.
F. N. Goopin & Co.—12, Bellaghat Road, Calcutta.
Goodman & Co. (India) Ltd.—38, Netaji Subhas Road, Calcutta.
Harbanlal Malhotra & Sons Ltd.—18, Netaji Subhas Road, Calcutta.
Hind Constructions Ltd.—8, Royal Exchange Place, Calcutta.
Hind Tin Industries.—6, Jammal Mullik Road, Calcutta 6.
Hind Wire Industries Ltd.—India Exchange (3rd Floor), Calcutta 1.
Hindustan General Electric Corporation Ltd.—5, Royal Exchange Place, Calcutta.
Hindustan Motors Ltd.—8, Royal Exchange Place, Calcutta 1.
Hindustan Wire & Metal Products Ltd.—67/74, Stephen House, 4, Dalhousie Square East, Calcutta.
Howrah Trading Co. Ltd.—8, Dalhousie Square East, Calcutta.
India Cycle Mfg. Co. Ltd.—4, Clive Ghat Street, Calcutta.
India Industrial Works Ltd.—Dharamtolla Road, Malipanchghora, Howrah.
India Machinery Co. Ltd.—29, Strand Road, Calcutta 1.
Indian Malleable Castings Ltd.—4, Lyons Range, Calcutta 1.
Indian Tube Co (1953) Ltd.—41, Chowringhee Road, Calcutta.
James Alexander & Co. Ltd.—8, Dalhousie Square East, Calcutta 1.
Jeevanlal (1929) Ltd.—31, Netaji Subhas Road, Calcutta 1.
Krishnalal Thirani & Co. Ltd.—8, Royal Exchange Place, Calcutta.
Kushumika Iron Works Ltd.—3, Maharshi Debendra Road, Calcutta.
Lotus Industries Ltd.—33, Armenian Street, Calcutta.
M. C. Merojee & Co.—68, Kara Street, Calcutta 1.
M. G. B. Iron & Steel Works.—P-16, Kalakar Street, Calcutta 7.
Maya Galvanising Works.—Upper Chittpore Road, Calcutta 7.
Mechanical Engineering Co. Private Ltd.—Wardley House, 25, Swallow Lane, Calcutta.
Nathaniel Girdharilal.—22, Burtolla Street, Calcutta.
National Insulated Cable Co. of India Ltd.—Stephen House, 4, Dalhousie Square East, Calcutta 1.
National Metal Industries Ltd.—23-B, Netaji Subhas Road, Calcutta 1.
National Pipes & Tubes Co. Ltd.—67, Stephen House, 4, Dalhousie Square East, Calcutta 1.
National Screw & Wire Products Ltd.—Stephen House, 4, Dalhousie Square East, Calcutta.
Orient General Industries Ltd.—6, Ghore Bibi Lane, Calcutta 11.
Orient Industrial Engg. Co. Ltd.—P-16, Kalakar Street, Calcutta 7.

Oriental Gas Co. Ltd.—12-A, Park Street, Calcutta.
Oriental Metal Industries.—77, Bow Bazar Street, Calcutta.
Poddar Sanitary Works.—50, Chingrihatta Road, Calcutta 15.
Premier Stores Supplying Co. Ltd.—8, Royal Exchange Place, Calcutta.
Punjab Engineering Works.—77, Netaji Subhas Road, Calcutta.
Shalimar Wood Products Co.—138, Canning Street, Calcutta.
Ship Repairs (Pvt.) Ltd.—Tantolia Road, Fahirpur, Calcutta 24.
Shree Gopal Iron Works.—38-A, Kalighat Road, Calcutta.
Shree Hanuman Industries.—178, Harrison Road, Calcutta 7.
Shree Hanuman Steel Rolling Mills Co.—62/3/D-1, Chansury Road, Bolkia, Howrah.
Shree Krishna Private Ltd.—20, Mango Lane, Calcutta 1.
Shree Lakshmi Iron & Steel Works Ltd.—P-16, Kalakar Street, Calcutta 7.
Shyamnagar Tin Factory Ltd.—113, Manohardas Katra, Calcutta 7.
Steel Equipment & Construction Ltd.—23, Grand Trunk Road, Liluah, Howrah.
Steel Products Ltd.—96, Garden Beach Road, Calcutta 23.
Steel Rolling Mills of Hindustan Private Ltd.—135, Canning Street, Calcutta.
Swadeshi Industries Ltd.—33, Netaji Subhas Road, Calcutta 1.
Tata Iron & Steel Co. Ltd.—23-B, Netaji Subhas Road, Calcutta 1.
Tatanagar Foundry Co. Ltd.—Stephen House, 4, Dalhousie Square East, Calcutta 1.
United Rolling Mills Ltd.—171, Girish Ghose Road, Behurmata P.O., Howrah.
Variety Industrial Works Ltd.—P-16, Kalakar Street, Calcutta 7.

EXCAVATORS

Marshall, Sons & Co. (India) Ltd.—35/1, Netaji Subhas Road, (P.O. Box No. 22), Calcutta. Phone: 22-4844 (3 lines). Grams: "ENGINE."

UNITED PROVINCES COMMERCIAL CORPORATION, THE.
—6, Ganesh Chandra Avenue, Calcutta 13. Draglines, Shovels, Clamshells, Multi-bucket Excavators.

EXPANDED METAL MANUFACTURERS

Calcutta Expanded Metal Mfg. Co., Ltd.—P-16, Kalakar Street, Calcutta 7.
Hindustan Wire & Metal Products Ltd.—57-74, Stephen House, Dalhousie Square, Calcutta 1.

FLOUR MILLS

Bengal Flour Mills Co., Ltd.—21, Netaji Subhas Road, Calcutta 1.
Calcutta Flour Mills.—242-1, Upper Circular Road, Calcutta 14.
City Oil & Flour Mills Ltd.—6 & 7, Netaji Subhas Road, Calcutta 1.
Howrah Flour Mills Ltd.—21, Rupchand Roy Street, Calcutta 7.
Marwar Flour Mills.—244-2, Upper Circular Road, Calcutta 4.

FOOTWEAR MANUFACTURERS

Bata Shoe Co., Ltd.—30, Theatre Road, Calcutta 15.
Bengal Tannery Co.—51-14, Lower Chittpore Road, Calcutta 1.

GALVANIZED HOLLOW-WARES AND METAL-WARES

Bengal Bucket & Steel Works.—68-D, Netaji Subhas Road, Calcutta 1.
Day, M. L. & Co.—9, Harinbari 1st Lane, Calcutta 27.
Dhur Galvanising Works.—92, Ulladanga Main Road, Calcutta 4.
Electric Welding & Manufacturing Co. (India) Ltd.—2, Fairlie Place, Calcutta 1.
Ghosh & Co.—98, Harrison Road, Calcutta 7.

GENERAL MERCHANTS & COMMISSION AGENTS

Amritlal Ojha & Co. Private Ltd.—Security House, 23-B, Netaji Subhas Road, Calcutta.
Asiatic Investment Ltd.—13, Syed Salley Lane, Calcutta.
Asiatic Textiles Co. Ltd.—8, Dalhousie Square East, Calcutta.
Baldevdas Ramkishan.—16, Juma'al Ba'al Street, Calcutta.
Baldevram Baharilal.—51, Strand Road, Calcutta.
Basahar Dayal Shantiswarup.—29, Sir Hari Ram Goenka Street, Calcutta.
Bhagwandas Purnamal.—4, Narain Prasad Lane, Calcutta.
Bhawandas Ramgovind.—7, Sambhu Mullik Lane, Calcutta.
Bhurwaka & Co. Ltd.—8, Royal Exchange Place, Calcutta.
Chitravawala Co.—39, Burtolla Street, Calcutta.
Commission Agents Ltd.—161, Mahatma Gandhi Road, Calcutta.
Dipak Trading Co.—15, Amratolla Lane, Calcutta.
Dipchand Golchha.—10/1, Portuguese Church Street, Calcutta.
Dwarkanath Kashiprasad.—191, Mahatma Gandhi Road, Calcutta.
G. D. Daga & Co.—8, Canning Street, Calcutta.
Ganpatlal Rawatmal.—16, Canning Street, Calcutta.
Gordhandas Madanlal.—178, Mahatma Gandhi Road, Calcutta.
Gouridutt Hirani.—150, Cotton Street, Calcutta.
Gulraj Ramnivas.—133, Cotton Street, Calcutta.

Hannamangravat Poddar.—25, Swallow Lane, Calcutta.
 Hikalal B. Mehta.—143, Mahatma Gandhi Road, Calcutta.
 Indian Stores Supply Co. Ltd.—25, Netaji Subhas Road, Calcutta.
 Ivan Jones Ltd.—16-B, Brabourne Road, Calcutta.
 Jagannath Ramnath.—133, Cotton Street, Calcutta.
 Jainarain Ramchandra.—95, Chowringhee Road, Calcutta.
 Jankidas Basudeo Ltd.—74, Burtola Street, Calcutta.
 Jewraj Chunnail & Co. Ltd.—161/1, Mahatma Gandhi Road, Calcutta.

Jivanmal Gyanchand.—20, Noormal Lohia Lane, Calcutta.
 Jupiter Commercial Co.—7, Swallow Lane, Calcutta.
 Jyotiprasad & Co.—13, Noormal Lohia Lane, Calcutta.
 K. D. Mehta & Co.—64, Ezra Street, Calcutta.
 Kanji Pannachand Ltd.—83, Armenian Street, Calcutta.
 Kanoria Co. Ltd.—18, Mullik Street, Calcutta.
 Kashinath & Co. Ltd.—135, Canning Street, Calcutta.
 Kedarnath Mohanlal.—9, Jagmohan Mullik Lane, Calcutta.
 Khatan Sons & Co.—2, Dalhousie Square East, Calcutta.
 Krishnalal Thirani & Co. Ltd.—3, Royal Exchange Place, Calcutta.
 Lakshmichand Baidnath.—31, Cotton Street, Calcutta.
 Luchmi Narain Chandmull.—20, Sir Hari Ram Goenka Street, Calcutta.

Madanlal Khemka.—6, Old Post Office Street, Calcutta.
 Mahadeo Ramkumar.—123, Jumnalal Bajar Street, Calcutta.
 Ma's Iyay Frenchand.—137, Mahatma Gandhi Road, Calcutta.
 Mahadeolal Nathmal.—136, Cotton Street, Calcutta.
 Mill Products.—7-G, Clive Row, Calcutta.
 Murlidhar Ga'anand.—192, Jumnalal Bajar Street, Calcutta.
 Nagarmal Paliram.—201, Mahatma Gandhi Road, Calcutta.
 Palkiwa's Brothers Ltd.—14, Netaji Subhas Road, Calcutta.
 Parmanand Deepchand Hinduja.—1, Motilal Street, Calcutta.
 Peyarolal Parmeshwaril.—26, Armenian Street, Calcutta.
 Prabhat Marketing Co. Ltd.—36, Anharat Street, Calcutta.
 Premraj Ganpatraaj & Co.—55, Canning Street, (D-Block), Calcutta.
 Premshukdas Sitaram.—174, Mahatma Gandhi Road, Calcutta.
 Purambhagat Gopalram.—2, Mullik Street, Calcutta.
 Purnamal Shyamsundar.—191, Mahatma Gandhi Road, Calcutta.
 Ramdeo Satyanarain.—161, Mahatma Gandhi Road, Calcutta.
 Ramdutt Ramkhandas.—9, Brabourne Road, Calcutta.
 Ramkumar Agarwalla & Bros.—4, Lyons Range, Calcutta.
 Ramnath Bagaria.—113, Manohardas Katra, Calcutta.
 Rampratap Brijmohan.—20, Maharshi Devendra Road, Calcutta.
 Rathnam Tanukhrai.—161/1, Mahatma Gandhi Road, Calcutta.
 Santaram Shivrampdas.—165-B, Jumnalal Bajar Street, Calcutta.
 Senarain Doongarmal.—133, Canning Street, Calcutta.
 Sheonarain Ramnarain & Co.—3, Burtola Street, Calcutta.
 Shree Anand Mata Oil Mills.—402, Upper Chitpore Road, Calcutta.
 Shree Bajrang Trading Co.—9, Jagmohan Mullik Lane, Calcutta.
 Shree Bhagwati Oil Mills Ltd.—9, Jagmohan Mullik Lane, Calcutta.
 Sohanlal Mahabirprasad.—4, Jagmohan Mullik Lane, Calcutta.
 Sohanlal Mohanlal.—6, Lucas Lane, Calcutta.
 Shree Lal Debiwall.—113, Manohardas Katra, Calcutta.
 Sirram Nandram (Delhi) Ltd.—47, Khengrapatti Street, Calcutta.
 Sukhdeo Sheonath.—13, Pagsyapatti Street, Calcutta.
 Surajmull Harimukhrai.—193, Jumnalal Bajar Street, Calcutta.
 Swadeshi Ayat Niryat Ltd.—33, Brabourne Road, Calcutta.
 Tibrewalla Brothers.—47, Zakaria Street, Calcutta.
 United Hosiery Mill Ltd.—14, Netaji Subhas Road, Calcutta.
 V. P. S. Ayyemperumal Nadar & Sons.—33, Kalikranta Tagore Street, Calcutta.
 Vico Commercial Co.—44-45, Ezra Street, Calcutta.

GLASSWARE MERCHANTS

Artistic Glass Works.—1-3, Tagore Castle Street, Calcutta 6.
 Ashok Glass Works.—6, Ezra Road, Calcutta 1.
 Balur Glass Works.—203-1, Harrison Road, Calcutta 7.
 Bengal Glass Manufacturers' Association.—P-11, Mission Row Extension, Calcutta 1.
 Rajaniklal Company.—19, Old China Bazar Street, Calcutta 1.

GLUE MANUFACTURERS

Bengal Paste Co.—10, Delhi Entally Road, Entally, Calcutta 14.
 East India Glue Co.—32, Sambhunath Pandit Street, Calcutta 25.
 India Glue Works.—11, New Tanga Road, Calcutta 15.
 King Perfumery Works.—13, Khosra Das Lane, Calcutta 12.
 Unika Trading Co.—74, Lower Circular Road, Calcutta 14.

GRAMOPHONES & RADIO MANUFACTURERS

Dey, K. C. & Sons.—101-1, Harrison Road, Calcutta 7.
 Electro Radios Ltd.—10, Chowringhee Road, Calcutta 12.
 Great India Technical & Wireless Association.—2, Cornwallis Street, Calcutta 6.
 India Radio Manufacturing Co.—286, Chittaranjan Avenue, Calcutta 6.
 International Radio Emporium Ltd.—3, Madan Street, Calcutta 12.

HOSIERY MILLS

Bangalabhai Hosiery Mills.—56-1A, B. T. Road, Calcutta 2.
 Banwari Hosiery Factory.—1, Raja Gurudas Street, Calcutta 6.
 Basanti Hosiery Mills.—7, Marcus Square, Calcutta 7.

Broadway Textile & Hosiery Mills.—123-B, Raja Dinendra Street, Calcutta 4.
 D. N. Bose's Hosiery Factory.—36-1A, Sarkar Lane, Calcutta 7.

HOSPITAL EQUIPMENT & SUPPLIES

Hospital Appliances Manufacturing Co.—101-B, Chittaranjan Avenue, Calcutta 12.
 Scientific Glass Apparatus Co.—5-A, Prosonnokumar Tagore Street, Calcutta 6. Makers of Scientific and Medical Apparatus; Govt. and Railway Contractors.

HOSPITAL FURNITURE MANUFACTURERS

Hospital Supply Co.—111, Chittaranjan Avenue, Calcutta 12.
 Jay & Co.—12, Netaji Subhas Road, Calcutta 1.
 Surgical Antiseptic Dressing Co.—194, Old China Bazar Street, Calcutta 1.

HOTELS

OSEROI HOTELS (INDIA) PRIVATE LIMITED.—Calcutta.
 OSEROI GRAND.—Calcutta.

ICE AND AERATED WATER COMPANIES

Bengal Ice Co. Ltd.—49, Stephen House, 4, Dalhousie Square, Calcutta 1.
 Byron & Co. (Original Firm).—5, Chowringhee Place, Calcutta 12.
 Campbell's Minerals Co.—6-1, Sudder Street, Calcutta 10.
 Cotton & Co.—18, British Indian Street, Calcutta 1.
 Crystal Ice & Co.—50, Tanga Road, Entally, Calcutta 15.
 Osman Hajeer Adam & Co.—Post Box 225, Calcutta-1.

IMPORTERS & EXPORTERS

Abdul Karim Noor Mohamed & Co.—59, Canning Street, Calcutta.
 Acharya Brothers.—P-22/24, Radha Bazar Street, Calcutta.
 Adair, Dutt & Co. (India) Private Ltd.—Stephen House, 5, Dalhousie Square East, Calcutta.
 Agrawal Trading Corporation.—191, Harrison Road, Calcutta.
 American Pipe Co.—135, Canning Street, Calcutta.
 Arun Chandra Mandal.—8-A, Daspara Road, Calcutta.
 Aryan Mining & Trading Corporation Private Ltd.—61, Strand Road, Calcutta 6.
 Ashok Exporters & Importers.—4, Bhawanil Dutt Lane, Calcutta.
 B. Patnalk (Mines).—33, Chittaranjan Avenue, Calcutta.
 B. P. Khemka Ltd.—5, Clive Row, Calcutta.
 Babulal & Co. Private Ltd.—13, Syed Bailey Lane, Calcutta.
 Baljnath Bards.—15-B, Clive Row, Calcutta.
 Ballabhrum Badrinarain.—135, Canning Street, Calcutta.
 Banahidhar Purnhottamdas.—178, Mahatma Gandhi Road, Calcutta.
 Banwarilal Seth.—89, Netaji Subhas Road, Calcutta.
 Bengal Minerals Supply Co.—71-A, Netaji Subhas Road, Calcutta 1.
 Bharat Kala Bhander Ltd.—8, Royal Exchange Place, Calcutta.
 Bhikamchand Bolaram.—35, Armenian Street, Calcutta.
 Blyani & Sons Ltd.—137, Canning Street, Calcutta.
 Brindichand Bidikaran.—37, Old China Bazar Street, Calcutta.
 Bubna More & Co.—5, Clive Row, Calcutta.
 Calcutta Silk Manufacturing Co. Ltd.—37, Vivekananda Road, Calcutta.
 Camera Exchange.—17/2-A, Chowringhee Road, Calcutta.
 Central Marketing & Industries Ltd.—16, Ganesh Chandra Avenue, Calcutta.
 Central Trading Co.—137, Canning Street, Calcutta.
 Champaklal Brothers.—P-33, Mission Row Extension, Kent House, Calcutta 1.
 Chand Prasad More & Co.—5, Clive Row, Calcutta.
 Chhaganlal Hanumandas.—137, Netaji Subhas Road, Calcutta.
 Chhaganlal Kasturchand.—16, Pollack Street, Calcutta.
 Chonthmal Saraf.—62, Nalini Seth Road, Calcutta.
 Chowgule & Co. (Hind) Private Ltd.—"Laha Paint House", 7, Chittaranjan Avenue, Calcutta 12.
 Christian Mika Industries Ltd.—4, Lyons Range, Calcutta.
 D. N. Bakshi & Sons.—152-B, Mahatma Gandhi Road, Calcutta.
 Das & Co. (India) Private Ltd.—43, Dharamtolla Street, Calcutta.
DAWEE DADABHOY & CO., Importers & Exporters, 67, Canning Street, P.O. Box No. 75, Grams: "VARACHHA"—Calcutta; Branch: Dadabhoi Bldg. (2nd floor), 66, Carnaroe Road, Grams: "SAFFRY", Bombay.
 Dayal & Sons.—22, Swallow Lane, Calcutta.
 Dipak Trading Co.—15, Amratolla Lane, Calcutta.
 Dulichand Kashiprasad.—18, Agratolla Street, Calcutta.
 East Coast Export-Import Ltd.—"Rampooria" House, 2, Woodburn Road, Calcutta 20.
 East India Commercial Co. Ltd.—36, Netaji Subhas Road, Calcutta.
 East India Commercial Corporation.—174, Mahatma Gandhi Road, Calcutta.
 Eastern Cotton Co.—14/2, Old China Bazar Street, Calcutta.
 Ess Lahiri & Co. (Private) Ltd.—2, Church Lane, Calcutta 1.
 Gangadhar Ramchander.—403, Upper Chitpore Road, Calcutta.
 Garg & Sons.—128, Canning Street, Calcutta.

General Mercantile (Overseas) Corporation.—32, Ezra Street, Calcutta.
 Gopikishan Shrikishan.—55, Jumnalal Bajaj Street, Calcutta.
 Gopiram Poddar & Co.—9, Canning Street, Calcutta.
 Ganpatray Private Ltd.—2, Pretoria Street, Calcutta.
 H. M. Patwa & Co.—15, Nurmali Lohia Road, Calcutta.
 Hanumanbux Surajmal Ltd.—P-8, Mission Row Extension, Calcutta.
 Hind Enterprises.—8, Dalhousie Square East, Calcutta.
 Hind General Mercantile Agency Ltd.—3, Lyons Range, Calcutta.
 Hinduk Trading Co. (India) Private Ltd.—3, Stephen House, 4, Dalhousie Square East, Calcutta.
 Hira Trading Co.—614, Ezra Street, Calcutta.
 Indian Kapok Mills Association.—7, Hasarimull Saha Road, Salkia, Howrah.

Industrial Traders.—188, Canning Street, Calcutta.
 International Exporters Ltd.—178, Mahatma Gandhi Road, Calcutta.
 Ishwardas Jhabarmal.—P-10, New Howrah Bridge Approach Road, Calcutta.

Jamnadas & Co.—27, Amratolla Lane, Calcutta.
 Jankidas Bangopal.—48, Canning Street, Calcutta.
 Jeethmul Raichand Lal.—113, Netaji Subhas Road, Calcutta.
 Jiwanram Sheaduttal.—30, Ganesh Chandra Avenue, Calcutta.
 Jugalkishore Maheshwari.—12, Netaji Subhas Road, Calcutta.
 K. Vankaraj V. Suryanarayan.—3, Mullick Street, Calcutta.
 K. N. Jain & Sons.—29, Strand Road, Calcutta.
 Kalaria Sons Ltd.—32, Ezra Street, Calcutta.
 Kalidas Maganlal Shah & Co.—4, Rupchand Roy Street, Calcutta.
 Kamala Textile Agency.—113-B, Manohardas Katra, Calcutta.
 Kanodia & Co.—149, Cotton Street, Calcutta.
 Kanol Estates Ltd.—P-8, Mission Row Extension, Calcutta.
 Kanol (India) Ltd.—P-8, Mission Row Extension, Calcutta.
 Kedarnath Parsotamdas & Co. Ltd.—37, Netaji Subhas Road, Calcutta.

Keshrimull Kundaumull.—46, Strand Road, Calcutta 7.
 Khandalwal Thirani & Co. Ltd.—8, Royal Exchange Place, Calcutta.
 Khemka & Co. (Agencies) Ltd.—31/32, Royal Exchange Place Extn., Calcutta.

Khubchand Baijnath.—77, Netaji Subhas Road, Calcutta.
 Kodamull Nathmull.—37, Armenian Street, Calcutta.
 Lakshmi Produce Co. Ltd.—14, Netaji Subhas Road, Calcutta.
 Lakshminchand Baijnath.—31, Cotton Street, Calcutta.
 Lalchand Dharamchand.—6, Jumnalal Bajaj Road, Calcutta.
 Lotus Industries Ltd.—22, Zakaria Street, Calcutta.
 M. B. Kharwan Bros.—7, Swallow Lane, Calcutta.
 Mahilaram Bajaj & Co.—178, Mahatma Gandhi Road, Calcutta.
 Metal Distributors Private Ltd.—38, Strand Road, Calcutta.
 Mirilal Jain.—34-B, Ratu Sarkar Lane, Calcutta.
 Mohanlal Motilal.—14/2, Old China Bazar Street, Calcutta.
 Mohatra Brothers.—10, British Indian Street, Calcutta.
 Motihari Enterprises Private Ltd.—178, Mahatma Gandhi Road, Calcutta.

Modilal Hariprasad & Bros.—67/60, Strand Bank Road, Calcutta.
 Murarka (Overseas) Ltd.—17, Noormali Lohia Lane, Calcutta.
 Murlidhar Jhunjhunwala Ltd.—22/24, Radha Bazar Street, Calcutta.
 Nandlal Bajaj.—156, Jumnalal Bajaj Street, Calcutta.
 Nandram Hunstram.—8, Lyons Range, Calcutta.
 National Development Trust.—163, Jumnalal Bajaj Street, Calcutta.
 Nilmani Pal.—10-B, Mechua Bazar Street, Calcutta.
 O. H. Jagodia.—14, Netaji Subhas Road, Calcutta.
 Orient Engineering & Commercial Co. Ltd.—9-A, Dalhousie Square, Calcutta.

Oswal Company Ltd.—14/2, Old China Bazar Street, Calcutta.
 Pannalal Sagarmal.—10, Canning Street, Calcutta.
 Photo Emporium.—71, Ganesh Chandra Avenue, Calcutta 12.
 Ploi Chatterjee & Co.—24, Mango Lane, Calcutta.
 Pioneer Plastic Works Ltd.—9, Ezra Street, Calcutta.
 Power Farming Ltd.—3, Jagmohan Mullick Lane, Calcutta.
 Prayagdas Mathurias.—48, Strand Road, Calcutta.
 Punjab Cloth Mills Ltd.—20, Tarachand Dutt Street, Calcutta.
 Purnabottomilal Rajgarhia.—13, Harrington Street, Calcutta.
 R. McDill & Co. Private Ltd.—343, Ratu Sarkar Lane, Calcutta 7.
 R. L. Modi & Sons Ltd.—2, Dayehatta Street, Calcutta.
 Radharam Sohanlal.—9, Mullick Street, Calcutta.
 Raghunathrai Piyarelal.—15, Noormali Lohia Lane, Calcutta 7.
 Rambhadas Nandilal.—178, Mahatma Gandhi Road, Calcutta.
 Rameshwanlal Dedraj.—180, Mahatma Gandhi Road, Calcutta.
 Ram Gopal Pasari.—23/24, Radha Bazar Street, Calcutta.
 Ramjidas Shriram.—46, Upper Chitpore Road, Calcutta 7.
 Ramlal Sohanlal & Co.—2, Raja Woodmunt Street, Calcutta.
 Ranglal Shreechand.—94, Lower Chitpore Road, Calcutta 7.
 S. Lal & Co. Private Ltd.—15, Chittaranjan Avenue, Calcutta.
 Satyanarayan Prasad Vishnudeo Prasad.—9, Jagmohan Mullick Lane, Calcutta.
 Seth Nanakchand Shadiram.—Mohta House, 29, Strand Road, Calcutta.

Shevprakash Janakraj & Co.—160, Jumnalal Bajaj Street, Calcutta.
 Shevram Sitaram.—138, Jumnalal Bajaj Street, Calcutta.
 Shewbux Satyanarain.—30/31, Kalakar Street, Calcutta.
 Shree Bajrang Trading & Supply Co.—22, Burtolla Street, Calcutta.
 Shree Shew Sakti Oil Mills Ltd.—14, Netaji Subhas Road, Calcutta.
 Shree Shivagouri Oil Mills.—234/2, Upper Circular Road, Calcutta.
 Shri Niwas Co. Private Ltd.—14, Noormali Lohia Lane, Calcutta 7.
 Shyam Sunder Ltd.—P-16, Kalakar Street, Calcutta.

Shyamsunder Agarwala.—178, Mahatma Gandhi Road, Calcutta.
 Shyam Sunder Brilal.—P-11, New Howrah Bridge Approach Road, Calcutta.

Sonthalia & Company.—71, Jumnalal Bajaj Street, Calcutta.
 Sukhdeoas Kishanlal.—178, Mahatma Gandhi Road, Calcutta 7.
 Summerson Trading Co. Ltd.—201, Mahatma Gandhi Road, Calcutta.
 Sunder Lal Golobha.—113, Manohardas Katra, Calcutta.
 Sundarmal Parasaram.—161, Chittaranjan Avenue, Calcutta.
 Surajmal Hannumandas.—133, Cotton Street, Calcutta.
 Surajmal Murlidhar.—28, Amratolla Street, Calcutta.
 Swaika Vansapati Products Ltd.—18-B, Brabourne Road, Calcutta.
 Swadeshi Ayat Niryat Ltd.—33, Brabourne Road, Calcutta.
 Swatantra Bharat Trading Co. Ltd.—208, Jumnalal Bajaj Street, Calcutta.

Textile Store Dealers Ltd.—33, Netaji Subhas Road, Calcutta.
 Tolaram Ohampalal.—183/1, Dharamtolla Street, Calcutta.
 Umakant & Co. Private Ltd.—4, Mullick Street, Calcutta.
 United India Trading Co.—159, Chittaranjan Avenue, Calcutta 7.
 United Provinces Commercial Corporations.—6, Ganesh Chandra Avenue, Calcutta.

United Supply Agency Private Ltd.—38, Strand Road, Calcutta.
 Universal Importers Co.—32-B, Jackson Lane, Calcutta.
 Yasant Corporation Private Ltd.—28, Amratolla Street, Calcutta 1.
 Vijay & Company.—8, Chauringhee Road, Calcutta.
 Wool Agents Ltd.—10, Armenian Street, Calcutta.

INK MANUFACTURERS

Sandya, S. & Co.—P. O. Alambazar, Calcutta 35.
 Banerji, A. O.—Alambazar, Calcutta 35.
 Bharat Carbon & Ribbon Mfg. Co. Ltd.—543, Basantlal Saha Road, P. O. Tollygunge, Calcutta 38.
 Bishop & Co.—Barnagore, Calcutta 36.
 Calcutta Miscellany.—12, Ghose Lane, Calcutta 6.

INSECTICIDE MANUFACTURERS

D. C. M. Products (1987) Ltd.—9, Convent Road, Entally, Calcutta 14.
 Eastern Physiological Institute.—94, Harrison Road, Calcutta 7.
 Jardine Henderson Ltd.—4, Clive Row, Calcutta 1.
 John Paperson & Co. (India) Ltd.—14, Netaji Subhas Road, Calcutta 1.
 Saratin & Co.—41, Tengra Road, Calcutta 15.

INSURANCE COMPANIES

British Traders' Insurance Co. Ltd.—Branch Office: B2, Olive Buildings, 8, Netaji Subhas Road, Calcutta 1.
 Co-operative Assurance Co. Ltd., The.—Chief Agency Office: 11, Esplanade East, Calcutta 1. Phone: 23/8550.
 Dominion Insurance Co. Ltd.—6A, S. N. Banerjee Road, Calcutta 13. Phone: 24-4587.
 East End Provident Assurance Ltd.—10, Government Place East, Calcutta 1. Phone: City-6335.

STANDARD GENERAL ASSURANCE CO., LTD.—E. O. 1
 Bombay Mutual Building, 9, Brabourne Road, Calcutta 1.

UNION INSURANCE SOCIETY OF CANTON, LTD.—(Estd. 1835). Branch Office: B2, Gillander House, 8, Netaji Subhas Road, Calcutta 1. Marine, Fire, Motor, Workmen's Compensation and Miscellaneous Insurance. Manager: N. A. Rigg, Asstts.: M. L. Shivany, A. N. Mukherjee and S. K. Seth. Phone Nos. 22-1988 and 1989. Grams: "UNIONIST." P.O. Box 266.

JUTE MILLS

Adamjee Jute Mills Ltd.—5, Dalhousie Square East, Calcutta 1.
 Anglo-India Jute Mills Co. Ltd.—31, Netaji Subhas Road, Calcutta 1.
 Bally Jute Co. Ltd.—4, Olive Row, Calcutta 1.
 Barnagore Jute Factory Co. Ltd.—Barnagore, Calcutta 36.
 Bharat Jute Mills Ltd.—29, Strand Road, Calcutta 1.

JUTE PRESSES

Atlas & Union Jute Press Co. Ltd.—3, Kali Prasanna Singhee Street, Cossipore, Calcutta 2.
 Calcutta Hydraulic Press Co. Ltd.—8, Olive Row, Calcutta 1.
 Camperdown Pressing Co. Ltd.—23-A, Netaji Subhas Road, Calcutta 1.
 Central Hydraulic Press Co. Ltd.—8, Olive Row, Calcutta 1.
 Cossipore Hydraulic Press.—15, Ratan Babu Road, Cossipore, Calcutta 2.

LAC FACTORIES

Angelo Bros. Limited.—6, Lyons Range, Calcutta 1.
 Associated Commercial Concerns.—14, Bow Bazar Street, Calcutta 12.

LEAD MILLS

Dutt, K. L. & Sons.—1, Nirode Behary Mullick Road, Calcutta 6.
 India Rolling Mills Ltd.—9, Netaji Subhas Road, Calcutta 1.

LENS AND OPTICAL INSTRUMENT MANUFACTURERS

Instrument Research Laboratory Ltd.—309, Bow Bazar Street, Calcutta 12.
 Lens & Scientific Instrument Co. Ltd.—5-2, Old Court House Street, Calcutta 1.

LIME, STONE AND CEMENT WORKS

Burn & Co. Ltd.—12, Mission Row, Calcutta 1.
 Dr. Harendra Kumar Ghosh & Sons.—21, Barwaritola Road, Bellaghata, Calcutta 10.
 Indian Patent Stone Co. Ltd.—Chartered Bank Building, Calcutta 1.
 Swalka Brick Works.—Pollock House, 28A, Pollock Street, Calcutta 1.
 Sylhet Lime Co. Ltd.—4, Fairlie Place, Calcutta 1.

LOCK AND SAFE MANUFACTURERS

Bengal Iron Safe & Lock Works.—120, Sovabazar Street, Calcutta 5.
 Bombay Safe & Steel Works.—39, Netaji Subhas Road, Calcutta 1.
 Das & Co., Lock & Safe Specialists Ltd.—Protection House, 81A, Barrackpore Trunk Road, P. O. Cosmipore, Calcutta 2.
 Das Lock & Safe Mfg. Co. Ltd.—77B, Rash Behari Avenue, P. O. Kalighat, Calcutta 26.
 Godrej, Godrej & Boyce Mfg. Co., Private Ltd.—9, Brabourne Road and Park Street, Calcutta.

MACHINE PARTS MANUFACTURERS

Dutt, S. K.—20, Strand Road, Calcutta 1.
 Hindusthan Development Corporation Ltd.—Hindusthan Buildings, 4, Chittaranjan Avenue, Calcutta 13.
 New India Engineering Syndicate.—113-G, Netaji Subhas Road, Calcutta 1.
 Pasupati Engineering Co.—2, Dalhousie Square East, Calcutta 1.
 Shalimar Foundry Ltd.—32, Chittaranjan Avenue, Calcutta 13.

MACHINE SCREWS MANUFACTURERS

Ashly & Co.—28, Strand Road, Calcutta 1.
 Jugal Kishore Karmoker & Bro.—12, Jadu Pandit Road, Beadon Street, Calcutta 6.
 Khan Pal Chowdhury & Co. Ltd.—71A, Netaji Subhas Road, Calcutta 1.
 Mullik, A. M., & Co.—84-A, Room No. 169, Netaji Subhas Road, Calcutta 1.

MACHINE TOOLS

Bharatmata Engineering Works.—28, Strand Road, Calcutta 1.
 Hardware & Metal Industries Co.—30, Netaji Subhas Road, Calcutta 1.
 Hebrew Engineering Works Ltd.—20, Paul Street, Shambazar, Calcutta 4.
 Hindusthan Development Corporation Ltd.—Hindusthan Buildings, 4, Chittaranjan Avenue, Calcutta 13.
 India Machinery Co. Ltd.—29, Strand Road, Calcutta 1.

MACHINERY DEALERS & MANUFACTURERS

Ashly & Co.—28, Strand Road, Calcutta 1.
 Atlas Works Ltd.—119, Ripon Street, Calcutta 16.
 Bengal Metal & Machinery Syndicate.—P-39, Mission Row Extension, Calcutta 1.
 Bery Brothers.—135 Canning Street, Calcutta 1.
 Corporated Engineers (India) Ltd.—7, Chittaranjan Avenue, Chowringhee Square, Calcutta 13.
 Jayems Engineering Co.—22, Brabourne Road, Calcutta. Phone: 22-6711.
 Spence Ltd.—P-38, Mission Row Extension, Calcutta 13.
 Voltas Limited.—8, Netaji Subhas Road, Calcutta

MATCH FACTORIES

Esavi India Match Manufacturing Co.—47, Muraripukur Road, Maniktolla, Calcutta 4.
 Luxmi Match Ltd.—245, Upper Chitpore Road, Calcutta 3.

MECHANICAL AND STRUCTURAL ENGINEERS

D. N. Bose & Co. Ltd.—12, Kali Das Singhee Lane, Calcutta 9.
 Mechanical and Structural Engineers. Office-Bearers: D. N. Bose, P. C. Ghosh and S. N. Dey.
 Marshall, Sons & Co. (India) Ltd.—33/1, Netaji Subhas Road (P.O. Box No. 22), Calcutta. Phone: 22-4844 (3 lines). Grams: "ENGINE."

METAL & METAL ALLOYS

Binani Metal Works Ltd.—38, Strand Road, Calcutta 1.
 Eastern Metal & Alloy Corporation Ltd.—38A, Belgachia Road, Calcutta.
 Indian Metals & Alloys Co. Ltd.—Hike Road, Kidderpore, Calcutta 23.

Kamani Metal Refinery & Metal Industries.—B-3, Olive Buildings, 8, Netaji Subhas Road, Calcutta 1.
 Lilboosh Steel & Wire Co. Ltd.—4-B, Mukhtaram Babu Street, Calcutta 7.

METAL POLISH

Hutchison, J. & B., Ltd.—10, Olive Row, Calcutta 1.
 Lily Chemical Works.—Ultadanga, Calcutta.

METAL SMELTERS & REFINERS

Ashok Metal Industries.—157, Netaji Subhas Road, Calcutta 1.
 Associated Metal Industries of India Ltd.—16, Mangoe Lane, Calcutta 1.
 Bengal Ingot Co. Ltd.—5, Hide Road, Kidderpore, Calcutta 23.
 Bengal Wire Nails Co. Ltd.—37, Cross Street, Calcutta 7.
 Binani Metal Works Ltd.—33, Strand Road, Calcutta 1.

MILL & GIN STORE SUPPLIERS

General Rice Machinery Stores, The.—67-A, Netaji Subhas Road, Calcutta 1.
 Lewis & Tylor (India) Ltd.—6, Church Lane, Calcutta.
 Mill Stores Limited.—67-B, Netaji Subhas Road, Post Box No. 2613, Calcutta 1.
 Oriental Mill Stores Co., The.—71-A, Netaji Subhas Road, Calcutta 1.
 Voltas Limited.—8, Netaji Subhas Road, Calcutta

MOULDERS & BRASS FOUNDERS

Billias Engineering Co.—137, Canning Street, Calcutta 1.
 India Machinery Co. Ltd.—29, Strand Road, Calcutta 1.
 Kapoor, K., L. & Co.—90, Central Avenue (South), Calcutta 12.

NON-FERROUS METALS MFRS.

Aluminium Corporation of India Ltd.—7, Council House Street, Calcutta 1.
 Bengal Ingot Co. Private Ltd.—5, Hide Road, Kidderpore, Calcutta 23.
 Binani Metal Works Private Ltd.—38, Strand Road, Calcutta 1.
 Eyre Smelting Private Ltd.—5, Hide Road, Kidderpore, Calcutta 23.
 Ganga Metal Refining Co. Private Ltd.—43, Strand Road, Calcutta 1.
 Indian Aluminium Co. Ltd.—31, Chowringhee Road, Calcutta 16.
 Indian Cable Co. Ltd.—9, Hare Street, Calcutta 1.
 Indian Oxygen & Acetylene Co. Private Ltd.—48/1, Diamond Harbour Road, Calcutta 27.
 Metals & Ores Co. (A Division of National Carbon Co. (India) Ltd.)—Pollock House, 18-A, Brabourne Road, Calcutta 1.
 National Insulated Cable Co. of India Ltd.—"Stephen House", 4, Dalhousie Square East, Calcutta 1.
 National Pipes & Tubes Co. Ltd.—"Stephen House", 4, Dalhousie Square East, Calcutta 1.
 National Screw & Wire Products Ltd.—"Stephen House", 4, Dalhousie Square East, Calcutta 1.
 Non-Ferrous Metal Industries Private Ltd.—161/1, Harrison Road, Calcutta 7.
 Waidies Industries Private Ltd.—8, Netaji Subhas Road, Calcutta 1.

OFFICE SUPPLIES & EQUIPMENT MANUFACTURERS

Bharat Carbon & Ribbon Mfg. Co. Private Ltd.—543, Basanta Lal Saha Road, P. O. Tollygunge, Calcutta 23.
 Godrej, Godrej & Boyce Mfg. Co., Private Ltd.—9, Brabourne Road and Park Street, Calcutta.
 Oriental Sealing Wax Co.—31, Stephen House, Dalhousie Square, Calcutta 1.
 Sulekha Works Ltd.—Jadavpur, Calcutta 22.

OIL MILLS

Banga Luxmi Oil Mills.—11, Olive Row, Calcutta 1.
 Banashidhar Baljnath Oil Mills.—82-4, Sahitya Parishad Street, Calcutta 6.
 Basak Oil Mills.—44-1, Beadon Row, Calcutta 6.
 Bhagat Oil Mills.—32-4, Sahitya Parishad Street, Calcutta 6.
 Bharat Oil Mill.—245, Upper Circular Road, Calcutta 6.

ORCHARDS & NURSERIES

Alexander Nursery.—57-1, Durga Charan Mitter Street, Calcutta 6.
 Bhur Nursery.—57-10, Durga Charan Mitter Street, Calcutta 6.
 Biswas Nursery.—29, Biswas Nursery Lane, Bellaghata, Calcutta 10.
 Bolo Nursery.—7, Sristidhar Dutt Lane, P. O. Beadon Street, Calcutta 6.
 Calcutta Seed House.—1B, College Row, Calcutta 9.

OXIDE OF LEAD MANUFACTURERS

Indian Lead Products Ltd.—14, Netaji Subhas Road, Calcutta 1.
 Indian Red Lead Factory Ltd.—14, Netaji Subhas Road, Calcutta 1.

OXYGEN & ACETYLENE GAS MANUFACTURERS

Asiatic Oxygen & Acetylene Co. Ltd.—8, Dalhousie Square East, Calcutta 1.
 Indian Oxygen & Acetylene Co. Ltd.—48-1, Diamond Harbour Road, Calcutta 37.

PAPER MERCHANTS

BENGAL PAPER MILL CO. LTD., THE.—Ramiganj, West Bengal. Enquiries for all types of Paper to Balmer Lawrie & Co. Ltd., Calcutta.

PAPER MILLS

Aryan Paper Mills Ltd.—12, Chowringhee Square, Calcutta.
 Ballarpur Paper & Straw Board Mills Ltd.—6, Royal Exchange Place, Calcutta.
 Bengal Paper Mills Co. Ltd.—21, Netaji Subhas Road, Calcutta 1.
 Calcutta Paper Mills Ltd.—61, Cross Street, Calcutta 7.
 India Paper Pulp Co. Ltd.—6, Clive Road, Calcutta 1.
 Mahabir Paper & Board Industries.—9, Canal Road, Tollygunj, Calcutta.
 Orient Paper Mills Ltd.—8, India Exchange Place, Calcutta.
 Rohtas Industries Ltd.—11, Clive Row, Calcutta.
 Shree Gopal Paper Mills Ltd.—5, Royal Exchange Place, Calcutta.
 Star Paper Mills Ltd.—27, Brabourne Road, Calcutta.
 Titaghar Paper Mills Co. Ltd.—Chartered Bank Buildings, Calcutta.
 Triboni Tissues Private Ltd.—21, Netaji Subhas Road, Calcutta.
 Union Paper & Board Mills Ltd.—18, Netaji Subhas Road, Calcutta.
 United Board & Paper Mills Ltd.—100, Netaji Subhas Road, Calcutta.

PEN & PENCIL FACTORIES

Bharati Works.—2, Cornwallis Street, Calcutta 6.
 India Pen & Allied Industries Ltd.—86/2, Bahir Surah Road, Beliaghata, Calcutta 10.
 Indian Small Industries.—14, Jamini Kaviaraj Row, Calcutta 4.

PIECE-GOODS DEALERS

Arora & Co. (Private) Ltd.—7-A, Clive Row, Calcutta.
 Bajranglal & Co.—194, Jumnalal Bajaj Street, Calcutta.
 Bansal & Co., Ltd.—16, Noormal Lohia Lane, Calcutta 7.
 Bansidhar Nandlal.—197, Mahatma Gandhi Road, Calcutta.
 Bharat Textiles.—159, Jumnalal Bajaj Street, Calcutta 7.
 Bhawanidas Ramgovind.—7, Sambhu Mullick Lane, Calcutta.
 Bhesarial Briglal.—37, Jumnalal Bajaj Street, Calcutta.
 Bhesarial Mannalal.—174, Mahatma Gandhi Road, Calcutta.
 Bohitram Jugal Kishore.—55, Jumnalal Bajaj Street, Calcutta.
 Chiranjilal Banarsilal.—18, Mullick Street, Calcutta.
 Chouthmal Sethiya.—9, Armenian Street, Calcutta.
 Chunnilal Prabhudas & Co.—55/58, Canning Street, Calcutta.
 Commission Agents Ltd.—161, Mahatma Gandhi Road, Calcutta.
 Deviprasad Anandkumar.—30/31, Kalakar Street, Calcutta.
 Dhandhanja Brothers Ltd.—135, Canning Street, Calcutta.
 Dwarkadas Jethabhai.—12, Noormal Lohia Lane, Calcutta.
 Dwarkadas Mohanlal.—174, Mahatma Gandhi Road, Calcutta.
 Gajanan Kanhaiyalal.—174, Harrison Road, Calcutta.
 Gajanan Sarangi.—56, Sir Hariram Goenka Street, Calcutta.
 Gangadhar Neotia Sons.—18, Noormal Lohia Lane, Calcutta.
 Gopikishan Ishwardas.—74, Cross Street, Calcutta.
 Gopiram Hardeodas.—42/1, Strand Road, Calcutta.
 Govindlal Sarangi.—56, Sir Hariram Goenka Street, Calcutta.
 Gulabchand Dhanraj.—12, Noormal Lohia Lane, Calcutta.
 Gulabrai Mahadeo.—178, Mahatma Gandhi Road, Calcutta.
 Gurmukhroy Harmukhroy.—113, Manohardas Katra, Calcutta.
 Hariharan Shyamundar.—49/1/1, Cotton Street, Calcutta.
 Harialka & Co.—5, Dharamtolla Street, Calcutta.
 Hind Mica Ltd.—13/1, Harrington Street, Calcutta.
 Hirabux Sanwalram.—113, Manohardas Katra, Calcutta.
 Hukumchand Malchand.—22, Kalakar Street, Calcutta.
 Hulaschand Nahata.—194, Jumnalal Bajaj Street, Calcutta.
 Jagannath Bajranglal.—32, Armenian Street, Calcutta.
 Jagannath Sanwalram.—201, Mahatma Gandhi Road, Calcutta.
 Jainarayan Iralal.—113, Manohardas Katra, Calcutta.
 Jankidas Basudeo Ltd.—74, Burdolla Street, Calcutta.
 Jeetmal Jugalkishore.—74, Jumnalal Bajaj Street, Calcutta.
 Jethmal Gopaldas.—15, Pageyapatti Street, Calcutta.
 Jetmul Bhajraj.—4, Doyehatta Street, Calcutta.
 Jivannal Gyanchand.—20, Noormal Lohia Lane, Calcutta.
 Jivannam Gangaram.—35, Jumnalal Bajaj Street, Calcutta.
 Johurimal Ramall.—113-A, Manohardas Katra, Calcutta.
 Kalidas & Co.—35, Armenian Street, Calcutta.
 Kamalprasad Jagmohan.—178, Mahatma Gandhi Road, Calcutta.
 Kanhaiyalal Kitaram.—13, Pageyapatti Street, Calcutta.
 Kaniram Hazarimal.—2, Dayehatta Street, Calcutta.
 Kevaram Baljnathprasad.—26, Burdolla Street, Calcutta.
 Kedarnath Madanlal.—178, Mahatma Gandhi Road, Calcutta.
 Khaitan Sons & Co.—2, Dalhousie Square Street, Calcutta.
 Khatau Meckenjo Spg. & Wvg. Co. Ltd.—16, Noormal Lohia Lane, Calcutta.
 Khataidas Girdharilal.—3, Pageyapatti Street, Calcutta.
 Kishorilal Furushottamdas.—7, Sambhu Mullick Lane, Calcutta.

L. Vallabhdas Mathuradas.—15, Noormal Lohia Lane, Calcutta.
 Labbchand Subhakaran.—4/5, Noormal Lohia Lane, Calcutta.
 Lakhiprasad Loknath & Co.—34, Chittaranjan Avenue, Calcutta.
 Lakshminarain Bhagwatiprasad.—P-10, New Howrah Bridge Approach Road, Calcutta.
 Madanlal Khemka.—6, Old Post Office Street, Calcutta.
 Mahadeo Ramkumar.—128 Jumnalal Bajaj Street, Calcutta.
 Mangalchand Jagannath.—201, Mahatma Gandhi Road, Calcutta.
 Matadin Khaitan & Co. Ltd.—9, Ramkumar Rakshit Lane, Calcutta.
 Meghraj Kanhaiyalal.—113, Manohardas Katra, Calcutta.
 Mirzamal Sarangi.—201, Mahatma Gandhi Road, Calcutta.
 Narasingdas Biswanath.—3, Amratolla Street, Calcutta.
 Narasinghai Madangopal Piece-goods Co., Ltd.—11, Armenian Street, Calcutta.
 New India Mercantile Co. Private Ltd.—8, Royal Exchange Place, Calcutta.

Padam Sing & Co.—16, Pageyapatti Street, Calcutta.
 Park Textile.—160, Jumnalal Bajaj Street, Calcutta.
 Pannalal Furushottamdas.—113, Manohardas Katra, Calcutta.
 Pannalal Sarog.—58, Sir Hariram Goenka Street, Calcutta.
 Partabmul Rameshwar.—46, Strand Road, Calcutta.
 Pitamberlal Agarwal.—10, Armenian Street, Calcutta.
 Premraj Dulchand.—201, Mahatma Gandhi Road, Calcutta.
 Pyarelal Sarogi.—9, Bonfield Lane, Calcutta.
 Radhakison Netram.—6, Kalikrishna Tagore Street, Calcutta.
 Rajmal Boshanlal.—113, Manohardas Katra, Calcutta.
 Ramballav Rameshwar.—16, Brojajulal Street, Calcutta.
 Ramballav Satyanarain.—178, Mahatma Gandhi Road, Calcutta.
 Rambillas Sagarmal.—178, Mahatma Gandhi Road, Calcutta.
 Ramchandra Hanumanbux.—32, Jumnalal Bajaj Street, Calcutta.
 Ramdeo Lachminarayan.—17, Pageyapatti Street, Calcutta.
 Ramkishan Jalishan.—15, Pageyapatti Street, Calcutta.
 Ramkumar Sarogi.—56, Sir Hariram Goenka Street, Calcutta.
 Ramsarup Chandiprasad.—9, Jagmohan Mullick Lane, Calcutta.
 Rawatmal Bhairudan.—14, Portuguese Church Street, Calcutta.
 Sarogi Brothers.—128, Jumnalal Bajaj Street, Calcutta.
 Sewpersad Kalicharan.—49, Cotton Street, Calcutta.
 Sewram Susilkumar.—184, Cross Street, Calcutta.
 Shamdeo Gopiram.—208, Jumnalal Bajaj Street, Calcutta.
 Sheoduttaray Sreenivas.—26, Upper Chittpore Road, Calcutta.
 Shivratan Chandratan.—7, Noormal Lohia Lane, Calcutta.
 Spence Ltd.—P-38, Mission Row Extension, Calcutta.
 Sreechand Ganeshdass.—118, Manohardas Katra, Calcutta.
 Sreelal Debilal.—113-A, Manohardas Katra, Calcutta.
 Srimam Nandram (Delhi) Ltd.—47, Khengrapatti Street, Calcutta.
 Sukhdayal Rambillas.—113, Manohardas Katra, Calcutta.
 Vasanjee Moorsjee.—4/5, Noormal Lohia Lane, Calcutta.

PIPES & TUBES MANUFACTURERS

Indian Conduit Pipes Ltd.—Stephen House, Dalhousie Square, Calcutta 1.
 National Pipes & Tubes Co. Ltd.—67-74, Stephen House, 4, Dalhousie Square East, Calcutta 1.

PLASTIC PRODUCTS MANUFACTURERS

Daveo Products Ltd.—P31, Mission Row Extension, Calcutta 1.
 Hindusthan Industrial Syndicate.—2, Rash Behari Avenue, Calcutta 26.
 Kiron Products Ltd.—15-G, Fern Road, Calcutta 19.
 Pioneer Plastic Works Ltd.—46, Strand Road, 3rd Floor, Calcutta 1.
PLASTICS MOULDERS PRIVATE LTD.—38, Strand Road, P. O. Box No. G.P.O. 2213, Calcutta 1. Manufacturers of Plastic & Acetate Combs, Tooth brushes, Flexible wires, Fancy articles etc. All allied Plastic raw materials are also supplied by our Managing Agents Messrs. Plastic Distributors. Code used—Bendley's End Phrase. Phone: 22-3687/88; Grams: "PLASTIMOLD".

PLYWOOD MANUFACTURERS

Bengal Best Plywood Works.—19, Strand Road, Calcutta 1.
 Bengal Bobbin & Plywood Co. Ltd.—44-46, Canning Street, Calcutta 1.
 Bengal Plywood.—5-H-7, Canal East Road, Calcutta 4.
 Bengal Plywood Manufacturing Co.—1, Commercial Buildings, Calcutta 1.
 Bengal Saw Mill & Plywood Co.—8A, Dr. Jagabandhu Lane, Bowbazar, Calcutta 12.

POTTERIES, BRICK & TILE WORKS

A. B. C. Floors.—12, Dalhousie Square, Calcutta 1.
 Art Tiles & Concrete Works (India) Ltd.—11, Gobra Gortsthan Lane, Bhatitya, Calcutta 14.
 Bengal Pottery Co. Ltd.—3, Moti Ali Street, Calcutta 13.
 Bengal Potteries Ltd.—45, Tangra Road, Calcutta 15.
 Bharat Fire Bricks & Pottery Works Ltd.—93, Canning Street, Calcutta 1.

PUMPS & PUMPING SETS MANUFACTURERS AND DEALERS

Akhusain, A. T. & Co.—29, Strand Road, Calcutta 1.
 Allied Iron & Steel Co.—12, Dalhousie Square East, Calcutta 1.
 B. G. H. & Co.—12, Raja Woodmunt Street, Calcutta 1.
 Darling Pump Manufacturing Co.—22, Netaji Subhas Road, Calcutta 1.
 Hindusthan Plumbers & Traders Ltd.—24, Strand Road, Calcutta 1.
 Voltas Limited—8, Netaji Subhas Road, Calcutta.

REFRACTORY MATERIAL MANUFACTURERS

Associated Mining Industries Ltd.—4, Lyons Range, Calcutta 1.
 Balsukh Ceramics Ltd.—7, Swallow Lane, Calcutta 1.
 Burn & Co. Ltd.—12, Minton Row, Calcutta 1.
 Hindusthan Potteries.—12, Shib Kristo Daw Lane, Calcutta 7.
UNITED PROVINCES COMMERCIAL CORPORATION, THE.
 —8, Ganesh Chandra Avenue, Calcutta 13. Managing Agents for Assam Silimanite Ltd., The best natural Refractory from the Khari and the Jayantia Hills of Assam.

RICE MILLS

Mahabir Rice Mill.—New Basti, P. O. Tollygunge, Calcutta.
 Usha Rice Mill Co.—32, Tollygunge Circular Road, Tollygunge, Calcutta.
 Victoria Rice Mills Co.—100, Rajendra Deb Road, Calcutta 7.

ROAD MAKING MACHINERY

UNITED PROVINCES COMMERCIAL CORPORATION, THE.
 —8, Ganesh Chandra Avenue, Calcutta 13; Moore Road Rollers, Moore Maintenance, Graders, Heavy Duty Graders, etc.

ROLLING MILLS

Bengal Rolling Mills Ltd.—86B, Netaji Subhas Road, Calcutta 1.
 Bhartiya Electric Steel Co. Ltd.—42, Shibtoila Street, Calcutta 7.
 Chaitanya Rolling Mills.—P-21, Golf Club Road, Tollygunge, Calcutta 22.
 Hindusthan Iron & Steel Co.—8, Mukhtaram Road, Calcutta 7.
 India Rolling Mills Ltd.—Stephen House, 4, Dalhousie Square East, Calcutta 1.

ROPERIES

Anadi Nath Manna.—62, Netaji Subhas Road, 2nd Floor, Calcutta 1.
 Bengal Mercantile Co.—7, Swallow Lane, Calcutta 1.
 Bengal Rope Mfg. Co.—63A, Radha Bazar Street, Calcutta 1.
 Calcutta Rope Manufacturing Co. Ltd.—22, Raja Woodmunt Street, Calcutta 1.
 Chatra Cottage Industrial Works Ltd.—12, Umakanto Sen Lane, Cossipore, Calcutta 2.

RUBBER GOODS MANUFACTURERS

Assam Bengal Rubber Works Ltd.—11, New Tangra Road, Calcutta 12.
 Central Rubber Works Ltd.—20B, Tangra Road, Calcutta 12.
 Dunlop Rubber Co. (India) Ltd.—“Dunlop House”, 57B, Free School Street, Calcutta 12.
 East India Rubber Works Ltd.—151, Chittaranjan Avenue, Calcutta 7.
 Goodyear Tyre & Rubber Co. of India Ltd.—60, Chowringhee, Calcutta 20.

SAW MILLS & TIMBER MERCHANTS

Bengal Saw Mill & Plywood Co.—2A, Dr. Jagabandhu Lane, Bowbazar, Calcutta 12.
 Bhagwandas Bagla Bai Bahadur.—67-22, Strand Road, Calcutta 7.
 Commercial Timbers.—44-60, Canning Street, Calcutta 1.
 Dear, H. & Co. Ltd.—Clive Buildings, Netaji Subhas Road, Calcutta 1.
 East India Timber Co.—9, Netaji Subhas Road, Calcutta 1.

SCIENTIFIC AND SURGICAL APPARATUS AND INSTRUMENTS MANUFACTURERS

Alcock, W. J., & Co.—7, Hastings Street, Calcutta 1.
 Allied Glass Industries.—23, Fakir Chakrabarty Lane, Calcutta 6.
 Artico.—5, Dalhousie Square East, Calcutta 1.
 Ashby & Co.—22, Strand Road, Calcutta 1.
 Beesmill & Co. (India) Ltd.—54D, Beadon Street, Calcutta 6.
 Gokhandas Desai & Co.—P-7, Minton Row Extension, Calcutta 1.
 Phone: F.K.2012. Grams: “MICROSCOPY”.
 Scientific Glass Apparatus Co.—5-A, Proconokumar Tagore Street, Calcutta 6. Makers of Scientific and Medical Apparatus.

SEWING MACHINE MANUFACTURERS

Hind Sewing Machines Ltd.—14, Shroar Lane, Calcutta 7.
 Joy Engineering Works Ltd.—183A, Prince Anwar Shah Road, Calcutta 21.
 Mullik, K. O. & Sons Ltd.—77-12, Dharamtala Street, Calcutta 12.
 Tara Sewing Machine Manufacturing Co. Ltd.—21, Halderpara Lane, Howrah.

SHIPBUILDERS AND REPAIRERS

East Bengal Engineering Works.—2, Rustomjee Paroo Road, Cossipore, Calcutta 2.
 Herman, B. B., & Mohatta (India) Ltd.—19, British Indian Street, Calcutta 1.
 I. G. N. & Ely. Co.'s Dockyard.—44, Garden Reach, Calcutta 24.
 Shalimar Works.—6, Lyons Range, Calcutta 1.

SILICATE OF SODA MANUFACTURERS

Calcutta Mineral Supply Co. Ltd.—21, Jackson Lane, Calcutta 1.
 Raj Silicate & Chemical Co. Ltd.—26, Burtolla Street, Calcutta 7.
 Shewbuxrai Ramachari.—26, Burtolla Street, Calcutta 7.

SILK FILATURES AND MILLS

Aryan Silk & Cotton Mills Ltd.—12, Chowringhee Square, Calcutta 1.
 Bengal Silk Mills Co. Ltd.—3, Amratolla Lane, Calcutta 1.
 Calcutta Silk Manufacturing Co. Ltd.—37, Vivekananda Road, Calcutta 7.
 Calcutta Silk Mills.—5, Narain Babu Lane, Calcutta 7.
 India Silk & Textiles Ltd.—3 & 4, Hare Street, Calcutta 1.

SMALL TOOLS

Asiatic Manufacturing Co.—24A, Netaji Subhas Road, Calcutta 1.
 Basmall & Co. (India) Ltd.—54D, Beadon Street, Calcutta 6.
 Bengal Iron & Steel Works.—3, Canning Street, Calcutta 1.
 Buler & Co.—6 & 7, Netaji Subhas Road, Calcutta 1.
 Diamond Metal Products Co.—22, Raja Woodmunt Street, Calcutta 1.

SOAP FACTORIES

Bagmari Soap Factory.—27, Bagmari Lane, Calcutta 11.
 Banga Luxmi Soap Works Ltd.—11, Olive Row, Calcutta 1.
 Behar & Orissa Soap Factory.—22, Raja Brojendra Street, Calcutta 7.
 Bengal Soap Factory Ltd.—No. 11, Palkpara Road, P. O. Cossipore, Calcutta 2.
 Chemical House (India) Ltd.—P. O. Dhakuraj, Calcutta.
 Godrej. Godrej Soaps Private Ltd.—23-A, Netaji Subhas Road, Calcutta.

SPRAYERS & DUSTERS

UNITED PROVINCES COMMERCIAL CORPORATION, THE.
 —8, Ganesh Chandra Avenue, Calcutta 13. Hand & Power Driven and Tractor Mounted types.

SPRING MANUFACTURERS

Coventry Spring & Engineering Co. Ltd.—67B, Netaji Subhas Road (Room No. 64), Calcutta 1.
 “A. C. A.” Spring Mfg. Co.—34, Dr. Jagabondhu Lane, Calcutta 12.
 All India Spring Manufacturing Co. (Regd. Original Firm).—125, Netaji Subhas Road, Calcutta 1.
 All India Spring Mfg. Co.—22, Strand Road, Calcutta 1.
 Army Engineering Corporation.—42, Strand Road, Calcutta 7.
 British India Spring & Steel Co.—67B, Netaji Subhas Road, Calcutta 1.

STEEL FURNITURE MANUFACTURERS

Aome Manufacturing Co.—9-1, Esplanade, East, Calcutta 1.
 Bengal Iron Safe & Lock Works.—120, Sovabazar Street, Calcutta 6.
 Bombay Safe & Steel Works.—29, Netaji Subhas Road, Calcutta 1.
 Bungo Steel Furniture Ltd.—27, Diamond Harbour Road, Kidderpore, Calcutta 22.
 East India Steel Works Ltd.—24, Netaji Subhas Road, Calcutta 1.

SUGAR MERCHANTS

A. H. Bhiwandiwala & Co. (Bombay) Private Ltd.—2, Doyabatta Street, Calcutta.
 A. E. Noormohammed & Co.—59, Canning Street, Calcutta.
 A. B. Osman & Co. (India) Private Ltd.—2, Rajmohan Street, Calcutta.
 Ashok Chandra Rakshit Private Ltd.—26, Cotton Street, Calcutta.
 Ashoka Marketing Ltd.—11, Olive Row, Calcutta.
 B. L. Dey G. B. Nandy Private Ltd.—C/2, Jagernathghat Road, Calcutta.
 Baid Bros. Private Ltd.—144, Cotton Street, Calcutta.
 Banarailal Mannalal.—Post Assent, B. Railway.
 Baysawalla Bros. Private Ltd.—9, Ramkumar Rakshit Lane, Calcutta.
 Bishwanath Sreenany, Haripada Sreenany.—1, Meerbahar Ghat Street, Calcutta.

Chhannam Motilal.—7, Narain Babu Lane, Calcutta.
 G. C. E. C. Taluqder & Co.—89, Burtolla Street, Calcutta.
 G. N. K. C. Nandy.—P66/8, Strand Bank Road, Calcutta.
 Hind Sugar Co. Ltd.—9, Ramkumar Rakshit Lane, Calcutta.
 Hindusthan Dealers Ltd.—1, Doyehatta Street, Calcutta.
 Hiralal Ramkumar.—196/1/1, Harrison Road, Calcutta.
 Howrah Trading Co. Ltd.—8, Dalhousie Square (East), Calcutta.
 J. N. Bhattacharji.—8, Ramkumar Rakshit Lane, Calcutta.
 Jalhind Investment Ltd.—9, Jagmohan Mullick Lane, Calcutta.
 Jaluram Kundanmal.—9, Jagmohan Mullick Lane, Calcutta.
 K. N. Bhattacharji & Co., (Industry) Private Ltd.—2/2, Orphananj Govt. (India) Market, Kidderpore, Calcutta.
 Karamchand Thapar & Bros. Ltd.—5, Royal Exchange Place, Calcutta.
 Kartic Chandra Das.—P66/4, Strand Bank Road, Calcutta.
 Matadin Khaitan & Co. Ltd.—9, Ramkumar Rakshit Lane, Calcutta.
 Nafar Dulal Sreemany.—9, Ramkumar Rakshit Lane, Calcutta.
 Panohanan Ash & Co.—8/B, Ramkumar Rakshit Lane, Calcutta.
 Prabhat Dealers Ltd.—4, Ramkumar Rakshit Lane, Calcutta.
 Produce Exchange Corporation Ltd.—5, Royal Exchange Place, Calcutta.
 Raicharan Chell & Co.—152, Cotton Street, Calcutta.
 Rajendra Company.—9, Ramkumar Rakshit Lane, Calcutta.
 Ramnivas Marwari.—25, Orphananj Road, Kidderpore, Calcutta.
 Rashbehari Sreemany & Co.—4/1, Grand Trunk Road, Howrah.
 S. O. P. B. Tapadar.—89, Burtolla Street, Calcutta.
 Sadhan Chandra Sreemany Private Ltd.—8, Ramkumar Rakshit Lane, Calcutta.
 Santosh Sugar Private Ltd.—5/1, Ramkumar Rakshit Lane, Calcutta.
 Shewbux Satnarain.—30/31, Kalakar Street, Calcutta.
 Shree Narayan Sugar Co.—2, Doyehatta Street, Calcutta.
 Shree Shree Lakshminarayan Bhandar.—4/5, Orphananj Market, Kidderpore, Calcutta.
 Shrinath Prasad Purohottomal.—5, Ramkumar Rakshit Lane, Calcutta.
 Sreeram Satnarain.—74, Cross Street, Calcutta.
 Sugar Agents Ltd.—7, Ramkumar Rakshit Lane, Calcutta.
 Sugar Traders.—4, Ramkumar Rakshit Lane, Calcutta.
 Surajnarain Gopaldas.—9, Jagmohan Mullick Lane, Calcutta.
 Surendralal Paul & Sons.—74A, Nalini Seti Road, Calcutta.
 Swadeshi Sugar Suppliers Private Ltd.—4, Ramkumar Rakshit Lane, Calcutta.

TANNERIES AND LEATHER GOODS MANUFACTORIES

Basak, P. & Co.—9, Chhidam Mody Lane, Calcutta 6.
 Basak Sett & Co.—P18, Durga Charan Mitter Street, Calcutta 6.
 Beta Shoe Co. Ltd.—30, Theatre Road, Calcutta 16.
 Brand, S. B. & Co.—80, Pathuralghat Street, Calcutta 6.
 Calcutta Tanneries (1944) Ltd.—14, Netaji Subhas Road, Calcutta 1.

TAR PRODUCTS MANUFACTURERS

Mumtas, H. & Co.—1, Colocotola Street, Calcutta 1.
 Shalimar Tar Products (1935) Ltd.—8, Lyons Range, Calcutta 1.

TEA BROKERS & MERCHANTS

FIGGIS, A. W. & CO., PRIVATE LTD.—D-6, Gillander House, Calcutta 1, Tea Brokers; Chairman: R. J. S. Franks; Mgr. Directors: N. P. Roy, D. K. Banerji, J. W. Bryans, F. R. J. Barker; Directors: S. P. Roy and Sitaram Daga; Assistants: B. K. Daga, D. P. Roy, J. K. Barooah, S. S. Khaitan and P. St. J. Barry (Sign Per Fro); Correspondents: Ewart Maccaughy & Co., Ltd., London; Gow Wilson & Stanton Ltd., London; Forbes & Walker Ltd., Colombo; Forbes, Ewart & Figgis Private Ltd., Ceylon; Cede; Bentley's and Phrasce; Grams: "FIMARO" and "FILBERTJEN"; Phone: 22-1306 (5 lines); P.O. Box No. 225.

TEXTILE MERCHANTS

Ahmedabad Mill Stores.—199/6 & 7, Mahatma Gandhi Road, Calcutta.
 Ajitbhai Chundilal & Co.—38, Armenian Street, Calcutta.
 Akhoy Chand Labh Chaud.—72, Jumnalal Bajaj Street, Calcutta.
 Asharam Ramprasad.—14, Pageyapatti Street, Calcutta.
 B. C. Sureka.—201, Mahatma Gandhi Road, Calcutta.
 Banahidhar Jainarain.—15, Pageyapatti Street, Calcutta.
 Banahidhar Satyanarayan.—32, Pageyapatti Street, Calcutta.
 Basdeo Anandilal.—112-A, Manohardas Katra, Calcutta.
 Bengal Cloth Stores.—P-31-A, Kalakar Street, Calcutta.
 Bhalrudan Purohit.—14, Noormal Lohia Lane, Calcutta.
 Bhikhan Chand Rampuria.—112-B, Manohardas Katra, Calcutta.
 Bijoykumar Ajoykumar.—201, Mahatma Gandhi Road, Calcutta.
 Bishwanath Agarwala.—113, Manohardas Katra, Calcutta.
 Brijchand Hiralal.—13, Pageyapatti Street, Calcutta.
 Brijraj Kedarass.—112-B, Manohardas Katra, Calcutta.
 Calcutta Textile Co.—112, Manohardas Katra, Calcutta.
 Chandratan Surajratan.—113, Manohardas Katra, Calcutta.
 Chinubhai Champilal.—36, Jumnalal Bajaj Street, Calcutta.
 Chinubhai Chundilal.—37/38, Armenian Street, Calcutta.

Chiranjil Lal Kandol.—17, Pageyapatti Street, Calcutta.
 Cotton Mills Agency.—13, Pageyapatti Street, Calcutta.
 Durga Prasad & Co.—205, Jumnalal Bajaj Street, Calcutta.
 Dwarkadas & Co.—112, Manohardas Katra, Calcutta.
 Fakirchand Nandy, Jitendra Nath Nandy.—Calcutta.
 Ganeshdas Narayandas.—55, Jumnalal Bajaj Street, Calcutta.
 Gangabisa Banisil.—16, Pageyapatti Street, Calcutta.
 Gangaprasad Shivaprasad.—203, Mahatma Gandhi Road, Calcutta.
 Giridharilal Hulaschand.—113, Manohardas Katra, Calcutta.
 Hazarimal Baijnath.—112, Manohardas Katra, Calcutta.
 Jagannath Jotmal.—37, Armenian Street, Calcutta.
 Jain Cloth Co.—74, Jumnalal Bajaj Street, Calcutta.
 Jethmal Punachand.—46, Jumnalal Bajaj Street, Calcutta.
 Jivraj Heeralal & Co.—26/1, Armenian Street, Calcutta.
 Joharmal Pugalil.—112-B, Manohardas Katra, Calcutta.
 Kanhaiyalal Daga.—16, Pageyapatti Street, Calcutta.
 Kanhaiyalal Phumaram.—203, Mahatma Gandhi Road, Calcutta.
 Kanailal Ramkumar.—178, Mahatma Gandhi Road, Calcutta.
 Kedarnath Brijmohan.—198, Jumnalal Bajaj Street, Calcutta.
 Kedarnath Radhakishan.—113, Manohardas Katra, Calcutta.
 Khetidas Ramjidas.—178, Mahatma Gandhi Road, Calcutta.
 Khoomchand Chundilal.—2, Raja Woodmunt Street, Calcutta.
 Lakhi Prasad Hariak.—59, Jumnalal Bajaj Street, Calcutta.
 Lodha Brothers.—16, Pageyapatti Street, Calcutta.
 Madanlal Jhumhunjwala.—201, Mahatma Gandhi Road, Calcutta.
 Maganlal Danial.—112, Manohardas Katra, Calcutta.
 Maganlal Popatlal.—59, Jumnalal Bajaj Street, Calcutta.
 Manekchand Javerchand.—38, Armenian Street, Calcutta.
 Mangalal Ramprasad.—201, Mahatma Gandhi Road, Calcutta.
 Mangalchand Mohanlal.—13, Pageyapatti Street, Calcutta.
 Mangilal Shah.—201, Mahatma Gandhi Road, Calcutta.
 Meghraj Narsinghdass.—7, Pageyapatti Street, Calcutta.
 Mohanlal Bhanlal.—201, Mahatma Gandhi Road, Calcutta.
 Moolchand Mohanlal.—112, Manohardas Katra, Calcutta.
 Motilal Mathuradas.—13, Pageyapatti Street, Calcutta.
 Motiram Tulisram.—201, Mahatma Gandhi Road, Calcutta.
 Mukund Hosliery.—49, Burtolla Street, Calcutta.
 Multanand Harikishan.—13, Pageyapatti Street, Calcutta.
 Murlidhar Srikishan.—201, Mahatma Gandhi Road, Calcutta.
 Natthal Ratankumar.—201, Mahatma Gandhi Road, Calcutta.
 Oriental Yarns Co. Ltd.—178, Mahatma Gandhi Road, Calcutta.
 Prabha Stores.—17, Pageyapatti Street, Calcutta.
 Pratapchand Kothari.—112, Manohardas Katra, Calcutta.
 Premratan Shivkumar.—P-6, Pageyapatti Street, Calcutta.
 Purnachand Ramchand.—16, Pageyapatti Street, Calcutta.
 Purnhottamdas Badridas.—16, Pageyapatti Street, Calcutta.
 Radharani Stores.—201-B, Mahatma Gandhi Road, Calcutta.
 Ram Gobind Krishna Dutt.—160, Mahatma Gandhi Road, Calcutta.
 Ramdeo Madanlal.—17, Pageyapatti Street, Calcutta.
 Ramprasad Gangaprasad.—112, Manohardas Katra, Calcutta.
 Ratilal Kaji & Co.—89, Jumnalal Bajaj Street, Calcutta.
 S. Chatterjee & Co.—37, Armenian Street, Calcutta.
 Samwamal Shivprasad.—19, Noormal Lohia Lane, Calcutta.
 Santokchand Sohanlal.—46, Jumnalal Bajaj Street, Calcutta.
 Satyanarain Sewratan.—16, Pageyapatti Street, Calcutta.
 Satyanarayan Hanumanprasad & Co.—160, Jumnalal Bajaj Street, Calcutta.

Sawalram Ratanal.—201, Mahatma Gandhi Road, Calcutta.
 Shree Kishandas Sitaram.—72, Manohardas Street, Calcutta.
 Subhakaran Koshardeo.—17, Noormal Lohia Lane, Calcutta.
 Sudarshan & Co.—14, Noormal Lohia Lane, Calcutta.
 Surajmal Purnhottamdas.—112, Jumnalal Bajaj Street, Calcutta.
 Surendra Nath Dutt & Co. Ltd.—112, Manohardas Katra, Calcutta.
 Uma Textiles.—112, Manohardas Katra, Calcutta.

TIN BOX MANUFACTURERS

THE METAL BOX COMPANY OF INDIA LIMITED.—Head Office: Barlow House, 59C, Chowringhee Road, Calcutta 20. Sales Office and Calcutta No. 1 Factory at P48, Hide Road Extension, Calcutta No. 2 Factory at 22, Hide Road, Kidderpore. Technical Development Section and Research Division at 22, Allpore Road. Branches: Factory and Sales Office at 240, World Road, Bombay 12, Post Box No. 544, Bombay 1. Factory and Sales Office at Kirtiya Madali Street, Tendiarpet, Madras 21. Factory at Jeppu, Mangalore. Sales Office at Hamilton House, Connaught Place, New Delhi. Factory at Manikala Bagh, Azadpur, Delhi. Specialists in tin printing and the production of Open Top cans for processed food-stuffs; Plain and lithographed General Line template containers; Composites; Collapsible and Rigid Tubes; Crown Caps, Screw Caps, R. S. Filter-proof and other Closures; Industrial Components, particularly deep stampings; Plain and printed bags from Diathene, other heat-sealing films and laminates; Calendars, Advertising Showcards and Novelties; Trays, Insecticide sprayers and other Hardware; Toys and Components for Toys. Manufacturers of Can and Bottle Closing Equipment. Suppliers of Can Reforming and Can and Bottle Closing Equipment manufactured by The Metal Box Company Limited, and Bottling Equipment manufactured by Meyer Liquid Limited.

TIN CANISTER MANUFACTURERS AND TIN PRINTERS

Associated Metal Industries of India Ltd.—16, Mango Lane, Calcutta 1.
Bengal Tin Box Mfg. Co. Ltd.—1, Jadunath Mitter Lane, Calcutta 4.
Calcutta Tin Factory.—14-2, Hirode Behary Mallick Road, Calcutta 6.
Dhar Tin Factory.—101, Ashby Mukherjee Road, P. O. Barnagore, Calcutta.
Ganga Tin Factory.—5, Raja Rajkissen Street, Calcutta 6.

TOBACCO DEALERS & MANUFACTURERS

Abinash Chunder Dutt & Co.—39, Nimtolla Ghat Street, Calcutta 6.
Bengal Tobacco Manufactory.—282, Upper Chitpore Road, Calcutta 5.
D. Macropolo & Co. Ltd.—11, Old Court House Street, Calcutta 1.
Phone: 22-3103.
National Tobacco Co. of India Ltd.—Norton Buildings, 1 & 2, Old Court House Corner, Calcutta 1.

TOY MANUFACTURERS & DEALERS

Bengal Toy Industries.—22, Canning Street, Calcutta 1.
Deyoo Products Ltd.—P81, Mission Row Extension, Calcutta 1.
Dey, G. C., & Co.—4, Raja Radha Kanta Deb Lane, Calcutta 6.
Ideal Toys & Aircraft Co.—54A, Falkpara Row, Calcutta 37.
INDIA'S HOBBY CENTRE.—1-2, Russel Street, Calcutta 16.
The Largest and Finest Toy Shop. Dealers in Model Aircraft and Boats; Mechanical Toys, Educational Toys, Tropical Fish, Aquaria and Accessories, Birds, etc.

TRACTORS

Marshall, Sons & Co. (India) Ltd.—33/1, Netaji Subhas Road (P.O. Box No. 22), Calcutta. Phone: 22-4844 (3 lines). Grams: "ENGINE."

UNITED PROVINCES COMMERCIAL CORPORATION, THE.—8, Ganesh Chandra Avenue, Calcutta 13. Assemblers & Sole Distributors of Fordson Major Tractors, Implements and Spare Parts in India.

TRAVEL AGENTS

Indian Air Travels Ltd.—6/3, Madan Street, Calcutta 13.
Jena & Co.—Great Eastern Hotel, 29, Waterloo Street, Calcutta 1.
ORIENT EXPRESS CO. PRIVATE LTD., THE.—Norton Buildings, 1 & 2 Old Court House Corner, Calcutta 1. Phones: 22-1911 & 22-1388. Grams: "OREXPRESO".

VEGETABLE PRODUCTS MANUFACTURERS

Hindusthan Development Corporation Ltd.—4, Chittaranjan Avenue, Calcutta 13.
Hindusthan Vegetable Products Ltd.—47, Zakariah Street, Calcutta 7.
Kusum Products Ltd.—23/24, Radha Bazar Street, Calcutta 1.
Sisir Oil Industries Ltd.—242-2, Upper Circular Road, Calcutta 4.
Snow White Food Product Co. Ltd.—18, Netaji Subhas Road, Calcutta 1.

VICE MANUFACTURERS

India Machinery Co. Ltd.—29, Strand Road, Calcutta 1.
Indian Supercraft Industries.—21A, Canning Street, Calcutta 1.
International Mechanical & Electrical Works.—5, Braunfield Row, Alipore, Calcutta 27.
Lealie, W., & Co.—B3, Clive Buildings, Netaji Subhas Road, Calcutta 1.

WATERPROOFING AND DYEING WORKS

Bengal Fast Colour Dye Works.—59, Cross Street, Barabazar, Calcutta 7.
Bengal Waterproof Works (1940) Ltd.—32, Theatre Road, Calcutta 16.
Hindusthan Rubber Works Ltd.—242-1, Kaaba Road, Calcutta 31.
India Waterproofing & Dyeing Works.—60-2, Dharamtala Street, Calcutta 15.
Ras Behary Dey & Sons.—82, Old China Bazar Street, Calcutta 1.

WEIGHING MACHINE, WEIGHT AND SCALE MANUFACTURERS

Avery Co. Ltd.—"Avery House," Waterloo Street, Calcutta 1.
Barnagore Scale Manufacturing Co.—21, Bhola Nath Street, Barnagore, Calcutta 36.
Bhupendranath Das Brothers.—84A, Netaji Subhas Road, Calcutta 1.

Dhara, M. C., Engineering Works.—38, Kamarpara Lane, Barnagore, Calcutta 36.
Girish Chandra Ghosh (Estd. 1874).—58, Netaji Subhas Road, Barabazar, Calcutta 7.

WELDING SETS

Associated Electrical Industries (India) Private Ltd.—Crown House, 6, Mission Row, Calcutta 1.

VISHWA BHARATI TRADING CO.—G.P.O. Box 2828, 94/1, Canning Street, Calcutta 1. E.O., 14, Kumpta Street, P.E. 1082, Ballard Estate, Bombay 1. Phone: 254888. Grams: "VISHACO." Manufacturers and Stockists of Electric & Gas Welding Sets, Welding Accessories, Electrodes and Gas Welding Rods, Fluxes, Welding Transformers, Spot Welders, Soldering & Braising Equipments and all metal Mender's Requirements, Industrial Safety Equipment, Industrial goggles and gloves & Respirators, etc.

WINE & SPIRIT MERCHANTS

Empire Stores, The.—60/C, Chowringhee Road, Calcutta.
Esplanade Wine Stores.—7, Esplanade East, Calcutta. Phone: 23/1629.
Republic Stores.—13-B, Chittaranjan Avenue, Calcutta 13.

WIRE PRODUCTS MANUFACTURERS & DEALERS

PERFORATED METALS
To meet every requirement from the screening of coal, coke and ore to shifting and separating of food products and Fine Chemicals.

WOVEN WIRE
In any Gauge, Mesh or Metal for all Screening, Grading or Filtering requirements.

STANDARD METAL Company
SAVING AND MILL STORES

Props.: B. C. Guin & Co., Private Ltd.
101, Netaji Subhas Road, Calcutta 1.

WOODWORKING MACHINES

Jayems Engineering Co.—22, Brabourne Road, Calcutta. Phone: 6711.
Marshall, Sons & Co. (India) Ltd.—33/1, Netaji Subhas Road (P.O. Box No. 22), Calcutta. Phone: 22-4844 (3 lines). Grams: "ENGINE."

PONDICHERRY STATE

Area: 186 sq. miles; Pop.: 317,253 (1948).
Capital: Pondicherry.

Chief Commissioner: L. R. S. Singh.

The State of Pondicherry consists of:

(1) On the Coromandel Coast: (a) Pondicherry, the capital, together with the adjoining territory, divided into 8 communes, (b) Karikal and the dependent districts divided into 6 communes;

(2) On the coast of Andhra: Yanam, with the dependent villages all forming one commune;

(3) On the Malabar Coast: Mahé with the adjoining territory forming a single commune.

De facto transfer of these former French possessions to India took place on November 1, 1954 following an agreement between the Government of India and the Government of France. The instrument of transfer was signed in Pondicherry on November 1, 1954 by Mr. Kewal Singh on behalf of India and Mr. Pierre Landy representing France.

A treaty for the *de jure* transfer to India of the French establishments was signed on 28th May, 1956 by Mr. Nehru, as Minister for External Affairs and the French Ambassador in India Count Ostrorog. The treaty is awaiting ratification by the French Assembly.

The first general elections after the *de facto* transfer were held in July 1955 on a basis of universal adult franchise for the 80 seats in the State Representative Assembly and 200 in the 16 Municipal Councils. On an average, more than 85 per cent of the voters voted.

The Municipal Administration in the State is carried on by the Municipal Councils, one in each of the sixteen communes.

The State is directly administered by the Government of India on the pattern of a Union Territory, through a Chief Commissioner appointed by them and an advisory body called "the Conseil du Gouvernement" consisting of six elected Councillors. The Chief Commissioner is assisted in the day-to-day administration of the State by a Chief Secretary, five Secretaries and the Inspector-General of Police.

Chandernagore in West Bengal was the first French India possession to become *de jure* a part of the Indian Union after the treaty for its cession was signed in Paris in 1951 by the representatives of the two Governments. The Treaty was ratified by the French Assembly on April 11, 1952.

ECONOMY

Main Food Crops: Paddy, Ragi, Cumbu, Varagu, Thennai.

Main Cash Crops: Groundnut, Coconut, Gingelly, Chillies, Cotton, Tobacco and Pepper.

Total production of Food Crops (annual average): 32,000 Tons.

Production of individual food crops in tons (annual average): Paddy 28,571; Ragi 2,277; Cumbu 893; Varagu 357; Thennai 357.

Production of individual cash crops in tons (annual average): Groundnut 4,018, Gingelly 268.

	Acres
Total area of State	119,040
Total area (net) cultivated	79,820
Total area of wet land	53,440
Total area under Food Crops	90,619
Total area under Cash Crops	16,003
Area under Forest	998
Net area irrigated	58,542

(By tanks and channels—15,103 acres, by Cauvery irrigation system—25,118 acres, rest—18,321).

Main large scale industries of State with location in brackets:

Anglo-French Textiles Ltd. (Pondicherry Town); Swadeshi Cotton Mills Ltd. (Pondicherry Town); Sri Barathi Mills S. A. (Pondicherry Town).

The cotton mills had about 2,149 looms and 76,264 spindles on 1st January 1956.

Main cottage industries and their annual production valued in Rs.:

Foundries (12,000), oil presses (80,000), toy making (5,000), Soap making (12,000), hand-made matches (3,00,000), aerated waters (7,00,000), oil mills (10,00,000), biscuit (3,00,000), hand looms (20,000), cashew (5,000).

Total number of workers in cottage industries: about 1,000.

Minimum wages are not fixed in any industry.

The average monthly earnings will be about Rs. 70.

About 200 houses have been built under the Industrial Housing Scheme.

The Central Government sanctioned an estimate of Rs. 5.4 lakhs for the construction of a Housing Colony: 200 houses have been constructed. The cost of each tenement comes to about Rs. 2,365. The Central Government have agreed to let the houses to the workers at a concessional rent of Rs. 7-8-0 per month per house.

An Industrial Housing (Allotment) Committee has been formed for the allotment of houses.

Total capacity of power plant installed in State: 4,900 kW.

Total effective capacity: 3,700 kW.

About 2,500 kW of power is also purchased from the Mettur System of the Madras State.

During 1957-58 electricity generated and purchased was 119.56 lakhs of K.W.H.

Total road mileage: 292

Mileage of metalled roads: 167.5

Mileage of unmetalled roads: 124.5

Total mileage of railway: 22.

There are no waterways or aerodromes in the State

The original outlay under the Second Five-Year Plan of Pondicherry was Rs. 476.5 lakhs. Of this amount, social services accounted for 45.4 per cent, irrigation and power 17.3 per cent, transport 14.5 per cent, agriculture and allied subjects 14.1 per cent, and village and small industries 4.2 per cent and miscellaneous 4.5 per cent. The proposals for the 1958-59 plan amounted to Rs. 100.50 lakhs.

EDUCATION

Total number of Primary Schools: 259 (34 for girls), Total number of teachers: 802, Enrolment: Boys 16,801; Girls 9,691.

Total number of Secondary Schools: 29 (8 for girls); Total number of Teachers: 216, Enrolment: Boys 3,381; Girls 984.

There are 16 Secondary Schools with primary classes (10 for boys and 6 for girls) and four without primary classes. Besides, there are two colleges with primary classes.

Number of Arts & Science Colleges: 2 (Number of students 1,506 (81 girls)—Professors 53. Professional Colleges: One Law School and one Medical College.

In the Law School there are six students (boys only). In the Medical College there are 93 boys and 22 girls.

There is also a School of Arts and Crafts with 151 boys.

Number of Teachers' Training Centres: one (for men & women); Number of Trainees: 80.

Apart from the activities of the Social Education Organisers and the Social Workers who work respectively under the Block Development Officer and the State Social Welfare Board no Social Education as such has been introduced in this State specially in Government Schools.

Education (elementary and secondary) is free in the following schools: French, English and Regional language Primary Schools; French and Regional Language Secondary Schools.

Compulsory Education has not been introduced in this State.

Position in relation to co-operation as on 31st June 1958:

Total number of Co-operative Societies	72
Total membership	13,820
Total Working Capital	Rs. 19,58,899

PONDICHERRY

Area: 112 sq. miles (Survey of India); Population: 222,566 (1948).

Pondicherry is the chief of the former French settlements in India and its capital is the seat of the Government. The town is an enclave in the district of South Arcot in Madras State, about 89 miles from Madras.

There is no harbour, but only a roadstead which is the best on the entire coast. Ships lie at a distance from the shore and contact with land is maintained by means of the usual *masula* boats peculiar to this part of South India.

Since November 1, 1954 sea customs have been introduced in Pondicherry and a new department has been created under a Collector of Customs.

KARIKAL

Area: 62 sq. miles (Survey of India); Population: 70,541 (1948).

Karikal is an enclave in the Tanjore District, and consists of a single tract of territory stretching along the east coast between Tranquebar and Nagore. It is at a distance of 90 miles from Pondicherry. It covers an area of 62 sq. miles and is divided into 6 communes containing 110 villages. The establishment has a population of 70,541, according to the 1948 census. Karikal is the terminus of a line from Feralam on the Tanjore District Railway.

YANAM

Area: 8 sq. miles (Survey of India); Population: 5,853 (1948).

The town is situated in the delta of the Godavari covering an area of 8 square miles and is an enclave of the District of East Godavari in Andhra State. The soil is fertile.

MAHÉ

Area: 4 Sq. miles (Survey of India); Population: 18,293 (1948).

The territory of Mahé on the west coast consists of the town of Mahé on the left bank of the river of the same name; and the isolated district of Naluthara on the right bank containing the 4 villages of Chamba, Chalakara, Palour and Pancheruel. It is an enclave in the District of Cannanore in Kerala State.

Pepper, coconuts and betelnuts are the major crops.

INDIAN TERRITORY UNDER PORTUGUESE OCCUPATION

Area: 1,497 sq. miles; Pop.: 697,501 (1950 Census); Capital: Cidade de Goa (Panjim).

The Hindu population is estimated at 588,488 and the Christian at 234,275. There are 14,162 Muslims and 1,079 Europeans and Eurasians.

ADMINISTRATIVE OFFICIALS

Governor-General, Brigadier Vasallo e Silva, who is also Commander-in-Chief.

Military Commander, Brigadier Cirne Pacheco.

Elected Members of the Governor's Council (Conselho do Governo), Miss Georgina Figueiredo, Bonifacio Miranda, Amadeu Prazeres da Costa, Priscilio Furtado, Rev. Father Castilho Noronha and P. Quenin.

The last two have been appointed Deputies in the Portuguese National Assembly of Lisbon. They represent Portuguese India.

Governor of Diu, Capt. Dalgado e Silva.

H. E. the Patriarch of East Indies, D. Jose Alvernan.

Indian territory under Portuguese rule is made up of: Goa, Daman, Diu.

All the three territories are situated practically within the area covered by Bombay State. Goa is on the Konkan Coast; Daman, lies on the Gujarat coast at the entrance to the Gulf of Cambay; and Diu is a tiny islet and along with the isolated spots, Gogola and Simbor lies on the southern fringe of the Kathiawad peninsula.

The enclaves of Dadra and Nagar Haveli, which formed part of Daman, have been taken over by Goan nationalists who have set up their own administration.

Dr Antonio Furtado is the Administrator of these areas.

GOVERNMENT

The Governor-General is the head of the administration and is stationed in the capital (Cidade de Goa formerly known as Nova-Goa and also Panjim).

Associated in the task of government is the Conselho do Governo possessing restricted legislative and advisory powers. The Governor-General is its ex-officio president.

Daman and Diu have each a District Governor.

In each district there is a District Council for the supervision of the various municipalities and other local bodies in its jurisdiction. For administrative purposes the district is divided into *Concelhos*, each *Concelho* being in the charge of an official styled the *Administrador*, and for judicial purposes it is divided into *circuits* or *Omarcos* each having its own court of original jurisdiction.

An appeal lies from the decisions of these courts to the *Tribunal do Relacao* or High Court sitting in the capital and side by side with the latter there is also a *Tribunal Administrativo* to dispense justice under *direct administration*.

The advent of Dr. Oliveira Salazar to power and the establishment of his *Estado Novo* led to increasing centralisation in the administra-

tion of Portuguese India. All measures of importance are now initiated by and carry the sanction of the home government in Lisbon. The Governor's Council, *Conselho do Governo* which assists him, is shorn of what little legislative powers it formerly possessed. There are no elected municipalities and local boards in the villages. Each municipality is in charge of an administrative committee nominated by the Governor-General, who also appoints the presidents of all charitable and cultural associations in the country.

A stringent censorship controls the freedom of the press, and every article, book or pamphlet has to be submitted to the board of censors before it appears in print. Infringements of the press laws are severely dealt with and newspapers are required to keep security deposits with the Government before being licensed for publication.

Freedom of association is likewise controlled. No public meeting or assembly, be its purpose ever so innocuous, may be convened without previous permission of the authorities, and every intended talk and speech must bear the censor's visa.

COMMERCE AND INDUSTRIES

The chief agricultural products of Goa are rice, coconuts, cashew-nuts, betel-nuts, mangoes, and sugar-cane. Of these cashew-nuts, betel-nuts, coconuts and mangoes which were exported in considerable quantities to the Indian Union, have been banned by the Government of India. The rice grown is not sufficient for local consumption and lasts for only six months in a year. For the remaining six months rice is imported from Pakistan, Mozambique (Portuguese East Africa) and Burma. Other exports include copra, bamboo, salt, salt-fish and manganese and iron ore, the exports of which have enabled the Goa Government to earn foreign exchange, specially in dollars, enough to finance all its imports. The imports consist of rice, machinery, textiles and other manufactured goods.

The currency in Goa is now the 'escudo' which was introduced from January 1, 1959. Formerly it was the Portuguese 'rupia' but now it has been changed to suit Portugal.

According to the new regulations in force one Portuguese 'rupia' is worth six escudos. The Indian rupee is at a discount and 95 Portuguese 'rupias' are equal to 100 Indian rupees. This is done unofficially by traders and exchange dealers.

There are no banks operating in Portuguese territory with the exception of the Banco Nacional Ultramarino which has offices in the major towns. No Indian bank can open branches in Goa as the Banco Nacional has a monopoly. The Indian Government in its turn compelled the Portuguese Bank to close its branch in Bombay because Indian banks were not allowed to do business in Goa.

PRO-MERGER MOVEMENT

and Dadra. These enclaves are situated near Daman.

A Rs. 32-lakh development plan has been prepared for the 191-square-mile enclave of Nagar Haveli. Among the construction activities included in the plan are three bridges over the two rivers, costing Rs. 10 lakhs, 75 miles of roads, schools and village water system.

Handmade paper industry, catechu (Ratia used in pan) manufacture, tanneries and tile and brick factories, a public library and a maternity home have also been constructed. Over 3,000 students are now attending schools, on which the administration spends about Rs. 88,000. Spinning and carpentry are taught in the schools.

A model cottage hospital, a veterinary dispensary and four dispensaries have started functioning.

In December 1956 Portugal filed a claim before the World Court at The Hague to a right of passage to the two Portuguese enclaves.

India contested the jurisdiction of the World Court.

The case came up for hearing at the World

A railway line maintained and run by the West of India Portuguese Guaranteed Railway, once a subsidiary of the former Madras and Southern Mahratta Railway, joins the port of Mormugao with the junction of Londa on the Southern Railway. It fulfilled a very important role by providing an outlet to the sea for the products of this part of the Mahratta country.

The Southern Railway which administered the railways in Goa on behalf of the W.I.P.R. did not renew the contract at the end of Dec. 1955 with the result that Goa has now no rail link with India. But shuttle services inside Goa were maintained by Goan authorities.

The air service between Goa, Daman and Diu has been resumed after making adjustments in the route.

There is a bi-weekly air service between Mormugao and Karachi.

Mormugao, which is the chief port, is also geographically one of the major ports on the west coast of India and is open to ocean-going vessels of every size from all parts of the world. But, as we have mentioned, there is neither trade nor communication between India and the Portuguese-held territory. But ships from Japan, America and Europe call at Mormugao to take cargo of iron ore and manganese, which are the chief exports of Goa.

There is now no restriction in the matter of travel between India and Goa for Goan citizens. A traveller can take Rs 50 into Goa or bring Rs 100 with him. But restriction on trade continues. Indians have to take a visa from the Brazilian Embassy in Delhi for travel to Goa.

Restrictions on Goan citizens about travel between India and Goa were removed on April 3, 1958.

DAMAN

Daman in Gujarat has a total area of about 33 square miles and a population of some 21,000 inhabitants, mostly of Gujarati extraction.

There are some very interesting historical relics here such as the old fort and a few surviving churches reminiscent of the old times.

DIU

About 150 miles to the north-west of Daman lies the tiny islet of Diu off the southern coast of Kathiawad. It is a small town separated from the mainland by a narrow arm of the sea. Dependent on it and surrounded by the territory of Junagadh is the enclave of Gogole and also the island and fort of Pani Cota in the bay of Simbor.

Diu is reached from Bombay by the Western Railway via Viramgam and Delwada. Access by sea is easier and more rapid but there is no harbour. There is an excellent roadstead where ships can safely anchor in two fathoms of water.

Area: 413 sq. miles. The population is estimated at 19,731.

With the merger of French territory in India, the pro-merger movement in the Portuguese pockets was intensified by the people of Goa, Daman and Diu. The Portuguese Government adopted severe repressive measures to put down this agitation with the result that over 300 Goan Satyagrahis were arrested and put in Goa jails and were always in danger of being deported to Mozambique. Many Goan nationalist leaders have now fled from Goa and have taken refuge in Belgium and Bombay.

Indian Satyagrahis, who were sentenced by the Portuguese military tribunal to various terms of imprisonment in 1955, were released by the Lisbon Government. About 85 of them returned to India in February 1957 and a few others were released later.

It is now reckoned that there are only about three Indian prisoners in Goan jails.

The Goa Action Committee, which is composed of all Goan parties in Bombay, has appointed an administrator, Dr. Antonio Furtado, to administer the liberated areas of Nagar Haveli

Court in November 1957. Four of India's six preliminary objections were rejected by a majority vote of the Court. The Court deferred its ruling on the remaining two points, and declared that they would be linked with the dispute itself which would be judged on its merits.

The Court invited the two parties to file written statements and fixed a time limit for the purpose—Feb. 25, 1958 for the Indian counter-memorial, May 25, 1958 for Portugal's reply and July 25, 1958 for India's rejoinder. An extra month was given and India filed her counter-memorial on March 25, 1958.

The two Indian objections on which the Court was still to give a ruling were that the right of passage fell exclusively within Indian jurisdiction and that the dispute arose before 1930 when India was not independent and could not therefore have accepted the jurisdiction of the Permanent Court of Justice at The Hague, the predecessor of the present International Court of Justice.

According to present arrangement the case is to be heard in November 1959.

STATES ADMINISTRATIVE PERSONNEL

Andhra Administrative Personnel—(See p. 1036).

ADMINISTRATIVE PERSONNEL

Governor

Salyid Fazi Ali.

Personal Staff

Private Secretary, T. S. Krishnamurti, M.A., B.Com.

Aides-de-Camp, Capt. Vijay Kumar; S. Hassan Sami, B.A.

Council of Ministers

Bimalprasad Chaliha, *Chief Minister*:—Appointments, Political including matters dealt with in the Confidential Department, Home, General Administration including Secretariat Administration, Relief and Rehabilitation, Minority Commission, Co-ordination of all other Departments including Development, matters not specifically allotted to any Minister.

Debeswar Sarma:—Education, Roads and Buildings under the Public Works Department, Jails.

Rupnath Brahma:—Medical and Public Health, Printing and Stationery, Registration and Stamps.

Kamakhyia Prasad Tripathy:—Planning and Development, Statistics, Labour, Town and Country Planning, Industries and Power (Electricity), Trade and Commerce.

Harewar Das:—Revenue, Forests and Excise.

Mahendra Nath Hazarika:—Rural Development (Panchayats), Cottage Industries including Sericulture and Weaving, Khadi and Village Industries Board.

Fakhruddin Ali Ahmed:—Finance, Community Projects, N.E.S. Blocks, Local Self-Government and Judicial and Legislative.

Moinul Haque Choudhury:—Agriculture, Pisciculture, Veterinary and Livestock, Supply including Consumer Goods and Textiles, Parliamentary Affairs, Flood Control and Irrigation under the Public Works Department and Co-operative Department.

Williamson A. Sangma:—Tribal Areas, Publicity and Information and Transport.

Deputy Ministers

Girindra Nath Gogoi, *Deputy Minister*, P.W.D. (R. & B.), Local Self Government.

Bhavadav Sarma, *Deputy Minister*, Co-operation, Labour and Political Sufferers.

Radhika Ram Das, *Deputy Minister*, Education.

Larsingh Khyriem, *Deputy Minister*, Agriculture, Cottage and Village Industries.

Parliamentary Secretaries

A. Thanglura, B.L.—*Chief Parliamentary Secretary*, Community Projects and Transport.

Lalmawla.—*Parliamentary Secretary*, T.A.D., Printing and Stationery and Publicity.

Lalit Kumar Doley.—*Parliamentary Secretary*, Forest, T.A.D. and also to assist the Minister concerned in dealing with matters relating to P. & D. Dept.

Sai Sai Torang.—*Parliamentary Secretary*, Relief and Rehabilitation.

Secretariat

Chief Secretary, S. K. Datta, I.C.S.

Joint Secretary, Home, Appointment, General Administration Departments, K. K. Padmapati, I.A.S.

Secretary, Finance Department, S. C. Kagit, I.A.S.

Secretary, Revenue, Forests and Relief and Rehabilitation Depts., K. C. Barua, I.A.S.

Secretary, Labour, Transport, Industries Departments, S. K. Mullick, I.C.S.

Secretary, Textiles, Supply Department, B. L. Sen, I.A.S.

ASSAM

Secretary, L.S.G., Panchayats, T. & C. Planning, Sericulture and Weaving, Khadi and Village Industries Depts., S. M. Rahman, I.A.S.

Secretary, Agriculture, Veterinary, Pisciculture, Soil Conservation and Co-operation Departments, M. N. Phukan, I.A.S.

Secretary, Industries, Power (Electricity), Development of Mines and Minerals Departments, K. D. N. Singh Rana, I.A.S.

Secretary, Law Department, B. C. Barua, M.Sc., B.L.

Secretary (Ex-Officio), Tribal Areas Department, R. B. Vaghaiwalla, I.C.S.

Secretary, P.W.D. (Roads & Buildings Wing), K. Barua, B.E.

Secretary, P.W.D. (Flood Control & Irrigation Wing), B. P. Changkakoti, B.E.

Secretary, Medical Department, A. B. Das Gupta, I.A.S.

Secretary (Ex-Officio), Planning & Development Department, D. R. Kohli, I.C.S.

Addl. Secretary, Development Department, S. M. L. Bhatnagar, I.A.S.

Addl. Secretary (Ex-Officio), Legislative Department, A. B. Das Gupta, I.A.S.

Addl. Secretary (Ex-Officio), Relief & Rehabilitation Department, S. J. Das, I.A.S.

Addl. Secretary (Ex-Officio), P.W.D. (Roads & Buildings Wing), K. L. Majumdar, B.E.

Addl. Secretary (Ex-Officio), P.W.D. (Flood Control & Irrigation Wing), S. P. Choudhury, B.E.

Heads of Departments

Development Commissioner, D. R. Kohli, I.C.S.

Commissioner of Plains Division, Dr. M. N. Goswami, I.A.S.

Commissioner of Hills Division & Appeals, R. B. Vaghaiwalla, I.C.S.

Commissioner of Excise and Taxes, M. K. St. John Perry, I.A.S.

Commissioner of Labour, H. P. Duara, B.Com. (Leeds).

Director of Land Records and Surveys, L. Sharma, I.A.S.

Director of Agriculture, L. K. Handique, B.Sc., Agri. (Edin.).

Director of Industries, K. V. Srinivasan, M.Sc.

Director of Rural Development (Ex-Officio), S. M. Rahman, I.A.S.

Director of Public Instruction, Dr. H. C. Bhuyan, M.Sc., Ph.D. (Bristol).

Director of Health Services and Inspector General of Prisons, Dr. U. C. Bordoloi, M.B., D.R.C.O.G., D.G.O., L.M.

Director of Economics and Statistics, S. C. Sarma, M.Sc., M.A.

Director of Information & Publicity, I. P. Choudhury, B.A., B.T., B.L.

Director of Supply (Ex-Officio), B. L. Sen, I.A.S.

Director of National Employment, H. Rahman.

Director of Animal Husbandry and Veterinary, M. I. Mallick, B.Sc., M.R.C.V.S.

Director of Housing, G. N. Dutt, B.E., M.I.E.

Registrar, Co-operative Societies, K. K. Phukan, I.A.S.

Conservator of Forests, M. C. Jacob, I.F.S.

Legal Remembrancer, B. C. Barua, M.Sc., LL.B., A.J.S.

Inspector General of Police, S. M. Dutt, I.P.

Chief Engineer, P.W.D. (Roads & Buildings Wing), K. Barua, B.E., M.C.E.

Chief Engineer, P.W.D. (Flood Control & Irrigation Wing), B. P. Changkakoti, B.E.

Chief Electrical Engineer, G. C. Goswami, B.Sc., B.Eng., A.M.I.E.E.

Chairman, Electricity Board, B. C. Kapur, I.C.S.

Commissioner, State Transport, G. Hamilton I.P.S.

Heads of Central Departments

Accountant-General, S. Sundaraman, M.A., I.A.S.

Collector of Central Excise, A. K. Roy, B.Sc. (Hons.) (Alid.), I.E.S.

Director of Posts and Telegraphs, I. K. Gupta, B.Sc., C.B., A.M.I.E., A.M.I.T.E.

Commissioner of Income Tax, P. C. Goya.

Appellate Asst. Commissioner of Income Tax, S. C. Verma.

High Court

Chief Justice, Mr. Justice Chandreshwar Prasad Sinha, M.A., B.L.

Prise Judges, Mr. Justice Holiram Deka, M.A., B.L., Mr. Justice Gopalji Mehrotra, B.A., LL.B.

Registrar, B. C. Dutta, B.L.

Dy. Registrar, D. N. Choudhury, B.Sc., LL.B.

Asst. Registrar, K. Bardoloi, B.L.

Law Officials

Advocate-General, S. M. Lahiri, M.A., B.L.

Superintendent and Remembrancer of Legal Affairs and Administrator-General and Official Trustee, B. C. Barua, M.Sc., B.L.

Law Assistant to the Legal Remembrancer, P. C. Das, B.L., A.C.S.

Senior Government Advocate, Dinanath Medhi, B.Sc., B.L.

Junior Government Advocate, Rajni Kanta Goswami, B.L.

Editor, Indian Law Reports, Assam Series, Pulakananda Das, B.L.

Public Service Commission

Chairman, A. N. Bhattacharjee, I.A.S.; Member, Mrs. Bonli Khongmen; Secretary, R. Sarma, M.A.

North-East Frontier Agency

Adviser to the Governor, N. K. Rustonji.

Adviser for Tribal Affairs, Dr. Verrier Elwin, D.Sc.

Development Commissioner, R. S. Nag, I.F.A.S.

Inspector-General, Assam Rifles, Brigadier A. S. Guraya.

Naga Hills—Tuensang Area

Commissioner, P. N. Luthra.

NORTH-EAST FRONTIER RAILWAY

(Pandu.)

General Manager, D. C. Bajjal.

Dy. General Manager (Works), D. H. Naller.

Dy. Personnel Officer, S. Ramamurthi.

Dy. General Manager, Katihar, H. D. Dhir.

Chief Engineer, V. P. Ribeiro.

Chief Traffic Superintendent, Ranjit Singh.

Chief Mechanical Engineer, I. Hydar.

Financial Adviser and Chief Accounts Officer, G. F. Penn Anthony.

Chief Medical Officer, S. L. Malhotra.

Controller of Stores, A. T. Mansukhani.

Chief Electrical Engineer, B. J. Batliwala.

Chief Signal and Tele-communication Engineer, B. S. Mehta.

Chief Engineer (Survey and Construction), B. C. Ganguly.

BIHAR

ADMINISTRATIVE PERSONNEL

GOVERNOR.

Dr. Zakir Husain.

PERSONAL STAFF.

Secretary to Governor, Lt.-Col. C. S. Bhatnagar.

Aide-de-Camp, Captain G. J. Edulji.

Ministers

Chief Minister and Minister for Appointment & Political (minus Transport), Finance, Industries (including Mines & Mineral Resources), Dr. Sri Krishna Sinha.

Information, Irrigation & Power, Dip Narayan Sinha.

Jails, Relief & Rehabilitation & Transport, Shah Muhammad Ozair Munemi.

Excise, Forest and Welfare, Bhola Paswan.

Revenue (minus Mines & Mineral Resources), Gram Panchayats and Labour, Binodanand Jha.

Food, Supply, Health and Agriculture, Bichand Patel.

Co-operation, Veterinary, Animal Husbandry and Law, Jagat Narain Lal.

Education, Kumar Ganga Nand Singh.

Public Works, Public Health, Engineering, Housing and Local Self-Government, Maqbool Ahmad.

Dy. Ministers

Food, A. A. M. Noor.

General Administration, Political, Irrigation and Power, Kedar Pandey.

Industry Community Projects, Information and Mines & Minerals, Lalitwar Prasad Shahi.

Gram Panchayats, Co-operatives, Animal Husbandry and Veterinary, Hriday Narain Choudhury.

Finance, Ambika Saran Singh.

P.W.D. and Local Self-Government, Sahdeo Mahto.

Revenue, Forests and Religious Trusts, Radha Govind Prasad.

Law and Labour, S. M. Aquil.

Welfare and Health, Sreemati Jyotirmoyee Devi.

Agriculture, Chandrika Ram.

Education and Excise, Krishna Kant Singh.

Secretariat

Chief Secretary to Government, M. S. Rao, I.C.S.

Additional Chief Secretary, S. J. Majumdar, I.C.S.

Development Commissioner, B. D. Pandey, I.C.S.

Secretary to Government, Finance Department, S. N. Singa, I.A.S.

Secretary to Government, Revenue Department, N. P. Mathur, I.A.S.

Secretary to Government, Labour Department, Bhagwat Prasad Singh, I.A.S.

Secretary to Government, P.W.D. and Irrigation, M. B. Huda, I.A.S.

Secretary to Government, Education Department, Swaran Singh, I.A.S.

Secretary to Government, Local Self-Government Department, B. N. Basu, I.A.S.

Secretary to Government, Law Department, Ram Ratan Singh.

Secy. to Govt., Welfare Dept., V. P. Kashyap, I.A.S.

Secy. to Govt., Relief & Rehabilitation Dept., Mohan Choudhary, I.A.S.

Secy. to Govt., Agriculture and Animal Husbandry Dept., H. N. Thakur, I.A.S.

Secy. to Govt., Industries and Co-operative Dept., B. N. Sinha, I.A.S.

Secy. to Govt., Supply and Commerce Dept., M. B. Mukerjee, I.A.S.

Secretary, Bihar Legislative Council, S. O. Lal, Bar-at-Law.

Secretary, Bihar Legislative Assembly, Enayatur Rahman.

Secretary, Housing Dept., Girija Dutt Pandey, I.A.S. (Ag.).

Member, Board of Revenue, C. K. Raman, I.C.S.

Secretary, Board of Revenue, S. K. Sinha, I.A.S.

Public Service Commission

15, Bayley Road, Patna.

Chairman, K. S. V. Raman.

Members, B. M. K. Sinha, R. J. Sinha.

Secretary, John Lal.

Asst. Secretary, R. K. Chaudhuri.

Admn. Officer, M. Prasad.

HEADS OF DEPARTMENTS

Chief Conservator of Forests, J. N. Sinha.

Chief Engineer, P.W.D., Bhagwat Prasad.

Chief Engineer, Irrigation, H. K. Niwas, I.A.S.

Chief Inspector of Factories, Atma Nand Singh.

Commissioner of Labour, S. N. Pandey, I.A.S.

Director of Agriculture, B. P. Akhauri.

Director of Extension Services, B. N. Sinha.

Director of Animal Husbandry, Dr. S. K. Sen, B.Sc., M.R.C.V.S.

Inspector-General of Registration and Commissioner of Excise, Karam Singh, I.A.S.

Superintendent of Secretarial Press, S. N. Chatterjee.

Director of Industries, Dr. Ajit Masumdar, I.A.S.

Director of Health Services, Dr. P. A. Singh, (Acting).

Director of Public Relations, Ras Bihari Lal, I.A.S.

Director of Public Instruction, Kalimuddin Ahmed.

Inspector-General of Police, S. P. Varma, I.P.

Inspector-General of Prisons, G. P. Pathate (Ag.).

Registrar of Co-operative Societies, S. A. F. Abbas, I.A.S.

Chief Electoral Officer, Rajendra Prasad.

Director, National Employment Service, Braj-kishore Path.

Director, Gram Panchayat, V. Narain, I.A.S.

Commissioner, Commercial Taxes, Anwar Karim, I.A.S.

Chief Engineer, Public Health Engineering, K. N. Rohatgi.

Chief Engineer, Irrigation (North), P. R. Guha.

Chief Engineer, Electricity, John Kurlyan

Dy. Director of Public Relations (Hrs. & Press)

and Principal Information Officer, Uma Nath.

Transport Commissioner, S. A. Abbas.

Cane Commissioner, Jhunnuk Prasad.

Director, Central Bureau of Economics and Statistics, Dr. D. N. Lal.

HIGH COURT

Chief Justice, Mr. Justice V. Ramaswami, I.C.S.

Mr. Justice Basishtha Narain Bai, B.L., Punes Judge.

Mr. Justice Khaleel Ahmad, Barrister-at-Law, Punes Judge.

Mr. Justice Satish Chandra Misra, M.A., B.L., Punes Judge.

Mr. Justice Rati Kant Choudhary, B.L., Punes Judge.

Mr. Justice Kamla Sahai, Barrister-at-Law, Punes Judge.

Mr. Justice Rajkishore Prasad, M.A., B.L., Punes Judge.

Mr. Justice Kanhalya Singh, M.A., B.L., Punes Judge.

Mr. Justice Hemanta Kumar Choudhuri, M.A., B.L., Punes Judge.

Mr. Justice Kameshwar Dayal, B.L., Punes Judge.

Mr. Justice U. N. Sinha, Barrister-at-Law, Punes Judge.

Mr. Justice Nand Lal Untwalla, B.L.

Additional Judge

Mr. Justice Shih Chandra Prasad, M.A., B.L.

Anant Singh, B.L., Registrar.

Chandrika Prasad Sinha, B.Sc., B.L., Deputy Registrar.

1st Asst. Registrar, Chandra Narain Tiwary.

2nd Asst. Registrar, Tarun Chandra Roy, M.A., B.L.

Commissioner for Oaths and Affidavits, Shiva Prasad, M.A.

CENTRAL

Commissioner of Income-tax

Bihar & Orissa, Patna.

Commissioner of Income-tax, B. Kothandaraman, M.A., I.R.S.

Inspecting Asst. Commissioners of Income-tax, U. Ghose, M.A., B.Com., A.C.I., I.R.S. (Northern Range); H. N. Limaye, M.A., LL.B., I.R.S. (Southern Range).

Collectorate of Central Excise, Patna

Collector of Central Excise, Patna, L. M. Kaul, I.R.S.

Asst. Collector (Hrs.), Central Excise, Patna, H. N. Sahu, I.R.S.

Asst. Collector (Vigilance), Central Excise, Patna, Abhilash Shanker, I.R.S.

Asst. Collectors of Central Excise, Patna, K. S. Bhattacharjee, I.R.S. (Patna); Dayasagar, I.R.S. (Muzaffarpur); U. L. Sawhney, I.R.S. (Bhagalpur).

BOMBAY

ADMINISTRATIVE PERSONNEL

Governor

SRI PRAKASA.

Personal Staff

Secretary to the Governor : K. K. Moghe, I.A.S.
 Comptroller of the Household : T. H. Barker.
 As D.O. : Lieut. N. R. Khambatta, I.N., S. D. Mehta, I.P.S.

Asst. Secretary : S. D. Sawant.
 Asst. Comptroller : E. Digve.
 Hony. Surgeon : Dr. S. B. Cooper.
 Hony. Physician : Dr. R. J. Vakil.
 Hony. Dental Surgeon : Dr. C. T. Chudgar.
 Hony. Ophthalmic Surgeon : Dr. H. D. Dastoor.
 Hony. F.N.T. Surgeon : Dr. R. A. F. Cooper.
 Hony. Aides-de-camp : D. G. Moore ; R. S. Modi ; P. K. Chaubal.

Ministers

Chief Minister, Political and Services and Home : Yeewantrao Balvantrao Chavan.
 Minister for Finance : Dr. Jivraj Narayan Mehta.
 Minister for Revenue : Basiklal Umedchand Parikh.
 Minister for Labour and Law : Shantilal Harjivan Shah.
 Minister for Public Health : Marotrao Sambhish Kannamwar.
 Minister for Prohibition, Village Panchayats and Cottage Industries : Ratubhai Mulshanker Adani.
 Minister for Agriculture including Aarey Milk Colony : Vasantrao Phulsingh Naik.
 Minister for Forests : Bhagwantrao Gambhirrao Ghade.
 Minister for Local Self Government (excluding Village Panchayats) : Maneklal Chunilal Shah.
 Minister for Planning and Development, Electricity and Industries : Sheshrao Krishnarao Wankhede.
 Minister for Public Works : Daulatrao Shripatrao Desai.
 Minister for Education : Hitendra Kanaiyalal Desai.
 Minister for Civil Supplies, Housing, Printing Press and Fisheries : Kazi Syed Ghiyasuddin Kazi Syed Nasiruddin.
 Minister for Co-operation : Trimbak Shivram Bharda.
 Minister for Social Welfare and Rehabilitation : Nashikrao Khantadu Tirpude.

Deputy Ministers

Prohibition : Dr. Bhaskar Rambhai Patel.
 Roads, Buildings and Ports : Premji Bhavanji Thacker.
 Revenue : Shankarrao Bhaorao Chauhan.
 Education : Shrimati Nirmala Raje Bhosle.
 Agriculture : Devising Venkatsingh Chauhan.
 Co-operation : Jaswantlal Sobhagyaachand Shah.
 Sarvodaya, Forest, Labour Societies & Khar Lands Development Board : Shamrao Ramchandra Patil.
 Planning and Development : Gundu Dashrath Patil.
 Transport and Jails : Chhotubhai Makanbhai Patel.
 Public Health : Dr. Kailasmarayan Shivnarayan Narola.
 Irrigation : Madhukar Dhanaji Choudhari.
 Social Welfare : Bahadurbhai Kuthabhai Patel.

Parliamentary Secretary to the Chief Minister
 Homi J. H. Talyerkhan.

Private Secretary to the Chief Minister
 V. Prabhakar, I.A.S.

Secretariat

POLITICAL AND SERVICES DEPARTMENT

Chief Secretary : N. T. Mone, I.O.S.

Special Secretary : D. R. Pradhan, I.O.S.
 Development Commissioner and Ex-Officio Secretary (Planning & Development) and Director of Village Panchayats : M. R. Yardi, I.O.S.
 Deputy Secretary and Chief Electoral Officer : J. C. Agarwal, I.A.S.
 Dy. Secretaries : G. C. Baveja, I.A.S. ; N. D. Buch, I.A.S. ; L. N. Bongirwar, I.A.S.
 Under Secretaries : K. Sivaramakrishnan, I.A.S. (also Dy. Electoral Officer) ; D. R. Pingre.

REVENUE DEPARTMENT

Secretary : G. L. Sheth, I.O.S.
 Deputy Secretary : L. R. Dalal, I.O.S.
 Deputy Secretary : P. B. Patil, I.A.S.
 Deputy Secretary : N. S. Pardasani, I.A.S.
 Deputy Secretary : M. E. Gangat, B.A.
 Deputy Secretary : P. H. Abhyankar, B.A., B.Com., LL.B.

AGRICULTURE AND FORESTS DEPARTMENT

Secretary : D. D. Sathe, I.O.S.
 Dairy Development Commissioner and Ex-Officio Joint Secretary : D. N. Khurody, I.D.D.
 Deputy Supply Commissioner and Ex-Officio Deputy Secretary : G. A. Sharma, I.A.S.
 Deputy Secretary : A. K. Majumdar, I.A.S.
 Director of Civil Supplies : B. S. Sheshgiri, B.A. (Bom.), B.Sc. (Lond.), M.Sc. (Cantab.).

LABOUR AND SOCIAL WELFARE DEPARTMENT.

Secretary : B. B. Paymaster, I.O.S.
 Deputy Secretary : Raddi, I.A.S.
 Deputy Secretary : K. A. Gafoor, I.A.S.

HEADS OF DEPARTMENTS

Commissioner of Labour, Bombay : S. E. Sukthankar, I.A.S.
 Director of Social Welfare, Bombay State, Poona : B. G. Ghate, I.A.S.
 Director of Employment, Bombay : T. M. Sheth, I.A.S.
 Administrator, Ulhasnagar Township, Kalyan : K. V. Desai, B.A.
 President, Industrial Court, Bombay : M. R. Meher, I.O.S. (Retd.).

INDUSTRIES & CO-OPERATION DEPARTMENT

Secretary : M. G. Pimpulkar, I.O.S.
 Deputy Secretary and State Coal Controller and Secretary, Board of Transport and State Textile Controller : K. V. Senhadri, I.A.S.
 Deputy Secretary and Director of Civil Supplies : B. C. Cariapa, I.A.S.
 Under-Secretaries : V. N. Pimenta, N. S. Pandit.
 Assistant Secretaries : B. V. Laud ; N. N. Elljah ; A. S. Bukhari.
 Special Officers : D. H. Sheth ; D. A. Ekbote ; M. N. Mankad.

HOME DEPARTMENT

Secretary : A. L. Dias, I.O.S.
 Jt. Secretary : E. G. Salvi, I.A.S.
 Deputy Secretaries : S. V. Chavan, I.A.S. ; L. S. Lulla, I.A.S. ; J. E. Cabral.

FINANCE DEPARTMENT

Secretary : V. Isvaran, I.O.S.
 Joint Secretary : M. N. Heble, I.A.S.
 Financial Adviser and Joint Secretary : R. F. Boga, I.A.S.
 Deputy Secretaries : S. K. Gangopadhyay, I.A.S. ; J. L. Jadeja, I.A.S. ; B. C. Bele, B.Sc. ; M. Misbah, M.A. ; P. K. Namjoshi, M.A., LL.B. ; S. G. Walawalkar, B.A. ; M. P. Singh Jain, I.A. & A.S.
 Deputy Financial Adviser : K. Ramkrishna Ayyar, I.A. & A.S.
 Under Secretaries : V. T. Chari, I.A.S. ; K. K. Uppal, I.A.S. ; George Hurry, B.A. (Hons.), LL.B. ; N. B. Jangale, B.A. (Hons.), LL.B. ; R. H. Mehta, B.Sc., LL.B. ; S. K. Gokhale, M.A. ; V. C. Tamne, B.A., LL.B. ; G. R. Hosangadi, B.Sc., LL.B. ; R. K. Punjabi, P.L.B., A.O.R.A.G.P.A. ; H. J. M. Desai, M.A., LL.B. ; P. J. Bhatt, M.A., LL.B. ; D. M. Dewoolkar, B.A. (Hons.).
 Insurance Officer : S. C. Damle, M.Sc., F.I.A.

PUBLIC WORKS DEPARTMENT

Secretary : S. G. Barve, I.C.S.
Chief Engineer (Irrigation Project) and Joint Secretary to Government : G. N. Pandit, B.Sc. (Bom.), B.Sc. (Eng.) (Lond.), M.I.E., I.E.E.
Chief Engineer (Irrigation) and Joint Secretary to Government : D. B. Anand, C.E. (Roorkee), M.I.E., I.E.E.
Chief Engineer (Roads and Buildings) and Joint Secretary to Government : U. J. Bhatt, B.E., S.M. (Civil), M.I.T., M.A.M., S.C.E.
Deputy Secretary to Government : J. H. Patwardhan, I.A.S.
Deputy Secretary to Government : N. V. Sundara Raman, I.A.S.
Superintending Engineer (Roads and Buildings), S. V. Natu, B.E., I.E.E. (I).
Superintending Engineer (Minor Irrigation) : N. V. Khursale, B.E. (Osm.), A.M.I.E. (India), A.M.A.S.C.E. (U.S.A.).

LOCAL SELF-GOVT. AND PUBLIC HEALTH DEPARTMENTS

Secretary : B. D. Mirchandani, I.C.S.
Deputy Secretaries : M. D. Rajpal, I.A.S.; M. Habibuddin, I.A.S.; H. H. Trivedi, I.A.S.

LEGAL DEPARTMENT

Secretary to Government and Remembrancer of Legal Affairs : N. K. David, I.C.S.
Addl. Secretary : B. P. Dalal, I.C.S. (Retd.).
Joint Secretary : S. B. Palekar.
Charity Commissioner : S. C. Bhat.
Deputy Secretaries : Smt. S. R. Potnis; S. W. Dhurandhar; V. S. Datar; M. V. Bansod.
Solicitor to Government and Ex-Officio Deputy Secretary to Govt. : S. D. Nigudkar.
Solicitor (Mofussil Litigation) : M. M. Nadkarni.
Additional Solicitor (Mofussil Litigation) : E. N. Bongirwar.
Officer on Spl. Duty : K. A. Farikh.

EDUCATION DEPARTMENT

Secretary : P. J. Chinnulgund, I.C.S.
Joint Secretary : Mohd. Abdulla, I.A.S.
Deputy Secretary : D. B. Kamble, I.A.S.
Under Secretaries : R. S. Galtonde; C. G. Sahasrabudhe; S. H. Varia; C. H. Champameria; V. B. Parulkar.

LEGISLATURE DEPARTMENT

Council Hall, Bombay 1.
Secretary : S. H. Belavadi, B.Sc., LL.B., J.P.H. (H.S.).
Deputy Secretaries : H. B. Shukla, B.A., LL.B.; S. R. Kharabe, B.A., LL.B.
Assistant Secretaries : Y. N. Acharekar, B.A., LL.B., Pravin (Hindi); M. J. Tamane, B.A., LL.B.; M. K. Pandit, B.A., LL.B.

SOME HEADS OF DEPARTMENTS

Accommodation Controller, Jehangir Building, Mahatma Gandhi Road, Bombay 1, S. V. Chavan.
Agricultural Iron and Steel Supply Officer, 16, Horniman Circle, Bombay 1, V. L. Shah.
Director, Govt. Transport Service, Swadeshi Mills Estate, Queen's Road, Bombay 4, Jasjit Singh, I.A.S.
Curator of Libraries, Town Hall, Bombay 1, K. D. Puranik.
Deep Sea Fishing Supdgr. Engineer-in-Charge, Sassoon Dock, Bombay 6, S. Misketh.
Food Controller, New India Assoc. Bldg., Mahatma Gandhi Road, Bombay 1, B. S. Kanade.
Pay and Accounts Officer, Old Secretariat Annex, Bombay 1, K. Laxminarayan.
Registrar General of Money-lenders, Bombay State, Poona, Dr. A. U. Shaikh, I.A.S.
Supdgr. Engineer, Bombay Circle, P.W.D., opp. C.T.O., Veer Nariman Road, Bombay 1, G. K. Patil.
Surgeon-General, Medical Department, J. J. Hospital Compound, Bombay 8, Dr. D. P. Sethna.
Collector of Sales Tax, Bombay, P. N. Damry, I.A.S.
Settlement Commissioner and Director of Records, Poona, B. J. Jhala, I.A.S.
Director of Education, Poona : Dr. A. G. Pawar, M.A., Ph.D.

POSTMASTER-GENERAL'S OFFICE (CENTRAL)

Postmaster-General, Bombay : S. N. Das Gupta.
Directors of Telegraphs : K. V. Srinivasan (South); K. B. D. Iyengar (North).
Directors of Postal Services, Bombay : S. B. Velankar; T. D. Subramaniam.
Dy. Director of Telegraphs : O. H. Vaishnav.
Vigilance Officer : K. Pichumani.
Asst. Postmaster-General, Bombay : D. V. Antani; R. K. Saraf.
Asst. Directors, Postal Services, Bombay : B. G. Shah; S. R. Kodiyal; S. B. Rast; K. K. Satpute; N. D. Mehta; K. K. Khopkar; D. K. Kamat.
Circle Complaints Officer : R. B. Mathur.
Personal Asst. (Envy.) : K. G. George.
Personal Asst. (Deputy) : J. J. Kathuria.
Personal Asst. (Traffic) : M. C. Smith.

A.E. Planning : R. N. Shenoi.
Asst. Engineer (Bldgs.) : B. A. Bhupale.
Manager, P. & T. Motor Service : F. K. Biswas.
Offis Superintendent, Postmaster-General's Office, Bombay : L. M. Vase.

BOMBAY G. P. O.

Presidency Postmaster, Bombay : G. K. Sidhaye.
Dy. Presidency Postmasters, Bombay : A. D. Pandse; K. B. Naidu; D. D. Modi; P. C. Sahlyar.

OFFICE OF THE DIRECTOR, FOREIGN POST, BOMBAY.

Director, Foreign Posts : S. R. Krishnamurthi.
Dy. Director, Foreign Posts : D. D. Pasarnikar.
Superintendent, Foreign Posts : S. M. Pandit.

TELEGRAPH TRAFFIC.

Chief Superintendent, Bombay C.T.O. : P. K. Sundaram.
Senior Asst. Superintendent, Bombay C.T.O. : O. I. De Rosario.
Asst. Supdt., Bombay C.T.O. : F. D. Souza; K. D. Banarjee; C. J. Hayra; F. A. E. Nash; M. R. Vasunta; M. S. Godbole; V. M. Saraf; S. V. Rao; B. R. Patankar; C. J. Patel.

TELEGRAPH ENGINEERING.

Divisional Engineers, Telegraphs, Bombay : J. V. Sastry (City Division); A. H. Mahadevam (East Division).
Divisional Engineer, Telegraphs, Poona : P. Subramaniam.
Divisional Engineer, Telegraphs, Ahmedabad : T. N. Paradasani.
Divisional Engineer, Telegraphs, Rajkot : P. M. Kaul.
Fault Controller, Bombay : V. Ramamurthy.
Asst. Elect. Engineer (I), Bombay : M. V. J. Menon.
Asst. Elect. Engineer (II), Bombay : K. B. Venkataraman.
Asst. Engineer, Wireless, Bombay Radio : A. B. L. Akehurst.
Asst. Engineer, Wireless, Bombay (Monitoring) : N. V. Doodhar.
Regional Engineer, Maintenance, Bombay : K. Swaminathan.
Asst. Elect. Engineer (III) : L. N. Rajagopalan.
Asst. Elect. Engineer (IV) : D. K. Kuppuswamy.
Asst. Engineer, Cables : R. Natarajan.
Officer-in-Charge, C.M.G. : N. I. Thomas.
Officer-in-Charge, T.M.G. : G. F. Deshpande.

SUPERINTENDENT OF P. O.'S AND E. M. S.

City Supdt. (Bombay) : M. B. Shirali; D. K. Kulkarni.
Senior Supdt. of R.M.S., Bombay Sorting Division : P. P. Dave.

INDIAN AUDIT DEPARTMENT (CENTRAL)**CIVIL AUDIT**

Accountant-General's Office, Queen's Road, Bombay.
Accountant-General : G. S. Rau.
Senior Dy. Accountant-General : S. L. Bhalla.
Dy. Accountant-General (Admn.) : B. Mathrayan.
Dy. Accountant-General (Works) : Aziz Ud-din.
Dy. Accountant-General (O. A. D.) : B. B. Srinivasamurthy.
Asst. Accountants-General : S. T. Kenge; Smt. Girija Kewaran; A. Gnanaolivu; B. J. Desai; M. Y. Priolkar; N. S. Bhende.
I.A. & A.S. Probationers : K. Subramaniam; V. A. Mahajan; A. B. Palekar.

Branch Office, Rajkot

Sr. D.A.G. : M. A. Siddique.
D.A.G. (A) : R. S. Maunder.
Asst. Accts. Genl. : S. K. Sachdev; S. M. Patankar.

Branch Office, Nagpur

D.A.G. : M. B. Chawla.
A.A.G. : N. Venkataraman; R. V. Bansod.

RAILWAY AUDIT

Chief Auditor's Office, Central Railway, V. T., Bombay.
Chief Auditor, Central Ry. : S. Sankaran.
Deputy Chief Auditor, Central Ry. : K. B. Baliga.
Chief Auditor's Office, Western Railway, Churchgate, Bombay.
Chief Auditor, Bombay : G. Narayanaswami.
Dy. Chief Auditors, Bombay : R. Ganapati; R. S. Gupta.

CENTRAL EXCISE

Construction House, Ballard Estate, Post Box No. 806, Bombay No. 1.
Collector of Central Excise, Bombay : T. C. Seth, I.E.S.
Deputy Collector of Central Excise, Bombay : H. C. Bahri, M.A., B.Com., I.E.S.
Headquarters Assistant Collector, Central Excise, Bombay : B. J. Swares, I.E.S.
Assistant Collector of Central Excise, Bombay Dn. I, Bombay : B. S. Gupta, M.Sc. (Tech.), I.E.S.
Assistant Collector of Central Excise Refunds, Bombay : S. A. S. Bukhari, I.E.S.

Assistant Collector (Marine) Division, Bombay : S. J. Israel, I.R.S.
Assistant Collector of Central Excise, Bombay Division III, Bombay,
R. N. Shukla, B.A., I.R.S.
Assistant Collector (Tech.), Bombay : N. C. Kandola, B.A., I.R.S.
Assistant Collector of Central Excise, Bombay Dn. II, Bombay : K.
Sarvanal, B.Sc., I.R.S.
Examiner, Central Excise Accounts, Internal Audit, Bombay : K.
Purushotham, B.A.
Chief Accounts Officer, Central Excise, Bombay : T. S. Rajagopalan,
B.A.
Deputy Headquarters Assistant to the Collector of Central Excise,
Bombay : R. V. Pille.

BOMBAY CUSTOMS DEPARTMENT (CENTRAL)

New Custom House, Ballard Road, Bombay.

Collector of Customs : M. G. Abrol, B.A. (Hons.), M.A. Certs. Stats.
Add. Collector of Customs : C. T. A. Pillai, M.Sc.
Dy. Collector of Customs : M. R. Ramchandran, M.A.
Asst. Collectors of Customs : K. S. Dillipalnjil, B.A. (Hons.); M. B.
Chandiramani, B.Sc. (Rom), B.Sc. (Tech.) (Manchester); Smt.
Kausalya Narayanan, M.A.; M. S. Pal, B.Sc. (Eng.); L. F. Rosario,
B.A.; R. C. Shrivast, B.A. (Hons), B.Sc.; S. B. Sarkar, M.Sc.; J. N.
Joishi, B.Sc. (Hons.), M.Sc.; M. A. Rashid, M.A.; S. M. Hacema, B.A.;
M. S. Kharkar, B.A.; A. P. Nadkarni, B.A. (Hons), 1st LL.B.; S.
Venkatarama Iyer, B.Sc. (Hons.); M. G. Vaidya, B.Com., B.A.;
S. B. Palekar; K. K. Dwivedi, B.A.; J. M. Varma; C. Bhujang-
swamy, M.A.
Deputy Chief Chemist : H. D. Suri, M.Sc., B.Sc. (Hons.), F.R.I.C.
Chemical Examiner : K. S. Subramanian, M.Sc., A.I.L.Sc., A.R.I.C.
Asst. Chemical Examiners : D. K. Sankaran, M.A., A.R.I.C., A.I.L.Sc.;
P. P. Mathews, M.Sc., I.T.
Chief Accounts Officer : S. B. Mehta, B.A., LL.B.
Chief Inspector (Preventive) : K. P. Kriss.

BOMBAY EMIGRATION OFFICE (CENTRAL)

Army & Navy Building, 148, Mahatma Gandhi Road, Bombay 1.
(Telephone : 251760)

Protector of Emigrants : R. S. Chavan, M.A., LL.B., Ph.D.

BOMBAY PORT TRUST

Ballard Road, Bombay.

BOARD OF TRUSTEES (1959-61)

Nominated by Government : Chairman, V. T. Dehajia, I.C.S.; V. L.
Gidwani, I.C.S.; Kumar Shri Pravinshiji, I.P.; R. B. Lal; M. M.
Khan; Brig. Kapita Prasad; Rear Admiral B. S. Soman, I.N.;
C. P. Srivastava, I.A.S.; M. G. Abrol and 2 Labour representatives.
Elected by the Bombay Chamber of Commerce & Industry : E. A.
Jenkins; C. W. Couch.
Elected by the Indian Merchants' Chamber : Devji Rattansey; Ambalal
Kilachand; C. H. Bhabha; B. D. Somanl.
Elected by the Maharashtra Chamber of Commerce : B. D. Garware.
Elected by the Bombay Municipality : Dr. S. G. Patel; R. S. Pandey.
Elected by the Millowners' Association : Arvind N. Mafatlal.
Elected by the Indian National Steamship Owners' Association : H. M.
Desai; V. S. Vallabhdas.
Elected by the East India Cotton Association Ltd. : M. R. Rula.
Elected by the All India Sailing Vessels Industries Association : D. M.
Ashar.

Officers of the Bombay Port Trust Secretary's Dept.

Secretary : E. H. Simoes, B.A.

Dy. Secretary : S. D. Chittar, B.A.

Chief Accountant's Dept.

Chief Accountant : I. B. Das Gupta, M.A., LL.B., A.S.A.A., A.C.A.
Dy. Chief Accountant : D. A. Screwvala, B.Com., B.Sc. (Lond.), C.D.I.I.
Dy. Chief Accountant (Jr.) : A. Santos, M.A.

Chief Engineer's Dept.

Chief Engineer : S. B. Dalal, B.E. (Civil), M.I.E., M.I.C.E., M.I. Struct. E.
Dy. Chief Engineer : K. G. Sarma, B.E., B.Sc. (Eng.) (Manchester),
M.I.C.E., M.I. Struct. E.
Executive Engineers : K. C. Desai; F. D. Daruwala; R. P. Vasildar;
R. N. Vinekar.
Mech. Superintendent : B. S. Sood, M.I., Mar.E., A.M.I. Mech., A.M.I.E.
Consulting Engineers & Agents in London : M/s. J. A. S. Rolfe &
D. P. Bertlin.

Port Dept.

Dy. Conservator : W. E. Brown.

Harbour Master : J. H. S. Stewart.

Docks Dept.

Manager : V. Vas, B.A.

Dy. Managers : V. A. Kashikar, B.Com.; M. H. Sayani, B.A.; J. B.
de Souza-Lawrence, M.A.

Railway Dept.

Manager : J. N. Adagga, B.A.

Estate Dept.

Manager : N. D. Baria, B.E. (Civil), M.I.E., M.I.S.

Stores Dept.

Controller of Stores : F. V. Thadani, B.Sc., B.Sc. (Tech.).
Dy. Collector of Stores : G. A. Mokal, M.A., LL.B.

Legal Dept.

Legal Adviser : S. D. Nariman, B.A., LL.B., Solicitor.

Medical Dept.

Chief Medical Officer : Dr. N. V. Nene, M.B.B.S. (Bom.), M.R.C.P.
(Lond.).

Asst. Chief Medical Officer : Dr. V. B. Damle, M.B.B.S., M.D. (Bom.).

Labour Dept.

Chief Labour Officer : B. H. Mehta, B.A., LL.B., Solicitor (o
Deputation) : A. S. Devasthali (Ag.).

INCOME-TAX DEPARTMENT (CENTRAL)

Ayakar Bhavan, 4th Floor, Queen's Road, Bombay.

Commissioner of Income-tax (Central), Bombay : Syed Noor, B.A.
Inspecting Assistant Commissioner of Income-tax (Central), Bombay
F. Madhava Rau, B.A., B.L.
Inspecting Asst. Commissioners of Income-tax (Central), Bombay
H. A. Shah, B.Com. (Bom.), B.Com. (Lond.) (Range I); M. S.
Nadkarni, B.A. (Hons.), LL.B. (Range II).
Income-tax Officer (Hqrs.) (Central), Bombay : Y. G. Joshi, B.Com.
Additional Income-tax Officer, Section I (Central), Bombay : P. K.
Bains, M.A., LL.B.
Additional Income-tax Officer, Section II (Central), Bombay
M. M. Parikh, B.Sc., LL.B.
Additional Income-tax Officer, Section III (Central), Bombay
B. Lakshminpathy, M.Sc.
Income-tax Officer, Section IV (Central), Bombay : B. B.
Baliga, B.A., LL.B.
Additional Income-tax Officer, Section V (Central), Bombay
Y. G. Joshi, B.Com.
Additional Income-tax Officer, Section VI (Central), Bombay : K. B.
Raghavan, M.A.
Income-Tax Officer, Section VII (Central), Bombay : T. K. Soui
Rajan, B.Sc. (Hons.).
Additional Income-Tax Officer, Section VIII (Central), Bombay, M. F.
Patel, B.A. (Hons.).
Income-tax Officer, Section IX (Central), Bombay : K. N. Anantha
raman Iyyer, M.A.
Income-tax Officer, Section X (Central), Bombay : V. Chidambaram
M.Sc.
Income-tax Officer, Section XI (Central), Bombay : K. N. Anantha
raman Iyyer, M.A.
Income-tax Officer, Section XII (Central), Bombay : V. Chidambaram
M.Sc.
Income-tax Officer (Central), Circle I-A, Bombay : C. N. Valashnav
B.Com.
Income-tax Officer (Central), Circle I-B, Bombay : S. V. Nerurkar
B.A. (Hons.), LL.B.
Income-tax Officer (Central), Circle I-C, Bombay : C. N. Valashnav
B.Com.
Income-Tax Officer (Central), Circle II-A, Bombay : K. T. Thakore
B.Com.
Income-Tax Officer (Central), Circle II-B, Bombay : K. T. Thakore
B.Com.
Income-tax Officer (Central), Circle II-C, Bombay : S. V. Nerurkar
B.A. (Hons.), LL.B.
Income-tax Officer (Central), Circle II-D, Bombay : K. T. Thakore
B.Com.
Income-Tax Officer (Central), Circle II-E, Bombay : K. T. Thakore
B.Com.
Income-tax Officer, Central Circle I, Ahmedabad : R. N. Nagwekar, B.A.
Income-tax Officer, Central Circle II, Ahmedabad : N. R. Dandekar
B.Com.
Income-tax Officer, Central Circle III, Ahmedabad : R. N. Nagwekar
B.A.

INCOME-TAX DEPARTMENT, BOMBAY CITY I AND II

Commissioner of Income-tax, Bombay City (I) : N. D. Mehrotra, M.A.
Commissioner of Income-tax, Bombay City (II) : R. N. Jain, B.Com.
LL.B.

Income-tax Officers, Headquarters, Bombay City (I & II) : A. V. Kul
karni, B.A. (Hons.); S. V. Raut, M.A., LL.B.; S. J. Karnik, B.Sc.
LL.B.; D. A. Kamat, B.Sc. (Additional).

Inspecting Assistant Commissioners of Income-tax, Bombay City
H. P. Sharma, M.A., B.Com. (A-Range); G. S. Sampat, M.A., B.Sc.
(B-Range); E. N. Bose, M.A. (C-Range); T. R. Vinhanathan
B.A. (Hons.) (D-Range); V. S. Narayanan, M.A. (E-Range); S. H.
Bhat, B.Sc. (Bom.), M.A. (Cant.) (F-Range); M. Sunderarajam
B.A. (G-Range); S. D. Sinha, M.A. (H-Range); H. L. Bhatia, M.A.
(K-Range); V. C. Desai, B.A., LL.B. (L-Range); H. M. Jhala, B.A.
(Hons.), B.Com. (Hons.) (Lond.) (M-Range); R. V. Ramaswamy
M.A. (N-Range); D. S. Bapat, LL.B., F.A.C.C.A. (Estate Duty Range)

Appellate Assistant Commissioners of Income-tax, Bombay City :
 K. Jagannatha Raju, B.Sc., B.L. (A-Range); N. Subba Rao, B.A., B.L. (B & H Ranges); N. C. Roy, M.Sc., B.L. (C-Range); Amjad Hussain, M.A., B.L. (D-Range); M. S. Datta, M.A. (E-Range); Satya Prakash, M.Sc. (F-Range); M. A. Kasem, B.Com. (G & M-Ranges); A. K. Dasgupta, M.Sc. (K-Range); Tajjudin Ahmed, M.A., LL.B. (L-Range); M. P. Gurnasta, B.A. (N-Range); V. D. Monde, B.A. (Hons.), LL.B. (P-Range); S. S. Seth, M.A., LL.B. (Q-Range).
Income-tax Officers, Special Investigation Branch : S. K. Ghatak, B.Sc.; V. G. Shinde, B.A., LL.B. (1st Addl.); D. A. Kamat, B.Sc. (2nd Addl.).
Public Relations Officer : V. T. Namjoshi, B.A.
Authorised Representatives, Income-tax Appellate Tribunal, Bombay :
 Bombay Bench A : A. M. Ramakrishnan, M.A., B.L.
 Bombay Bench B : N. Y. Tamhane, B.Com.
 Bombay Bench C : R. D. Helma, M.A., LL.B.
Junior Authorised Representative : H. K. Sajani, B.A. (Hons.), LL.B.

INCOME-TAX, BOMBAY SOUTH

Poona.

Commissioner of Income-tax, Bombay South, Poona : K. D. Dholakia, M.A. (Bom.), B.A. (Cantab.), Wrangler.
Inspecting Assistant Commissioner of Income-tax, Poona Range, Poona : C. G. Joshi, M.A., LL.B., B.Com.
Inspecting Assistant Commissioner of Income-Tax, Akola Range, Akola : N. D. Sakinawalkar, M.Sc.
Appellate Asstt. Commissioner of Income-tax, Range II, Poona : A. M. Rao, B.Sc.
Appellate Asstt. Commissioner of Income-tax, Range I, Poona : H. C. Dastur, C.A.
Appellate Assistant Commissioner of Income-tax, Akola Range, Akola : G. M. Hiremath, B.Sc.
Appellate Assistant Commissioner of Income-tax, Kolhapur Range, Kolhapur : N. D. Kumbhkar, B.A., LL.B.
Appellate Assistant Commissioner of Income-tax, Sholapur Range, Sholapur : A. J. D'Souza, B.A. (Hons.).

HIGH COURT OF JUDICATURE

Fort, Bombay No. 1.

CHIEF JUSTICE.

H. K. Chainani, Mr. Justice.

PIUNIK JUDGES

J. G. Shah, Mr. Justice.
 J. R. Mudholkar, Mr. Justice.
 D. V. Vyas, Mr. Justice.
 S. T. Desai, Mr. Justice.
 Y. S. Tambo, Mr. Justice.
 B. N. Gokhale, Mr. Justice.
 S. P. Kotwal, Mr. Justice.
 K. G. Datar, Mr. Justice.
 K. T. Desai, Mr. Justice.
 J. M. Shelat, Mr. Justice.
 N. A. Mody, Mr. Justice.
 N. M. Mianbhoy, Mr. Justice.
 G. B. Badkar, Mr. Justice.
 V. M. Tarkunde, Mr. Justice.
 D. V. Patel, Mr. Justice.
 V. S. Desai, Mr. Justice.
 K. K. Desai, Mr. Justice.
 V. A. Naik, Mr. Justice.
 Vadrevu Bhadriraju, Mr. Justice.

GAZETTED OFFICERS

Registrar, D. G. Palekar, B.A. (Hons.), LL.B.
Addl. Registrar, V. R. Gadkar, B.A. (Hons.), LL.B., Advocate (on deputation).
Offg. Addl. Registrar, U. N. Hattangadi, B.A., LL.B., Advocate.
Offg. Deputy Registrar and Sealer : N. M. Shanbhag, B.A., LL.B., Advocate.
Assistant Registrar (Civil & Criminal), V. H. Kesarkar.
Assistant Registrar (Administrative)-I, R. N. Bhagwat.
Assistant Registrar (Administrative)-II, M. J. Gavaskar, B.Sc., LL.B.
Assistant Registrar (Establishment), R. D. Sule, B.A.
Offg. Assistant Registrar (Judicial), S. R. Bhawe.
Special Officer, S. R. Pathak, B.A., LL.B.

OFFICERS, HIGH COURT AT NAGPUR.

Special Officer, G. S. Jadhav, B.A., LL.B.
Additional Special Officer, S. V. Mulherkar, B.A., LL.B.

OFFICER, HIGH COURT AT RAJKOT.

Special Officer, V. R. Bhatia, B.A., LL.B.

OFFICERS, ORIGINAL SIDE.

Prothonotary and Senior Master : S. J. Rahimtoola, B.A. (Hons.), LL.B., J.P., Barrister-at-Law.
Master and Assistant Prothonotary : V. J. Merchant, B.A. (Hons.), LL.B., Attorney-at-Law.
Secretary to the Chief Justice : V. L. Rao.
Master and Registrar in Equity and Commissioner for taking Accounts : S. H. A. Vakil, B.A., Barrister-at-Law.

Official Assignee : G. V. Dalvi, B.Sc., (Bom.), B.A. (Cantab.), Bar-at-Law.
Court Receiver and Liquidator : Dr. D. B. Banaji, M.A., LL.B., D.Mitt.
Insolvency Registrar : E. N. Vadigar, B.Com., LL.B., Advocate (O.S.).
Chief Translator & Interpreter : M. H. Pradhan, B.A. (Hons.), LL.B.
Accounts Officer : Subramanya Viswanathan, G.D.A.

SHERIFF'S OFFICE.

Sheriff of Bombay : B. D. Garwarr.

Dy. Sheriff of Bombay : S. V. Kondaskar, Barrister-at-Law.

LAW OFFICERS.

Advocate-General : H. M. Seervai, M.A., LL.B., Advocate (O.S.).
Govt. Pleader : Y. V. Chandrachud, B.A., LL.B.
Solicitors to the Government of Bombay : Messrs. Little and Co., Bombay.
Public Prosecutor for Bombay : C. M. Trivedi, B.A., LL.B., Bar-at-Law.

ADMINISTRATOR-GENERAL AND OFFICIAL TRUSTEE.

H. S. Patil, B.Sc., LL.B.
Editor, Indian Law Reports, Bombay : S. V. Gupta, B.A., LL.B., Advocate (O.S.).

CITY CIVIL AND SESSIONS COURT, GREATER BOMBAY

Judges : B. B. Mehta, B.A., LL.B., Advocate (O.S.) (Principal Judge and Sessions Judge); B. C. Vakil, B.A. (Hons.), LL.B.; M. G. Chitale, B.A., LL.B., Advocate; B. J. Divan, M.A., LL.B., Advocate (O.S.); V. D. Tulzapurkar, M.A., LL.B.; G. A. Thakker, B.A., LL.B.; J. R. Vimalalal, B.A. (Hons.), LL.B., Advocate (O.S.); P. C. Kapadia, B.A., LL.B.; T. P. Ghogate, B.A., LL.B.; T. R. Gosewade, B.A., LL.B.
Officers, M. A. Chaudhary, B.A., LL.B. (Registrar, City Civil Court); D. R. Nadkarni, B.A., LL.B. (Registrar, City Sessions Court); A. P. Yajnik, M.A., LL.B., Advocate (A.S.) (Deputy Registrar, City Civil Court).

COURT OF SMALL CAUSES

Carnac Road, Fort, Bombay

Chief Judge : Taher Tyabally Barodawalla, B.A. (Bom.), LL.B. (Lond.), Bar-at-Law, J.P.

Judges : Prasannamukh Surochandra Badami, B.A. (Hons.), B.Sc. (Bom.), Bar-at-Law, J.P., Vinit (Hindi, Gujarathi Vidyapith); Ernest Monte Alvares, M.A., LL.B. (Bom.), J.P.; Thakorlal Babubhai Desai, B.Sc., LL.B. (Bom.), J.P., Vinit (Hindi, Gujarathi Vidyapith); Narayan Mulchand Shah, B.A., LL.B. (Bom.), Advocate (O.S.), J.P.; Arthur Isaiar Namson, B.A., LL.B. (Bom.), J.P.; Shiv Mohan Khatri, M.A. (Cantab.), Bar-at-Law, M. (H.S.), G. (H.S.), H. (H.S.); Vafadar K. Irani, M.A., LL.B.; Ratilal Raichand Parekh, Advocate; D. G. Rajadhyaksha, B.A. (Hons.), LL.B.; Sitaram Dagdoo Patil, B.Sc., LL.B.

Temporary Additional Judges : A. M. Turabali Waqil, M.A., LL.B., Vinit (Hindi, Gujarathi Vidyapith); Ahmedali Abbasali Syed, M.A., LL.B.

Registrar : Keshav Dwarkanath Tipnis, B.A. (Hons.), LL.B., Hindi Pravin; **Deputy Registrar :** Rukmajli Laxman Ifkyl.

PRESIDENCY MAGISTRATES, GREATER BOMBAY

Chief Presidency Magistrate and Revenue Judge, Bombay, G. K. Borge, B.A. (Hons.), LL.B., Bar-at-Law.
Additional Chief Presidency Magistrates, Bombay, M. Naarullah, B.A., Bar-at-Law; S. A. Hattoos, Bar-at-Law.

PRESIDENCY MAGISTRATES, BOMBAY :

B. S. Parikh, B.A., (Hons.), LL.B., Advocate (O.S.).
A. A. Shellim, B.A., LL.B.
T. A. Sonawane, B.A., LL.B.
M. Nemasi, B.A., LL.B.
Harilal Gajanan Mahimtura, B.A., LL.B., Bar-at-Law.
D. D. Yennemadi, B.A., LL.B.
H. J. Chinoy, B.A., LL.B., Advocate (O.S.).
K. J. Bijlani, B.A., LL.B.
V. M. Gehani, B.A., LL.B.
G. J. Saidhana, B.A., LL.B.
M. M. Dhruv, M.A., LL.B.
J. S. Dawda, Bar-at-Law.
J. H. A. Vakil, LL.M., Advocate (O.S.).
H. A. Elias, B.A. (Cantab.), Bar-at-Law.
V. N. Lokur, M.A., LL.B.
P. S. Gaonkar, B.Sc., LL.M.
M. M. Valand, B.A. (Hons.), LL.B.
K. S. Dhurandhar, B.A., LL.B.
H. S. Ursekar, M.A., LL.B.
V. V. Athalye, Advocate.
D. J. Noni, B.A., LL.B.

Judicial Magistrates Offg. as Presidency Magistrates, S. B. Ranade, B.A. (Hons.) LL.M., N. J. Patel, B.A., LL.B.

Presidency Magistrate, Juvenile Court, Bombay, Mrs. A. H. Kulkarni, M.A.

Registrar and Presidency Magistrate, Bombay, Dr. R. B. K. Jayakar, Ph.D.

OFFICE OF THE INSPECTOR-GENERAL OF POLICE

Contractor Bldg., Nicol Road, Ballard Estate, Bombay.

Inspector-General of Police : M. M. Chudasama, I.P., B.A., LL.B.
Assistant Inspector-General of Police : S. P. Karnik, I.P.S., B.A. (Hons.).
Additional Assistant Inspector-General of Police : D. A. Khamgaonkar, I.P.S., M.A.

GREATER BOMBAY POLICE FORCE

Office—Hornby Road, Opp. Arthur Crawford Market, Bombay.

Commissioner of Police : Pravinsinhji, I.P.

Dy. Commissioners of Police : D.P.P. Thorat, I.P.S., (Headquarters),
 B. K. Govardhan, I.P.S. (Centre); V. Sami, I.P.S., (Crime Branch)
 (C.I.D.); W. K. Patil, I.P.S., Special Branch I (C.I.D.); M. S.
 Kasbekar, I.P.S., (South); E. K. Raisinghani, I.P.S., (Prohibition);
 T. M. Kadam Pande, I.P.S. (North); S. M. A. Pathan, I.P.S.
 (Armed Forces, Traffic & M.T.).

Superintendent, Headquarters : V. D. Kadam.

Sr. Office Superintendent : D. D. Biwalkar.

Office Superintendent : H. V. Ponkshe.

PROHIBITION DEPARTMENT

Superintendent : A. G. Athavle.

CRIME BRANCH, C.I.D.

Superintendent : M. G. Korde.

Addl. Superintendent : S. H. J. Kanga.

SPECIAL BRANCH I.

Assistants to D.C.P. : B. H. Jainapur, S. N. Sawant, C. G. Desai.

SPECIAL BRANCH II, C.I.D.

Assistant to I.C.P. : M. A. Bhalji.

ANTI-CORRUPTION BUREAU

Superintendent : B. K. Shetye.

LA. DIVISION (I)

Superintendent : J. J. Jameson.

LA. DIVISION (II)

Superintendent : S. B. Dastoor.

LA. DIVISION (III)

Superintendent : J. T. F. Gurr.

M.T. SECTION

Superintendent : K. V. Sidhaye.

COMMISSIONER OF LABOUR

Frangji Cowasji Institute Bldg., Dhobi Talao, Bombay.

Commissioner of Labour, Bombay : S. B. Sukthankar, D.F.C., I.A.S.

Dy. Commissioner of Labour Bombay : D. G. Kale.

Dy. Commissioner of Labour, Bombay : V. V. Joshi.

Chief Inspector of Factories, Bombay : N. L. Gadkari.

Chief Inspector of Steam Boilers and Smoke Nuisances, Bombay :

J. M. Munshi.

Dy. Commissioner of Labour, Ahmedabad : D. K. Badheka.

Dy. Commissioner of Labour, Nagpur : S. S. Rege.

SALES TAX TRIBUNAL

J. K. Bldg., Dougall Road, Ballard Estate, Bombay.

President : K. C. Sen, I.C.S. (Retd.), B.A. (Cal. & Cantab.).

Members : R. C. Mehta, F.C.A. (Eng. & Wales), J.P.; S. D. Parikh,

B.A., LL.B.

Registrar : G. R. Prabhawalkar, B.A.

SUPERINTENDENT OF PARKS AND GARDENS, BOMBAY STATE

14, Queen's Barracks, Fort, Bombay.

Superintendent : Kumari Sarojini S. Pawar, M.S., Ph.D. (Cornell).

OFFICE OF THE DIRECTOR OF AYURVED

New Nurses Quarters, 2nd Floor, J. J. Hospital Compound, Byculla, Bombay 8.

Director : Pandit Hari Datt Shastri, Ayurvedacharya.

DIRECTORATE OF PRINTING AND STATIONERY

Charni Road Gardens, Bombay 4.

Director : B. A. Koreishi, B.A., LL.B., G. (H.S.), J.P.

Dy. Director : B. S. Naik, B.A. (Hons.) (Ext.), M.I.Ptg.M., F.R.S.A.

(Lond.), Full Tech. (T'graphy) Dip. Casting, B.F.M.P. (Lond.).

Manager, Govt. Central Press : J. W. D'Souza, B.A. (Ext.), C. & G.

(Tech.), London.

DIRECTORATE OF PUBLICITY

Sachivalaya, Bombay 1.

Director of Publicity : M. H. Shah.

Addl. Director of Publicity : Binod U. Rao.

Dy. Director of Publicity (News) : D. R. Samant.

Films Officer : K. N. Samarth.

Engineer-in-Charge, Rural Broadcasting : M. M. Wagle.

Production Officer : B. B. Chitgupi.

Liaison Officer : V. D. G. Deshmukh.

Assistant Director of Publicity (Administration) : D. N. Shamarao.

RURAL BROADCASTING DIRECTORATE OF PUBLICITY

Eros Theatre Building, 49, Queen's Road, Bombay.

Engineer-in-Charge : M. M. Wagle.

Senior Assistant Engineers : S. V. Lalit; S. Gajanan Rao; S. K.

Navare.

DIRECTORATE OF PROHIBITION AND EXCISE

Old Custom House, Bombay 1.

Director of Excise and Prohibition, Bombay : W. G. Subhedar, B.Sc., LL.B., I.A.S.

Deputy Director of Excise and Prohibition (Headquarters), Bombay :

W. C. Hearn, B.A. (Hons.).

Deputy Director of Excise and Prohibition and Deputy Excise Commis-

sioner, Nagpur : P. B. Joshi, B.Sc.

Deputy Director of Excise and Prohibition and Deputy Excise Commis-

sioner, Aurangabad : Mohd. Fasilullah Siddiqui, B.A.

Superintendent of Prohibition and Excise, Bombay : C. A. Forage.

BOMBAY CO-OPERATIVE TRIBUNAL

J. K. Bldg., Dougall Road, Ballard Estate, Bombay 1.

President : B. D. Nadkarni.

Members : C. B. Patel; S. A. Pande.

BOMBAY LABOUR WELFARE BOARD

Jambori Maidan, Worli, Bombay 18.

Chairman : Smt. Nirmala Raje Bhosle, Deputy Minister for Education.

Welfare Commissioner : O. Thomas.

Assistant Welfare Commissioners : Kumari M. S. Deshpande;

S. C. Shah; T. S. Krishnamurthy.

FACTORY INSPECTION OFFICE

Bombay 7.

Chief Inspector of Factories : N. L. Gadkari, B.Sc. (Lond.), A.O.G.I.

Dy. Chief Inspector of Factories : G. M. Kolhatkar, B.Sc. (Eng.),

A.M.I.E.; R. P. Patel, B.E. (Mech. & Elec.); D. B. Arte, B.Sc.,

B.Sc. (Elec. Mech.).

Senior Inspector of Factories : F. T. R. Brito, B.E.; V. M. Mardhekar,

B.E. (Elec.); P. T. Shah, B.Sc. (Eng.); B. V. Desai, B.Sc., B.Sc.

(Eng.); R. N. Mhagaonkar, B.Sc., B.Sc. (Eng.), A.M.I.E.

FOREST DEPARTMENT

Poona.

Chief Conservator of Forests : J. A. Singh, B.A. (Oxon.), I.P.S.

Deputy Chief Conservator of Forests : R. R. Chaudhari, M.Sc., LL.B.

(Bom.), B.Sc. (Edin.).

Wild Life Preservation Officer, S. G. Bhogle, B.Sc. (Agri.) Hons.,

A.I.F.C.

HAFFKINE INSTITUTE

Parel, Bombay 12.

Director : Dr. H. I. Jhala, M.D., F.C.P.S., D.T.M.

Assistant Director, I/C Dept. of Antitoxins and Sera : Dr. A. K. Hazra,

M.B.B.S., D.T.M.

Assistant Director, I/C Dept. of Pharmacology : Dr. N. K. Dutta,

M.B., D.Phil.

Assistant Director, I/C Dept. of Entomology : Dr. P. J. Deoras, M.Sc.,

LL.B., Ph.D.

Assistant Director, I/C Dept. of Clinical Pathology : Dr. M. V. Sant,

M.D., M.Sc. (Med.).

Assistant Director, I/C Dept. of Chemotherapy : Dr. C. V. Doliwala,

M.Sc., Ph.D.

Assistant Director, I/C Dept. of Virus Diseases including Rabies :

Dr. A. N. D. Nanavati, M.D.

Assistant Director, I/C, Administration : Dr. K. Ganapathi, D.Sc.

Business Manager : P. K. Sholapurwala, B.Sc., LL.B.

HOME GUARDS

Secretariat Annex, Mahatma Gandhi Road, Bombay 1.

Commandant General : M. J. B. Maneckji.

Director of Administration : Smt. P. M. Maneckji.

Director of Audit & Accounts : P. C. Hanasota.

Liaison Officer : Dr. B. C. Cooper.

Director of Training : A. J. D'Monte.

Director of Transport : B. V. Bhatia.

Director of Personnel : D. H. Kabraji.

Directors : Smt. P. M. Maneckji (Women's Wing); M. R. S. Captain

(Legal Wing).

Chief Staff Officer, Prohibition : T. E. Kachwala.

Chief Instructor, Central Training Headquarters : V. B. Masooji.

Fire and Aviation Adviser to the Govt. of Bombay : M. J. B. Maneckji.

STATE TRANSPORT OFFICE*Industrial Assurance Bldg., Churchgate, Bombay 1.**Secretary : Jasjit Singh, I.A.S.**Secretaries and Assoc. Officers : M. K. Deshpande ; D. K. Sukhtankar, M.Sc. ; V. S. Dubashi, B.Sc. ; S. M. Karaka ; H. C. Boyce ; M. L. Bhambri, B.A., LL.B. ; K. Ramalingam, B.A.***REGIONAL TRANSPORT OFFICE***Bodyguard Lines, Bombay 7.**Regional Transport Officer : M. K. Deshpande, L.M.E., Grad. Inst. T. (London).**Asst. Regional Transport Officer : P. S. Manklikar, B.Sc.**Regional Supervisor : R. N. Elavia.***OFFICE OF THE DAIRY DEVELOPMENT COMMISSIONER AND JOINT SECRETARY TO THE GOVERNMENT OF BOMBAY, AGRICULTURE AND FORESTS DEPARTMENT***Old Secretariat, Bombay 1.**Dairy Development Commissioner & Joint Secretary to Government : D. N. Khurody.**Regional Dairy Development Officer, Poona : G. S. Godbole.**Regional Dairy Development Officer, Rajkot : P. S. Medora.**Regional Dairy Development Officer, Nagpur : V. G. Bhilde.***OFFICE OF THE DIRECTOR, BOMBAY MILK SCHEME, WAKEFIELD HOUSE, BALLARD ESTATE, BOMBAY 1.***Director, Bombay Milk Scheme : A. J. Vaz.**Chief Accounts Officer : V. D. Joshi.**Chief Executive Officer (Colony) : Y. V. Salpekar.**Controller, Milk Transport Service : N. G. Pandit.***CHARITY COMMISSIONER***Bank of India Bldg., 3rd Floor, Flora Fountain, Bombay 1.**Charity Commissioner : S. C. Bhat, B.A., Advocate.**Director of Accounts : D. M. Vakil, B.Com., F.C.A.**Deputy Charity Commissioner, Public Trusts Registration Office : M. K. Trilokekar, M.A., LL.B.**Deputy Charity Commissioner, Office of the Charity Commissioner : M. J. Lalvani, B.A., LL.B.***OFFICE OF THE DRUGS CONTROLLER FOR THE STATE OF BOMBAY***Manekji Wadia Building, 3rd Floor, 127, Mahatma Gandhi Road, Bombay 1.**Drugs Controller for the State of Bombay : B. V. Patol, B.Sc., B.Pharm., F.P.S.**Assistant Drugs Controller, Bombay : S. C. Shah, B.Sc., B.Sc. (Tech.).**Assistant Drugs Controller (Districts) : M. K. Rangnekar, B.Sc., B.Sc. (Tech.), LL.B.**Assistant Drugs Controller (Advt.) : B. M. Patel, B.Sc., B.Sc. (Tech.).**Senior Drugs Inspector (Hgrs.), Bombay : U. R. Rao, B.Sc., B.Sc. Tech.**Senior Drugs Inspector (Intelligence Branch) : V. N. Solanki, M. Pharm.**Senior Drugs Inspector (Advt.) : N. M. Parikh, B.Pharm., LL.B.**Superintendents : V. D. Nabar ; S. S. Shirke.***DEPARTMENT OF AGRICULTURE***Poona.**Director of Agriculture : S. P. Mohite, I.A.S.**Jt. Directors of Agriculture : V. G. Valdya ; G. N. Godse ; Dr. M. B. Ghatge ; Dr. B. S. Kadam.***DEPARTMENT OF TECHNICAL EDUCATION***Cruickshank Road, Bombay 1.**Director of Technical Education, Bombay State, Bombay : Prof. T. N. Tolani, B.E. (Mech.), M.I.E. (India), M.E. San. I (London).**Personal Assistant to the Director : S. I. Kadiri, B.A. (Hons.).**Officer on Special Duty (Deputy Director of Technical Education) : B. K. Nudurgkar, B.Sc. (Engg.), B.E.U., A.M.I.E. (India).**Inspector of Technical Education, Bombay : J. M. Badhe, B.Sc. (Engg.), (B.E.U.).**Inspector of Technical Education, Bombay : H. T. Gandhi, B.Sc. (Engg.), B.E.U., A.M.I.E. (India).**Apprenticeship Adviser : M. R. Bhise, B.Sc., B.E. (Mech.), B.E. (Electrical), A.M.I.E. (India), A.M.I.E.E. (London).**Assistant Director of Training : M. D. Naik, L.M.E.**Officer on Special Duty (Planning) : P. A. Subnis, B.Sc. (Tech.), A.M.I.E. Chem. Engg.**Deputy Inspector of Textiles : A. U. Shenoy, L.T.M. (Hons.).**Assistant Inspectors of Training : S. S. Ghatge ; D. K. Tilak, D.M.E. & D.E.E.***ENGINEERING COLLEGES***Principal, College of Engineering, Poona : G. V. Vartak, B.E. (Civil), A.M.I.E. (India).**Principal, L. D. College of Engg., Ahmedabad : T. A. Desai, B.Sc. (B.E.U.), A.M.I.E. (India).**Principal, Engineering College, Nagpur : A. D'Souza, B.A., B.E. (Civil), A.M.I. Struct. Engg. (London), A.M.I.C.E. (London), A.M.I.E. (India).**Principal, L. E. College, Morvi : M. S. Yagnik, B.Sc. (Engg.), (B.E.U.).***DIRECTORATE OF SOCIAL WELFARE***Bombay State, Poona.**Director : Dr. B. G. Ghate, I.A.S.**Joint Director : P. G. Gaval, I.A.S.**Asst. Director (Co-operation) : V. D. Karkhanis, B.A. (Hons.), G.D.O.A. H. (Col.).**Asst. Director (Land Matters) : T. B. Wankhade, B.Sc.***ELECTRICAL ENGINEER'S DEPARTMENT***P.W.D. Office, Veer Nariman Road, Fort, Bombay.**Electrical Engineer to Government, P.W.D., Bombay : S. G. Nadkarni, B.A., B.Sc. (Bom.), M.Sc. (Engg.) (Lond.), A.C.G.I., D.I.C., A.M.I.E.E., M.I.E.E., M.I.E. (Ind.).**Executive Engineers and Electrical Inspectors, Elec. Division : V. A. Joshi, B.Sc., D.I.E.C. (Poona) ; R. G. Aras, B.Sc., A.M.I.E.E. (Poona) ; K. G. Penkar, L.E.E., L.M.E. (New York), A.M.A.I.E.E. (Baroda).**Electrical Inspectors : V. G. Bapat, B.Sc., C.I.E.C., A.M.I.E. (India), LL.B. (Nagpur) ; N. G. Gatha, D.M.E. & D.E.E. (Poona Engineering College), A.M.A.I.E.E. (America), Stud. I.E.E. (India) (Rajkot).**Chief Auditor, Audit Unit, Bombay : C. C. Chhotai, B.Com., C.A. (Bombay).***DEPARTMENT OF ANIMAL HUSBANDRY***Bombay State, Poona.**Director of Animal Husbandry : S. R. Chadha, B.Sc. (Punjab), M.N.C.V.**Deputy Director of Animal Husbandry (Headquarters), Poona : M. M. A. Rehman.**Deputy Director of Animal Husbandry, Poona : S. H. Bhat.**Principal, Bombay Veterinary College, Bombay : D. T. Parnalk.**Principal, Nagpur Veterinary College : V. N. Sharma.**Deputy Director of Animal Husbandry, Bombay Region, Bombay : Dr. F. S. Khambata, B.A.G., G.B.V.C., Dip. Sanitary Inspector, B.Sc. (Hons.), M.Sc., Ph.D.**Deputy Director of Animal Husbandry, Nagpur Region, Nagpur : P. D. Lele.**Dy. Directors : N. P. Deshpande (Poona Region) ; S. V. Sakhadeo (Aurangabad Region) ; D. M. Chavan (Ahmedabad Region) ; M. U. Gohel (Rajkot Region) ; H. V. Kulkarni (Biological Products Section, Bombay) ; S. N. Sapre (Disease Investigation Section, Nagpur).**Cattle Development Officer, Bombay State, Poona : K. K. Shukla, B.A. (Hons.).**Poultry Development Officer, Bombay State, Poona : R. M. Patil, G.B.V.C., M.Sc. (U.S.A.).**Sheep Development Officer, Bombay State, Poona : S. P. Dhamle, B.Sc. (Agri.) (Hons.), M.Sc. (Iowa) (U.S.A.).***BOMBAY DISTRICT GAZETTEERS (REVISION) EDITORIAL BOARD***Old Secretariat, Bombay 1.**Executive Editor and Secretary, Prof. M. R. Palande, M.A.**Superintendent : T. V. Parvate.**Research Assistants : Prof. A. N. Welling, M.A. ; Dr. G. S. Badhe, M.A., Ph.D. ; G. K. Shah, M.A., LL.B. ; U. M. Chokshi, M.A. ; M. S. Pandit, M.Com. ; D. C. Deo, M.A. ; M. R. Trivedi, M.A. ; L. A. Joshi, M.A.***DIVISIONAL COMMISSIONERS***Divisional Commissioner, Rajkot Dn. : P. K. Shunglu, I.A.S.**Divisional Commissioner, Ahmedabad Dn. : J. D. Kapadia, I.C.S.**Divisional Commissioner, Bombay Dn. : B. A. Bambawale, I.C.S.**Divisional Commissioner, Poona Dn. : V. M. Joshi, I.C.S.**Divisional Commissioner, Aurangabad Dn. : G. V. Bedekar, I.C.S.**Divisional Commissioner, Nagpur Dn. : P. N. Rana, I.A.S.**Additional Commissioner, Nagpur Dn. : B. N. Kunte, I.A.S.***BOMBAY DIVISIONAL COMMISSIONER***Old Custom House, Fort, Bombay.**Commissioner : B. A. Bambawale, I.C.S.**Asst. Commissioner (Revenue) : V. T. Shiralkar, B.A.**Assistant Commissioner (General) : L. G. Shahani, B.A.**Assistant Commissioner (Development) : J. G. Rajadhyaksha, B.A., LL.B.**Assistant Commissioner (Panchayats) : G. V. Kahlrwar.**Asst. Director (Small Savings) : E. G. Khandekar.***BOMBAY COLLECTORATE***Old Custom House Yard, Fort, Bombay.**Collector of Bombay, J. B. D'Souza, I.A.S.**Deputy Collector, Bombay, and Personal Assistant to Collector, S. G. Mone.**Superintendent, Bombay City Survey and Land Records, R. J. Sethna, B.E., B.A., B.Sc., LL.B.**District Dy. Collector, V. J. Karnik, B.A.*

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Superior, B.E.D.A., V. C. Vora, M.Sc., M.I.S.E.
Mamlatdar, South Salsette, Andheri, S. L. Patankar.
Chitnis to the Collector, M. K. Dhaple.
Requisition Maholkari, B. N. Kadam.
Head Clerk to the Collector of Bombay, J. D. Jaokar.
Additional Collector, B.S.D. : M. Sivagnanam, M.A., I.A.S.

STAMPS

Town Hall, Fort, Bombay.

Collector of Bombay and Superintendent of Stamps, J. B. D'SOUZA, I.A.S.
Asst. Superintendent of Stamps, M. S. Vidwans, B.A., J.P.
Dy. Assistant Superintendent of Stamps, P. L. Yadav, (II) Pravin.

BOMBAY HOUSING BOARD

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Members, Kanji Dwarikadas ; L. M. Dabholkar ; Mahomed Haji Ahmed Agbotwala.
Secretary, Bombay Housing Board, S. G. Jadhav, B.A.
Legal Adviser, R. C. Role, B.A., LL.B.

OFFICE OF THE HOUSING COMMISSIONER

Esplanade Maidan, Cruickshank Road, Bombay.

Housing Commissioner, C. R. Desai, B.E., B.S.E. (I).
Asst. Housing Commissioner (West), S. S. Kirtane, B.E., A.M.I.E. & C.Y.E., M.R.San.I.
Assistant Housing Commissioner (North), Dalsukh P. Shah, B.E., A.M.I.E., B.S.E. (I).
Asst. Housing Commissioner (Estate Management), B. P. Deria, B.E., A.M.I.E., B.S.E. (I).
Executive Engineer and P. A. to the Housing Commissioner, M. G. Sohoni, D.C.E., B.S.E. (I).
Works and Designs Officer, Bombay, S. G. Sohoni, D.C.E., B.S.E. (II).
Executive Engineer, Housing, Development Division, Bombay, B. A. Vithalani, B.E., B.S.E. (II).
Executive Engineer, Housing, East Division, Bombay, P. K. Daruwalla, B.E., A.M.I.E., B.S.E. (I).
Executive Engineer, Housing, West Division, Bombay, N. P. Panjabi, B.E., B.S.E. (II).
Executive Engineer, Housing, Chembur Division, Bombay, P. J. Tipnis, B.E., B.S.E. (II).
Estate Manager, Bombay, S. B. Soman.
Chief Accounts Officer, Bombay Housing Board, S. M. Chhugani, B.A.

COLLECTOR OF SALES TAX

Old Secretariat Bldg., 3rd Floor, Mayo Road, Fort, Bombay.

Collector of Sales Tax, Bombay State, Bombay, P. N. Danury, I.A.S.
Addl. Collector of Sales Tax, Bombay City Division (Adm.), Bombay, S. N. A. Razvi, I.A.S.
Addl. Collector of Sales Tax, Central Division, Bombay, H. B. Munshi, M.A.
Addl. Collector of Sales Tax, Bombay City Division (Revision II), Bombay, V. V. Baxi, M.A.
Addl. Collector of Sales Tax, Bombay City Division (Revision II), Bombay, K. V. Kalghatgi.
Addl. Collector of Sales Tax, Bombay City Division (Enforcement), Bombay, M. G. Sahnis, B.Com.
Addl. Collector of Sales Tax, Northern Division, Ahmedabad, P. V. Patankar, B.A., B.Com.
Commissioner of Sales Tax, Eastern Division, Nagpur, S. M. Ghosh, I.A.S.

BOMBAY PUBLIC SERVICE COMMISSION

Bank of India Building, Mahatma Gandhi Road, Bombay 1.

Chairman, Maharaj Shri Duleepsinhji, B.A. (Cantab.).
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Secretary, R. A. Kodkani, M.A.
Dy. Secretary, S. S. Kale, B.A., LL.B.
Asst. Secretary, Y. G. Sanglikar, M.A., LL.B.
Asst. Secretary, A. Husain, B.A., LL.B.

BOMBAY STATE ROAD TRANSPORT CORPORATION

80-81, Dr. Annie Besant Road, Worli, Bombay 18.

Chairman, R. G. Saraiya, B.A., B.Sc., J.P.
Vice-Chairman and Motor Transport Controller, J. B. Bowman, M.B.E., M.A., I.C.S., J.P.
General Manager, N. D. Daftary, B.E., A.M.I.E., B.S.E. (Cl.-I).
Jt. General Manager, L. S. Julla, I.A.S.
Chief Accounts Officer, K. R. Nair, I.A. & A.S.
Chief Mechanical Engineer, S. N. Chawla, D.M.E.C. (Hons.), A.M.I.E. (London).
Dy. General Manager (Admn.), H. L. Bajaj, B.Sc., LL.B.
Dy. General Manager (Traffic), R. E. Wates.

Controller of Stores, M. K. Mantri.
Senior Executive Engineer, J. N. Mullan, B.Sc., B.E., A.M.I.E., B.S.E. (I).
Chief Security Officer, K. S. Ghanashyamsinh.
Secretary, B.S.R.T. Corps., K. S. Prabhudesai, B.A. (Hons.).
Commercial Superintendent, Dr. S. G. Patwardhan, M.A., Ph.D., A.M.I.E.
Publications Officer and Editor (State Transport Review), Joseph John, B.A.
Public Liaison Officer, D. M. Nadkarni, B.A., LL.B.
Secretary to S.T. Services Board and Secy. to Vice-Chairman, W. M. Bhandare.
Chief Labour Officer, C. N. Dagwo, B.Sc.

DIRECTORATE OF EMPLOYMENT

Mercantile Chambers, Graham Road, Ballard Estate, Bombay 1.

Director of Employment, T. M. Sheth.
Deputy Director of Employment, N. C. Pavri.
Assistant Director of Employment, S. D. Framruze.
Employment Market Information Officer : P. A. Gomes.
Employment Liaison & Youth Employment Officer : B. S. Gokhral.
Regional Employment Officer, G. K. Katre.
Sub-Regional Employment Officer, Mercantile Chambers, Graham Road, Ballard Estate, Bombay 1, Y. D. Mahajan.
Superintendent of Police, S. M. Sonar.
Employment Officer for the Physically Handicapped, S. B. Kowil.

DEPARTMENT OF COTTAGE INDUSTRIES AND INDUSTRIAL CO-OPERATIVES, BOMBAY STATE

22, Wellesley Road, Poona 1.

Director of Cottage Industries and Additional Registrar for Industrial Co-operatives, J. G. Shah, I.A.S.
Dy. Directors of Cottage Industries and Dy. Registrars for Industrial Co-operatives, M. V. Patel, B.A. (Ahmedabad) ; D. V. Parulekar, B.Com., U.D.C. & A. (Nagpur) ; P. S. Mankad, B.Sc. (Rajkot) ; V. K. Bhandare, B.A. (Poona) ; G. P. Valshnav, B.A. (Hons.), H.D.C. (Mumbai) ; K. R. Swadi, U.D.C. & A. (Aurangabad).

DEPARTMENT OF FISHERIES

Tarapurwala Aquarium, Bombay 2.

Director of Fisheries : Dr. C. V. Kulkarni, M.Sc., Ph.D.
Asst. Directors : A. G. Kulkarni, M.Sc. (Zoology) (Adm.) ; S. M. Arslwala, M.Sc. (Technology).
Research Officer (Marine Biological Research Station, Bombay) : Dr. H. G. Kewalramani, B.Sc., Ph.D.

DIRECTORATE OF CIVIL SUPPLIES (ACCOUNT)

Bengalee Girls' High School, 4th Floor, 42, New Marine Lines, Bombay 1.

Director : Madhao Gopal Gupte.
Dy. Directors : Pratapsinh Bhankar Bendre (Stores Accts.) ; Nandshankar Girjashankar Bhatt (Accounts).

INSPECTOR-GENERAL OF PRISONS

Bombay State, Poona.

Inspector-General of Prisons : M. B. Salvi.
Dy. Inspector-General of Prisons : Terrence Michael LaTouche.
Special Officer : Balwant Dinkar Nawarkar, B.A., M.Ed. (Leeds).
Supdt., Yerurda Central Prison : R. C. Bharucha, B.A. (Hons.).
Principal, Jail Officers' Trg. School, Yerurda : D. J. Jadhav, B.A.

SECRETARIAT RECORD OFFICE

Elphinstone College Bldg., Fort, Bombay.

Director of Archives and Historical Monuments : Dr. P. M. Joshi, M.A., Ph.D. (Lond.).
Historical Archivist to Govt. : Dr. V. G. Dighe, M.A., Ph.D. (Bom.).
(on deputation to Govt. of India).

KOYNA PROJECT

Mercantile Bank Bldg., 4th Floor, Mahatma Gandhi Road, Bombay 1.

Chief Engineer (Electrical) : V. K. Valdiya.
Superintending Engineers : K. N. Desmukh (T.C. Construction Circle) ; G. M. Marathe (G.P. Construction Circle).

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Narandas Building, Ballard Estate, Bombay 1.

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Registrar : H. P. Prabhune.

BUREAU OF ECONOMICS & STATISTICS

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Dy. Directors, P. J. Divatia, B.Sc. (Bom.), A.M. (Colum.) ; K. S. Narayanan, M.A. (Madras) ; L. N. Thacker, M.A. (Rajkot).
Officer in Charge at Nagpur, D. R. Deoras, M.Sc.

COMMISSIONER FOR WORKMEN'S COMPENSATION

New Govt. Hutment No. 3, Opp. C.C.I., Dinsha Wacha Road, Bombay 1.
Commissioner : Abdul Rehman Abdul Razak Badshah, B.A., LL.B.
Addl. Commissioner : Jayvadan Harivadanram Mehta, B.A., LL.B.
Registrar : Govind Shripad Shtrgaokar.

INSTITUTE OF VOCATIONAL GUIDANCE

Elphinstone Technical High School Bldg., 3, Cruickshank Road, Bombay 1.

Officer-in-Charge : Fall Savaksha Chothia.

WAGE BOARDS FOR THE COTTON & SILK TEXTILE AND SUGAR INDUSTRIES

Industrial Court Premises, Block No. 3, Foreshore Road, Bombay 1.
Chairman, Purushottam Kanji.
Secretary : M. P. Joshi.

FORENSIC SCIENCE LABORATORY

J.J. Hospital Compound, Byculla, Bombay 8.

Director : Dr. Harbhajan Singh Mahal.

Asstt. Chemical Analysts : Dr. (Smt) Girija Gangadhar Kane;
 Krishnakant Kashinath Rajadhyaksha.

EXAMINER OF BOOKS & PUBLICATIONS

Old Secretariat Bldg., Fort, Bombay.

Examiner of Books and Publications : Yeshwant Hari Pitke.
Special Officer : Kesheu Madheo Aradhey.

OFFICE OF THE DIRECTOR OF INDUSTRIES AND STATISTICS AUTHORITY

Old Customs House Yard, Fort, Bombay 1.

Director of Industries, Statistics Authority, Central Stores Purchasing Officer and Controller of Buildings for the City of Bombay and Thana Taluka, Dr. Mukund Ramrao Mandlikar, Ph.D. (Lond.).

Jt. Director of Industries (Small Scale Industries), Vinayak Vishnu Aptt., B.F. (Mech.) (Bom.).

Jt. Director of Industries (Administration), Vasishtha Virmitra Divatia, A.M. (Columb. Univ.).

REGISTRAR OF CO-OPERATIVE SOCIETIES, BOMBAY STATE

Poona.

Registrar of Co-operative Societies and Director of Agricultural Marketing & Rural Finance, Dr. A. U. Shalkh, M.A., Ph.D., I.A.S.

Jt. Registrar of Co-operative Societies, C. K. Patel, B.A.

Officer on Special Duty, N. G. Abhyankar, I.A.S.

Jt. Registrar, Co-op. Societies, Sugar, P. D. Kasbekar, I.A.S.

Jt. Registrar, Co-op. Societies, Audit and Financial Adviser to Co-op. Dept., G. R. Palkar, B.A., B.Sc., (Econ.) (Lond.).

Chief Marketing Officer & Joint Registrar, M. Fariduddin, B.Sc. (Tech.), A.M.C.T. (Manch.).

Dy. Registrars of Co-operative Societies, K. P. Bhatt, B.Sc., G.D.C.A. (Rajkot Dn.); C. K. Desai, B.A., G.D.C.A. (Ahmedabad Dn.); J. K. Barot, B.A., G.D.C.A. (Haroda Dn.); Dr. N. Y. Kher, M.A., Ph.D. (Bombay Dn.); M. B. Ghorpade, M.A., LL.B., G.D.C.A. (Nasik Dn.); G. A. Khan, B.A. (Poona Dn.); D. A. Desai, B.A., G.D.C.A. (Aurangabad Dn.); N. S. Kulkarni, M.A., G.D.C.A. (Nagpur Dn.); R. H. Deshpande, G.D.C.A. (Amravati Dn.).

ALL-INDIA HANDLOOM BOARD (Publicity Branch)

P.O. Box 10004, Bombay

Chairman : D. S. Joshi, I.C.S.

Secretary : V. Subramanian, I.A.S.

Hon. Industrial Adviser (Textile Designs) : Mrs. Pupul Jayakar.

GOVT. OF INDIA TOURIST OFFICE

123, Queen's Road, Bombay 1.

Director : Mrs. K. S. Bamji.

Asstt. Director : Mrs. S. Jagannathan.

CENTRAL PUBLIC WORKS DEPARTMENT

C.G.O. Building, 5th Floor, Queen's Road, Bombay 1.

Superintending Engineer, Bombay Central Circle, R. G. Gokhale.

Surveyor of Works, Bombay Central Circle, B. S. Jurlanlingham.

Executive Engineer, Bombay Central Dn. I, P. L. Dutta.

Executive Engineer, Bombay Central Dn. II, V. C. Sarana.

Executive Engineer, Bombay Central Dn. III, I. D. Mathur.

Executive Engineer, Nasik Central Dn., R. N. Saxena.

Executive Engineer, Military Lands Scheme, P. N. Varma.

Executive Engineer, Bombay Aviation Dn. II, M. G. Krishnamurthy.

Electrical Engineer, C.E.D., John Mammen.

CENTRAL PUBLIC WORKS DEPARTMENT

TV/1 Central Govt. Staff Quarters, Ghatkopar, Bombay 39.

Superintending Engineer, Bombay Aviation Construction Circle, T. B. Bhonsle.

Executive Engineer, Aviation Construction Division No. I, B. A. Satyanarayana.

Executive Engineer, Aviation Construction Division No. II, R. Pichumani.

Executive Engineer, Bombay Aviation Division, C. P. Govil.

Electrical Engineer, Aviation Electrical Division, T. P. Basu.

INDIAN AIRLINES CORPORATION

Bombay Airport

Santa Cruz (East), Bombay 29.

Area Manager : D. A. Samant.

Traffic Manager : C. J. Lively.

Operations Manager : J. J. Fackiel.

Chief Engineer (Offg.) : H. N. Klawala.

Chief Accounts Officer : M. V. Row.

PRESS INFORMATION BUREAU

United India Bldg., S'r Pherozeshah Mehta Road, Fort, Bombay 1.

Deputy Principal Information Officer : C. L. Bhardwaj.

Information Officer : G. L. Raval.

Assistant Information Officer (Gujerati) : H. D. Mehta.

Assistant Information Officer (Marathi) : A. B. Godbole.

Assistant Information Officer (All India Radio) : B. V. Ranganath.

REGISTRAR OF COMPANIES

"Everest", 100, Marine Drive, Bombay 2.

Registrar of Companies, Bombay : S. Venkataraman.

Additional Registrar of Companies, Bombay : M. A. Rasheed.

Assistant Registrars of Companies, Bombay : M. S. Nene; H. N. Dalla.

EMPLOYEES' STATE INSURANCE CORPORATION

E.S.I.C. Bldg., Colaba, Bombay.

Regional Director : N. Varma, M.A.

Dy. Regional Directors : B. D. Chopra; K. L. Gothi.

Asst. Accounts Officer : P. V. Chandrasekharan.

ALL-INDIA RADIO

101, Queen's Road, Bombay.

Station Director : K. S. Mullick.

Station Engineer : B. K. Harle.

Asstt. Station Directors : M. G. Vaidya; M. B. Nagarkar; Shree Singh "Shree".

Listener Research Officer : R. C. Banerji.

Assistant News Editor : K. H. Katekar.

Assistant Station Engineer : S. N. Kapur.

PROJECT OFFICE

Western Circle, Project Office, Planning and Development Unit, Kaiser-I-Hind Bldg., Currimbhoy Road, Ballard Estate, Bombay 1.

Project Officer : B. Y. Nerurkar.

Assistant Project Officers : R. A. P. Iyengar; K. G. Pendse.

Dy. Installation Engineer : A. C. Deb.

Asstt. Installation Engineers : P. Jayapal; H. S. Jolly.

DEFENCE FORCES

G.O.C., Bombay Area, Maj.-Gen. T. B. Henderson Brooks.

Commander, Bombay Sub-Area, Brig. Kamta Prasad.

Station Commander, I.A.F., Gp. Captain A. C. Lal.

Flag Officer, Rear Admiral B. S. Soman.

MEMBERS OF THE BOMBAY CORPORATION

P. T. Borale, *Mayor*.

The elections took place on 9th May, 1957. About 45 70 per cent of the electorate is estimated to have voted.

The party position arising from the elections was as follows:

Samyukta Maharashtra Samiti 68; Congress 55; Independents: 8 (Samiti 3, Congress 3).

The names of the parties that joined together to form the Samiti are given below. The first figure in brackets shows the number of seats contested, the second figure the number of seats won:

The Praja Socialist Party (32, 26); The Communist Party (16, 13); The Pro-Samyukta Maharashtra Congressmen's Conference (18, 8); The Scheduled Castes Federation (14, 12); Peasants and Workers (4, 3); Jan Sangh (5, 2); Revolutionary Communist Party (2, 1); Lal Nishan Gat (1, 1).

Independents 3.

The names of the wards and of the members are given below. The figures signify the number of voters in the wards.

COLABA: 23,380.

P. K. Kunte (P.S.P.—Samiti); Dr. S. R. Wadia (Cong.).

FORT: 21,028.

Bomanji K. Bomanbeheram (Ind.); Mrs. Shera N. Vajifdar (Cong.).

BORI BUNDER: 31,241.

Maumohansingh H. Bedi (Cong.); J. K. Joshi (Cong.); V. K. Tembe (P.S.P.—Samiti).

MANDVI: 28,573.

N. Y. Bandukvala (Cong.); J. B. Shah (Cong.).

DONGRI: 22,317.

Ibrahim M. I. Merchant (Cong.); Mohamed Y. H. U. Patel (C. P. I.—Samiti).

UMARKHADI: 33,002.

R. K. Chimbalkar (P.S.P.—Samiti); Ismail Khwaja Hussain (Cong.); S. M. Thakare (Cong.).

KHARA TALAO: 30,464.

I. A. Bandukvala (Cong.); M. A. Dhorajiwala (Ind.); G. M. F. M. Farid (C. P. I.—Samiti).

KUMBHARWADA: 33,097.

Dr. B. M. Dhabuvala (P.S.P.—Samiti); Dr. (Mrs.) Jayanti M. Mahlatura (Cong.); Dr. Nagindas N. Shah (Cong.).

MARKET: 35,792.

B. S. Pandye (Cong.); Dr. Shantilal G. Patel (P.S.P.—Samiti); Shevantilal S. Shah (Cong.).

DHOBI TALAO: 37,199.

B. L. Belose (P. W. P.—Samiti); B. V. Chauhan (Cong.); Mohanlal P. Parikh (Cong.).

FANASWADI: 33,691.

S. D. Palekar (P.S.P.—Samiti); G. M. Pendse (P. W. P.—Samiti); Dr. M. B. Popat (Cong.).

GIRGAUM: 35,772.

Dinker D. Desai (P.S.P.—Samiti); Dr. J. M. Lakhsani (Cong.); G. B. Mahashabde (C. J. P.—Samiti).

KHETWADI: 34,733.

Smt. Maniben Desai (Cong.); Dr. B. D. Khatutkar (P.S.P.—Samiti); Smt. Tara G. Reddy (C. P. I.—Samiti).

WALKESHWAR: 42,744.

Smt. Deviben S. Dalal (Cong.); D. V. Joglekar (C. J. P.—Samiti); P. S. Paralkar (P.S.P.—Samiti).

MAHALAXMI: 32,679.

S. S. Tavde (P.S.P.—Samiti); R. G. Mirashi alias Tukrul (C.J.P.—Samiti); D. D. Vanis (Ind.).

TARDEO: 40,135.

B. A. Dalal (Cong.); Dr. B. P. Divgi (C. J. P.—Samiti); V. S. Velinkar (P.S.P.—Samiti).

KAMATHIPURA: 30,248.

L. P. Pujari (Cong.); P. S. Pupala (C. J. P.—Samiti).

NAGPADA: 35,305.

M. Harris (P.S.P.—Samiti); V. S. Pagare (Ind.); K. M. Phaniband (Cong.).

MAZAGON: 33,159.

Milagres Dias (Cong.); R. B. Phale (S. C. F.—Samiti); M. T. Vairagi (Cong.).

BYCULLA WEST: 43,868.

C. H. Khare (S. C. F.—Samiti); Dr. R. N. Kulkarni (Cong.); M. N. Munshi (C. P. I.—Samiti); Gulam Nabi Haji Abdul Rehman (Cong.).

BYCULLA EAST: 34,279.

G. B. Ganacharya (C. P. I.—Samiti); B. B. Jadhav (S. C. F.—Samiti); B. D. Zute (P.S.P.—Samiti).

GHORAPDEO: 28,343.

K. L. Borkar (Cong.); Dr. V. K. Toraskar (C. J. P.—Samiti).

SEWREE: 32,457.

P. T. Borale (S. C. F.—Samiti); G. L. Patil (C. P. I.—Samiti); P. D. Shigvan (P.S.P.—Samiti).

LALBAUG: 32,247.

K. G. Desai (R. C. P. I.—Samiti); T. K. Sarmalkar (C. P. I.—Samiti).

PAREL: 26,993.

M. V. Donda (P.S.P.—Samiti); Dr. S. S. Rao (Cong.).

NAIGAUM: 52,278.

Y. S. Goad (P.S.P.—Samiti); S. M. Upadhaya (Cong.); Dr. R. B. More (C. P. I.—Samiti); G. T. Parmar (Ind.); S. B. Mahadeshwar (Cong.).

MATUNGA: 26,577.

Dr. T. B. Divekar (Ind.—Samiti); N. D. Mehta (Cong.).

SION: 33,661.

D. D. Deshpande (Ind.—Samiti); R. K. Ganatra (Cong.); M. Madhavan (P.S.P.).

LOVE GROVE: 55,075.

S. D. Chiplunkar (S. C. F.—Samiti); S. S. Mirajkar (C. P. I.—Samiti); Dr. A. D. Narde (P.S.P.—Samiti); Sardar Pratap Singh Laxmidas (Cong.).

LOWER PAREL: 32,044.

R. K. Bhogle (C. P. I.—Samiti); R. G. Kharat (S. C. F.—Samiti); S. B. Pawar (P.S.P.—Samiti).

WORLI: 46,624.

N. M. Kamble (S. C. F.—Samiti); P. K. Kurane (C. P. I.—Samiti); V. B. Worlikar (Cong.); M. N. Kavte (Lal Nishan—Samiti).

PARBHADEVI: 40,702.

Dr. V. S. Ranadive (C. J. P.—Samiti); Dr. W. S. Matkar (Cong.); B. B. Ashayya (S.C.F.—Samiti); J. M. Patil (C. P. I.—Samiti).

DADAR: 45,780.

V. P. Bapat (C. P. I.—Samiti); Smt. Charushela Gupte (C. J. P.—Samiti); Dr. D. S. Munagekar (P. S. P.—Samiti); Dr. N. P. Shah (Cong.).

MAHIM: 56,322.

P. D. Bhatia (Cong.); Prof. Ram Joshi (P.S.P.—Samiti); Dr. V. A. Castellino (Ind.); S. S. Gaikwad (S. C. F.—Samiti); M. A. Khadvali (Ind.—Samiti).

BANDRA EAST: 45,512.

G. S. Bagwe (P.S.P.—Samiti); V. N. Desai (Cong.); Smt. M. S. Jhabvala (Cong.); L. M. Thakur (Cong.).

BANDRA WEST: 34,590.

S. R. Patkar (Cong.); J. S. Pereira (Cong.); S. S. Varde (P.S.P.—Samiti).

ANDHERI-VILE PARLE SOUTH: 35,296.

N. D. Patkar (P.S.P.—Samiti); Dr. A. M. Shah (Cong.); P. H. Vora (Cong.).

ANDHERI-VILE PARLE NORTH: 51,307.

B. S. Dhume (C. P. I.—Samiti); B. S. Patil (P.S.P.—Samiti); V. G. Baval (Cong.); R. K. Singh (Cong.).

KURLA: 52,177.

Dr. R. N. Sawant (Ind.—Samiti); B. B. Kamble (S. C. F.—Samiti); Shaikh Mohamed Nabi Abdul Hafiz Khan (Cong.).

CHEMBUR: 37,805.

R. B. Ahuja (Ind.); V. A. Khanolkar (P.S.P.—Samiti).

GHATKOPAR: 46,408.

B. S. Dighe (Ind.—Samiti); Dr. M. M. Joshi (Cong.); P. U. Upadhaya (Cong.).

MALAD-GOREGAON: 43,815.

G. B. Kanitkar (J. S.—Samiti); H. R. Mehta (Cong.); D. V. Mahant (P.S.P.—Samiti).

BORIVLI-KANDIVLI: 37,405.

H. W. Chogle (Cong.); Dr. N. R. Karode (J. S.—Samiti); S. A. Modi (Cong.).

MULUND: 15,293.

K. V. Thakkar (Cong.).

Standing Committee

Dr. B. P. Divgi (*Chairman*), B. S. Dhume, S. S. Gaikwad, M. Harris, Ismail Khwaja Hussain, Ram Joshi, C. H. Khare, V. A. Khanolkar, Dr. R. N. Kulkarni, H. R. Mehta, Dr. R. B. More, Dr. D. S. Munagekar, Mohanlal P. Parikh, G. M. Pendse, J. S. Pereira, Smt. Tara Reddy, Dr. N. P. Shah, *Chairman, Education Committee* (B. S. Dhume), *Ex-Officio*.

Improvements Committee

M. Madhavan (*Chairman*), B. B. Ashayya, V. P. Bapat, D. D. Deshpande, R. K. Ganatra, R. G. Kharat, Dr. J. M. Lakhsani, S. B. Mahadeshwar, D. V. Mahant, I. M. Merchant, S. D. Palekar, M. Y. H. Patel, Dr. Bhal S. Patil, Pratsingh Lakshmidas, J. B. Shah, Dr. V. K. Toraskar.

Education Committee

B. S. Dhume (*Chairman*), Dr. B. M. Dhabuvala, Gulam Nabi Haji Abdul Rehman, Prof. (Smt.) Charushela B. Gupte, J. K. Joshi, N. M. Kamble, G. B. Kanitkar, P. S. Paralkar, G. T. Parmar, S. S. Varde, P. H. Vora, V. B. Worlikar.

Non-Councillor members:

S. S. Desnavi, Smt. Tara P. Kher, Smt. Lilyben A. Pandya, P. S. Rodkar.

PRINCIPAL MUNICIPAL OFFICERS

Municipal Commissioner for Greater Bombay, V. L. Gidwani, I.O.S.
Dy. Municipal Commissioner (General), J. K. Daruvala, B.A. (Hons.), A.S.A.A., A.C.A., J.P.
Dy. Municipal Commissioner (Improvements), S. M. Y. Sastry, M.A., B.L.
Dy. Municipal Commissioner (Suburbs), R. C. Raval, I.A.S.
Consulting Engineer, N. V. Modak, C.I.E., B.E. (Bom.), M.Inst.C.E. M.I.E. (India), M.E.San.I. (Eng.).
City Engineer, K. B. Carnac, B.E. (Civil), M.I.E.
Dy. City Engineer (Suburbs), D. S. Thakur, B.E. (Civil), A.M.I.E. (Ind.).
Public Health Engineer, S. V. Desai, B.E.
Drainage Engineer (Maintenance), V. G. Lele, B.E. (Mech.).
Asst. Engineer, 1st Grade (Maintenance), V. K. Chitale, B.E. (Civil), A.M.I.E.
Asst. Engineer, 1st Grade (Construction), M. N. Subandh, B.E., A.M.I.E.
Asst. Engineer, 1st Grade (Housing), N. K. Gandhi, B.E. (Civil), A.M.I.E.
Asst. Engineer, 1st Grade (Extended Suburbs), D. C. Palekar, B.E. (Civil).
Asst. Engineer, 1st Grade (Mechanical), V. R. Gadre.
Architect, Greater Bombay, G. G. Sathe, A.R.I.B.A., A.I.I.A.
Asst. Engineer, 1st Grade (Construction) for Drainage, B. M. Shah, B.E.
Asst. Engineer, 1st Grade (Building), O. Soares, B.E. (Civil).
Asst. Engineer, 1st Grade (Planning), V. L. Ghangurde, B.Sc., B.E., LL.B.
Asst. Engineer, 1st Grade (Suburbs), D. B. Bhise, B.E., A.M.I.E.
Sr. Asst. Engineer (Suburbs), P. J. Darukhanawala.
Hydraulic Engineer, J. D. Daroga, B.E., M.I.E., M.I.C.E.
Senior Asst. Engineer, Water Works, H. M. Barafwala, B.E.
Asst. Engineer, 1st Grade, Water Works, M. A. Nentim, B.E. (Civil), A.M.I.E. (India).
Executive Health Officer, Dr. G. N. Kowshik, M.B.B.S., B.N.Y., D.P.H., D.T.M. & H.
Dy. Executive Health Officer, Dr. R. B. Fondekar, M.B.B.S.
Dean, K.E.M. Hospital and G. S. Medical College, Dr. S. V. Jogekar, M.B.
Dean & Supdt., B. Y. L. Nair Charitable Hospital & Topiwala National Medical College, Dr. L. Montello, M.D.
Medical Superintendent, Municipal General Hospital, Sion, Vacant.
Medical Superintendent, Arthur Road Hospital, Dr. J. K. Thanawalla, M.D., F.C.P.S.
Medical Superintendent, R. P. T. B. Hospital, Sewree, Dr. M. S. Kavarana, M.B.B.S., D.M.B. (Cambridge), F.D.D. (Wales).
Dean, Nair Hospital Dental College, Lamington Road, Dr. H. D. Merchant, D.M.D., F.I.C.D.
Chief Accountant, Municipal Head Office, G. V. Damle, G.D.A.
Test Audit Officer, Municipal Head Office, N. V. Malik, G.D.A.
Chief Officer, Fire Brigade, Byculla, S. G. Vengsarkar, B.A., M.I. Fire E.
Solicitor to the Corporation, Vacant.
Assessor & Collector, Municipal Head Office, I. N. Mehta, B.A.
Controller of Stores, Franklin D'Souza, B.E.
Transport Superintendent, A. M. Albuquerque L.M.E.
Superintendent of Gardens, Victoria Gardens, G. S. Hegde, B.A.
Election & Town Duty Officer, V. G. Sabnis, B.E. (Civil).
Superintendent of Licences, C. K. Patel, M.A.
Insecticide Officer, V. R. Subramani.
Chief Inspector, Shops & Establishments, N. M. Haocma, B.A.
Estate Agent & Land Manager, D. D. Dawalbhakta, B.E. (Civil), A.M.I.E.
Education Officer, Smt. Kapila Khandvala, B.A., B.T., M.A. (U.S.A.).
Research Officer, Dr. (Smt.) Madhuri Shah, B.A., B.T., M.Ed., Ph.D. (Bom.), Ph.D. (Lond.).
Labour Officer, Smt. Freney A. Irani, B.A., LL.B.
Public Relations Officer, N. A. Mistri, M.A.
Ward Officer (City), S. E. Gurn.
Manager, Municipal Printing Press, Vacant.
Municipal Chief Auditor, R. V. Damanla, B.Com., G.D.A., A.S.A.A.
Editor, "Bombay Civic Journal", U. G. Rao, B.A.
Municipal Secretary, A. P. Wagle, B.A.
Municipal Analyst, Dr. V. Sadashivan, B.Sc. (Ag.), M.Sc., A.I.I.O.
Municipal Medical Examiner, Dr. Mangaldas Shah, M.D.
Personal Assistant to the Municipal Commissioner, M. B. Bondre, M.A.
Assistant Municipal Commissioner, S. G. Rodkar, B.Sc., LL.B.
Supervising Medical Officer, Dr. Smt. V. S. Kalewar, M.B.B.S., F.C.P.S.

SUBURBAN OFFICE (MERGED AREAS)

Wairfield Road, Bandra.

The entire administration of Suburbs and Extended Suburbs has been placed under the control of the Deputy Municipal Commissioner (Suburbs).
Dy. Municipal Commissioner, R. C. Raval, I.A.S.
Dy. City Engineer (Suburbs), D. S. Thakur, B.E. (Civil), M.I.E.
Assistant Engineer, Water Works (West), T. V. Boravke, B.E. (Civil).
Assistant Engineer, Water Works (East), V. M. Patkal, B.E. (Civil).
Dy. Executive Health Officer, Dr. R. B. Fondekar, M.B.B.S., B.N.Y.
Asst. Supdt. of Licences, Shops & Establishments, N. J. Alvares, M.A., LL.B.
Assistant Accountant (Suburbs), Y. S. Phadnis.
Asst. Supdt. of Markets (Suburbs), V. G. Sukhtankar, B.A.
Dy. Assessor & Collector (Suburbs), Sayed Hussein Sayed Sultan.

MUNICIPAL SECRETARY'S OFFICE

Municipal Secretary, A. P. Wagle, B.A.
Dy. Secretary, K. I. Lalani, B.A. (Hons.), LL.B.
Asst. Secretary (Sr.), P. P. Laud, B.A. (Hons.).
Asst. Secretary (Jr.), R. M. Murdeshwar.
Assistant Secretary (Jr.), A. M. Daruvala.

CHIEF AUDITOR'S DEPARTMENT

Municipal Chief Auditor, R. V. Damanla, B.Com., G.D.A., A.S.A.A. (Lond.).
Deputy Municipal Chief Auditor, Yeshwant Hari Shende, G.D.A.

ENGINEERING DEPARTMENT

Municipal Office Annex, 2nd and 3rd Floors, Cruickshank Road, Bombay 1.

The activities of the Department are of a multifarious nature and consist of—

(1) Supervision of private building construction, (2) Disposal of City's sewage and refuse, (3) Construction, Maintenance, Lighting and Watering of public streets and improvement of private streets, (4) Construction and maintenance of drains and sewers, (5) Provision of parks and open spaces for recreation purposes, (6) Designing and construction of new public buildings for the Corporation and repairs and maintenance of existing Municipal buildings, (7) Maintaining a Municipal Workshop, (8) Slum Clearance, (9) Preparation of Development Plan for Greater Bombay and (10) Repairs and maintenance of municipal vehicles and transport.

It is under the control of the City Engineer who is assisted by a Public Health Engineer, a Dy. City Engineer, twelve 1st Grade Assistant Engineers and one 1st Grade Architect.

The various works comprising the Vaitarna-cum-Tansa Scheme as well as the works relating to improving the distribution system of water in the City, etc. are in charge of a 1st Grade Engineer who has his Central Office in Municipal Head Office Extension Building, 3rd Floor.

Consulting Engineer, N. V. Modak, B.E. (Civil), M.I.C.E., M.I.E. (Ind.), F.E.San.I. (Eng.), etc.

City Engineer, K. B. Carnac, B.E. (Civil), M.I.C.E., M.I.E. (India).
Public Health Engineer, S. V. Desai, B.E. (Civil), A.M.I.E. (Lond.), A.M.I.E. (India), Diploma in Town Planning (Lond.).

Dy. City Engineer, D. S. Thakur, B.E. (Civil), A.M.I.E. (Ind.).
Senior Asst. Engineer (City Main—Improving the Distribution System), R. V. Abreu, B.E. (Civil), A.M.I.E. (India).
Asst. Engineer, Construction (Vaitarna Camp), S. S. Mankar, B.E. (Civil), A.M.I.E. (India).

Asst. Engineer (Embankment and Pipeline), L. G. Dhayagude, B.E. (Civil), A.M.I.E.

Assistant Engineer, 1st Grade (Maintenance Branch), V. K. Chitale, B.E. (Civil).

Assistant Engineer, 1st Grade, Construction (Drainage), B. M. Shah, B.E. (Civil), 11nd Class.

Assistant Engineer, 1st Grade (Housing), N. K. Gandhi, B.E. (Civil), A.M.I.E., Diploma in Town Planning.

Assistant Engineer, 1st Grade (Planning), D. B. Bhise, B.E. (Civil), A.M.I.E. (India).

Architect, Greater Bombay (1st Grade), G. G. Sathe, A.R.I.B.A.
Assistant Engineer, 1st Grade (Construction), Vacant
Drainage Engineer (Maintenance), V. G. Lele, B.E. (Mech.), B.E. (Elec.), etc., etc.

Development Officer, 1st Grade, B. B. Godambe, B.E. (Civil), A.M.I.E.
Senior Assistant Engineer, Town Planning (Mandvi), L. S. Kadoo, B.Sc., B.E. (Civil), A.M.I.E., L.S.G.D.

Assistant Engineer, 1st Grade, Zone I, P. J. Darukhanawala, B.E. (Civil), A.M.I.E., L.S.G.D.

Assistant Engineer, 1st Grade, Zone II, D. D. Dawalbhakta, B.E. (Civil).

Assistant Engineer, 1st Grade, Zone III, D. C. Palekar, B.E. (Civil).
Transport Superintendent, A. M. Albuquerque, L.M.E., L.B.E., Grad. I.B.E.

Planning Branch—Engineers

G. Naganna, B.E. (Civil), M. S. Nerurkar, B.E. (Civil), R. B. Dubhashi, B.E. (Civil).

Town Planning and Factory Section—Engineers

Assistant Engineers, Town Planning—M. A. D'Souza, B.E. (Civil), C. Soares, B.E. (Civil).

Assistant Engineers, Factory, E. J. Kambatta, B.E. (Civil), Y. H. Munshi, B.E. (Civil).

Suburban Ward Engineers

B. S. Dandekar, B.E. (Civil); S. S. Iyer, B.E. (Civil); D. B. Sawai, B.E. (Civil); G. B. Buttl, B.E. (Civil); A. S. Sutarwala, B.E. (Mech.), A.M.I.E.; R. G. Kulkarni, B.E. (Civil); S. H. Mhatre, B.E. (Civil); R. L. Amar, B.E. (Civil); M. B. Sanjana, B.E. (Civil); P. V. Tahil Ramani, B.E. (Civil); A. B. Farmanand, B.E. (Civil); M. N. Ranade L.M.E. (Hons.), A.M.I.E.; Hasham Kanji, B.E. (Civil); R. D. Jaisinghani, B.E. (Civil).

Maintenance Branch

Assistant Engineer, Maintenance (Personnel), I. F. Pathan, B.E. (Civil).
Divisional Engineers, C. G. Zope, B.E. (Civil); P. P. Khejotla, D.C.E. (Poona); F. J. Wadiwala, B.E. (Civil); P. M. Atre, D.C.E. (Poona); P. S. Deo, B.E. (Civil); J. R. Chafbar, B.E. (Civil); K. A. C. Peer-mahomed, C.E. (Civil) (Notts.); A. V. C. N. Examination; D. S. Deshpande, B.E. (Civil); C. D. Bapat, B.E. (Civil).

Construction Branch

Divisional Engineers, N. B. Balsara, L.S.E., A.M.I.E.E. (London), M.E.San I. (England); N. V. Joshi, D.C.E., A.M.I.E.E.; B. H. Bhogani, B.Sc., B.E. (Civil); G. A. Prabhu Chimbalkar, B.E. (Civil); T. K. Sartokey, B.E. (Civil).

Housing Branch

Divisional Engineer, S. D. Kale, B.E. (Civil).

Buildings Branch

Divisional Engineers, H. K. Mithiborwalla, B.E. (Civil); A. R. Waigankar, B.E. (Civil); F. J. Balsara, L.S.E.; C. L. Mirchandani, B.E. (Civil); S. M. Postwala, B.E. (Civil), A.M.I.E.E.; N. L. Patel, B.E. (Civil); P. M. Ramani, B.E. (Civil); P. V. Bhide, C.S.E.

Drainage Branch

Divisional Engineers, V. R. Parulekar, B.Sc. (Elec. & Mech.), Final Grade Exam. in Electrical Engineering; D. V. Muzumdar, L.S.E., L.S.G.D.; A. B. Jadhav, L.S.E.; N. R. Rane, B.E. (Elec. & Mech.).
Supdt. & Chemist, Dadar Purification Works, L. P. Borkar, B.Sc.
Asstt. Accountant, 1st Grade (Vaitarna-cum-Tansa Scheme), D. R. Pimpalkhare, B.Sc.

Office Superintendent (City Engineer's Office), B. G. Kulkarni, B.A. (Hons.).

Office Superintendent (Vaitarna-cum-Tansa Scheme), B. B. Pandit.
Office Superintendent (City Engineer's Office), L. N. Balndur.
Office Superintendent (Suburban Office, Bandra), B. Y. Chandrachud.

Mechanical, Electrical & Transport Branches

Assistant Engineer (Designs), Mechanical, V. R. Gadre, B.Sc. (Mech. & Elec.).

A. E. Electrical, B. D. Dani, B.E. (Elec.).
A. E. Transport (City), K. R. Shanbhag, D.M.E.
A. E. Transport (Suburbs), V. H. Bhadbhade, B.Sc. (Eng.).
Workshop Supdt., F. A. H. Attarwala, B.E. (Mech. & Elec.).

Drainage Construction—Engineers

P. R. Bhide, B.E. (Civil), M.E. (P.H.); **V. H. Gumaste**, B.E. (Civil); **N. G. Shahane**, B.E. (Civil); **M. N. Chitoy**, M.S.C.E. (Okda), L.S.E., etc.; **G. F. Khambatti**, B.E. (Civil).

MECHANICAL ENGINEER'S DEPARTMENT**Municipal Workshops, Bombay 8**

Asstt. Engineer, Designs (Mechanical), Vasudeo Raghunath Gadre.
Asstt. Engineer (Electrical), Bhagwant Dattatray Dani.
Workshop Superintendent, Fakhraddin Abdulhusen Attarwala.

TRANSPORT DEPARTMENT**Municipal Workshops, Bombay 8**

Transport Superintendent, Albert Marius Albuquerque.
Asstt. Engineer, Transport (City), Kundapur Ramchandra Shanbhag.
Asstt. Engineer, Transport (Suburbs), Vinayak Hari Bhadbhade.

WATERWORKS DEPARTMENT**Municipal Office Extension Bldg., Cruickshank Road, Bombay 1**

The head of the department is the Hydraulic Engineer. He controls and regulates water-supply to the City and maintains all waterworks both inside and outside the City.

Hydraulic Engineer, J. D. Daroga, M.Sc. (Lond.), B.E., M.I.E., A.M.Inst. C.E., A.M.I.Mech.E., M.I.P.R.E., M.E.S.E., D.I.C. (Lond.).

Senior Asstt. Engineers, H. M. Barafwala; M. A. Nentim.

Assistant Engineers, Charles D'Mello; M. N. Gundappa; N. F. Madon; T. M. Kandawala; M. N. Panday; V. J. Mistry; A. F. Khan; T. V. Boravke; D. D. Mehta; V. M. Patki; K. S. Pesina; K. D. Hardikar; E. A. Shabaskar; A. Coutinho; S. L. Parab.

Garden Supervisor, D. B. Carnac.

Office Superintendent, S. B. Dalvi.

CITY IMPROVEMENT DEPARTMENT**Municipal Offices, Dr. Dadabhai Naorji Road, Bombay 1**

By Act XIII of 1933 the City Improvement Trust was amalgamated with the Municipality and all properties belonging to the Trust were vested in the Corporation. Land Management is looked after by the Estate Agent and Land Manager's Department. It is also responsible for acquiring properties for slum improvement or Street Schemes, disposal of developed lands, preparation of development plans, management of acquired buildings, ex-Trust permanent Chawls and semi-permanent sheds and temporary letting of vacant lands.

Deputy Municipal Commissioner (Improvements), S. M. Y. Sastry, M.A., B.L.

Estate Agent and Land Manager, V. L. Ghangurde, B.Sc., LL.B., B.E.

Deputy Estate Agent and Land Manager, D. N. Kagai, B.Sc., B.E., A.M.I.E., A.M.I. Surveyors (India).

Assistant Estate Agent (Special), H. M. Vaidya, B.E. (Civil).

Assistant Estate Agent (Acquisition), P. A. Umrigar, B.E. (Civil), A.M.I.E.

Assistant Estate Agents, E. V. Alkonde, L.S.E.; Sk. Ahmed Abdul-kadar, L.S.E.; R. S. Patil, B.E. (Civil); M. G. Navalkar, L.S.E.

CITY ENGINEERS DEPARTMENT : CONSERVANCY BRANCH**Municipal Office Annsao, Cruickshank Road, Bombay 1**

Head Supervisor, P. D. Thakur.

Standards Officer, S. A. Wagle.

Assistants to Head Supervisor, S. P. Mahajan (City); D. E. Warkar (Suburbs).

Ward Offices (City)

A Ward (South), N. S. Walavalkar; **A Ward (North)**, K. R. Bondse; **B Ward**, R. M. Nalk; **C Ward**, M. N. Talim; **D Ward**, V. B. Pansare; **E Ward (East)**, V. G. Pendse; **E Ward (West)**, B. P. Joshi; **F Ward (North)**, S. N. Nalk; **F Ward (South)**, D. V. Thorat; **G Ward (South)**, R. H. Shukla; **G Ward (North)**, S. K. Sahnis; **G Ward (Central)**, M. P. Gadkari; **Mahalaxmi Siding**, J. M. Adani; **Supervisor, Chawls, Southern Division**, U. G. Lad; **Supervisor, Chawls, Northern Division**, P. K. Joshi; **Senior Veterinary Inspector**, B. M. Phatarphod.

Suburbs

Supervisor, H Ward, Bandra, A. K. Sha.

Supervisor, K Ward, Andheri, K. V. S. Iyer.

Supervisor, Kuria and Chembur, M. S. Paradkar.

Supervisor, N and T Wards, Ghatkopar and Mulund, G. S. Dere.

Supervisor, P and R Wards, Malad and Borivli, Thomas D'Souza.

BOMBAY VACCINATION DEPARTMENT**Near Parel Tram Terminus**

Ag. Superintendent—S. G. Pansare. **Head Clerk**—M. G. Khare.
Head Vaccinator—S. S. Thakur.

Vaccination in the City of Bombay is performed with preserved lymph free of charge as under, between 8 and 10-30 a.m.

Monday—(1) Municipal Marathi School, opposite Moyal Masjid, Inamwada Road, Umerkhadl. (2) Municipal Marathi School, A Building, Shroff Wadi, Mount Road, opp. Post Office, Mazagon. (3) New Municipal Marathi School, Land Mill Compound, Victoria Bunder Road. (4) Wadia Dispensary, Heetaladevi Temple Road. (5) Municipal Gujarati Central School, above Bhuleshwar Market. (6) Madhavrao Rokde School, Mandvi (Temp.).

Tuesday—(1) Municipal School, opposite Round Temple, Null Bazar, Kumbharwada. (2) Municipal Marathi Boys' and Girls' School, near Tram Junction, Lalbaug, Parel. (3) Nagpada Neighbourhood House, No. 109, New Nagpada Street, near Old Parel Statue. (4) Infant Welfare Centre, Deltale Road, B.D.D. (Chawl No. 31). (5) Municipal Marathi School, 784, Haines Road. (6) 50, Worli B.D.D. (Chawl).

Wednesday—(1) Municipal Gujarati Girls' School, 31, Nagdevi Street. (2) Municipal Marathi School, 48, Clerk Road, near Jacob Circle Post Office, opposite Bomanji Pettit's Mill. (3) Municipal Dispensary at B.D.D. (Chawl No. 45, First Pakhadi, Worli). (4) Municipal Dispensary, Mulji Bhuwan, Sewree New Road. (5) Municipal Marathi Boys' School at the Junction of Kandewadi and Girgaum, 173, Girgaum Road. (6) Municipal Marathi Boys' School, No. 119, Dady-sheth Aglary Lane, Fanaswady.

Thursday—(1) Gratuitous Dispensary, Ravellin Street, Hornby Road, Fort. (2) The District Registrar's Office, No. 8 District, Batliwala's Dharamshala, corner of Balarum Street and Foras Road. (3) Opp. Vilthoba Temple, Wadala. (4) Municipal Gujarati School, Dharavi, Kumbharwada. (5) Municipal Marathi School, near Tardeo Tram Terminus. (6) Souter Street, District Registrar's Office, No. 7. (7) J. J. Hospital out-patients Department, Babula Tank Road.

Friday—(1) M. N. Pettit's Charitable Dispensary, opposite Wilson High School, Khetwadi Main Road. (2) General Educational Institute's Boys' School, Akshiker Street, South of Tilak Bridge, Dadar. (3) Municipal Marathi School, Ghorapdeo Road, Mazagon. (4) Napu Hall, Telang Road, Matunga, Central Rly. (5) Infant Welfare Centre, Nalgauam. From 3 p.m. to 5-30 p.m. (6) Chinch Bunder Marathi Boys' School. (7) Ranganga P. V. St., 17, Ranganga Road.

Saturday—(1) Shankershet's Temple, Nana's Chowk, Tardeo Road. (2) Jafferbhoy Rahimtulla Urdu School, Sandhurst Road, Umerkhadl. (3) Municipal Dispensary, New Parbhadevi Road and Cadell Road Junction. (4) Infant Welfare Centre, Wadi Bunder, Port Trust (Chawl, Belvedere Road). (5) Municipal Dispensary, Parel Tank Road, Ambewady. (6) Worli Koliwada Municipal Hindi School, Worli. (7) Antop Hill, Sitaram Prakash High School. (8) 50, Worli B.D.D. Chawl. (9) Infant Welfare Centre, Deltale Road.

Sunday—(1) Seth Warjivandas Madhavdas Charitable Dispensary, near Railway Station, Slon. (2) Balmohan Vidyalaya, Shivaji Park (Temporary).

Daily—(1) Central Vaccination Depot, Junction of Elphinstone Road and Superibag Road, Polbhavi, Parel from 7-30 a.m. to 5-30 p.m. (2) Sanitary Institute, Princess Street, Dhobi Talao, from 8 to 10-30 a.m. and 2-30 to 5-30 p.m. only. (3) Arthur Road Hospital, from 4 p.m. to 6 p.m.

For further particulars with respect to Vaccination at private residences, apply to the Superintendent of Vaccination, Dadar Main Road, Poibavdi, Parel. Telephone No. 60902.

Lymph can be obtained on cash payment at (a) the Central Vaccination Office, Suparibag Road, Parel between 8 a.m. and 5 p.m. on week days and from 8 a.m. to 10 a.m. on holidays; (b) The Municipal Laboratory, Opp. Victoria Terminus, from Monday to Friday between 11 a.m. and 5 p.m. and Saturdays from 11 a.m. to 1-30 p.m. except holidays.

The Public can vaccinate at their own houses at a charge.

The following are the vaccination stations in the suburbs of the Greater Bombay area :

Andheri Municipal Office ; Bandra Municipal Office ; Kurla Municipal Office.

Danda Village ; Khar P.V. ; Ghatkopar M.O.

K. B. Bhabha Hospital, Kurla ; Chimbai P.V., Bandra.

Chunabhatti, Kurla ; Santa Cruz General Hospital, Ghodbunder Road, Santa Cruz.

Vile Parle M.O. ; Bazar Ward P.V., Kurla.

Chembur Camp ; Kalina Village.

Sewa Sangh Dispensary ; Municipal Dispensary, Agra Road, Bhandup.

Chembur Dispensary.

Township Colony, Chembur, Ghatkopar Road.

Stations in Extended Suburbs

Malad P.V. Station : Seth Nahachand Laluchand High School, 18, Ghodbunder Road.

Goregaon Dispensary : Topiwala Municipal Free Dispensary, Goregaon (West).

Mulund Dispensary : Mulund Municipal Free Dispensary, Mahatma Gandhi Road, Mulund.

Kandivli P.V. : Seth Mathuradas (Gordhandas Charitable Dispensary, G. B. Road, Kandivli.

Dahisar : Municipal Marathi School, Village Road.

Borivli Municipal Office : Office of Medical Officer of Health, Municipal Dispensary, Near Rly. Station.

Marvey Dispensary : Choksey Municipal Free Dispensary, Marvey Road.

THE LICENCE DEPARTMENT

Improvement Trust Building, 7, Napier Road, Fort, Bombay 1

This department deals with licensing, control of advertisements, control of hawkers and the removal of encroachments. For licences the city is divided into 18 sections each under an Inspector. For advertisements the city is divided into 7 sections also under Inspectors. The whole branch is under a Superintendent of Licences with two Assistants.

There are five Ward Offices for licences and advertisements, viz. A Ward : 7, Napier Road ; Wards B and C : Guxar Street, Null Bazar ; D Ward : Gowalla Tank, Bombay 7 ; E Ward : Sankli Street ; Wards F and G : Riphinstone Road.

There is one Senior Inspector in each Ward Office.

There are two Ward Offices namely Null Bazar and Sankli Street, for the control of hawkers and removal of encroachments respectively. Senior Supervisor (Wards) and Senior Supervisor (Lorries) are respectively in charge of these offices.

The office of the Suburban Section of the Licence Department is situated at Waterfield Road, Bandra. The Ward Offices of the Licence Section are situated at Santa Cruz and Kurla and the Encroachment Ward Office at Pall Hill Market, Bandra.

Superintendent of Licences, C. K. Patel, M.A., LL.B.

Asst. Superintendent of Licences, J. S. D'Souza.

Asst. Superintendent (Encroachment), A. A. Munshi, B.A. (Hons.).

Asst. Superintendent of Licences (Suburbs), N. J. Alvares, M.A., LL.B.

THE ASSESSMENT AND COLLECTION DEPARTMENT

Municipal Offices, Dr. Dadabhai Naoroji Road, Bombay 1

There is a central office and seven ward offices (A to G) for the City, and a Central office at St. Martin's Road, Bandra and 6 ward offices (H, K, L and M, N and T, P, and R) for the suburbs. The Department is concerned with the determination of rateable values and the preparation of bills in respect of property taxes, wheel tax, water tax, etc. and their recovery.

The addresses of the Ward Offices are as follows :—A Ward : Improvement Trust Bldg., Napier Road, Fort ; B Ward : Babula Tank Road ; C Ward : 298-300, Princess Street ; D Ward : Gowalla Tank Road ; E Ward : Sankli Street ; F and G Wards : Near Municipal Market, Elphinstone Road ; H Ward : Waterfield Road, Bandra ; K Ward : Nehru Road, Vile-Parle ; L and M Wards : Pipe Road, Kurla ; N and T Wards : Jawahar Road, Ghatkopar ; P Ward : Ghodbunder Road, Goregaon (West) ; R Ward : Ghodbunder Road, Borivli.

Assessor and Collector, I. N. Mehta, B.A.

Dy. Assessor and Collector (City), N. S. Shirodkar, B.A. (Hons.).

Dy. Assessor and Collector (Suburbs), Sayed Husein Sultan.

Asst. Assessors and Collectors, R. K. Desai, B.A. ; A. S. Tipnis ; S. D.

Araa ; G. N. Gokhale ; P. K. Mungekar ; D. M. Kharkar ; P. R. Bhatkhande, B.A. (Hons.).

SHOPS AND ESTABLISHMENTS DEPARTMENT

Improvement Trust Building, 7, Napier Road, Fort, Bombay 1

The department sees to the administration of the Bombay Shops and Establishments Act of 1948 and since 1-4-1955 to the Payment of Wages Act, 1936 so far as establishments covered under the Bombay Shops & Establishments Act are concerned. It is under a Chief Inspector. The department is also responsible for the levy and collection of theatre tax. There are eight Ward Offices, viz. Ward A : Improvement Trust Bldg., 7, Napier Road, Fort ; B and C Wards : 1st Floor, Crawford Market ; D and E Wards : Fire Brigade Compound, Gowalla Tank ; Ward F : Central Vaccination Station, Parel ; Ward G : Dhuru Hall, Chabildas Road, Dadar.

Chief Inspector, Nathan Manasseh Haccums, B.A.

Dy. Chief Inspector, Syed Kutbuddin Kadri, M.A., LL.B.

Senior Inspectors, Shivsharan Gordhandas Patel, B.A., LL.B. ; Gulam Mohd. Kara Ravat, B.A. ; Kamalakar Atmaram Karnik, M.A., LL.B. ; Ranjiv Anant Pal, B.A. ; Abdul Razak Mohd. Siddique Patel, B.A., LL.B. ; Nassim Abraham Reubens, B.A., LL.B. ; Marcus De-Souza-Lousado, B.Sc. ; Krishnarao Ramrao Valdaya, M.A., LL.B.

Junior Inspectors, Kamruddin Mohamedbhoj Merchant, M.A., LL.B. (Working in Extended Suburbs at present) ; Narhar Ramchandra Patankar, M.A., B.Sc. ; Madhusudan Dattatraya Ranadive, B.A. ; Dattaram Bhau Mayekar, B.A. ; Damodar Ganesh Patwardhan, B.A. ; Nazarali Musahaqueali Syed, M.A., L.S.G.D. ; Narasinha Gajanan Rege, M.A. ; Balkrishna Maganlal Trivedi, B.A. (Hons.) ; Kamruddin Ahmed Mulla, B.A. ; Shrikrishna Dattatraya Bendre, LL.B. ; Jafarali Hassanali Merchant, B.A. ; Eknath Venkoji Bangnekar, B.A. ; Dattatraya Lakshman Kalsunkar, B.A. ; Nivrutti Dhalaji Bhandare, B.A. ; Ramchandra Raghunath Desai, B.A. (Bom.), L.S.G.D. ; Dwarkanath Martand Pradhan, B.A. (Hons.) ; Jamshed Cowasji Engineer, B.A. (Bom.) ; Vasant Raghunath Sarang, B.A. (Hons.) ; Waman Vishwanath Jogekar, M.A.

THEATRE TAX SECTION

Senior Inspector, Rutton Hormasji Pastakia, M.A.

Junior Inspectors, Vasant Putlaji Desai ; Keshav Krishnaji Vaidhampayan, L.S.G.D.

MARKETS AND SLAUGHTER HOUSES DEPARTMENT

Crawford Market, Dr. Dadabhai Naoroji Road, Bombay 1

There are 73 markets in Greater Bombay out of which 44 are the property of the Municipal Corporation while the rest are owned by private individuals and licensed by the Corporation.

These markets are called upon to handle enormous quantities of daily necessities of life like fruits, vegetables, meat, fish, poultry, provisions, etc., etc., for the local consumption as well as for trade purposes.

A cold storage plant is maintained at the Arthur Crawford Market which is one of the biggest markets in the city. A lift is also provided in the Fish Section of this market for conveyance of fish consignments.

The scope of Municipal control extends to general supervision, sanitation, food-inspection, collection of rents and fees, licensing, repairs, replacements, etc., etc.

The Corporation also maintains a number of slaughter houses, the prominent being the Bandra and Kurla Slaughter Houses, the Pork Slaughter House and the licensed Jhatka Slaughter House at Arthur Road. Meat is conveyed to city markets by Municipal motor meat convoys.

An elaborate system of meat inspection, which includes ante- and post-mortem examination, grading and stamping of carcasses, rejection and destruction of unwholesome meat, etc. is regularly carried out by the Meat Inspection Service, consisting of qualified Veterinary officers engaged by the Corporation.

There is a special staff employed to detect the smuggling of animals and contraband meat and unauthorised slaughter.

Superintendent of Markets and Slaughter Houses, Dr. Victor Perliyan.

Asst. Superintendent of Markets (Suburbs), V. G. Sukhtankar.

Senior Assistant, Bandra Slaughter House, Dr. S. A. Malandkar.

Chief Inspector, Vacant.

THE STORES DEPARTMENT

Central Stores : 566, DeLisle Road, Byculla ; Sub-Depot : Bellasis Road, Byculla

The Department purchases articles, stores, etc. required by the Corporation.

Controller of Stores, Franklin D'Souza, B.E. (Civil), A.M.I.E.

Dy. Controller of Stores (Technical), K. A. Mehta, B.E. (Mechanical), B.E. (Electrical).

Dy. Controller of Stores (General), D. S. Nagarkatti.

Assistant Controller of Stores, D. R. Albal.

Assistant Controller of Stores (Tech.), E. V. Nunes, B.A., LL.B.

MUNICIPAL FIRE BRIGADE

*Headquarters : Byculla Bridge, Telephone No. 011, 6 lines;
(for fires and accidents only).*

76111-2-3 Direct Lines.

*Chief Officer, Fire Brigade : S. G. Vengarkar, B.A., M.I. Fire E.
Deputy Chief Officers : Capt. Syed Mehmudahah (City) : A. K. Y.
Siddiki, B.A. (Hons.) (Suburbs).
Second Officer, V. G. Pawar.
Additional Second Officer, S. Fredilla.*

Fire Brigade Stations.

*Headquarters, Byculla Bridge :—Officers : P. T. Samant, B.Sc.,
S. V. Shiltri ; S. M. H. Desai, B.Sc. ; A. S. Mahajan.
Alexandra Docks, Frere Road :—Officers : L. S. D. Meherwanjee ;
G. N. Shetgeri, B.Sc.
Gowalla Tank, Gowalla Tank Road, Gamdevi :—Officer : R. B.
Karma.
Sewree, Cotton Depot, Sewree :—Officer : B. G. Sawant.
Fort, Gunbow Street, Fort :—Officers : V. B. Nikam, B.Sc. ; B. D.
Borude.
Colaba, Lala Nigam Road, Colaba :—Officer : R. R. Rao, B.Sc.
Shivaji Park, 2nd Shivaji Park Road :—Officer : M. N. Nalk.
Andheri, Ghodbunder Road :—Officers : N. V. Chitnis, B.Sc., A. S.
Kulkarni.
Dadar, Vincent Road :—Officer : N. A. Khatib, B.Sc.
Memonwada, Sardar Vallabhbhai Patel Road East :—Officers :
S. M. Udlawar, E. M. Jacob, G. A. H. Qurelahi, B.Sc.
Mandvi, Sardar Vallabhbhai Patel Road : Officer : B. V. Wagle, M.Sc.
Worli, Annie Besant Road :—Officer : V. V. Valdia, Jr., B.Sc.*

MUNICIPAL FIRE BRIGADE AMBULANCE SERVICE

Fire Brigade Headquarters, Byculla, Bombay No. 8.

*Ambulance Services for Maternity Cases (Free).
Ambulance Services for Street Accidents (Free).
Ambulance Services for all other medical cases (Rs. 6 for the first
hour or fraction thereof and Rs. 3 for each succeeding ½ hour or
fraction thereof within the Greater Bombay limit and Rs. 10
for first hour or fraction thereof and Rs. 5 for each succeeding
half hour or fraction thereof—tolls and other charges extra—
outside the limits of Greater Bombay).
Hours of work :—24 hours.
Telephone No. 011 for street accidents.
Telephone No. 76111, for other purposes.*

MUNICIPAL HOSPITALS

*Dean, Govardandas Sunderdas Medical College and King Edward VII
Memorial Hospital, Dr. N. V. Joglekar, M.S., F.C.P.S. (Bom.).
Medical Supdt., Arthur Road Hospital, Dr. J. K. Thanawala, M.D.,
F.C.P.S.
Medical Supdt., Group of T. B. Hospitals, Sewri, Dr. M. S. Kavarana,
M.B.B.S., L.C.P.S., D.M.R.E. (Cam.), T.D.D. (Wales).
Dean and Supdt., Bai Yamunabai L. Nair Charitable Hospital and
Topiwala National Medical College, Dr. L. Monteiro, M.D.
Dean, Nair Hospital Dental College, Dr. H. D. Merchant, D.M.D.,
F.I.C.D.
Supdt., Municipal General Hospitals, Sion, Vacant.*

PRIMARY EDUCATION DEPARTMENT

Municipal Offices, Fort, Bombay 1

*The Education officer is the executive Officer of the Department
subject to the general supervision and control of the Commissioner
and the Education Committee. Under the Education Officer there
are Superintendents entrusted with the inspection of schools. There
are at present 544 Municipal Schools and 84 classes conducted by the
Education Dept. and 390 Aided and Recognised Schools to which the
Education Dept. gives grants and recognition. The total number
of pupils in all the Primary Schools in Greater Bombay is 3,75,126
out of whom 2,75,984 are in Municipal Schools and 99,142 in
Aided and Recognised Schools.*

*Education Officer, Smt. Kapila T. Khandwala, B.A., B.T. (Bom.), M.A.
(U.S.A.), J.P.*

THE GARDENS DEPARTMENT

Victoria Gardens, Bombay 37

*The Corporation maintains a number of gardens, bandstands,
public parks and rockeries in the traffic islands of the city ; in all
there are 114 sites in the care of the Gardens Department within
the city limits and 20 sites in the suburbs. The principal Gardens
are the Victoria Gardens, the Sir Pheroshabhai Mehta Gardens and
Kamala Nehru Park on Malabar Hill, the Children's Park along Ridge
Road, the Joseph Baptista Gardens on the Bhandarwada Reservoir
on the Masagaon Hill. In all there are 85 gardens, 9 small gardens
and open spaces, 58 recreation grounds, 14 play-fields, 4 fountains,
5 Strips of Box Hedges and 9 traffic islands. Among the playgrounds
the most important are the Mustan Shah Tank, the Reynolds Road,
the Willingdon Memorial Playgrounds and the playground at 2nd
Peer Khan Street. They are provided with gymnasium apparatus.
An Akhada or Wrestling Pit has also been provided at the Willingdon
Playground at Souter Street.*

Superintendent, Municipal Gardens, G. S. Hegde.

Asst. Superintendent (Zoo), Municipal Gardens, B. R. Phanse.

Asst. Superintendent (Bot.), Municipal Gardens, F. D. Irani.

ELECTION BRANCH (ELECTION AND TOWN DUTY DEPT.)

Improvement Trust Building, Napier Road, Bombay 1

*The election branch of the Election and Town Duty Department
attends to the work of compiling and publishing the Municipal
Election Roll and conducting the Municipal General Elections every
four years.*

*The work of preparing the supplementary Election Roll every year
and holding By-elections whenever necessary is also attended to
by this branch.*

Election and Town Duty Officer, V. G. Sabnis, B.E.

B.E.S.T. UNDERTAKING

*General Manager, R. C. Joshi, I.C.S., J.P.
Deputy General Manager, G. V. Karve, M.Sc., A.M.I.E.E. (Lond.),
M.A.I.E.E., Chart. Elec. Engr.
Secretary, D. S. Venkataraman, F.C.C.S.
Commercial Manager, M. C. Chudawala, G.D.A., A.C.A.
Controller of Stores, Vacant.
Chief Engineer (Supply), T. S. Rao, B.E. (Mech.), M.I.E. (India),
M.I.E.E. (Lond.).
Internal Auditor, N. E. Italia, B.Com.
Distribution Engineer, K. Matthan, B.A. (Madras), B.Sc. (Lond.).
Services Engineer, M. B. Lukmani.
Chief Accounts Officer, Vacant.
Traffic Manager (Trams), J. M. Gandevia.
Traffic Manager (Buses), C. D. Jeffereis.
Engineer-in-Charge (Way & Works), S. K. Banerji, C.E. (Roorkee),
A.M.I.E. (Ind.).
Superintendent, Consumer's, B. J. Dastur, A.M.I.E. (India).
Legal Adviser & Solicitor, R. S. Gavankar, B.A. (Hons.), LL.B.
Personnel Officer, F. P. Fernandes, B.A. (Hons.).
Public Relations Officer, J. D. Joglekar, LL.B.*

BOMBAY CHRISTIAN BURIAL BOARD

Sewri Cemetery, Bombay 15

*V. L. Gidwani, I.C.S. (Municipal Commissioner), Chairman.
K. Matthan, B.A., B.Sc. (Eng.), Honorary Secretary, BEST House,
Fort, Bombay.
H. V. Laughlin, and T. C. Falcao, Cemetery Clerks, Sewri
Cemetery, Bombay 15.*

OTHER MEMBERS.

*The Venerable the Archbishop of Bombay.
The Chaplain of St. Thomas' Cathedral.
The Minister, the Church of Scotland.
The Chaplain of Byculla.
The Chaplain of Holy Name Church, Wodehouse Road.
The Chaplain of St. Anne's Church, Masagaon.*

ELECTED MEMBERS.

J. S. Ferreira, B.A., B.Sc.

*The members of this Board are nominated by the three recognised
Christian Communities, for the management of Sewri Cemetery, viz.,
the Roman Catholic Church, the Church of India, Burma and Ceylon
and the Church of Scotland. The Board has certain powers which
include the licensing of Undertakers, Agents, Sculptors and
Tomb Builders.*

HONORARY PRESIDENCY MAGISTRATES AND JUSTICES OF THE PEACE FOR GREATER BOMBAY

Shalome Abraham, Jaswantlal Varjivandas Agashiva's, Shrimati Deena Ahmedullah.

Anant Narayan Bagwe, Shrimati Meenakshi Dattaprasanna Bakhle, Anant Sakharan Bakre, Dalip Singh Bakshi, S. Benjamin, Siambal Harilal Bhagwati, Dr. Labbhankar Ambashanker Bhatt, Dr. Suryakant Jethalal Bhatt, Major Nussurwanji Pirojshah Billimoria, Dr. Madhav Narayan Birje, Janandhan Ganpatrao Bodhe, Binubhai Labbhankar Bhatt.

Thiruvilvamala Venkatakrishna Chidambaram.

Nalini Shantaram Dahannkar, Shrimati Tarunka Venilal Debejia, Ladbhai Shrirang Desai, Madhusudan Bhalla Desai, Shapur Fredun Desai, Dattatraya D. Deshpande, Vaman Hari Deshpande, Dr. Khanderao Anandao Dhatryawan, Rusi Cooverji Doodhmal, Phiroz Darabshaw Dutash.

Manmohan Purushottam Gandhi, H. D. Gaoker, Yeshwant Arjoonrao Gole, Dr. Arsene Gomes.

Pestonji Cawasji Hansotia, Dr. Mohan Vasudeo Hindlekar.

Dr. Ganpat Vishram Jadhav, Hindurao Bhaskarrao Jadhav, Natwarlal Bhimbhai Jagirdar, Shrimati Indira Purushottam Joshi, Keshavlal Dalpatram Joshi, Shrimati Sushila Dattatraya Joshi.

Dattatraya Nagesh Kale, Tribhuvan Damodar Kanara, Babubhai Motilal Kapadia, Gopaladas Padamsy Kapadia, Dr. Gangadhar Subroo Koppikar, Krishnarao Moreswar Kotasthane, Dr. Mansukhlal Chotalal Kothary, Atmaram Narayan Kothare, Prashotan Sorabji Kuka.

Behram Kalkobad Marban, Rustom Phirozeah Marban, Dr. Homi Shapurji Mehta, Jaswantray Ghanshyamray Mehta, Rama Rao Venkat Rao Melmane, Shrimati Sulochana Mohanlal Modi, Dr. J. I. C. Moraes, Balkrishna Manikrao Mulgaonkar, Phiroze Rustomjee Mullafoose, Saradchandra Bhavanji Maheshwari, Mitrasen Gajanan Mahimtura.

Dr. Balkrishna Ramchandra Nayen, Shrimati Kamala Vishnu Nimkar, Vishnu B. Nimkar, Dattatraya Ganesh Nimkar.

Narshibhai Jhaverbhai Patel, Dr. Raghubhai Maranlal Patel, Jehangir Jamshedji K. Pateli, Balkrishna Parashuram Phatak, Shrimati Leelabai Vitthal Phadke, Shrimati Manorama Gangadhar Phadke, Dr. (Shrimati) Champulal Dattatraya Pradhan, Pratap Bhogilal, Pratapsinh Shoorji Vallabhdas, Dr. Gajanan Dinkar Purandare, Dr. Narayan Raghunath Purandare.

V. V. Ranade, Janardan Mahadeo Rane, Shrimati Lila Mastakar Rele, Shrimati Bridget Leo Rodrigues.

Shrimati Nirmala Manohar Samarth, Amersey Odhavji Sanghvi, Ramanlal Gokaldas Saraiya, Bhikaji Bhujangrao Sardeshpande, Gajanan Waman Sethe, Shrimati Khorsheed Minocher Sethe, Bhogilal Chimanlal Shah, Chunilal Jhaverchand Shah, Harshavadan Jivanlal Shah, Motichand Gautamchand Shah, Narandas Mohanlal Shah, Abdul Hussain Karam Shaikh, Hassan Shaikh, Shrimati Sarala Jayachandra Sheth, Shanishchandra Chimanlal Sheth, Sahadeo Sitaram Shivatarkar, Bhalkhandra Raoji Sunker Sett.

Jayantilal Kalyanlal Thakore, Chanderas Meghji Mathradas Toprani, Dattatraya Trimbak Talwalkar, Callan Dattatraya Vaidya, Vaman Pandlik Varde.

Shrimati Avabai Bomanji Wadia, Laxmikant Narayan Welinkar, Hari Abaji Yevale.

JUSTICES OF THE PEACE (OFFICIALS)

(WITHIN AND FOR THE LOCAL AREA COMPRISED IN GREATER BOMBAY)

Abraham, Shalome; Acharekar, Rajaram Kashinath; Adnani, Lachmandas Lilaram; Adenwalla, Nariman Dadabhai; Adivarekar, Shankar Hari; Aga, Jamshed Burjor; Agarwal, Gopaladas Tulsiaram; Agashiwala, Jaswantlal Varjivandas; Ahirekar, Anant Vitthal; Smt. Deena Ahmedulla; Ahuja, G. S.; Ahuja, Kumari Kamala Jesaram; Aitran, Dr. J. W.; Alycr, Subbarayar Srinivas; Akahikar, K. G.; Ambalal, Kilachand; Ambardekar, Dr. G. S.; Amrelwala, Gulamhusein Aliibhai; Amrolia, Jal Dhanjishaw; Anandkar, Kumari Pirojbal; Anklesaria, Dr. Dhiraajlal Tribhuvan; Annigeri, Shrimati Sitabal; Ansari, Abdul Hamid; Antia, Gustasp Pirojshaw; Apte, Shrimati Manorama Laxman; Arolkar, Dharamraj Mahadeo; Arora, Ratanlal Mohanlal; Arailwala, Abdul Hussain Esaji; Awar, Sayaji Bhujaji.

Badami, Jayantilal Surchandra; Bagwe, Anant Narayan; Bakhle, Shrimati Meenakshi Dattaprasanna; Bakre, Anant Sakharan; Bakshi, Dalip Singh; Bakshi, Ramprasad P.; Balsara, Jal Phiroze; Bandookwala, Bahakhal Abbasbhai; Banerjee, Shilp Chandra; Banker, Shrimati Lilavati Dhiraajlal; Banerjee, Shrimati Sarla Gopalchandra; Bapat, Vasant V.; Barodawalla, Abdul Haseen Salehboy; Barve, Parashuram Mahadeo; Barve, Raghunath Dattatraya; Bastikar, Kumari Tara Ramkrishna; Bawla, Ismail Mohomed; Baxi, Dr. Kantilal Madanlal; Bedi, Avtar Singh Harnam Singh; Benjamin, S.; Bhabha, Cooverji; Hormasji; Bhagwat, Kumari Durga N.; Bhagwati, Shamal Harilal; Bhansali, Dr. Kantilal Malukchand; Bharucha, Adam Musa; Bharucha, Maneckshaw Dossabhai; Bhatt, Dinubhai Labbhankar; Bhatt Kamalkant Kantilal; Bhatt, Dr. Labbhankar Ambashanker; Bhatt Dr. Suryakant Jethalal; Bhate, M. G.; Bhatekar, Dr. M. K.; Bhatt, Prabhashankar Ramchandra; Bhat, Bhaskarbbhai Jamnadas Narotamdas; Bhlipodiwalla, Minocher Cawasji; Bhise, Shrimati Sushilata Dattatraya; Bhlwandiwalla,

Ardeshr H.; Bhooorath, Dr. Vitthal Rajaram; Bhoole, Shankarrao Dhondiram; Bhujpuria, Khimji Madson; Billimoria, Shrimati Dhanbai Kalkhuroo; Billimoria, Major Nussurwanji Pirojshah; Birje, Madhav Narayan; Birla, Rameshwar Das; Bobade, Pandurang Baburao; Bodhe, Janardhan Ganpatrao; Brown, James Alexander.

Cama, Muncherji Nussurwanji; Captain, Meherwanji Cursetji; Chainani, Dr. Satrandas Khushchand; Chandavarkar, Ganesh Laxman; Chandavarkar, Smt. Vatsalabai; Chaphkar, Shrimati Manorama Krishnaji; Chapei Dwarkadas; Chaturbhuj, Gordhandas Valabhadas; Chaves, Joseph; Chheda, Shivji Nathoo; Chellaram, Lokumal Kishinchand; Chidambaram, Thiruvilvamala Venkatakrishna; Chikhalikar, A. N.; Chinal, Babubhai Maneklal; Chitnis, Dr. Vasant Keshav; Chogle, Hirvijay Waman; Chudasaama, Shrimati Manharakuberbal Mansinhji; Contractor, Framroz Sorabji; Cooper, Peshotan Framji; Crasto, Justin Beml; Currimbhoy, Shrimati Zarina Ebrahim.

Dabholkar, Laxmikant Shantaram; Dahanuval, Shrimati Nalin, Shantaram; Dalal, Shrimati Deviben S.; Dalal, Jayant Shivial; Dalal, Merwanji Nadirsha; Dani, Jamubhai Vallabhdas; Daruwalla, Jal Khurshedji; Dater, Dr. K. K.; Dave, Bhailshankar Prabhshankar; Dave, Hirralal Aditram; Dawalla, Vithaldas Giridharlal; Dayal, Shrimati Babiben Mulji; Dayal, Khatau Gordhandas; Debejia, Shrimati Tarunka Venilal; Desai, Dr. Amul Maganlal; Desai, Chandrakant Mohanlal; Desai, Ganpatishankar Naranj; Desai, Hasmukhbhai Maganlal; Desai Krishnaprasad Chotalal; Desai, Dr. Ladbhai Shrirang; Desai, Madhusudan Bhalla; Desai, Shrimati Maniben N.; Desai, Shrimati Nirmala Dhanvantrai; Desai, Shapur Fredun; Desai, Vishnuprasad Nandral; Deshpande, Dattatraya D.; Deshpande, Madhav Krishna; Deshpande, Waman Hari; Devatia, Shrimati Jollyben Harshidbhai; Dewjee, Gulamhussain Haji Ahmed; Dhairayawan, Dr. Khanderao Anandao; Dhalia, Burjor Dadabhai; Dharamdas, Hargovandas; Dhebril, Dr. Revikant Purushottam; Dhole, Dattatraya Amrit; Dhorajiwalla, Mohamed-sallil Aliji; Divgi, Bhavanishankar Padmanabh; Diwan, Govind Shrinivas; Doodhmal, Rusi Cooverji; Doshi, Dr. Dhirubhai Vallabhi; Dossa, Jamnadas Ramdas; Dubash, Bomanji Ardeshr; Dubash, Phiroz Darabshaw; Dubash, Rustomji Darabshaw.

Ebrahim, Ramzanally Peermohamed; Engineer, Hormasji Jehangirji.

Fazalbhoy, Mohamed Akbar; Fazalbhoy, Mohammadali Gulamali; Fazalbhoy, Yusufali Abdulla; Fazalbhoy, Hussein Alimohamed; Ferreira, Dominic Joseph.

Galkwad, Krishna Kalu; Gandhi, Himatlal Varjivan; Gandhi, Karandas Mohanlal; Gandhi, Manmohan Purushottam; Gandhi, Dr. Nallikant Mulchand; Gandhi, Navnitil Mohanlal; Gandhi, Pravinchandra Varjivan; Gandhi, Ratilal Mulji; Gandhi, Wadilal Chaturbhuj; Gandhi, Adi Peshotan; Gaonkar, Gangadhar Kakasheh; Gaonkar, H. D.; Garware, Bhailchandra Digambar; Gawan- kar, Shantaram Yeshwant; Ghaswala, Harkishandas Laxmidas; Gheewala, Oshchhauil Harkishandas; Ghia, Shrimati Chanchalaben Maganlal; Ghose, Nirendra Nath; Gogate, Manohar Narayan; Gokhale, Shrimati Kamalini Keshav; Gokhale, Ramchandra Ganesh; Gokhale, Lal H. V.; Gole, Yeshwant Arjunrao; Gomes, Dr. Arsene; Gramopadhye, Dr. G. B.; Gubby, Nagu Shrinivas; Gumaste, Keshav Balwant; Gupta, Kanahyalal Harichand; Gupta, Tara- chand Khushiram; Gurjar, Narayan Pandurang.

Hafsa, Abdul Kader; Haji, Gulam Mohamed Ismail; Haji, Syed Aboo Mohamed; Hamied, Dr. K. A.; Hansotia, Pestonji Cawasji; Hansraj, Rattansey; Hardikar, Ramkrishna Kashinath; Harris, Moinuddin; Hate, Dr. (Shrimati) Chandrakala Anandao; Heredia, James Nathaniel; Herwadkar, Dr. B. V.; Hindlekar, Dr. Mohan Vasudeo; Hirnandani, Divanmal Hardasamal; Hirnan- dani, Dr. Lakhmal Hirnand; Hirlekar, Shrimati Yamunabai K.; Huthesing, Shrimati Krishna Gunotom.

Irabati, Laxman Balaji; Irani, Kalkhushroo Rustom; Ishar Singh, Daya Singh; Ismail, Shrimati Fathema; Ismail, Haji Hasham; Ismail, Mohamed Hassam.

Jadhav, Ganpat Vishram; Jadhav, Hindurao Bhaskarrao; Jagir- dar, Natwarlal Bhimbhai; Jain, Jaichand; Jaisabhai, Hassanally Casamali; Jalan, Ghanshamdas Kishanlal; Jalundhwala, Shrimati B. C.; Jambotkar, Gajanan Hari; Jasdenvalla, Abdullahbhai Adamji; Javeri, Narendra Mangaldas; Javeri, Navnitil Chunalil; Jawkar, Dattaram Baburao; Jayakar, Madhukar Vishwasrao Balaji; Jeevan- das, Kumari Prema; Jehangir, Smt. Hirabai Cawasji; Jhabwala, Shrimati Meherbanoo Shiwax; Jhaveri, Nanubhai Kanthadbbhai; Jeejeebhoy, Sir Jamsetjee; Jog, Ramchandra Ganesh; Joshi, C. B.; Joshi, Shrimati Indira Purushottam; Joshi, Jamiyatram Kashiram; Joshi, Keshavlal Dalpatram; Joshi, Dr. Mahadev Dattatraya; Joshi, Manishankar Devahankar; Joshi, R. B.; Joshi, Shrimati Sushila Dattatraya; Juvele, Yeshwant Mahadeo.

Kabraji, Dossabhai Hraji; Kadam, Narayan Dhondur; Kadav, Vishnupant Kashinath; Karkolikar, Ramchandra Sadoba; Kale, Dattatraya Nagesh; Kalidas, Shrimati Sulochana Amritlal; Kamdar, Bhagwandas Morarjee; Kamat, T. A.; Kanekar, Anant Atmaram; Kanhere, Dr. Laxman Hari; Kanji, Dwarkadas; Kanji, Jalsinh Vithaldas; Kanji, Purushottam; Kanara, Tribhuvan Damodar; Kapadia, Babubhai Motilal; Kapadia, Framrose Pestonji; Kapadia, Gopaladas Padamsy; Kapadia, Pranlal Sunderji; Kapadia, Ratansi Chapei; Karande, Shrimati Neera Yeshwant; Karandikar, Dr. M. A.;

Karanja, Nariman Kalkhuroo; Karnik, Dr. Hemant Ramkrishna; Karruven, Shrimati Yeshoda Mullyil; Katre, Shrimati Vimal Waman; Kavaran, Minocher Rustomji; Kelkar, K. R.; Kerkar, Dr. Vishwanath Mangesh; Kesharwalla, Hirji Keshavji; Khadilkar, Yeshwant Krishna; Khambata, Shrimati Mehru Kalkhushru; Khandalwala, Shrimati Dina Sorab; Khandelwal, Jankidas Bhikkilal; Khandelwal, Ramprasad Bhechand; Khandwala, Shrimati Kanta Dhirajlal; Khandwala, Kumari Kapilaben; Khandwala, Navinchandra Juliram; Khandke, Dattatraya Narahari; Khata, Dharamdas Bhogilal; Khata, Dharamsey Mulraj; Khatkhatay, Shaikh Muhammad; Khedekar, Chintaman Bhambuji; Kher, D. G.; Khetey, Abdulhussein Bedalbhoj; Khimji, Bhawanji Arjun; Khimji, Karandas Tulidas; Khira, Himmatlal Narahidas; Khopkar, Dr. Madhusudan Shankar; Khorakiwalla, Fakruddin Taherbhai; Kilachand, Tulidas; Kirkire, Shrimati Kusum Gopal; Kirpalani, Shrimati Gull Hiranand; Kolge, Kashiram Sakham; Koli, Narayan Chandra; Kooka, Minochar Darashaw; Koppikar, Dr. Gangadhar Subbarao; Kotasthane, Krishnarao Moreshwar; Kothare, A. N.; Kothari, Dhirajlal Girdharilal; Kothari, Jannadas Khimji; Kothari, Dr. Manukhlal Chotalal; Kothari, Ratilal Chimanlal; Kothari, Vaddil Aurtilal; Kothawala, Lt.-Col. Jamshed Dorabsha; Kshirsagar, Dnyandeo Shantaram; Kubal, Ankush Tukaram; Kudpi, Bhujangrao Nagayya; Kuka, Peshotan Sorabji; Kuka, Rustom Behram F.; Kulkarni, Gopal Ramchandra; Kulkarni, K. P.; Kulkarni, Dr. Ravindranath Narayanrao; Kulkarni, V. H.; Kulkarni, W. L.

Ladiwala, Jannadas Kherajbhai; Lalan, Ramji Ravji; Lalji, Virajlal Vasanti; Lalji, Gulam Hussein Habib; Latif, Mohamed Abdul; Lathi, Jayantilal Laxmidas; Lele, Bhaskar Viswanath; Loke, Gajanan Shankar.

Madhavan, M.; Madurkar, Balkrishna Vithal; Mafatal, Arvind Navinchandra; Magar, Dr. Shrinati Anjanabai Narhar; Mahadashwar, Sakhamar Babaji; Mahashabde, Govind Balkrishna; Maheshwari, Sharadchandra Bhavanji; Mahimtura, Dr. Mitrasen Gajanan; Mahindra, Harish; Maltra Jagadish Chandra; Makani, Ibrahim Abdulla; Makharla, Gangadhar Chattrabhu; Malelu, John Samuel Shamsunder; Mani, Ramsawmy Subramanian; Mankar, Jayantilal Naradilal; Marinder Singh, Mohinder Singh; Mariwala, Vallabhdas Vasanti; Marzban, Behram Kalkobad; Marzban, Rustom Phirozeah; Masani, Shrimati Dolly Pheroze F.; Masani, Minochar Rustom; Mashekar, Narayanrao S.; Mathalone, Reginald; Mathradas, Haridas; Mathuradas, Dwarkadas; Matkar, Dr. Waman Shankar; Mehdi, Rajabally Kasam; Meher-Homji, Dr. Dady Rustomji; Mehta, Dr. Chamanlal Maneklal; Mehta, Chhotubhai Keshavji; Mehta, Dara Sorabji; Mehta, Dhirajlal Lalshankar; Mehta, Dr. Homi Shapurji; Mehta, Jaswantray Ghanshyamray; Mehta, Manilal Vipul; Mehta, Markandral Balwantrai; Mehta, Navalchand Abhechand; Mehta, Ratilal Bachardas; Mehta, Surendra Maganlal; Melman, Rama Rao Venkat Rao; Merchant, Haji Mahomed Jamal; Merchant, Hanaraj Parshotam; Merchant, Haridas Nensey; Merchant, Dr. Jannadas Jagmohandas; Mhatre, Parshuram Atmaram; Minji, Yusuf; Mirani, Hanaraj Jivandas; Mistry, Rahim Karim; Mithawala, Bhailal Mohanlal; Mittal, Morarilal; Modak, Narayan Vinayak; Modi, Shrimati Jeebai Homi; Modi, Shrimati Sulochana Mohanlal; Modi, Surendra Manilal; Mogre, Shantaram Moreshwar; Mohamed Amin Mohamed Idris; Moraes, Dr. J. I. C. C.; Morakha, Kantilal Ishwarlal; Moraji, Gordhaudas Gokuldas; Morarka, Ratanlal Ramkumar; Motwane, Nanik Gyanchand; Mulgaonkar, Balkrishna Manikrao; Mullaferoze, Phiroze Rustomjee; Mydeo, Vasudev Govind.

Nadirsha, Erach Ardeshir; Nadkarni, Kumari Anusuya Mahadeo; Nagda, Laxmichand Gooerji; Nagwaker, Vishwas Mahadeo; Nalk, P. G.; Nalk, Dr. Ramrao Narayan; Nair, Govind Parmeshwar; Nanavati, Shrimati Maniben; Naravane, Kashinath Ganesh; Narotamdas, Dr. Gowardhandas Bhagwandas; Narsi, Muljibhai Vishram; Nathani, Sultan Aladin; Nathani, Sultan Karamlal; Navalkar, Kumari Malati Vinayak; Naven, Dr. Balkrishna Ramchandra; Nerurkar, R. S.; Nerurkar, Shrimati Sushila Digambar; Nikaljay, Shrimati Tarabai Ramchandra; Nimkar, Shrimati Kamala Vishnu; Nimkar, Dattatraya Ganesh; Nimkar, Vishnu R.; Nurie, M. Y.

Oak, Dr. Shridhar Vithal; Oke, B. Y.; Oza, Gubharubhai Jivabhai; Oza, Indravadan Mammoharai.

Pai, Nagmath Vasudeo; Pakvasa, Arvind Mangaldas; Pakvasa, Shrimati Purnima Arvind; Palaye, Padmanabh Shastri; Palekar, Gopal Pureshottam; Palkar, Dr. J. M.; Pandit, Atmaram Bhaskar; Pandey, Ramsahal Shloprasad; Pandya, Chandulal Shivram; Panju, Esmail Abdulkarim; Panwala, Dr. Manubhai A.; Parekh, Chimanlal Bapalal; Parekh, Khushaldas Kurji; Parekh, Nathalal Manekchand; Parikh, Dr. Ambalal C.; Parikh, Chimanlal Motilal; Parikh, Prof. G. D.; Parikh, Ramanlal Mohanlal; Parikh, Kumari Dr. Vidyaben C.; Parulekar, Anant Vithal; Patankar W. R.; Patel, Dahyabhai Shankarbhai; Patel, Dayabhai Vallabhbhai; Patel, Ishwarbhai Somabhai; Patel, Dr. Jal Ratanji; Patel, Jehangir Jamshedji K.; Patel, Narabhai Javerbhai; Patel, Dr. Nathobhai Dayaji; Patel, Pralhadbhai Keshavji; Patel, Pramukhlal Manilal; Patel, Dr. Raghubhai Maganbhai; Patel, Rustom Eduljee; Patel, Vallabhbhai Motibhai; Patil, Kanolkumar Gopal; Patkar, Dr. Shrirang Jagannath; Patkar, Sitaram Ramchandra; Patkar, Dr. Stanislaus; Patuck, Sorab N. C.; Patwa, Venilal Narotamdas; Patwardhan, Shrimati Dayabai; Patwardhan, Dr. Shivram Viswanath; Pavri, Home Framroze; Pavri, Dr. Hormusji Framroz; Pavri, Projshaw Framroz; Pavri, Dr. Ratanashah Kalkhushroo; Pawar, Nathuram Pandurang; Phadke, Dr. G. M.;

Phadke, Shrimati Leelabai Vithal; Phadke, Shrimati Manorama Gangadhar; Phatak, Balkrishna Parshuram; Pinto, Frederick Michael; Podar, Ghanshamdas Sitaram; Podar, Ramnath Anandilal; Poonger, Nasserwan Hormanji; Poonajiajee, Jehangir Jamshedjee; Popat, Dr. Mohanlal Bhavanbhai; Potia, Fidda Ali Mohamed Ali; Prabhudesai, Dr. V. K.; Pradhan, Dr. Shrimati Champabai Dattatraya; Pradhan, Shantaram Govind; Pratapsing, Mathuradas Visonji; Pratapsinh, Shoorji Vallabhdas; Premchand, Shrimati Tarabai Maneklal; Premji, Mohamed Hussain Hasham; Priyolkar, Anant Kakha; Pundole, Noshir Nowroji; Pupala, Narsingrao Chinappa; Purandare, Dr. Gajanan Dinkar; Purandare, Dr. Narayan Raghunath; Purandare, Dr. V. S.

Rahimtoola, Fazal Ibrahim; Rajji, Shrimati Jayashri; Raipelly, Dashrath Bapurao; Rajadhyaksha, Dr. Bhailchandra Hari; Rajadhyax, M. V.; Rajpal, Ghanshamdas Narandas; Ramdas, Kilachand Devchand; Ramalingam, A. C.; Ranade, V. V.; Rane, Janardhan Mahadeo; Rane, Dr. Jayanand Moreshwar; Rane, Shrimati Snehalata Ramrao; Rangoonwala, Zainulabidin Gulamhusain; Rao, Dr. Sulji Sanjiya; Rao, Dr. V. D.; Ratanchand, Hiranand; Ratanzhi, Mulji; Rattansey, Devji; Raval, Dr. Vasudeo Gulabram; Raw, Kavi Nadasih Jaganivas; Rege, P. S.; Rege, Shivram Dattatraya; Rele, Shrimati Leela Mastakar; Rodrigues, Leo; Rodrigues, Shrimati Bridget Leo; Rula, Raminwas Ramnarain; Rustomjee, Kumari Amy B. H. J.

Sabharwal, Harbans Singh Jodh Singh; Saifyuddin, Salehabhai Saheb; Said, Dr. Sayed Mohammed; Salebhoy, Abdul Kadar; Salla, Virji Narsi; Saivey, Gajanan Sadashiv; Salvi, Pandharinath Mahadeo; Samant, Narayan Daji; Samant, Shrimati Sharayu Shamrao; Samant, Dr. Yeshwant Atmaram; Samarth, Shrimati Nirmala Manohar; Samarth, Raghunath Narayan; Sanghvi, Amersey Odavji; Santos, John; Sapre, Dhondu V.; Sarang, Abdul Kadar Mohamed; Saraya, Shrimati Padmavati Ramanlal; Saraya, Ramanlal Gokaldas; Sardeshpande, Bhicaji Bhujangrao; Sathe, Gajanan Vaman; Savani, Maganbhai Nanjibhai; Savia, Hirji Ghelebbhai; Sayani, Shrimati Kulsam Jannmohmed; Sethna, Shrimati Hanu Pirozshah; Sethna, Shrimati Dina Kawaaji; Sethna, Shrimati Khursid Minocher; Sethna, Khushru Shivax; Sethna Ratan Shivax; Shah, Bhogilal Chimanlal; Shah, Chandulal Somalal; Shah, Chandulal Tribhuvandas; Shah, Chandulal Vardhaman; Shah, Chunnil Javerchand; Shah, Gambhirchand Omedchand; Shah, Gangji Devraj; Shah, Harshavadan Jeevanlal; Shah, Indulal Hirajal; Shah, Jivraj Bhaujo; Shah, Khushalbhaj Khengar; Shah, Laxmichand Lalji Ramji; Shah, Lakhamlal Ghelebbhai; Shah, Liladhar Pasoo; Shah, Madhavilal Hirajal; Shah, Mahendra Jivanlal; Shah, Motichand Gautamchand; Shah, Dr. Nagindas Nanamal; Shah, Narandas Mohanlal; Shah, Pannalal B.; Shah, Ratilal Dahyabhai; Shah, Shantilal Chunnilal; Shah, Shantilal Hirajal; Shah, Shantilal M.; Shah, Vithaldas Hakamchand; Shaikh, Abdulhussein Kasam; Shaikh, Hassan; Sharma, Jagdeo Shankar; Sharma, Kanti Mohanlal; Shavaksha, Shrimati Gook K. S.; Sheode, Shankar Krishna; Shete, Dattaram Ganpatrao; Sheth, Smt. Sarala Jaychandra; Sheth, Shantisandha Chimanlal; Sheth, Dr. Shantilal Chhaganlal; Shetye, Vasudeo Govind; Shindav, Dr. Baburao Nanasahab; Shivtarkar, Mahadeo Sitaram; Shivtarkar, Sitaram Namdeo; Sindgi, Razali Bandulsahab; Sinha, Hindeshwar Prasad; Sequiera, Dr. Victor Frederick; Sodha, Hirajal Tribhuvandas; Somaya, Gokuldas Velji; Songaonker, Savaram Gundaji; Soondardas, Morarjee; Mondagar, Gulamnabi Haji Abdul Rehman; Sovani, Shankar Vinayak; Sthalekar, Anant Sheshgiri; Subramaniam, K. G.; Sukhtankar, Sadanand Ramchandra; Sunkersett, Bhailchandra Raoji.

Taher, Mohamed Habibulla; Talwalkar, Dattatraya Trimbak; Tapuria, Motilal Mugutmal; Tata, J. R. D.; Tata, Naval Hormusji; Thacker, Ramji Lavji; Thackersey, Krishnaraj Madhavjee Damodar; Thackersey, Shrimati Premilla Vithaldas; Thakare, Mahadeo Mukund; Thakore, Jayantilal Kalyanray; Thakore, Kantilal Motilal; Thakur, Maheshwar Vishnu; Thar, Shantilal Liladhar; Tope, T. K.; Tripathi, Ramratan Ayodhyaprasad; Trivedi, Harishkumar Narbeshankar; Tulla, Vishwanath Rajanna; Tyejee, Dawoodkhan Salebhoy; Topraul, Charandas Megji; Trilokekar, Shrimati Manorama K.

Upadhyaya, Pureshottamdas Uttamram.

Vagal, Dr. Shrimati Sumati Balaram; Vahalla, Hariakuh Harilal; Vaidya, Balkrishna Narayan; Vaidya, Shrimati Bhanumati Murarji; Vaidya, Callan Dattatraya; Vaidya, Murarji Jadavji; Vaidyanathan, Lalagadi Swaminath; Vakharia, Dwarkadas Haridas; Vakharia, Maniklal Nathabhai; Vakil, Vasantram Jamlatram; Valji, Huseinbhoy Alibhoj; Vallabhdas, Persi; Varadkar, Parshuram Vishwanath; Varde, Vaman Pundalik; Vartak, Dr. Pureshottam Gajanan; Vatcha, Rustom Sorabji; Vazifdar, Shrimati Shera Noshir; Vaziralli, Nazirhussein; Velinkar, Vasant Shrikrishna; Vengarkar, Dr. Sawlaram Ganpatrao; Vengarkar, Shrimati Sumatilal Sawlaram; Verma, Mangaldas Nandlal; Vora, Chhotalal Bhailchand; Vyas, Mulshankar Hirji.

Wadia, Shrimati Awabai Bomanji; Wadia, Jamshed Bomanji; Wadia, Neville Ness; Wadia, Dr. Sarosh Ratanji; Wagh, Waman Vasudeo; Waghchourey, D. P.; Walavalkar, Shrimati Lalitprabha Vasudeo; Walkatti, Sidram Tipanna; Wellinkar, Laxmikant Narayan; Worlikar, Vasudeo Balkrishna.

Yagnik, Shrimati Pramila Bhanushankar; Yevale, Hari Abaji; Yusuf, Abdul Rahman Mohamed.

RAILWAY PERSONNEL IN BOMBAY

BOMBAY PORT TRUST RAILWAY

Manager, J. N. Adagga, B.A.
Assistant Managers, H. A. Mirza; D. H. S. Basur, M.A.; N. P. Bapat, B.A. (Hons.), LL.B.
Assistant Managers (Junior), J. A. Vaz, B.A.; H. J. Kajadia.

CENTRAL RAILWAY

Office :—Victoria Terminus, Bombay

Open 5,635 miles—Bombay Harbour Branch and Mahim Connection Chord Line, Bombay to Allahabad, Rhusawal to Nagpur, Kalyan to Balchur, Itarsi to Nagpur, Amle to Parasia, Itarsi to Agra, Bhopal to Ujjain, Bina to Katni, Bina to Baran, Baran to Kotah, Jhansi to Kanpur, Jhansi to Manikpur, Ait to Kunch, Dhond to Manmad, Palasdhari to Khopoli, Kuria to Mankhurd, Chalisgaon to Dhulia, Salemb to Khamgaon, Badnera to Amroli, Wardha to Balharshah, Majri to Rajur, Agra to Okhla, Murtijapur-Kilichpur, Murtijapur-Yeotmal, Pulgaon-Arvi, Dhond-Baramati, Matheran Hill, Pachora-Jamner, Manmad to Secunderabad, Secunderabad to Dronachellam, Mudkhed to Adilabad, Purna to Hingoli, Nizamabad to Bodhan, Parbhani to Puri-Vajinath,* Dornakal to Singareni Collieries, Dornakal to Bhadrachellam Road, Wadi to Secunderabad, Secunderabad to Kasipet, Kasipet to Beswada, Kasipet to Balharshah, Kurduwadi-Latur, Kurduwadi-Miraj, Ujjain-Agar, Gwalior-Shivpuri, Gwalior-Shivpuri-Kalan, Gwalior-Bhind, Dholpur-Mohari, Mohari-Sarhutra, Mohari-Tantpur.

* Vikarabad to Puri-Vajinath.

GENERAL MANAGER'S OFFICE

V.T., Bombay

General Manager, Radhe Bihari Lal, M.Sc.
Senior Deputy General Manager, D. P. Mathar, M.Sc.
Secretary to the General Manager, K. V. Pandit, B.A. (Hons.).
Statistical Officer, K. Sambamurthy.
Safety Officer, E. J. Simoes, B.Sc. (Hons.).
Compilation Officer, G. D. Joseph, B.A.
Public Relations Officer, B. Natarajan, M.A.
Assistant Public Relations Officer, B. B. Manelkar, B.A.
Assistant Secretary (Complaints), A. P. Iyengar, B.A., LL.B.
Assistant Secretary (General), N. P. Joshi.
Assistant Deputy General Manager, R. H. Bendre.

PERSONNEL ORGANIZATION

Chief Personnel Officer, V. V. Bhide, M.A. (Cantab.).
Dy. Chief Personnel Officer, A. R. Sundara Rajan, M.Sc.
Personnel Officers, B. G. Ketker (Engineering); Y. N. Trehan, M.A. (Transportation); P. R. Chopra (Headquarters); H. V. Samuel, B.A. (Hons.) (Labour & Welfare); Lachmandas, B.A., LL.B. (Commercial); V. K. Laroia, B.Sc., A.M.I.M.E. (Mechanical); R. N. Chatterjee (Reservation).

ENGINEERING DEPARTMENT

Bombay Division (Headquarters).

Chief Engineer, Bombay, G. Visvanathan, B.E., A.F.P.W.I.
Engineer-in-Chief, V. H. Sathe, B.E., B.Sc. (Eng.), Hons. Lond. Dip., N.C. (Lond.), M.I.E. (Ind.), Fellow, P.N. Inst.
Deputy Chief Engineers, Bombay, M. I. Chhaya, B.E. (Hons.), A.M.I.E. (India), A.M.A.S.C.E., F.P.W.I. (Headquarters); S. Wahabuddin Ahmed, B.Sc., A.M.I.E., A.R.O.I. (South); F. X. Lobo, B.E., F.P.W.I. (Construction); P. Govinda Rao, B.Sc. (Hons.) (Lond.), A.F.P.W.I. (Central); D. G. Divgi, B.E., A.M.I.E. (India), F.P.W.I., (North); K. Sitaraman, B.E. (Hons.), A.M.I.E. (India), A.M.A.S.C.E., F.P.W.I., M.A.C.I. (Projects); K. K. Rao, B.E., A.M. Struc. E. (Bridges).
Track Supply Officers, E. S. M. Carlos, B.E., A.F.P.W.I.; T. S. Rajagopal, M.P.W.I.
Personnel Asst. to Chief Engineer, F. X. A. Nazareth, B.E.
Executive Engineer, Khandwa-Hingoli Construction, R. M. Ogale, B.E.
Divisional Engineers (BB), G. A. Sheriff, B.E.; N. Sivaramakrishnan, B.E.
Executive Engineer, Special Works at Kuria, A. A. Rego, B.E.

OPERATING DEPARTMENT

Head Office (Bombay), Victoria Terminus.

Chief Operating Superintendent, Vacant.
Deputy Chief Opty. Superintendents, Mohd. Faquuddin, B.com. (Leads), Bar-at-Law, F.R.E.S. (Lond.) (Coaching); N. Y. Manohar, B.E. (Goods).
Divisional Superintendent (Goods), D. C. Mathias, M.A.
Divisional Opty. Superintendent (Coaching), S. Ramaswamy.
Divisional Opty. Superintendent (Planning & Projects), F. Da Costa, B.A., M.Sc.

Bombay Division

Divisional Supdt., P. B. Albara, B.A., B.Sc., A.M.I.E. (Ind.).
Divisional Opty. Supdt. (Movement), T. V. Srinivasan, B.Sc.
Divisional Personnel Officer, E. P. Mathias, M.A.
Divisional Mechanical Engineer, Anand Prakash, A.M.I.M.E.

COMMERCIAL DEPARTMENT

V.T., Bombay

Chief Commercial Superintendent, R. K. Bokil, B.E.
Dy. Chief Commercial Superintendent, V. Ramanathan, B.Sc. (General).
Divisional Commercial Superintendents, Arjun Pershad, B.com. (Developments); S. P. Ranganathan, B.A., M.Sc. (Refunds (Rates)); B. S. Rana, B.A. (Hons.) (General); B. V. Nadkarni (Catering); B. S. Tyagi (Claims Prevention).
Superintendent of Claims, Byculla, Bombay, K. S. J. Dalal, B.A., LL.B.
Divisional Commercial Superintendent, Bombay Division, M. S. Sundara, M.Sc.
Goods Supdt., Wadi Bunder, R. P. Singh, M.A.

TRANSPORTATION (POWER) AND MECHANICAL ENGINEERING DEPARTMENT

Headquarters Office, Bombay, V.T.

Chief Mechanical Engineer, J. W. E. Gurr, A.M.I. Mech. E., A.M.I. Loco. E.
Dy. Chief Mechanical Engineers, B. P. Hira, B.Sc. (Tech.), A.M.R.T. (Mech.), A.M.I.E. (India), A.M.I.M.E. (Lond.) (R. & J.); R. D. Nadirshaw, A.M.I. Mech. E., A.M.I. Loco. E. (C. & W.).
Personal Assistant to C.M.E., R. P. Goes, A.M.I. Loco. E.
Dy. Chief Opty. Superintendent, T. C. Pant, A.M.I.M.E.
Divl. Mechanical Engineer, M. N. Majumdar.
Fuel Officer, R. V. Iyer, A.M.I.L.E., M.M.E.A. (India), L.M.E. (Bombay).

Locomotives Workshops, Parel

Works Manager, K. S. Rajan, B.E., A.M.I.E.
Production Engineer, S. C. Vadera, A.M.I.M.E.

Carriage & Wagon Workshops, Matunga

Works Manager, A. C. Chatterjee, A.M.I.M.E.
Production Engineer, M. M. Luther, A.M.I.M.E.

Laboratory, Parel

Chemist and Metallurgist, Dr. A. S. Bhaduri.

SIGNALS & TELE-COMMUNICATION DEPARTMENT

Chief Signal & Tele-Com. Engineer, M. S. Visvanathan, B.E., D.I.O. (Lond.).
Divisional Signal & Tele-Com. Engineers, A. K. Srinivasan, B.Sc. (Eng.), A.M.I. Tele. Com. E., D.S.T.E. (S); K. J. N. Jacob, B.Sc., B.E. (Elec.), A.M.I.R.S.E. (T); F. A. Vaz, D.S.T.E. (Planning & Projects).

ELECTRICAL BRANCH

Chief Electrical Engineer, J. D. Malhotra, A.M.I.E.E., A.M.I.E. (India).
Dy. Chief Electrical Engineer, D. S. Mehta.
Traction Engineers, V. J. Nissim, A.M.I.E. (India) (Bombay); A. A. Hattangadi, B.E. (M. & E.) (Bombay).
Divisional Electrical Engineers, R. L. Mitra, B.Sc. (Hons.), B.Sc. (Eng.), Grad. I.R.E.; G. P. Dodeja, B.Sc. (Matunga).

KALYAN POWER HOUSE, THAKURLI

Power House Superintendent, V. S. Gupta.
Maintenance Engineers, P. Sathipalan; N. D. Gupta, B.Sc.; M. K. Bates.

STORES DEPARTMENT

Head Office :—Victoria Terminus, Bombay

Controller of Stores, F. J. Vachha, B.A. (Hons.), B.E. (Hons.), B.Sc. Hons. Lond., A.M.I.Struc.E., A.M.I.M.E.
Dy. Controller of Stores, R. G. Ghosalkar, B.E.
Dy. Controller of Stores (Planning), S. Rodrigues, B.E.

ACCOUNTS DEPARTMENT

V.T., Bombay and Secunderabad

Financial Advisor and Chief Accounts Officer, S. S. Gore, B.A., Bar-at-Law, M.I.R.A.
Dy. Chief Accounts Officer, Finance, K. V. Kasturi Rangam, M.A.
Deputy Chief Accounts Officer (General), E. Varadachari.

MEDICAL DEPARTMENT

Chief Medical Officer, Dr. R. C. Vevania, M.B.B.S. (Bom.), L.R.C.P. (Lond.), M.R.C.S. (Eng.), D.T.M. & H. (Lond.), B.P.H. (Bombay).
Dt. Medical Officer (Health), Dr. V. G. Naralkar, M.B.B.S., B.H.

SECURITY DEPARTMENT

Chief Security Officer, Kartar Singh, I.P.M.
Security Officer, R. B. K. Warrier.
P.A. to Chief Security Officer, J. C. Lobo.
Asst. Security Officer (Intelligence), N. K. Aphale.
Asst. Security Officer (Fire), N. M. Karanjia.

Compilation Officer, A. Aranj, B.A., B.com. (Bom.).
Law Officer, V. D. Thatte, B.A., LL.B.
Safety Officer, Peal Jehangir.
Executive Engineer (Vigilance Cell), P. O. Thomas, B.Sc.
Senior Accounts Officer (Vigilance Cell), J. S. Dhupia, B.A.
Assistant Secretary, L. P. Rangal.
Assistant Secretary (Complaints), T. N. P. Easwar.
Asstt. Public Relations Officer, R. S. Mehra.
Asstt. Deputy General Manager, S. Manohar, B.E. (Civil).

WESTERN RAILWAY

Offices : Churchgate, Bombay. Broad, Metro and Narrow.

HEADQUARTERS OFFICE, CHURCHGATE (GENERAL & PERSONNEL)

General Manager, M. M. Khan.
Senior Dy. General Manager, M. G. Iyer.
Dy. General Manager (General), M. J. Patel, B.E. (Bom.), A.M.I.E.
Struc.E.
Secretary to the General Manager, S. G. Samant, M.Sc.
Public Relations Officer, H. D. Sethna, M.A. (Hons.).
Statistical Officer, C. M. Rees.
Efficiency Officer, Netropol Singh.
Compilation Officer, A. Aranj, B.A., B.com. (Bom.).
Law Officer, V. D. Thatte, B.A., LL.B.
Safety Officer, Peal Jehangir.
Executive Engineer (Vigilance Cell), P. O. Thomas, B.Sc.
Senior Accounts Officer (Vigilance Cell), J. S. Dhupia, B.A.
Assistant Secretary, L. P. Rangal.
Assistant Secretary (Complaints), T. N. P. Easwar.
Asstt. Public Relation Officer, R. S. Mehra.
Asstt. Deputy General Manager, S. Manohar, B.E. (Civil).
Divisional Supdt., Bombay Central, R. N. Choudharie, D.F.E.

PERSONNEL

Chief Personnel Officer, M. R. Sanjana, M.P.
Dy. Chief Personnel Officer, C. St. A. R. Dady.

ACCOUNTS DEPARTMENT

Financial Adviser & Chief Accounts Officer, Bombay, S. G. Pothan, M.A. (Madras).
Dy. Financial Adviser, M. N. Datta.
Dy. Chief Accounts Officer (General), Bombay, T. Adllesh Iyer, B.com.
Dy. Chief Accounts Officer (Survey & Construction), D. L. Tere, B.A.

ENGINEERING DEPARTMENT

Chief Engineer, C. L. Kapur, B.Sc. (Lond.).
Engineer-in-Chief, Surveys and Construction, Churchgate, M. B. Patel, B.Sc. (Eng.), A.C.G.I., A.F.P.W.I.
Deputy Chief Engineers, N. K. Hazra, B.Sc. (Lond.) (South); S. S. Gohel, B.Sc. (Centre); U. H. Mehta, B.Sc., A.C.C.I. (North); L. V. Parekh, B.E. (Civil), A.M.I.E. (India) (West); V. Giridhradas, B.E. (Madras) (Bridges); P. N. Zutshi, B.Sc. (Lond.) (Survey & Construction).

SIGNALS & TELE-COMMUNICATION DEPARTMENT

Chief Signals & Tele-Communication Engineer, Bombay, G. R. Pathak, L.M.E., L.E.E. (Bom.), A.M.I.E.E., A.F.P.W. Inst.

Dy. Chief Signal & Tele-Communication Engineer, P. R. Mullan, A.M.I.E.E., Grad. Inst.
Divisional Signal & Tele-Communication Engineers, M. V. Shanhar, B.Sc., M.I.E.E. (Technical); K. Subrahmanyam (Planning).
Divisional Tele-Communication Engineer, Bombay Central, D. M. Cruickshank.

ELECTRICAL DEPARTMENT

Chief Electrical Engineer, Bombay, S. C. B. Masumder, B.Sc. (Elec. & Mech.), Glasgow.
Dy. Chief Electrical Engineer, S. P. Tonse, B.E., A.M.I.E.E.
Divisional Electrical Engineers, B. M. Nileshwar, B.Sc.; M. D. Rao, B.Sc. (Engg.); T. S. Viswanathan; J. O. Gupta, B.Sc., B.E. (Hons.).

MECHANICAL DEPARTMENT

Chief Mechanical Engineer, Bombay, J. F. Muncharjee.
Deputy Chief Mechanical Engineer (Loco.), Bombay, R. S. Lall.
Deputy Chief Mechanical Engineer (C. & W.), D. V. Ketkar, B.Sc. (Engg.).
Deputy Chief Mechanical Engineer (W), S. R. Woodmore.
Deputy Chief Operating Superintendent (Power), C. H. Sadarangani, D.F.E. (Lond.).
Divisional Mechanical Engineer, Bombay Central, R. R. Narayanan, B.Sc. (Eng. Mech. Elect.), A.M.I.E.

TRANSPORTATION (TRAFFIC) & COMMERCIAL DEPARTMENT

Chief Operating Supdt., Bombay, D. R. Khanna, J.P.
Chief Commercial Supdt., Bombay, D. D. Sethna, B.A. (Hons.).
Dy. Chief Commercial Supdt. (H.), S. P. Patel, B.A. (Hons.) (Bom.), B.Sc. (Econ.) (Lond.), Bar-at-Law.
Road Supdt., J. E. Castellino, B.A. (Bom.), B.Sc. (Econ.) (Lond.), F.R.E.S. (Eng.).
Dy. Chief Commercial Supdt. (Claims), V. J. Dastary, B.A., LL.B.
Deputy Chief Operating Supdt. (Coaching), B. N. Wahal, B.A.
Dy. Chief Operating Supdt. (Goods), S. C. Chatterji.

Bombay Division

Divisional Operating Superintendent, K. K. Pooviah, B.A., B.Sc. (Hons.) (Madras).
Divisional Commercial Superintendent, V. Lakshmana Iyer, B.A. (Hons.).

STORES DEPARTMENT

Controller of Stores (Bombay), D. R. Robinson.
Deputy Controller of Stores (G.), P. P. Narvekar, B.E. (Civil).
Dy. Controller of Stores (Planning & Works), Bombay, D. V. Phatarpekar, B.E.

MEDICAL DEPARTMENT

Chief Medical Officer, Bombay, Dr. A. Lakshminarayanan, M.B.B.S., B.Sc.

RAILWAY PROTECTION FORCE

Chief Security Officer, Bombay, N. V. Babu Reddy, B.A.

RAILWAY SERVICE COMMISSION, BOMBAY*

(Churchgate Station Bldg., 1st Floor, Bombay I).

Chairman, Lala Jagannath.
Members, M. V. Joshi, D. N. Sonone.
Secretary, R. Srinivasan.

* Both Central and Western Railways.

DELHI

ADMINISTRATIVE PERSONNEL

Chief Commissioner, A. D. Pandit.
Chairman, Public Relations Committee, Gopi Nath Aman.
Chairman, Industrial Board, Dr. Yudhir Singh.

Secretariat

Chief Secretary, A. D. Pande, I.A.S.
Development Commissioner, P. R. V. Bhiman, I.A.S.
Judicial Secretary, Hans Raj.
Finance Secretary, K. L. Rathil.
Deputy Commissioner, C. B. Dube, I.A.S.

Principal Officials

Inspector-General of Police, P. L. Mehta, I.P.S.
Superintendent, Medical Services, Dr. A. N. Sen.
Director of Education, B. D. Bhatt.
Director of Industries and Labour, Dr. B. R. Seth.
Director of Public Relations, Ramlal Varma.

District and Sessions Judge, Jagjit Singh Bedi.
Addl. District and Sessions Judges, Krishnamurthy (Industrial Tribunal), P. R. Sahni, Hans Raj Khanna, H. D. Loomba, Sardar Lal Chopra, P. D. Sharma.
Director of Resettlement and Employment, K. B. Sharma.

Delhi Transport Undertaking, Municipal Corporation of Delhi, Scindia House, New Delhi.

General Manager (Transport), P. K. J. Menon, I.A.S.

Collector of Central Excise & Land Customs, New Delhi.

Collector of Central Excise and Land Customs, B. D. Deshmukh, I.R.S.
Hq. Asstt. Collector of C.E. & L.C., M. L. Routh, I.R.S.
Assistant Collectors, H. R. Sylem, I.R.S. (Customs), C. Chidambaram, I.R.S. (Tech.).

GOVERNMENT OF INDIA TOURIST OFFICE

88, Janpath, New Delhi.

Director, D. J. D. Sehgal.

Asstt. Directors, Mrs. Ranjeeta Sujan Singh, Miss Kanta Thakur.

HIMACHAL PRADESH

Headquarters, Simla 4.

ADMINISTRATIVE PERSONNEL

Lieutenant Governor, Raja Bajrang Bahadur Singh of Bhadri.

Chief Secretary, Financial Commissioner and Secretary, Appointments, Secretariat Administration, Revenue and Excise including Registration and Stamps, Home, Transport and Public Relations and Tourism Departments, B. N. Maheshwari, I.A.S.

Development Commissioner, Secretary, Planning & Development, Industries, Agriculture, Forests, Animal Husbandry, Raj Kumar, I.A.S.

Joint Secretary (Home), A. Gupta, I.P.

Finance Secretary to Administration and Secretary, Medical and Public Health Departments, Vigilance Officer, C. D. Saklani, I.A. & A.S.

Secretary to Administration, Judicial Administration, Law, Evacuee Property, Relief and Rehabilitation and Local Self Government Department (including Territorial Council) Legal Remembrancer, Custodian of Evacuee Property and also Chief Electoral Officer, K. B. Srivastava.

Secretary to Administration, Panchayats, Co-operative, Education and Civil Supplies, Registrar, Co-operatives, Director, Civil Supplies, and Panchayats, P. C. Saxena, I.A.S.

Secretary to Administration and also Chief Engineer, Public Works Department, J. Mukand.

Ex-Officio Joint Secretary, Transport, General Manager, Himachal Government Transport, Suraj Singh.

Ex-Officio Joint Secretary, Revenue, Excise & Taxation Commissioner, Raghubir Singh.

Ex-Officio Joint Secretary, Planning & Development, Deputy Development Commissioner, H. R. Mahajan.

Ex-Officio Joint Secretary, Agriculture and Animal Husbandry, Dr. L. S. Negi.

Under Secretary to Administration, Secretariat Administration and General Appointment Departments, M. S. Jandrolia.

Under Secretary to Administration, Planning, Forests and Industries Departments, K. B. Tandon.

Under Secretary to Administration, Appointment, Home, Transport and Revenue Departments, Beas Dev.

Under Secretary to Administration, Judicial, Law, Election, Relief & Rehabilitation, Local Self Government (including Territorial Council), also Deputy Chief Electoral Officer, Lakshman Dass.

Under Secretary to Administration, Development, Agriculture, Animal Husbandry, Harish Chandra.

Under Secretary to Administration, Finance and Medical and Public Health, Vacant.

Ex-Officio Under Secretaries.

Officer on Special Duty, Finance Department, P. N. Vasani.

Public Relations & Tourism, also Director, Public Relations & Tourism, H. K. Mittal.

JUDICIAL ADMINISTRATION

Judicial Commissioner, T. Ramabhadran, I.O.S.

HEADS OF DEPARTMENTS

Development Commissioner, Raj Kumar, I.A.S.
Director of Panchayats, Registrar of Co-operative Societies and Director of Civil Supplies, P. C. Saxena, I.A.S.

Director of Industries & Controller of Printing & Stationery, Dr. S. L. Kapur.

Director of Social Welfare, Vidya Sagar.

Registrar, Judicial Commissioner's Court, H. L. Soni.

Chief Conservator of Forests, D. C. Kalth.

Inspector-General of Police, A. Gupta, I.P.

Chief Engineer, Public Works Department, J. Mukand.

Director of Health Services and Inspector-General of Prisons, Lt.-Col. Pratap Chandra.

Director of Agriculture, Dr. L. S. Negi.

Director of Consolidation of Holdings and Land Records, Tulsi Ram.

Director of Public Relations & Tourism, H. K. Mittal.

Director of Education, K. L. Sethi.

Deputy Director of Animal Husbandry, G. C. Negi.

General Manager, Himachal Administration Transport, Suraj Singh.

Economics and Statistics Department, C. D. Saklani, I.A. & A.S.

DISTRICT ADMINISTRATION

Deputy Commissioner, Mahasu District, Mahabir Singh.

Deputy Commissioner, Mandi District, Basant Rai Jain.

Deputy Commissioner, Bilaspur District, C. L. Kapila.

Deputy Commissioner, Chamba District, B. C. Pal Singh, I.A.S.

Deputy Commissioner, Sirmur District, K. R. Chandel.

JAMMU AND KASHMIR

ADMINISTRATIVE PERSONNEL

Sadar-i-Riyasat

Sadar-i-Riyasat, Yuvaraj Karan Singh JI.

MINISTERS

Prime Minister (Finance, Education, Food, Home), Bakshi Ghulam Mohammed.
 Industries and Commerce, S. L. Saraf.
 Development, C. L. Kotwal.
 Law and Revenue, Dina Nath Mahajan.
 Health & Electricity, Mr. G. M. Rajpuri.
 Agriculture & Community Development, Shams-ud-Din.

MINISTERS OF STATE

Food & Transport, Abdul Gani Tralli.
 Ladakh Affairs, Kushak Bakula.
 Education, Police, Law & Order, Information, Harbans Singh Azad.
 Forest & Fisheries, Ghulam Nabi Wani Sogami.
 Social Welfare, Bhagat Chhajju Ram.
 Local Self Government, Excise & Taxation, Amar Nath Sharma.

SECRETARIES

Chief Secretary, Pirsada Ghulam Ahmad.
 Legal Adviser, M. A. Shumiri.
 Military Secretary & Secretary to Sadar-i-Riyasat, Dewan Iqbal Nath.
 Private Secretary to P.M., A. J. Zaidi.
 Law Secretary, M. S. Naqashbandi.
 Secretary, General Department, Dwarka Nath.
 Home Secretary (Food, Supplies also), H. R. Sharma.

ADMINISTRATIVE PERSONNEL

Governor, Dr. B. Ramakrishna Rao.

Governor's Staff

Secretary, V. V. Joseph, I.A.S.

MINISTERS

Chief Minister, General Administration, Integration, Planning and all subjects not expressly mentioned, H. M. S. Namboodiripad.
 Minister for Home, Finance, Insurance, Commercial Tax, Agricultural Income Tax, C. Achutha Menon.
 Minister for Food and Civil Supplies, Forests, K. C. George.
 Minister for Industries, Mining and Geology, Cement, Iron and Steel, Community Development, Commerce, K. P. Gopalan.
 Minister for Transport, Labour, Municipalities, Sports, and Sport Associations, T. V. Thomas.
 Minister for Local Self-Government, Advancement of Backward Communities, Panchayats and District Boards, Housing, Resettlement, Colonisation, P. K. Chathan.
 Minister for Land Revenue, Excise and Prohibition, Registration, Deansoms and Charitable Endowments, Smt. K. R. Gauri.
 Minister for Public Works, Buildings, Communications, Ports, Railways, Information and Publicity, T. A. Manjeed.
 Minister for Education, Fisheries, Stationery and Printing, Museums and Zoo, Archaeology, Joseph Mundasery.
 Minister for Health Services, Ayurveda, Dr. A. B. Menon.
 Minister for Law, Legislation, Elections, Administration of Civil and Criminal Justice, Jails, Irrigation, Electricity, Agriculture, Animal Husbandry & Co-operation, V. B. Krishna Iyer.

Secretariat

Chief Secretary, N. E. S. Raghavachari, I.C.S.
 Development Commissioner, N. E. S. Raghavachari, I.C.S.
 Revenue Secretary, K. K. Raman Kutty, I.A.S.
 Finance Secretary, P. S. Padmanabhan, I.A.S.
 Law Secretary, P. D. Thommen.
 Food Secretary, U. Thomas, I.A.S.
 P.W.D. Secretary, G. Madhavan, I.A.S.
 Industries Secretary, M. Abdussalam, I.A.S.

Education and Information Secretary, Ghulam Mohammad.
 Finance & Planning Secretary, P. N. Chaku.
 Development Secretary, Noor Mohammad.
 Revenue Secretary, Ghulam Nabi.
 Health Secretary, R. I. Nagpal.
 Secretary, Legislative Assembly, G. N. Naqashbandi.
 Secretary, Legislative Council, Q. Nizam-Ud-Din.
 Secretary, Public Service Commission, B. N. Munshi.
 Secretary, Industries & Commerce, Hakim Ghulam Hafidar.
 Secretary, Agriculture & Community Development, A. N. Sapru.

HEADS OF DEPARTMENTS

Inspector General of Police, D. W. Mehra.
 Director of Information, J. N. Zut-Ji.
 Director of Education, G. A. Mukhtar.
 Director of Industries, Dr. Mir Habib Ullah.
 Director of Health Services, Dr. Fazl Rehman.
 Director, Sericulture, Kashmir, Hakim Ali.
 Director, Sericulture, Jammu, G. H. Beg.
 Chief Conservator, Forests, R. L. Khajuria.
 Transport Controller, S. K. Raina.
 Director of Tourism, T. N. Madan.
 Development Commissioner, Agha Muzaffar.
 Chief Engineer Irrigation & P.W.D., Kashmir, P. N. Wanchou.
 Chief Engineer, P.W.D., Jammu, H. K. Handotra.
 Chief Engineer, Irrigation, Jammu, B. N. Menkl.
 Director of Agriculture, G. M. Butt.
 Director, Animal Husbandry, Ghulam Mohi-ud-din.

KERALA

Planning Secretary and Additional Development Commissioner, K. S. Menon, I.A.S.
 Education Secretary, C. K. Kerala Varma, I.A.S.
 Labour and Local Self-Govt. Secretary, P. I. Jacob, I.A.S.
 Secretary, Home Department, C. R. Krishnamoorthy, I.A.S.
 Joint Secretary, Public Department, C. P. Gopalan Nair, I.A.S.
 Secretary, Health Department, T. Krishnan Nair, I.A.S.

REVENUE BOARD

First Member, K. P. K. Menon, I.A.S.
 Second Member, S. Govinda Menon, I.A.S.
 Third Member, George Thomas, I.A.S.
 Director, Local Bodies, Thomas Manjooran.

PRINCIPAL OFFICIALS

Accountant-General (Central), Y. K. Krishnan (Comptroller).
 Chief Conservator of Forests, M. P. George.
 Chief Engineer (General and Irrigation), T. P. Kuttiammu.
 Chief Engineer (Buildings and Roads), T. S. Chathunni.
 Chairman, Electricity Board, K. P. Sreedharan Nair.
 Chief Inspector of Factories, P. Sitarama Kukliyya.
 Commissioner of Labour, A. Kunjukrishna Pillai, I.A.S.
 Director of Agriculture, K. Nivasankara Menon.
 Director of Animal Husbandry and Vet. Services, P. Kumaran Nair.
 Director of Education, Rama Varma.
 Supdt. of Govt. Presses, K. Swaminathan.
 Director of Industries and Commerce, Dr. P. V. Nair.
 Director of Govt. Owned Industries, K. P. Viswanathan Nair.
 Director of Industries (Coir), P. K. Nair.
 Jt. Dir. of Industries (Small scale), N. K. Rajkumar.
 Jt. Director of Industries (Handlooms), P. Karunakara Menon.
 Director of Health Services, Dr. K. Madhavan Nair.
 Director of Public Relations, V. R. Narayanan Nair.
 Director of Harijan Welfare, C. C. Kunjan.
 Director of Geology, G. V. Poulouse.

Financial Commissioner, M. M. Siddiqi.
 Excise & Taxation Commissioner, Abd-ur-Rashid.
 Director, Purchases & Stores, R. L. Gupta.
 Director, Fisheries, G. M. Malik.
 Principal Information Officer, G. D. Sharma.
 General Manager, Kashmir Arts Emporia, Kh. A. Ullah.
 Director of Records, Fida Hussain.
 Election Commissioner, R. Sheedar Singh.

PUBLIC SERVICE COMMISSION

Chairman, Major General Yadu Nath Singh.
 Members, A. H. Durani, Mian Ghulam Mohd., Brig. Uday Chand.
 Secretary, B. N. Munshi.

LEGISLATURE

Speaker, Legislative Assembly, Aswad Ullah Mir.
 Chairman, Legislative Council, S. N. Fotedar.

TRADE AGENCIES

New Delhi: Sardar Amar Singh.
 Bombay: S. S. Nishat.
 Pathankot: D. N. Kachroo.
 Amritsar: L. Mani Ram.

HIGH COURT

Chief Justice, Justice Janki Nath Wazir.
 Puisne Judges, Justice Salyid Murtaza Fazal Ali, Justice K. V. Gopalakrishnan Nair.
 Registrar, Azim-Ud-Din Mattu.

Director of Fisheries, K. Gopinatha Pillai.
 Director of Statistics, K. C. Cherian (Incharge).
 Transport Commissioner, T. C. S. Pillai.
 Director of Transport, Kurien Thomas (Ag.).
 Inspector-General of Police (General), N. Krishna Menon, I.P.
 Inspector-General of Police (on other duty), N. Sreenivasa Iyer, I.P.S.
 Inspector-General of Prisons, A. V. John.
 Inspector-General of Registration, M. R. Ramachandran.
 Registrar of Co-operative Societies, P. Sivarama Pillai.
 Mg. Dir., Finance Corporation, M. G. Achuthan Nair.
 Director of Collegiate Education, Vacant.
 Director of Primary Education, Paul Varghese.
 Director of Examinations and Text Books, C. O. T. Kunhijakkil.
 Director of Technical Education, V. V. Gopalakrishna Iyer.

HIGH COURT

Chief Justice, K. Nankaran.
 Judges, M. S. Menon; G. Kumara Pillay; N. Varadaraja Iyyengar; T. K. Joseph; P. T. Raman Nair; C. A. Vaidalingam.
 Addl. Judges, S. Velu Pillai, Mrs. Anna Chandy.
 Registrar, M. Balakrishna Menon.
 Advocate General, K. V. Suryanarayana Aiyar.

PUBLIC SERVICE COMMISSION

Thulasi Hill, Pattom, Trivandrum 4.
 Chairman, V. K. Velayudhan.
 Members, N. P. Verghis, T. P. Bhaskar Panicker, C. O. T. Kunhi Packi, P. Kesavan.
 Secretary, Jacob Varugis.

Commissioner of Income Tax
Kerala and Coimbatore

'Aayakar Bhavan, Race Course Road, Coimbatore.
 Commissioner of Income Tax, M. Hamid Mirza, B.COM, A.C.A., I.R.S.
 Inspecting Asst. Commissioners of Income Tax, U. M. Subramaniam, M.A., I.R.S. (Coimbatore); B. A. Shariff, M.A., I.R.S. (Ernakulam).

Collector of Customs

Custom House, Cochin 3.
 Collector of Customs, B. Sen, I.R.S.
 Asst. Collector, K. Narayanan Nair, I.R.S.

MADHYA PRADESH

ADMINISTRATIVE PERSONNEL
GOVERNOR

Harl Vinayak Patakar.

PERSONAL STAFF

Military Secretary, Major Harnath Singh.
Secretary, J. S. Dave.
Aide-de-Camp, T. B. Aga.

MINISTERS

Chief Minister, G. A. D., Home, Publicity, Complaints, Planning & Dev., Co-ordination, Agriculture, Dr. Kailas Nath Katju.
Minister, Revenue, Survey & Settlement, Land Records, Land Reforms, Local Self Government, Bhagwantrao Mandlot.
Minister, Forest, Natural Resources, Shambhu Nath Shukla.
Minister, Education, Law, Physical Education, Tourist Traffic, Dr. Shankar Dayal Sharma.
Minister, Finance, Separate Revenue, Economics & Statistics, Registration, Mahiraj Gangwal.
Minister, P.W.D., Roads & Buildings & Irrigation, excluding Chambal Project, Electricity, Shankarlal Tiwari.
Minister, Labour, Rehabilitation, Housing, Chambal Project, V. V. Dravid.
Minister, Tribal Welfare, Raja Nareesh Chandra Singh.
Minister, Jail, Food, Civil Supplies, A. Q. Siddiqui.
Minister, Social Welfare excluding Physical Education, Co-operation, Local Self Govt. (Rural), Ganesh Ram Anant.
Minister, Public Health, Rani Padmawati Devi.

DEPUTY MINISTERS

Deputy Minister, Agriculture, Co-operation, Bhyam Sunder Narain Mushran.
Deputy Minister, Tribal Welfare, Labour, Rehabilitation, Social Welfare, excluding Physical Education, Shivbhanu Solanki.
Deputy Minister, Forest, Natural Resources, Jail, Food, Civil Supplies, Sajjan Singh Vishnar.
Deputy Minister, Finance, Separate Revenue, Economics, and Statistics, Registration, Public Health, Mathura Prasad Dubé.
Deputy Minister, Home, Narasingh Rao Dixit.
Deputy Minister, Commerce & Industry (including Road Transport and State Industries), Kesabhai Gomashita.
Deputy Minister, Revenue, Survey & Settlement, Land Records, Land Reforms, L.S.G., Jagmohan Das.
Deputy Minister, P.W.D. (Roads & Buildings, Irrigation excluding Chambal Project), Electricity, Dashrath Jain.

SECRETARIAT

Chief Secretary, H. S. Kamath, I.C.S.
Additional Chief Secretary, K. Radhakrishnan, I.C.S.
Home Secretary, Mahabir Prasad Shrivastava, I.A.S.
Finance Secretary, M. Y. Godbole, I.A.S.
Revenue Secretary, N. D. Gupta, I.A.S.
Local Self Government Secretary, R. C. Rai Poddar, I.A.S.
Agriculture Secretary, R. C. Morab, I.A.S.
Commerce and Industry Secretary, P. D. Chatterjee, I.A.S.
Education Secretary, L. C. Gupta, I.A.S.
Public Works Secretary, N. P. Dixit, I.A.S.
Planning and Development Secretary, P. S. Bapna, I.A.S.
Law Secretary, R. S. Trivedi.
Secy., Integration, S. P. Mushran, I.A.S.
Food Secretary, M. P. Dubé, I.A.S.

BOARD OF REVENUE

President, Baghura Singh, I.A.S.
Member, K. L. Pancholi, I.A.S.
Member, R. S. Shukla, I.A.S.

COMMISSIONERS OF DIVISIONS

Indore, Y. Bhargava, I.A.S.
Bilaspur, Maharaj Virbhadra Singh, I.A.S.
Jabalpur, C. J. Gupta, I.A.S.
Rewa, J. K. Chowdhary, I.A.S.
Gwalior, S. P. Mehta, I.A.S.
Bhopal, M. G. Karnikar, I.A.S.
Raipur, R. C. V. P. Noronha, I.C.S.

HEADS OF DEPARTMENTS

The location of the Offices is given in brackets.

Inspector-General of Police (Bhopal), K. F. Kustomji, I.P.
Director of Health Services (Indore), Dr. G. L. Sharma.
Inspector-General of Prisons (Bhopal), Darshan Singh.
Chief Engineer (Irrigation), P.W.D. (Raipur), M. L. Sood, I.S.E.
Chief Engineer (Buildings and Roads), P.W.D. (Jabalpur), P. V. Divatia.
Chief Conservator of Forests (Rewa), K. P. Sagarla, I.F.S.
Director of Public Instruction (Bhopal), S. P. Verma.
Director of Geology and Mining (Raipur), S. K. Barooah.
Director of Information & Publicity (Bhopal), I. S. Parihar.
Superintendent, Government Printing and Stationery (Bhopal), G. N. Parthasarathy.
Government Architect (Gwalior), D. G. Karajgaonkar.
Director of Economics and Statistics (Bhopal), Dr. M. M. Mehta.

Director of Social Welfare (Ag.) (Indore), P. K. Agnihotri.
Public Health Engineer (Bhopal), N. N. Shah.
Director of Civil Supplies (Indore), R. N. Bisaria.
Director of Food (Bhopal), M. P. Dubé, I.A.S.
Examiner of Local Fund Accounts (for the former Madhya Bharat area) (Gwalior), Bitalasahal.
Inspector-General of Municipalities (for the former Madhya Bharat Area) (Gwalior), H. N. Savant.
Director of Indian Languages (Bhopal), W. N. Pandit.
Excise Commissioner (Gwalior), M. Q. Khan, I.A.S.
Settlement Commissioner (Gwalior), J. K. Varma, I.A.S.
Director of Industries (Indore), P. K. Dave, I.A.S.
Labour Commissioner (Indore), W. V. Oak, I.A.S.
Director of Agriculture (Rewa), Dr. Kalamkar.
Director of Tribal Welfare (Raipur), T. N. Bahel, I.A.S.
Sales-Tax Commissioner (Indore), K. C. Tiwari, I.A.S.
Registrar, Co-operative Societies (Indore), Devendar Nath, I.A.S.
Chief Electoral Officer (Bhopal), S. M. N. Raina.
Director of National Employment Service (Madhya Pradesh), A. B. Vailya.

HIGH COURT

Judges at Jabalpur: G. P. Bhutti, Chief Justice; T. P. Nalk; P. K. Tare; T. Shrivatsava; K. Pandey; S. P. Shrivatsava; Sadhanu Bhushan Sen; Prithvinath Sharma; Narayan M. Golwalkar.

Judges at Indore and Gwalior: P. V. Dixit; Abdul Kakim Khan; V. R. Newaskar; H. R. Krishnan.

PUBLIC SERVICE COMMISSION
(Indore)

Chairman, Dr. H. C. Soth.
Members, S. S. Pande; Raja Dhondiraj Bahadur.
Secretary, N. M. Vyas.

Commissioner of Income Tax

M.P., Nagpur & Bhandara, Nagpur.

Commissioner of Income Tax, S. A. L. Narayana Rao, B.A., B.L.

Inspecting Audit Commissioner of Income Tax (Try.), R. D. Shah, M.A.

Collector of Central Excise

Madhya Pradesh & Vidarbha,

Post Box No. 81, Nagpur.

Collector of Central Excise, M. T. Shanbhag, I.R.S.

Asst. Collectors of C.E., B. K. Doshi, I.R.S. (Hq.); G. D. Chatterjee, I.R.S. (Nagpur Div.).

MADRAS

ADMINISTRATIVE PERSONNEL
GOVERNOR

Blashuram Medhi.

PERSONAL STAFF

Comptroller, Governor's Household, A. Rangathan.
Asst. Comptroller, C. Viswanathan Nair.
Private Secretary, K. V. Subramanian.
Honorary Surgeon, Dr. G. Chandrasekharan.
Aide-de-Camp, Sq. Ldr. C. Joseph; K. Sreekumara Menon.

Hon. Naval Aide-de-Camp, Commander J. S. Ramdas, I.N.

MINISTERS

Chief Minister, in charge of Public, Planning and Community Development (including Local Development Works, Women's Welfare, Community Projects and Rural Welfare), K. Kamaraj Nadar.

Minister in charge of Home including Police, Courts and Prisons and Prohibition, Food and Agriculture (including Khadi and Village

Industries and Hindu Religious Endowments), Railways, Post and Telegraphs and Civil Aviation, M. Bhaktavatsalam.

Minister in charge of Finance, Education, Information and Law (including Legislature and Engineering Colleges), C. Subramaniam.

Minister in charge of Revenue, Public Health and Medical, M. A. Manickavelu.

Minister in charge of Industries, Labour and Co-operation (including Housing, Commercial Taxes and Nationalised Transport), R. Venkataraman.

Minister in charge of Public Works (excluding Electricity) and Harijan Welfare, P. Kakkan.
Minister in charge of Electricity, Transport (including Registration, Accommodation Control, Stationery and Printing and Government Press), V. Ramalaksh.
Minister in charge of Local Administration and Fisheries, Srimathi Lourdhammal Simon.

SECRETARIAT

Chief Secretary, W. R. S. Sathianadhan, I.C.S.
Deputy Secretary (Public) & Protocol Office, Miss Anna George, I.A.S.
Secretary (Revenue), J. Sivanandam, I.A.S.
Secretary (Home), S. K. Chettur, I.C.S.
Secretary (Finance), T. A. Verghese, I.C.S.
Secretary (Industries), S. R. Kalwar, I.C.S.
Secretary (Health, Education and Local Administration), K. Ghulam Mahmood, I.A.S.
Secretary (Public Works), E. P. Royappa, I.A.S.
Secretary (Law), A. Alaghiwami.
Secretary (Agriculture), P. P. I. Vaidyanathan, I.C.S.
Secretary, Legislature, T. Hanumanthappa, M.A., B.L.

BOARD OF REVENUE

First Member and Commissioner of Land Revenue and Food Production, S. Venkateswaran, I.C.S.
Second Member and Commissioner of Land Revenue, Civil Supplies and Settlement of Estates, R. A. Gopalaswami, I.C.S.
Third Member and Commissioner of Land Revenue and Commercial Taxes, Custodian of Evacuee Property, B. M. Sundaram, I.C.S.
Secretary, Board of Revenue, V. Karthikeyan, I.A.S.
Additional Secretary, Board of Revenue, R. Subramania Ayyar, I.A.S.

PRINCIPAL OFFICIALS

Director of Agriculture, A. Venkatesan, I.A.S.
Director of Animal Husbandry, D. Pattabhiraman.
Registrar of Co-operative Societies, V. Balasundaram, I.A.S.
Director of Public Instruction, N. D. Sundaravadeivelu.
Director of Information and Publicity, R. Kulanalveilu.
Chief Engineer, Electricity, V. P. Appadurai.
Chief Conservator of Forests, V. S. Krishnaswami, I.A.S.
Director of Harijan Welfare, Luke Devapriyam, I.A.S.
Chief Engineer (Highways), S. C. Nayak.
Commissioner of Hindu Religious and Charitable Endowments, A. Uthandaraman, I.A.S.
Director of Industries and Commerce, T. K. Palaniappan, I.A.S.
Inspector-General of Prisons, M. A. Sheriff, I.A.S.
Commissioner of Labour, P. V. Viswanathan (Incharge).
Chief Inspector of Factories, P. V. Viswanathan.
Director of Medical Services, V. R. Thayumana-swami, I.M.S.
Dean, Government General Hospital and Madras Medical College, R. G. Krishnan.
Dean, Stanley Hospital and Stanley College, S. Balasubramaniam.
Director of King Institute, Guindy, Dr. S. Govindarajan.
Hon. Director of Government Transport, Vacant.
Inspector-General of Police, S. Balakrishna Shetty, I.P.S.
Commissioner of Police, Madras City, Frederick V. Arul.
Director of Public Health, N. Parthasarathy.
Chief Engineer, P.W.D. (General and Buildings), J. G. Abraham.

Chief Engineer, P.W.D. (Irrigation), K. V. Ekambaran, I.S.E.
Special Chief Engineer, U. Ananda Rao, I.S.E.
Inspector-General of Registration and Registrar General of Births, Deaths and Marriages, K. Gopal.
Chairman, Sales-Tax Appellate Tribunal, P. Ramakrishna Ayyar, I.C.S.
Controller of Stationery and Printing, S. Krishnaswami, I.A.S.
Director of Statistics, D. S. Rajabuanam.

MADRAS STATE ELECTRICITY BOARD

Chairman, S. K. Chettur, I.C.S.
Ex-Officio Members, V. P. Appadurai, T. A. Verghese, I.C.S., T. K. Palaniappan, I.A.S.
Accounts Member, K. R. Rama Ayyar.
Secretary to the Board, T. V. Natsa Mudallar.
Asst. Secretary, P.W.D. (Liaison Officer), K. M. Radhakrishnan.

OFFICE OF THE DIRECTOR OF EMPLOYMENT, NATIONAL EMPLOYMENT SERVICE

8, Haddows Road, Nungambakkam, Cathedral, Madras 6.
Director, P. V. Visvanatham.

HIGH COURT

Chief Justice, Rajamannar, Dr. P. V., B.A., B.L., D.Litt.
Judge, Rajagopalan, Mr. Justice P., I.C.S.
Judge, Somasundaram, Mr. Justice N., B.A., B.L.
Judge, Balakrishna Ayyar, Mr. Justice P. V., M.A., I.C.S.
Judge, Basheer Ahmed Sayeed, Mr. Justice, M.A., B.L.
Judge, Ramaswami, Mr. Justice P. N., M.A., I.C.S.
Judge, Rajagopala Ayyangar, Mr. Justice, N., M.A., M.L.
Judge, Ramachandra Iyer, Mr. Justice, S., B.A., B.L.
Additional Judge, Subrahmanyam, Mr. Justice V., B.A., B.L.
Additional Judge, Ganapattia Pillai, Mr. Justice S., B.A., B.L.
Registrar, S. K. Gajendram Naidu, B.A., B.L.
Advocate-General, Madras, V. K. Tiruvengatachari.
Government Pleader, B. V. Visvanatha Iyer, B.A., B.L.
Additional Govt. Pleader, K. Veeraswamy, B.A., B.L.
Editor, Indian Law Reports, K. Chandrasekharan, M.A., B.L.
Public Prosecutor, P. S. Kalliasam, B.Sc., B.L.
Sheriff of Madras, V. Emburumanar Chetty.
Under Sheriff, G. Shanmugam.

CITY CIVIL COURT

Principal Judge, S. A. Aiyaswami Chetty, M.A., B.L.
Additional Judge, M. Balakrishna Menon, M.A., B.L.
I Assistant Judge, P. Lakshmanan, B.A., B.L.
II Assistant Judge, M. Shama Dass, B.A., B.L.
III Assistant Judge, K. V. Sambandam, M.A., M.L.
IV Assistant Judge, M. P. Singaravadeivelu, B.A., B.L.
V Assistant Judge, Maxin A. Lobo, B.A., B.L.
VI Assistant Judge, Robert Chellaiya, B.A., B.L.
Assistant Judge-cum-Registrar, R. Ramakrishnan, M.A., LL.B.

SMALL CAUSES COURT MADRAS

Chief Judge, G. K. Damodara Row, B.A., B.L.
Second Judge, R. S. D. Mani, B.A., M.L.
Third Judge, R. S. Swaminadhan, B.A., B.L.
Add. Judge, S. Kamaluddin, B.A., B.L.
Registrar, A. Chidambaram, B.A., B.L.

PRESIDENCY MAGISTRATES' COURTS Egmore, Madras.

Chief Presidency Magistrate, R. Sadasivan, B.A., M.L.
Second Presidency Magistrate, M. Tajmmul Hussain, B.A., B.L.
Third Presidency Magistrate, C. M. Lokran, B.A., B.L.
Fourth Presidency Magistrate, S. Varadarajan, B.A., B.L.
Fifth Presidency Magistrate, T. R. Narayana, M.A., M.L.
Sixth Presidency Magistrate, D. Soundara Pandian, B.A., B.L.
Seventh Presidency Magistrate, S. Natarajan, M.A., B.L.
Eighth Presidency Magistrate, A. V. Avudainayagam, B.A., B.L.

PUBLIC SERVICE COMMISSION MADRAS 2.

Chairman, V. Bathna Mudallar.
Members, A. F. Mascarenhas, I.A.S. (Retd.); V. R. Nagarajan.
Secretary, T. D. Aiyasawmy; Dy. Secy., M. Subramania Ayyar; Asst. Secys., V. M. Ambrose; C. M. Kuppusawmy.

RAILWAY SERVICE COMMISSION

58, Gopathy Narayanaswamy Chetty Road, Theagarayanagar, Madras 17.
Chairman, K. N. Ranga Rao.
Members, M. B. Kandasamy; K. P. Gopala Menon.
Secretary, K. S. Row.

ACCOUNTANT-GENERAL Madras.

Accountant-General, S. Natarajan.

ALL-INDIA HANDLOOM BOARD Southern Region

98, Mowbrays Road, Madras 18.
Dy. Textile Commissioner (Handlooms), P. Sabanayagam, I.A.S.

ALL-INDIA RADIO Madras 4.

Station Director, S. N. Murti.
Station Engineer, S. S. Kholl.
Chief Producer for Karnataka Music, Semmugudi R. Srinivasa Iyer.
Assistant Station Director (Programmes), R. Viswanathan.
Assistant Station Director (Administrator), T. R. Muralidharan.
Assistant Station Engineer, P. B. Chetty.
Listener Research Officer, Vacant.
Assistant News Editor, B. Dharmarajan.
Assistant Editor 'Vanoli', P. Sundararajan.
Assistant Editor, 'Vani', D. Anjaneyulu.

COLLECTOR OF CENTRAL EXCISE 15, Harrington Road, Madras 31.

Collector of Central Excise, Madras, D. B. Kohli, M.Sc. (Hons.), I.R.S.
Deputy Collector of Central Excise, Madras, K. K. Tampi, M.A., I.R.S.
Headquarters Assistant to the Collector of Central Excise, Madras, S. J. Pinto, I.R.S.
Assistant Collector (Technical) of Central Excise, Madras, S. C. Roy, M.A., I.R.S.

COMMISSIONER OF INCOME-TAX 22, Nungambakkam High Road, Madras 6.

Commissioner of Income-tax, Madras, W. K. Gharpurey, B.Sc. (Bom.), B.Sc. (Lond.), I.R.S.
Inspecting Assistant Commissioner of Income-tax Range I, Madras, P. S. Viswanathan, M.A., A.C.A., I.R.S.

Inspecting Assistant Commissioner, Range II, Madras, K. S. V. Raman, A.O.A., I.R.S.
Inspecting Assistant Commissioner, Estate Duty Range, Madras, V. Ramaswami Iyer, B.A., I.R.S.
Inspecting Assistant Commissioner, Madurai Range, Madurai, K. Rama Rao, M.Sc., I.R.S.
Appellate Asst. Commissioner, 'A' Range, Madras, V. V. Badami, M.Sc., I.R.S.
Appellate Assistant Commissioner, 'B' Range, Madras, V. S. Shetti, D.Com. (IMC), A.O.A., I.R.S.
Appellate Assistant Commissioner, Madurai, P. Sadagopan, B.A. (Hons.), I.R.S.
Appellate Assistant Commissioner, Tiruchirappalli, George E. Joseph, M.A. (Econ.), I.R.S.

CUSTOMS COLLECTORATE Custom House, Madras 1.

Collector of Customs, Jasjit Singh.
Asst. Collectors of Customs, M. V. N. Rao, S. Narayanan, T. P. S. Iyer, M. R. Kher.

VISAKHAPATNAM CUSTOM HOUSE Collector of Customs, B. B. Gujral.

MADRAS PORT TRUST Madras.

Chairman, G. Venkateswara Ayyar, I.C.S.
Chief Engineer, K. N. Srinivasan, B.E., M.I.E., A.M.I. (Struct.) E. (Lond.).
Superintending Engineer (Construction), B. K. Kuppuswamy, B.E., A.M.I.E.
Executive Engineer, V. H. Ananthanarayanan, B.E.
Mechanical Engineer, P. C. Martin, M.I., M.A.E.E.
Electrical Engineer, V. R. Srinivasan.
Deputy Port Conservator, W. E. Vangeyzel.
Harbour Master, V. V. Seshadri.
Traffic Manager, V. A. Jaywant, B.A.
Financial Adviser and Chief Accounts Officer, K. Rangaswamy, M.A.
Medical Officer, Dr. T. S. Subramaniam, M.B.B.S., F.R.F.P.S., D.T.M., D.T.H.
Secretary, T. K. Parameswaran Namblar, B.A.
Labour Welfare Officer, P. R. Narasimhan, B.A. (Hons.).

REGIONAL METEOROLOGICAL CENTRE 4, College Road, Madras 31.

Regional Director, C. Ramaswamy, M.A., F.A.Sc., F.R.Met.S.
Meteorologist, Forecasting Office, Meenambakkam Aerodrome, Madras-27, D. V. Rao, M.Sc.

GOVERNMENT OF INDIA TOURIST OFFICE

35, Mount Road, Madras 2.
Director, Madras, Vacant.
Asst. Director, Madras, Mrs. L. Sivamani Nadhan.
Manager, Bangalore : K. T. Naidu.
Manager, Cochin : Kunwar Raj Singh.

TELEPHONES, MADRAS DISTRICT Madras.

District Manager, Telephones, Madras District, Rama Kant, B.Sc. (Engg.), A.M.I.T.E.
Divisional Engineer, Telephones, E. V. Phillip.
Vigilance & O.M. Officer, G. Subramanian, B.Sc. (Hons.), (Member), A.I.R.R.
Administrative Officer, G. N. Subramanian, B.A.
Accounts Officers, Telephone Revenue Accounting Office, Madras Circle, K. S. Alyakutty, M.A., K. R. Sastri, B.A.
Accounts Officer, Telephone Revenue Accounting Office, Andhra-Hyderabad Circles, G. Ramaswamy.
Contract Officer, K. Pattabhiraman.

POSTMASTER-GENERAL Madras Circle, Madras 2.

Postmaster-General, Madras Circle, S. S. Ananta-krishnan, M.A.
Directors of Postal Services, S. Ramachandran, B.A. (Hons.), K. Gopalakrishnan, B.A. (Hons.).
Director of Telegraphs East, M. B. Sarangapani, B.E.
Director of Telegraphs West, P. A. Sankaranarayana, B.A., A.M.I.E.E.

PRESIDENCY POSTMASTER Madras.

Presidency Postmaster, A. L. Deb, B.A.
Dy. Presidency Postmasters, N. V. Srinivasan (I), K. Natarajan, B.A. (II).

CONTROLLER OF AERODROMES Madras Region, Madras 27.

Collector of Aerodromes, N. C. Khanna.
Controller of Communication, A. J. Srivastava.
Aerodrome Officer, M. D. Sundararajan.
Officer-in-Charge, Aero-Communication Station, B. K. Iyer.
Senior Aircraft Inspector-in-charge, S. N. Naigam-walla.

SOUTHERN RAILWAY

(General Manager's Office, Madras.)

ADMINISTRATIVE PERSONNEL

General Manager, Madras, A. C. Mukerji.
Senior Dy. General Manager (Traffic), Madras, S. N. Barua.
Chief Personnel Officer, R. Gopalakrishnan.
Dy. Chief Personnel Officer, V. G. Naidu.
Dy. General Manager (General), Madras, P. Krishna Raju.
Chief Engineer, Madras, D. R. Kohli.
Chief Signal and Tele-Communications Engineer, Madras, W. C. Liebhaf.
Chief Operating Superintendent, Madras, P. H. Sarma.
Chief Commercial Superintendent, Madras, J. B. Rao.
Chief Mechanical Engineer, Perambur, A. N. Mukherjee.
Chief Electrical Engineer, Madras, G. K. Ambady.
Controller of Stores, Perambur, P. N. Talati.
Financial Adviser and Chief Accounts Officer, Madras, M. V. Seshadri.
Chief Medical Officer, Madras, Dr. P. A. Menon.
Chief Security Officer, Madras, M. Singaravelu.

MANIPUR

ADMINISTRATIVE PERSONNEL

Chief Commissioner, Jagat Mohan Nath Raina, I.A.S.
Chief Secretary, P. D. Tayal, M.A., Bar-at-Law.
Judicial Commissioner, T. N. B. Tirumalpat.
Deputy Commissioner & Development Commissioner, C. H. Nair, I.F.A.S.
Secretary, Development, T. Kipgen.
Secretary, Law and Home, S. C. Bardhan.
Secretary (Works), S. Gourhari Singh.
Secretary (Edn.), S. D. Bahuguna.
Secretary (Finance), S. P. S. Sodhi, I.A. & A.S.
Additional Development Commissioner, S. M. Krishnatreya, I.F.A.S.
Addl. District Magistrate, S. Goswami, I.F.A.S.
Dist. and Sessions Judge, S. N. Banerjee.

Inspector-General of Police, Bijai Singh.
Asst. Secretary, Local Self Govt., M. G. Singh.
Asst. Secretary (Service), K. R. Dutta.
Asst. Secretary (Revenue), K. Lamphei Singh.
Asst. Secretary, Co-Ordination, K. G. Singh.
Asst. Secretary, Stationery & Printing, N. Nilkomal Singh.
Asst. Secretary (Edn.), R. C. Bhattacharjee.
Asst. Secretary (Edn.), Madan Gopal Sharma.
Asst. Secretary (Works), B. I. Sharma.
Publicity Officer, S. Gopendra Sharma.
Director, Medical & Health Services, N. C. Bhawal.
Additional Supdt., Police, L. Gopal Singh, J. S. Tingal.
Commandant, Manipur Rifles, L. H. Hartnett.

Registrar, Co-operative Societies, P. C. Bordoloi.
Director of Agriculture, L. Udhob Singh.
Director of Industries, U. M. Sinha (Officiating).
Chief Forest Officer, B. K. Bijoychandra Singh.
Taxation Officer, R. K. Sanahai Singh.
Principal Engineering Officer, A. G. K. Moorthy.
State Trading Officer, T. Kalachand Singh.
Surgeon, Imphal Hospital, Nandababu Roy, F.R.C.S.
General Manager, M.S.T., Manipur, E. L. Sethi.

TERRITORIAL COUNCIL

Chairman, Sibho Laho (Congress).
Chief Executive Officer, P. B. Chandra.

MYSORE

GOVERNOR

His Highness Sri Jaya Chamaraja Wadiyar,
G.C.B., G.C.S.I.

MINISTERS

*Chief Minister, Home, Commerce and Industry
excluding Collage and Rural Industries, Planning
and Development Departments, B. D. Jatti.*
Finance, Sericulture, T. Mariappa.

*Revenue, including all matters pertaining to
land and Stamps and registration, Kadidal
Manjappa.*

*Law, Labour, Local Self-Government, including
Villages Panchayats, Housing and Rural Water
Supply, T. Subramanya.*

Education, Anna Rao Ganamukhi.

Public Works and Electricity, H. M. Channabasappa.

*Social Welfare, Excise, Prohibition, Amelioration
of Scheduled Castes, Scheduled Tribes and
Backward Classes, Agriculture, Food, N. Bachiah.*

*Medicine and Public Health, including Indige-
nous Medicine and Public Health Sanitation,
Dr. K. K. Hegde.*

Transport, Forests, K. F. Patil.

*Co-operation, Marketing, Warehousing, Weights
and Measures and Collage and Rural Indus-
tries, Mali Mariappa.*

Deputy Ministers

Smt. Leelavati Magadi, Rural Industries.

J. H. Shamsuddin, Finance.

M. N. Naganoor, Public Works & Electricity.

Mrs. Grace Tucker, Education.

H. C. Linga Reddy, Planning & Development.

B. Basavalingappa, Home.

SECRETARIAT

Bangalore.

*Chief Secretary and Ex-officio Development
Commissioner, P. V. R. Rao, I.C.S.*

*Secretary to Government, Finance Department,
G. Mathais, I.A. and A.S.*

*Additional Development Commissioner and Ex-
officio Secretary, Planning and Development
Department, G. V. K. Rao, I.A.S.*

*Secretary to Government, Home Department,
K. Narayanaswamy, I.A.S.*

*Secretary to Government, Local Self-Government
and Public Health Department, R. Srinivasan,
I.A.S.*

*Secretary to Government, Commerce and Industries
Department, B. M. Abubaker, I.A.S.*

*Secretary to Government, Revenue Department,
K. Balasubramanyam, I.A.S.*

*Secretary to Government, Public Works and
Electricity Department, D. K. Srinivasachar,
I.A.S.*

*Secretary to Government, Education Department,
Mohamed Ahmed, I.A.S.*

*Secretary to Government, Law Department, R. P.
Vasudeo, B.A., B.L.*

*Additional Secretary to Government, Law Depart-
ment, T. K. Tukol.*

*Secretary to Government, Agriculture and Forest
Department, B. Beerappa, I.A.S.*

*Secretary, Mysore Legislature, G. S. Venkatara-
mana Iyer, B.Sc., M.L.*

Secretary to the Governor, H. N. Pallegar, I.A.S.

*Secretary, Mysore Govt. Insurance Dept., A.
Ramachandra Naidu, B.Sc.*

*Secretary, Financial Corporation, M. Vasudeva
Rao, I.A.S.*

*Deputy Secretary to Government, Public Works
and Electricity Department, V. Byrappa, I.A.S.*

*Deputy Secretaries to Government, Finance Depart-
ment, M. Veeraraj Urs, I.A.S., N. S. Bharath.*

*Deputy Secretary to Government, Development
and Planning Department, G. H. Adhirajiah.*

*Deputy Secretary to Government, General Adminis-
tration Department, T. R. Satish Chandran, I.A.S.*

*Deputy Secretary to Government, Revenue Depart-
ment, D. S. Raghavendra Char, I.A.S.*

*Deputy Secretary to Government, Agriculture and
Forest Department, M. N. Gundu Rao, B.A.,
LL.B.*

*Deputy Secretary to Government, Local Self-
Government Department, P. Honnappa, B.A.*

*Deputy Secretary to Government, Commerce and
Industries Department, K. M. Ramakrishnaiah,
B.A.*

*Deputy Secretary to Government, Education
Department, B. S. Hanuman, M.A.*

DIVISIONAL COMMISSIONERS

*Divisional Commissioner, Belgaum Division,
N. A. L. Razvi, I.A.S.*

*Divisional Commissioner, Mysore Division,
Safi Darashah, I.A.S.*

*Divisional Commissioner, Gulbarga Division,
G. N. Nagaraja Rao, I.A.S.*

*Divisional Commissioner, Bangalore Division,
R. J. Rebello, I.A.S.*

HEADS OF DEPARTMENTS

*Commissioner of Excise and Commercial Taxes,
N. Puttarangaswamy, I.A.S.*

*Commissioner for Settlement and Land Records,
H. B. Datar.*

*Director and Vice-Chairman, Mysore Iron and
Steel Works and Ex-officio Iron and Steel
Controller, T. Shamanna, I.A.S.*

*Vice-Chairman, Board of Management of the
Kolar Gold Mining Undertakings, S. Muni-
nanjappa, I.A.S.*

*Registrar of Co-operative Societies, P. Venkata-
shiva Reddy, I.A.S.*

*Additional Chief Marketing Officer, M. Tham-
malah.*

*Director of Printing, Stationery and Publications,
D. S. Gururamaswamy, B.Sc.*

Inspector-General of Police, N. N. Hosali, I.P.

Director of Medical Services, Dr. D. V. Nadkarni.

Director of Public Health, Dr. S. J. Rodda.

Chief Engineer (General), G. S. Ganapathi.

*Chief Engineer, Major Irrigation (South), R. L.
Raju.*

*Director & Vice-Chairman, Mysore Iron & Steel
Works, Bhadravati, M. D. Shivananjappa,
I.A.S.*

*Chief Engineer, Major Irrigation (North), L. C.
Muniswamy Reddy, B.A., B.E.*

*Commissioner for Labour, Chief Inspector of
Factories, Registrar of Trade Unions and Ex-
officio Director, National Employment Service
in Mysore, K. B. Marudeva Gowda, I.A.S.*

*Director of Public Instruction, A. C. Dyave
Gowda, M.A., B.T.*

*Joint Director of Technical Education, K. Chan-
nabasavappa, B.E., etc.*

*Director of Agriculture and Commissioner for
Food Production, M. Mallaraj Urs, B.Sc.,
B.Sc. (Edin.).*

*Superintendent, Government Gardens, Dr. M. H.
Mari Gowda, M.Sc. (Lucknow), Ph.D. (Harvard).*

*Director of Animal Husbandry and Veterinary
Services, Dr. K. S. Shetty.*

Director of Industries and Commerce, (Vacant).

*Additional Director of Industries and Commerce,
M. Mallahayya, M.A., LL.B.*

*Director, Rural Industrialisation, B. Beerappa,
I.A.S.*

*Chief Engineer, Hydro-Electric Construction
Projects, K. V. Narayana Rao, B.Sc., B.Sc.
(Lond.).*

*Chairman, State Electricity Board, K. Guru Dutt,
B.A., I.A.S. (Btd.).*

*Chief Engineer, Electricity Board, J. L. D'Sa,
B.E., B.Sc. (Hons.), A.M.I.E.E.*

*Commissioner for Transport, K. Henjerappa,
B.A., B.L.*

*General Manager, Mysore Government Road
Transport Department, P. J. Fernandes, I.A.S.*

Director of Social Welfare, R. Bharanajah, I.A.S.

*Director of Mines and Geology, T. P. Krishnachar,
M.Sc., F.G.S.*

*Chief Conservator of Forests, Dr. K. Kadambi,
M.Sc., D.Sc. (Munich).*

*Director of Sericulture, T. K. Krishnamurthy,
B.Sc.*

*Principal Information Officer, D. B. Ramaya, B.A.
State Statistician, A. Ananthapadmanabha Rao,
B.A., M.S. (Iowa).*

Director of Archaeology, Dr. M. Senadri.

Director of Fisheries, V. V. Kalyani, M.Sc., B.T.

*Adviser to the Govt. of Mysore, T. B. Sanatoria,
Dr. P. Somasunder.*

*Controller of State Accounts Department, H.
Ramaj Urs, B.A.*

*Director of Food Supplies, D. R. Chennarudrah,
I.A.S.*

*Chairman, Housing Board, A. Bhimappa Nalk,
M.L.A.*

Government Architect, B. R. Manikyam, B.E.

Ports Officer, M. L. Adwani.

Chief Electoral Officer, R. Sampathkumaran.

*Director, Literary and Cultural Development, A. N.
Murthy Rao, M.A.*

*Chief Editor, Mysore Gazetteer, B. N. Sri Sathyan,
B.A. (Hons.).*

Census Superintendent, G. Nanjundiah.

Kannada Translator to Govt., C. R. Anantha Rao.

HIGH COURT

Chief Justice, S. R. Das Gupta, Bar-at-Law.

*Judges, N. Srinivasa Rao; Honble Gowda; A. B.
Sommath Iyer; M. Nadarivayya; K. Sathiananda
Hegde; A. Naranjana Pal; Iqbal Hussain;
Ahmed Ali Khan (Additional).*

REVENUE APPELLATE TRIBUNAL

Chairman, N. S. Hirannayya, I.A.S.

*Members, V. Channayya, B.A., B.L., Mohammed
Rahimtulla, I.A.S., K. V. Walvekar, I.A.S.,
P. W. Gunjab, B.A., LL.B.*

PUBLIC SERVICE COMMISSION

Chairman, K. N. Padmanabiah, B.A., LL.B.

*Members, M. K. Appajappa, I.A.S.; Pampad
Gowda, B.A., LL.B.*

All India Radio, Bangalore

Station Director, Dr. A. M. Natesh.

Engineer in Charge, A. S. Narayanaswamy.

Assistant Station Director, M. S. Gopal.

*Asst. Station Engineers, Rustom A. Lal, M. R.
Bhat.*

Commissioner of Income Tax

Mysore State,

Bangalore.

*Commissioner of Income-tax, V. Sundaramurthy
Mudaliar, M.A., B.L.*

*Inspecting Asst. Commissioner of Income-tax,
Dharwar Range, V. J. Karnik, B.Com., LL.B.*

*Inspecting Asst. Commissioner of Income-tax,
Bangalore Range, V. S. Desikachari, M.A.*

ORISSA

Administrative Personnel
GOVERNOR

Y. N. Sukthankar, M.A., LL.B. (Cantab.), Bar-at-Law, I.C.S. (Retd.).

PERSONAL STAFF

Secretary to Governor, Hlt Prakash.

Under Secretary to Governor, P. N. Samaddar.

Private Secretary, Balram Baijal.

Aides-de-Camp, G. C. Senapati, I.P.S., Capt. A. M. Nandkeolyar.

MINISTERS

Chief Minister, Home, Education, General Administration, Revenue, Excise, Land Reforms, Dr. Harekrishna Mahatab.

Finance, Industry, Mining, Planning, Tribal and Rural Welfare, Health, Law, Community Development, Forest, Labour, River Valley Development, Vigilance, Pradip Port, B. N. Singh Deo.

Works, Supply, Transport, Agriculture, Co-operation & Commerce, Radhanath Rath.

MINISTERS OF STATE

Satyapriya Mahanty, Sailendra Narayan Bhanj Deo, Nilamani Rautray, Udit Pratap Sekhar Deo, Brundaban Nalk, Ram Prasad Misra, Raj Ballav Misra, Laxmi Prasad Misra.
(Portfolios not allotted—July 14, 1959).

SECRETARIAT

Chief Secretary and Secretary to Government, Political & Services Department, also Development Commissioner, Community Projects, B. Sivaraman, I.C.S.

Member, Administrative Tribunal, ex-officio Additional Secretary to Government, Political and Services and also Additional Development Commissioner, V. S. Tilak, I.A.S.

Additional Development Commissioner and Ex-officio Additional Secretary to Government, J. Mahapatra, I.A.S.

Industrial & Technical Adviser & ex-officio Additional Secretary to Government, Dr. H. B. Mohanty, M.Sc., Ph.D. (Cantab.).

Commissioner, Central Division, A. K. Barren, I.A.S.

Commissioner, Northern Division, R. Sharangi, I.A.S.

Commissioner, Southern Division, P. N. Mahanti, I.A.S.

Director of Community Project and National Extension Services and ex-officio Addl. Secretary to Government, S. M. H. Burney, I.A.S.

Addl. Secretary, A. K. Mazumdar, I.A.S.

Deputy Secretaries to Government, P. S. Habeeb Mohammed, I.A.S.; B. B. Rath, I.A.S.; S. N. Sharma, I.A.S.; B. B. Tripathi, M.A.

Deputy Director of Community Project & National Extension Services and ex-officio Deputy Secretary to Government, P. K. Mohapatra.

Deputy Director of Community Project and National Extension Services & ex-officio Deputy Secretary to Government, A. G. Bhattacharya.

Director of Gram Panchayats and ex-officio Deputy Secretary, B. R. Patel, I.A.S.

Deputy Director of Gram Panchayats and ex-officio Deputy Secretary, V. N. Sahu.

Superintendent of Police (Vigilance) and ex-officio Deputy Secretary to Government, G. Das, I.P.S.

Special Officer-cum-Dy. Secretary, Nilamani Mohanty, B.A.

Financial Adviser-cum-Dy. Secretary, S. S. Mohanty, M.A.

Under Secretary to Government and Secretary to Administrative Tribunal, G. C. Parija, M.A.

HOME DEPARTMENT

Secretary to Government, H. K. Ghosh, I.A.S.

Deputy Secretary to Government, V. N. Rath, I.A.S. (also Chief Electoral Officer).

FINANCE DEPARTMENT

Secretary to Government, M. Ramakrishnayya, I.A.S.

Deputy Secretaries to Government, B. K. Mohanty, I.A.S.; D. Mohapatra, M.A.; N. K. Panda, I.A.S.

Audit Officer & ex-officio Deputy Secretary to Government, D. S. Mohanty, B.Com.

SUPPLY DEPARTMENT

Secretary and Controller of Supplies, V. S. Mathews, I.A.S.

Deputy Director of Supplies and ex-officio Deputy Secretary to Government, Trinath Mohapatra, B.L.

TRANSPORT AND WORKS DEPARTMENT

Secretary to Government, K. Singh, I.A.S.

Deputy Secretaries to Government, A. C. Bandyopadhyay, I.A.S.; A. M. Rao, B.Sc.

TRIBAL & RURAL WELFARE DEPARTMENT

Director of Tribal & Rural Welfare and ex-officio Secretary to Government, K. C. Ray, I.A.S.

Deputy Director of Tribal & Rural Welfare and ex-officio Deputy Secretary to Government, P. Misra, B.Sc.

DEVELOPMENT DEPARTMENT

Secretary to Government, S. S. Murty, I.A.S.

Deputy Secretaries to Government, B. N. Das, I.A.S.; D. P. Das.

RELIEF & REHABILITATION DEPARTMENT

Secretary, Dr. N. Dutta Mazumdar, I.A.S.

LAW DEPARTMENT

Secretary to Government, G. B. Misra, M.A., B.L.

Superintendent & Remembrancer of Legal Affairs and ex-officio Additional Secretary to Govt., A. Misra, B.L.

COMMERCE DEPARTMENT

Secretary to Government, V. S. Mathews, I.A.S.

LABOUR DEPARTMENT

Secretary to Government, K. C. Ray, I.A.S.

REVENUE & EXCISE DEPARTMENT

Secretary to Government, R. P. Padhi, I.A.S.

Deputy Secretaries to Government, M. P. Nanda, B.A.; Jagannath Das, M.Sc.

EDUCATION DEPARTMENT

Secretary to Government, Pramod Singh, I.A.S.

Deputy Secretary to Government, G. C. Satpathy.

INDUSTRIES, MINING & GEOLOGY DEPARTMENT

Secretary to Government, A. G. Menon, I.A.S.

Addl. Secretary to Government, D. L. Purukayastha, I.A.S.

Deputy Secretary, G. Swain, B.A.

HEALTH DEPARTMENT

Secretary to Government, Dr. N. Dutta Mazumdar, I.A.S.

Deputy Secretary, U. N. Patnaik.

PRINCIPAL OFFICIALS

Director of Forests, G. N. Mathur.

Chief Engineer, Public Works & Public Health, K. K. Kartha, I.C.S.

Chief Engineer, Electricity, P. V. A. Narayan Murty.

Chief Engineer, Irrigation, S. K. Palit.

Labour Commissioner-cum-Inspector of Factories, also Chief Inspector of Boilers, S. S. Parija.

Director of Agriculture and Food Production, G. C. Dash, I.A.S.

Director of Veterinary Services, G. B. Singh, B.A., M.R.C.V.S. (Sweden).

Director of Public Instruction, B. C. Das, M.A. (Pat.), B.A. (Hon.) (Lond.).

Controller, State Transport, Col. S. K. Roy, I.A. (Retd.).

Superintendent of Government Press, Md. S. H. Khan, M.A., B.S.A., A.R.P.S.

Director of Industries, B. Venkataraman, I.A.S.

Director of Fisheries, G. N. Mitra, M.Sc.

Director of Health Services, Brig. B. D. Khurana.

Inspector-General of Police, R. C. Das, I.P.

Registrar of Co-operative Societies, K. Ramamurthy, I.A.S.

Inspector-General of Prisons, Dr. G. C. Patnaik, M.B.B.S.

Member, Arbitration Tribunal, B. Misra, I.A.S.

Director, National Employment Services, P. M. Samantaray.

Commissioner of Commercial Taxes, S. Nanda, I.A.S.

Advocate-General, D. Mohanty.

BOARD OF REVENUE

Member, V. Ramanathan, I.C.S.

Secretary, N. Sahu, B.A. (Hons.), I.A.S.

HIGH COURT

Mr. Justice R. L. Narasimham, I.C.S., Chief Justice.

Mr. Justice Souril Prasad Mohapatra, M.A., B.L., Puisne Judge.

Mr. Justice P. V. B. Rao, B.A., B.L., Puisne Judge.

Mr. Justice G. C. Das, B.A., B.L., Puisne Judge.

Mr. Justice S. B. Barman, Bar-at-Law, Additional Judge.

K. C. Nanda, M.A., B.L., Registrar.

S. K. Patro, B.L., Deputy Registrar.

O. S. Misra, B.L., Assistant Registrar.

B. B. Chowdhury, LL.B., Addl. Asst. Registrar.

PUBLIC SERVICE COMMISSION

Chairman, S. N. Mahapatra, I.A.S. (Retd.).

Member, P. S. Sundaram, B.A. (Oxon.).

Member, H. P. Deb.

Secretary, U. Das, B.A. (Hons.), Dip-in-Ed.

Asst. Secy., K. S. Padhi, B.A.

PUNJAB

ADMINISTRATIVE PERSONNEL
GOVERNOR

N. V. Gadgil.

Secretary, H. S. Acherja, I.A.S.
A.D.C., Capt. K. K. Naunda.
Military Secretary, Major G. K. Vaze.

MINISTERS

General Administration (including Publicity), Elections, Integration, Anti-Corruption, and Political Sufferers, Law and Order, Social Welfare, Scheduled Castes & Tribal Areas, Chief Minister, S. Partap Singh Kalron.

Finance, Excise & Taxation, Planning and Statistics, Dr. Gopi Chand Bhargava.

Industries, Civil Supplies, Local Bodies (excluding Panchayats), Jails and Justice and Legislative Department, Mohan Lal.

Agriculture, Animal Husbandry, Fisheries, Forests and Game Preservation, Giani Kartar Singh.

Panchayats and Community Development, Gian Singh Barewala.

Education, Labour, Printing and Stationery and Languages, Amar Nath Vidyalkar.

Medical and Health, Co-operations, Gurbanta Singh.

Revenue (Relief and Rehabilitation), Consolidation, Transport and Sports, Rao Birendra Singh.

Public Works Department (Buildings and Roads), Capital Project, Public Health Engineering and Housing, Suraj Mal.

DEPUTY MINISTERS

Local Government, Scheduled Castes and Backward Classes, Welfare among Harijans, Yashwant Rai. (Attached to Revenue Minister & Agriculture & Forest Minister.)

Health (Health and Medical), Social Welfare, Mrs. Dr. Parkash Kaur. (Attached to Chief Minister.)

Community Projects & Irrigation & Power, Dalbir Singh. (Attached to Chief Minister.)

Education, Harbans Lal. (Attached to Finance Minister and Education & Labour Minister.)

Jails, Food and Supplies, Banarsi Dass. (Attached to Finance Minister.)

Development of Hilly Backward Areas and Forests, Pratap Singh. (Attached to Chief Minister.)

Chief Parliamentary Secretary (Publicity), Hans Raj Sharma.

SECRETARIAT

Chief Secretary, E. N. Mangat Rai, I.C.S.

Home Secretary, N. N. Kashyap, I.C.S.

Financial Commissioners, B. S. Grewal, I.C.S. (Development); G. S. Kahlon, I.C.S. (Revenue).

Development Commissioner and Planning Secretary, K. S. Randhawa, I.A.S.

Election Commissioner, Sarup Krishan, I.C.S.

Health and Local Government Department and Panchayats, H. S. Kang, I.A.S.

Secretary, Irrigation and Power Depts., N. K. Mukerji, I.C.S.

Secretary, Language, Housing & Printing and Stationery Departments, R. I. N. Ahooja, I.A.S.

Secretary, Planning, and Development Commissioner, Saroop Krishan, I.C.S.

Secretary, Industries & Transport Department, H. B. Lall, I.A.S.

Secretary, Food and Co-operation Departments, B. S. Talwar, I.A.S.

Secretary, Anti-Corruption Department, Sher Jang Singh.

Secretary, Agriculture Department, K. S. Narang, I.A.S.

Legal Remembrancer and Secretary, Legislative Department, Shamsher Bahadur, Bar-at-Law.

Secretary, B & R, Public Health and Capital Project, B. B. Vohra, I.A.S.

Secretary, Education, B. S. Manchanda, I.A.S.

General Manager, Bhakra Dam, Nangal, M. R. Chopra.

Commissioner, Patiala Division, B. P. Kapoor, I.C.S.

Commissioner, Ambala Division, K. L. Budhraj, I.A.S.

Commissioner, Jullundur Division, R. S. Randhawa, I.A.S.

PRINCIPAL OFFICIALS

Director of Industries, Punjab, Chandigarh, J. N. Thadani, I.A.S.

Chief Electoral Officer, A. N. Kashyap, I.A.S.

Inspector General of Police, Waryam Singh, I.P.

Director of Agriculture, Dr. Arjan Singh.

Secretary, Punjab Vidhan Sabha Secretariat, Chandigarh, Dr. Kuldeep Chand Bedi.

Director of Health Services, Dr. Jagdish Singh.

Secretary, Punjab Legislative Council Secretariat, Chandigarh, R. L. Nigola.

Director, Public Instruction, I. M. Verma.

Controller of Printing & Stationery, Punjab, Chandigarh, K. C. Kuriyan.

Director, Hospitality Organisation, Punjab, Chandigarh, Maj. G. K. Vaze.

Provincial Transport Controller, Harkishan Singh Minhas, I.A.S.

Director, Public Relations & Tourism, Punjab, R. L. Verma, M.A., L.L.B.

Director, Food & Supplies, Chandigarh, P. C. Suri.

Inspector General of Prisons, B. C. Katoch.

Director, Social Welfare, R. C. Pandit.

Director, Civil Home Defence, Punjab, Mangal Singh.

The Administrator General and Official Trustee Treasurer, Charitable Endowments, Parkash Chand Mahajan.

Chairman, Subordinate Services Selection Board, Rao Bhim Singh.

Chief Engineer, Capital Project, Chandigarh, R. N. Dogra.

Chief Engineer, Irrigation (South), Chandigarh, A. S. Kalia, I.S.E.

Chief Engineer, Construction, Chandigarh, R. I. Khanna, I.S.E.

Chief Engineer, Irrigation (North), Chandigarh, C. L. Handa, I.S.E.

Chief Engineer (Central), S. N. Kapur, I.S.E.

Director of Panchayats, Punjab, Jullundur, Net Ram (Offg.).

Registrar, Co-operative Societies, Punjab, Jullundur, M. L. Batra, I.A.S.

Chief Engineer, B. & R. (South), Patiala, D. C. Sharma.

Chairman, Punjab State Electricity Board, Patiala, H. R. Bhatia.

Chief Engineer, Public Health, Patiala, Balwant Singh.

Senior Architect, Chandigarh, P. Jeanneret.

Estate Officer, Capital Project, P. S. Multani, I.A.S.

Economic & Statistical Adviser, Punjab, Simla, B. L. Anand.

Secretary, Board of Economic Enquiry, Sardar Gurdit Singh.

Chief Conservator of Forests, Simla, G. S. Dhillon.

Director, Consolidation of Holdings, Punjab, Jullundur, Sampuran Singh.

Director-General, Small Savings, Punjab, Chandigarh, Bachitar Singh, I.A.S.

Labour Commissioner, Punjab, Ambala, Harbans Raj Singh.

Director of Land Records, Punjab, Jullundur, Bhim Singh, P.C.S.

Director of Animal Husbandry and Warden of Fisheries, Punjab, Simla, M. S. Malhi.

Director, Language Department, Punjab, Patiala, B. S. Gill.

Custodian, Evacuee Property, Punjab, Sarla Khanna, I.A.S.

Director of Scheduled Castes and Backward Classes, Punjab, Jullundur, M. R. Bhagat.

Director, Ayurvedic, Patiala, K. Narain.

Director, National Employment Services, Punjab, Ambala, Jatinder Lal.

Colonization Officer, Jullundur, Bhag Singh.

Keeper of Records, Patiala, V. S. Suri.

DEPUTY COMMISSIONERS

Deputy Commissioner, Ludhiana, Daljit Singh, I.A.S.

Deputy Commissioner, Ambala, C. D. Kapur, I.A.S.

Deputy Commissioner, Amritsar, Balwant Singh, I.A.S.

Deputy Commissioner, Kapurthala, Pritmohinder Singh, I.A.S.

Deputy Commissioner, Gurdaspur, Damodar Dass, I.A.S.

Deputy Commissioner, Sangrur, M. S. Bedi, I.A.S.

Deputy Commissioner, Kangra, N. Khosla, I.A.S.

Deputy Commissioner, Gurgaon, Rattan Singh, I.A.S.

Deputy Commissioner, Patiala, S. N. Vasudeva, I.A.S.

Deputy Commissioner, Jullundur, S. C. Chabra, I.A.S.

Deputy Commissioner, Hissar, Prem Kumar, I.A.S.

Deputy Commissioner, Karnal, Bhim Singh, I.A.S.

Deputy Commissioner, Hoshiarpur, Sube Singh, I.A.S.

Deputy Commissioner, Ferozepore, P. P. Caprihna, I.A.S.

Deputy Commissioner, Rohtak, Gurbakhsh Singh, I.A.S.

Deputy Commissioner, Simla, Wazir Singh Tejli.

Deputy Commissioner, Bhutinda, Sherjajit Singh, I.A.S.

Deputy Commissioner, Mohindergarh, L. C. Gupta, I.A.S.

HIGH COURT

Mr. Justice A. N. Bhandari, I.C.S. Chief Justice.

Mr. Justice G. D. Khosla, I.C.S. Punes Judge.

Mr. Justice D. Palsaw, I.C.S. Do.

Mr. Justice S. S. Dulat, I.C.S. Do.

Mr. Justice Bishan Narain Do.

Mr. Justice Girdhari Lal (Chopra) Do.

Mr. Justice Mehar Singh Do.

Mr. Justice Tek Chand Do.

Mr. Justice Kundan Lal Goswami Do.

Mr. Justice S. B. Kapoor, I.C.S. Do.

Mr. Justice A. N. Grover Do.

Mr. Justice R. P. Khosla Do.

Mr. Justice I. D. Dua Do.

Mr. Justice Harbans Singh Do.

Additional Judges, Mr. Justice Daya Krishan

Mahajan, Mr. Justice Jagjit Singh Bedi,

Mr. Justice Shamsher Bahadur.

Advocate-General, S. M. Sikri.

PUBLIC SERVICE COMMISSION

Chairman, Sardar Ranbir Singh.

Members, Hardwar Lal; Achhra Singh; Pitam Singh Jain; Abdul Majid Khan.

Commissioner of Income Tax, Punjab, Jammu and Kashmir and Himachal Pradesh

Simla 4.

Commissioner of Income Tax, S. K. Ganguli, I.S.S.

Inspecting Asst. Commissioners of Income Tax, Hans Raj Puri, I.S.S. (Amritsar); S. S. Ratna, I.S.S. (Patiala); H. D. Bahl, I.S.S. (Jammu).

RAJASTHAN

ADMINISTRATIVE PERSONNEL

Governor : Gurumukh Nihal Singh.

Secretary to Governor : R. D. Khanna, I.A.S.

A.D.C.s : Capt. J. N. Singh, Capt. Gupta.

Ministers

Chief Minister in charge of General Administration, Political, Appointments, Planning and Development (Co-ordination), Community Projects, Education (excluding Basic Education) and Industries and Mines : Mohanlal P. Sukhadia.

Minister for Finance, Excise and Taxation, Basic Education, Khadi and Village Industries and Social Welfare : Harsi Bhan Upadhyaya.

Minister for Home (except Transport, Stationary and Printing and Government Presses), Law and Legal Remembrancer's Office, Judicial and Irrigation and Power : Ram Kishore Vyas.

Minister for Revenue (including Jagir Resumption), Devasthanas, Relief and Rehabilitation and Famine Relief, Damodar Lal Vyas.

Minister for Local Self-Government, Printing and Stationary and Government Presses, Legislative Assembly and Elections, Medical, Food and Civil Supplies and Labour, Badri Prasad Gupta.

Minister for Agriculture, Co-operation, Forests, Public Works Department and Transport, Nathu Ram Mircha.

Deputy Ministers

Dy. Minister for Revenue, Excise and Community Projects, Sampat Ram.

Dy. Minister for Irrigation, Power and Medical, Bhika Bhai Bhl.

Dy. Minister for Education and Planning, Poonam Chand Vlahol.

Dy. Minister for Finance, Industries and Mines, Rikhab Chand Dharwal.

Dy. Minister for Agriculture, Co-operation & Panchayats, Daulat Ram Saran.

Secretariat

Chief Secretary, Bhagwat Singh Mehta, I.A.S.

Addl. Chief Secretary and Development Commissioner, B. L. Rawat, I.A.S.

Finance Secretary, Ganga Sahai Purohit, I.A.S.

Home Secretary, Z. S. Jhala, I.A.S.

Revenue Secretary, R. K. Chaturvedi, I.A.S.

Irrigation Secretary, Goverdhan Singh, I.A.S.

P.W.D. Secretary, Surendra Singh, I.A.S.

Industries Secretary, A. K. Roy, I.A.S.

Agriculture Secretary, Khem Chand, I.A.S.

Law Secretary, P. D. Lalwal, I.A.S.

Education Secretary, Vishnu Dutt Sharma, I.A.S.

Addl. Secretary, Appointments, R. D. Mathur, I.A.S.

Addl. Secretary, Finance, Ram Singh.

Principal Officials

Director of Education, S. S. Saxena.

Director of Agriculture, Samarth Raj, B.A.S.

Director of Local Bodies, G. K. Bhagat.

Director of Industries, Gurdhan Singh, I.A.S.

Director of Rehabilitation, S. N. Misra.

Director of Medical and Health Services, Dr. B. N. Sharma.

Director of Public Relations, Rajendra Shankar Bhatt.

Director, Social Welfare, Parmanand.

Inspector General of Police, Goverdhan, I.P.S.

Director of Transport, Roshan Mal.

Chief Engineer, Buildings and Roads, Kishori Lal.

Chief Engineer, Irrigation, Moti Ram.

Chief Conservator of Forests, N. N. Sen.

Commissioner, Excise and Taxation, Gulzari Lal.

Commissioner, Labour, C. Issar.

Commissioner, Jagir, Daulat Singh.

Registrar, Co-operative Societies, Niranjan Singh, I.A.S.

Director, Mines and Geology, M. L. Shethi.

Engineer, Electrical and Mechanical, K. K. Balani.

Board of Revenue

Ajmer.

Chairman, Shyam Lal, I.A.S.

Members, Kanwar Bahadur, I.A.S. ; J. N. Kunzru, I.A.S. ; R. N. Hawa, I.A.S.

Registrar, P. D. Khanna.

Public Service Commission

Lohagal, Ajmer.

Chairman, Laxmi Lal Joshi.

Member, Raghukul Tilak.

Secretary, Raj Beharlal Mathur.

High Court

Jodhpur.

Chief Justice, Sarjoo Prashad.

Judges, Durga Shankar Dave, Inder Nath Modi, Jasat Narayan, Kanwar Lal Rapna, Jawan Singh Ranawat and Daulat Mal Bhandari.

Registrar, C. Jacob.

Advocate-General, Gulab Chand Kaaliwal.

Editor, Law Reports (Rajasthan Series), M. L. Razdan.

Government of India Tourist Office

Rajasthan State Hotel, Jaipur.

Manager, Shiv Prasad Tewari.

TRIPURA

ADMINISTRATIVE PERSONNEL

Chief Commissioner, N. M. Patnaik, I.A.S.

Chief Secretary, S. K. Sarkar, I.A.S.

District Magistrate and Collector, Lt.-Col. H. S. Butalia, I.F.A.S.

Addl. District Magistrate, H. S. Dubey, I.F.A.S.

Senior Dy. Magistrate, N. N. Choudhury.

Secretaries, R. K. Dev Barma ; Bishan Chandra ; K. B. Mathur ; G. N. Chatterjee.

Dev. Commissioner, Vacant.

Dy. Secretaries, H. K. Dev Barma ; G. N. Sri-bastav.

Secretary to the Chief Commissioner, P. Mukherjee.

Director of Education, G. N. Chatterjee.

Director of Agriculture, H. Nathani.

Director of Land Records, P. R. Purohit.

Director of Industries, M. K. Majumder.

Director of Rehabilitation, P. Mujumder.

Dis. Forest Officer, N. C. Bhattacharjee.

Principal Engg. Officer, M. M. Patel, B.E., A.M.I.E.

Superintendent of Police, H. N. Sarkar.

Commandant, Armed Police, Major H. K. Dev Barma.

Legal Remembrancer, Vacant.

Registrar, Tripura Secretariat, S. B. K. Dev Barma.

Superintendent of Press, B. K. Do.

Inspectors of Schools, M. G. Bhattacharjee ; H. Dutt Choudhury.

Statistical Officer, C. R. Paul.

Labour Officer, B. C. Halder.

Publicity Officer, S. C. Bhattacharyya.

Judicial Commissioner, T. N. R. Tirumalpad.

Dist. and Sessions Judge, S. C. Talukdar.

Subordinate and Assistant Sessions Judge, Chandrabas Singha.

Co-operative Officer, R. N. Bhattacharjee.

Tribal Welfare Officer, Nareesh Chandra, M.Sc.

Project Executive Officer, Community Project, S. Bhowmik.

Principal, M.B.B. College, S. K. Choudhury.

Principal, Ramkrishna Mahabidyalay, Kailashar, Sachchidanand Dhar.

Principal, Basic Training Institute, S. K. Banerjee.

Superintendent of Survey, R. Sankaranarain.

Superintendent of Central Jail, N. G. Kar Bhowmik.

TRIPURA TERRITORIAL COUNCIL

Chairman, Sachindra Lal Singh.

Vice-Chairman, Talit Mohan Das Gupta.

Chief Executive Officer, N. L. Dev Barma.

Special Officer, P. K. Dev Barma.

Principal Officer (Education), I. K. Roy.

Principal Officer (Health), A. C. Bhattacharjee.

Principal Officer (Engineering), A. K. Sen.

Revenue and Public Relations Officer, K. P. Dutta.

Animal Husbandry Officer, K. Vanchinathan.

UTTAR PRADESH

ADMINISTRATIVE PERSONNEL

Governor, V. V. Giri.

PERSONAL STAFF

Secretary to the Governor, Mahesh Chand Sharma, I.A.S.
Hon. *Aides-de-Camp*, Rta. Major and Hon. Capt. Manindra Nath; Capt. Bhagwan Din.
Under Secretary, Governor's Secretariat, Prem Ballabh Pande.
Superintendent, Govind Ballabh Pant.
P.A. to the Governor, K. B. Nagappa.

MINISTERS

Chief Minister, Industries, Planning, Labour and Genl. Adm., Dr. Sampurnanand.
Health, Justice, Relief and Rehabilitation, Revenue, Hukum Singh Vasan.
Public Works, Irrigation, Power, Girdhari Lal.
Finance and Forests, Syed Ali Zaheer.
Local Self-Government, Vichitra Narayan Sharma.
Information, Home, Education, Harijan Welfare, Estate Department, Kamalapati Tripathi.
Agriculture, Co-operation, M. L. Gautam.

MINISTERS OF STATE

Social Security and Social Welfare, Laxmi Raman Acharya.
Excise and Transport, Dr. Sita Ram.
Food and Civil Supplies, Jagmohan Singh Negi.

DEPUTY MINISTERS

Health, Relief and Rehabilitation, Baldeo Singh Arya.
Home, Ram Swarup Yadav.
Local Self-Government, Ram Swarup Yadav.
Labour and Industries, Hemvatinandan Bahuguna.
Public Works, Mahabir Singh.
Planning, Sultan Alam Khan.
Co-operation, Virendra Verma.
Local Self-Govt., Jai Ram Verma.
Revenue, M. P. Shukla.
Education, Din Dayal Shastri.
Agriculture, K. C. Agarwal.

PARLIAMENTARY SECRETARIES

Parliamentary Secretaries attached to Chief Minister, Kripa Shankar; Raj Behari Singh.
Parliamentary Secretary attached to Minister, Revenue, Dharam Singh.
Parliamentary Secretary attached to Minister for Home, Education and Information, Istifa Hussain.

U. P. PUBLIC SERVICE COMMISSION

Chairman.

Nafisul Hasan, M.A., LL.B.

Members.

Radha Krishna, M.A., LL.B.
Surat Narain Mani Tripathi, M.A., LL.B.
Girish Chandra, M.A., LL.B.
Ram Narresh Lal, M.A., LL.B. (Secretary).

SECRETARIAT

Chief Secretary, and Information Secretary, Govind Narayan, I.C.S.
Finance Secretary, B. B. Lal, I.C.S.
Secretary, Public Works (B. & R.), Transport and Relief & Rehabilitation, also Commissioner, Relief & Rehabilitation and Regional Settlement Commissioner, B. S. Das, I.A.S.
Secretary, Irrigation and Power Deptts., Ram Sahay, I.A.S.
Secretary, Home Department, also Director, Organisation and Methods Division, U.P., M. G. Kaul, I.C.S.

Revenue Secretary, Zahurul Hasan, I.A.S.

Judicial Secretary and Legal Remembrancer, Mithan Lal, B.Sc., LL.B., H.J.S.

Secretary, Legislature, Rup Chandra, B.Sc., LL.B., H.J.S.

Secretary, Education Department, Kehar Singh, I.A.S.

Secretary, Development Commissioner and Addl. Secretary, Planning Deptt., and Secretary, Economics & Statistics, Social Welfare and Harijan Sahayak Deptts., Satish Chandra, I.C.S.

Secretary, Local Self-Government, Shri Pat, I.A.S.

Secretary, Industries, Labour and Excise, S. S. L. Kakkar, I.A.S.

Secretary, Agriculture, Animal Husbandry Deptts., also Director, Small Savings, R. K. Talwar, I.A.S.

Secretary, Medical, Public Health and Food and Civil Supplies Deptts., also Commissioner, Food and Civil Supplies, B. N. Seth, I.A.S.

Secretary, Co-operative and Cane Departments, K. N. Channa, I.A.S.

HEADS OF DEPARTMENTS

Accountant-General, C. KODAR, D.D.A.S.

Commissioner of Income-tax (Central), T. G. Menon, I.R.S.

Postmaster-General (Central), S. Swarup.

Chief Conservator of Forests, Rameshwar Sahai, I.F.S.

Chief Engineers, Madhab Singh Bhaht, C.E. (P.W.D.); Akhil Chandra Mitra, B.Sc., M.I.E., M.A., B.O.C., C.E., I.R.S. (Irrigation Department); Om Prakash Bhasin (Electricity Department).

Commissioner of Labour, Prakash Aileen, I.A.S.
Commissioner for Food and Civil Supplies, B. S. Seth, I.A.S.

Custodian of Evacuee Property, H. C. Asthana.

Director of Agriculture, Dr. B. K. Mukerji, Ph.D., D.Sc.

Director of Animal Husbandry, B. N. S. Chowdhary.

Director of Education, Chandra Mohan Nath Chak, M.Sc., B.A. (Cantab.).

Excise Commissioner, Yogendra Nath Verma, I.A.S.

Director of Government Printing and Stationery, Moni Gopal Shome.

Director of Industries, Mahabir Saran Das, I.A.S.
Director of Public Health, Dr. Krishna Murari Lal.

Director of Information, Bhagwati Sharan Singh.

Inspector-General of Police, M. S. Mathur, I.P.

Inspector-General of Prisons, Dr. Chandrika Prasad Tandon.

Inspector-General of Registration, Jwala Prasad Singh.

Superintendent of Census, T. K. Bhatnagar.

Transport Commissioner, D. S. Rathore, I.A.S.

Sales Tax Commissioner, Harish Chandra Saxena, I.A.S.

Registrar, Co-operative Societies, Iftikhar Hussain, I.A.S.

Cane Commissioner, B. L. Chak, I.A.S.

Director of Social Welfare, S. P. Watal, I.A.S.

Director of Panchayats, Bhagwant Singh, I.A.S.

Commissioner of Consolidation, I. D. N. Sahi, I.A.S.

Director of Organisation and Methods Division, M. G. Kaul, I.C.S.

Director, National Employment Service, G. B. Nagar.

Director, Harijan Sahayak, Iftikhar Hussain.

North-Eastern Railway

General Manager, S. S. Ramasubban.
Dy. General Manager (W), H. L. Khanna.
Secretary to General Manager, I. C. Badhwar.
Public Relations Officer, S. K. Dutta.

PERSONNEL :

Chief Personnel Officer, H. P. Varma.
Dy. Chief Personnel Officer, K. Devanathan.

SECURITY :

Chief Security Officer, S. A. Thomas.

ENGINEERING :

Chief Engineer, A. C. Khashtgir.
Engineer-in-Chief, T. V. S. Ayyar.
Dy. Chief Engineer (East), Man Mohan Singh.
Dy. Chief Engineer (West), Inder Singh.
Dy. Chief Engineer (Bridges), Kalicharan.

TRANSPORTATION :

Chief Operating Superintendent, Rajendra Dev.
Dy. Chief Operating Superintendent (G), A. K. Gupta.
Dy. Chief Operating Superintendent (C), M. K. Majumdar.

COMMERCIAL :

Chief Commercial Superintendent, Vacant.
Dy. Chief Commercial Superintendent, T. N. Parthasarathy.

MECHANICAL :

Chief Mechanical Engineer, E. G. Kotiswaran.
Dy. Chief Mechanical Engineer (R), C. D. Mirchandaney.
Dy. Chief Mechanical Engineer (G), M. M. Bam.
Dy. Chief Mechanical Engineer (Shops), C. B. Lal.
Dy. Chief Marine Superintendent (M.K.G.), A. H. Alwyn.

ELECTRICAL :

Chief Electrical Engineer, S. S. Kochak.

SIGNAL AND TELE-COMMUNICATION :

Chief Signal and Tele-Communication Engineer : A. J. Gillies.

STORES :

Controller of Stores, P. Hoon.
Dy. Controller of Stores, R. N. Mubayi.

MEDICAL :

Chief Medical Officer, Dr. I. B. Chaudhury.

ACCOUNTS :

Financial Adviser and Chief Accounts Officer, C. D. Dharkar.
Dy. Chief Accounts Officer, Hussain Aga.
Dy. Financial Adviser, P. N. Balna.

RAILWAY SERVICE COMMISSION

19, Albert Road, Allahabad.

Chairman, R. B. P. Sinha.

Member, R. P. Tamta.

Office of the Commissioner of Income Tax

U. P., Lucknow.

Commissioner of Income Tax, T. Gopala Menon, B.A., A.C.A., I.R.S.

Inspecting Asst. Commissioners of Income-Tax, K. B. Johnson, B.A., I.R.S. (Varanasi); S. N. Roy, B.A. (Hons.), I.R.S. (Lucknow).

Judicial Department

(HIGH COURT OF JUDICATURE AT ALLAHABAD.)

Mr. Justice O. H. Mootham, Bar-at-Law (E.D.)	..	..	..	..	..	Chief Justice.
Mr. Justice Raghubar Dayal, I.C.S.	..	..	..	..	..	Judge.
Mr. Justice Manu Lal Chuni Lal Desai, B.A. (Cantab.), I.C.S.	..	..	..	..	..	Do.
Mr. Justice Vashistha Bhargava, I.C.S.	..	..	..	..	..	Do.
Mr. Justice Ram Narain Gurtu, B.A. (Oxon.), Bar-at-Law	..	..	..	..	..	Do.
Mr. Justice Nasirul'ah Beg, M.A. (Cantab.), Bar-at-Law	..	..	..	..	..	Do.
Mr. Justice Basudeva Mukerji, M.A., LL.B.	..	..	..	..	..	Do.
Mr. Justice Miori Lal Chaturvedi, B.A., LL.B.	..	..	..	..	..	Do.
Mr. Justice Dwijendranath Roy, M.A., LL.B.	..	..	..	..	..	Do.
Mr. Justice Basil Reginald James, I.C.S.	..	..	..	..	..	Do.
Mr. Justice Anand Narain Mulla, M.A., LL.B.	..	..	..	..	..	Do.
Mr. Justice Sri Narain Sahai, B.A., LL.B.	..	..	..	..	..	Do.
Mr. Justice Vishnu Dutta Bhargava, B.A., LL.B.	..	..	..	..	..	Do.
Mr. Justice Ba'aram Ujadhya, M.A., LL.B.	..	..	..	..	..	Do.
Mr. Justice Vidyadhar Govind Oak, I.C.S.	..	..	..	..	..	Do.
Mr. Justice Ambika Prasad Srivastava, M.A., LL.B.	..	..	..	..	..	Do.
Mr. Justice Jagbans Kishore Tandon, B.A., LL.B.	..	..	..	..	..	Do.
Mr. Justice Jagdish Fahai	..	..	..	..	..	Do.
Mr. Justice Bishambhar Dayal	..	..	..	..	..	Do.
Mr. Justice Jawaharnath Takru	..	..	..	..	..	Do.
Mr. Justice Bishan Narain Nigam, M.A., LL.B., I.C.S.	..	..	..	..	..	Do.
Mr. Justice S. S. Dhavan, B.A. (Cantab.), (Bar-at-Law)	..	..	..	..	..	Do.
Mr. Justice W. Broome, I.C.S.	..	..	..	..	..	Do.
Mr. Justice D. S. Mathur, I.C.S.	..	..	..	..	..	Do.
Mr. Justice Debi Prasad Uniyal	..	..	..	..	..	Do.
Mr. Justice Surendra Narayan Dwivedi	..	..	..	..	..	Do.
K. P. Mathur, M.A., LL.B.	..	..	..	..	..	Registrar.
R. P. Dikshit, B.Sc., LL.B.	..	..	..	..	..	Joint Registrar.
Kanhalya Lal Misra, B.A. (Hons.), LL.B.	..	..	..	..	..	Advocate-General.
Dr. M. H. Faruqi, M.A., LL.B. (Ph.D.), Bar-at-Law	..	..	..	..	..	Govt. Advocate.
Prithvi Nath Chaudhuri, B.A., LL.B.	..	..	..	..	..	Additional Govt. Advocate.
Jagdish Kishore Srivastava, B.A., LL.B.	..	..	..	..	..	Administrator-General and Official Trustee.

WEST BENGAL

ADMINISTRATIVE PERSONNEL

Governor

Shrimati Padmaja Naidu.

Secretaries

S. Dutt Mazumdar, I.A.S. (Secy. to Governor, Raj Bhavan, Calcutta).
P. R. Sinha, (Special Officer to Governor, Raj Bhavan, Calcutta).
S. N. Sen (Dy. Secy. to Governor and Director of Hospitality, Raj Bhavan, Calcutta).
P. B. Sengupta (Dy. Secy. to Governor, Raj Bhavan, Calcutta).

Ministers

Chief Minister, Minister-in-charge of Home (excluding Police, Defence), Finance, Co-operation, Cottage & Small-scale Industries, and Development Dept., Dr. B. C. Roy.
Minister-in-charge of Irrigation and Waterways Dept., Ajoy Kumar Mukherjee.
Minister-in-charge of Works and Buildings and Housing Dept., Khagendra Nath Das Gupta.
Minister-in-charge of Law, Local Self-Government and Panchayat Dept., Iswar Das Jalan.
Minister-in-charge of Food, and Supplies and Refugee, Relief and Rehabilitation Dept., Prafulla Chandra Sen.
Minister-in-charge of Animal Husbandry, Dr. Rafiuddin Ahmed.
Minister-in-charge of Home (Police and Defence), Kalipada Mookherjee.

Minister-in-charge of Commerce and Industries, and Tribal Welfare, Bhupati Mazumdar.
Minister-in-charge of Fisheries and Forests Dept., Hem Chandra Naskar.

Minister-in-charge of Labour, Abdus Sattar.

Minister-in-charge of Excise Dept., Shyama Prosad Burman.

Minister-in-charge of Land and Land Revenue, Bimal Chandra Sinha.

Minister-in-charge of Education, Rai Harendra Nath Chowdhuri.

Minister-in-charge of Agriculture and Food Production, Tarun Kanti Ghosh.

Ministers of State

Minister-in-charge of Refugee, Relief, Rehabilitation and Jail, Smt. Purabi Mukherjee.

Minister-in-charge of Health, Dr. Anath Bandhu Ray.

Deputy Ministers

Home (Transport), Satish Chandra Roy Singha.

Tribal Welfare, Tenzing Wangdi.

Relief and Supplies, Rajani Kanta Pramanik.

Cottage and Small-scale Industries, S. Kazem Ali Mirra.

Refugee Relief and Rehabilitation, Shrimati Maya Banerjee.

Home (Publicity), Jagannath Kolay.

Education, Sourindra Mohan Mera.

Agriculture, Animal Husbandry and Forests, Smarajit Banerjee.

Police, Arghendu Sekhar Naskar.

Co-operation, Chittaranjan Roy.

Health, Ziaul Huq.

Food, Charu Chandra Mohanti.

Lapour, Narbahadur Gurung.

Secretariat

Chief Secretary, S. N. Ray, I.C.S.

Secretary, Home Dept., M. M. Basu, I.C.S.

Secretary, Finance Department, H. N. Roy, I.C.S.

Secretary, Refugee Relief and Rehabilitation Dept., and Commn., R. R. & R., N. K. Roychowdhuri, I.C.S.

Secretary, Agr., Animal Husbandry, and Forests, C. K. Roy, I.A.S.

Secretary, Commerce and Industries, Cottage and Small-scale Industries and Co-operation Dept., B. Gupta.

Secretary, Education Dept., Dr. D. M. Sen.

Secretary, Medical and Public Health and Director of Health Services, Lt.-General D. N. Chakravarty.

Special Engineer, Floods, and Admn. Officer, Mayurakshi Project, I. B. De, I.S.B.

Secretary, Law Dept., K. K. Hajara, I.C.S.

Secretary to the Chief Minister, S. K. Chatterjee, I.C.S.

Special Officer and ex-Officio Secretary, Finance Dept., N. N. Mazumdar, I.A.A.S. (Retd.).

Transport Commissioner, B. Gupta, I.C.S.

Secretary, Board of Revenue, S. Banerjee, I.C.S.

Secretary, Irrigation and Waterways and Fisheries Dept., B. K. Roy, I.C.S.

Member, Board of Revenue and ex-Officio Secy., Land and Land Revenue and Tribal Welfare Deptts., S. Banerjee, I.C.S.

Jt. Secretary, Works and Bldgs. Dept., K. K. Ray, I.A.S.

Jt. Secretary, Labour Dept., S. K. Banerjee, I.A.S.

Spl. Officer, Anti-Corruption and Enforcement, Dept., R. K. Roy, I.C.S.

Dir.-Genl. of Transportation & ex-Officio Secy., Home Dept., J. N. Talukdar, I.C.S.

Jt. Secretary, Local Self-Govt. Dept., A. Neogi, I.A.S.

Secy., Legislative Assembly, Ajita Manjan Mukherjee.

Financial Adviser, Food, Relief & Supplies, and ex-Officio Secy., Finance Dept., S. K. Ghosh, I.A.S. (Retd.).

Jt. Secy., Food and Supplies, B. R. Gupta, I.A.S.

Joint Secretary, Relief, S. K. Gupta, I.A.S. (Retd.).

Development Commr. and ex-Officio Secy., Development Dept., H. Banerjee, I.C.S.

Jt. Development Commr. and ex-Officio & Jt. Secy., Development Dept., S. B. Ray, I.A.S.

Board of Revenue

Writers' Buildings, Calcutta 1.

Member, B. Sarkar, I.C.S.

Additional Member, N. Ray Chowdhury, I.C.S.

Secretary, S. Samaddar, B.Sc. (Cal.), A.I.L.Sc.

Dip. Chem. Eng. (Bangalore), I.A.S.

Jt. Land Reforms Commissioner, S. N. Mitra, I.A.S. (Retd.).

Dy. Land Reforms Commissioner, P. Banerjee, I.A.S. (Retd.).

Deputy Secretary, N. N. Akhradhary, M.A., W.B.C.S.

Assistant Secretary, J. K. Deyashil, B.A.

Special Officers, H. Mookerjee, B.A.; S. K. Chatterjee, M.B.C.

Registrar, S. C. Pal, B.Sc., B.L.

DEPARTMENTAL OFFICIALS

Advocate-General, S. M. Bose.

Inspector-General of Police, H. N. Sircar, J.P., I.P. Commissioner of Police, Upanandha Mukherjee, I.P.S.

Inspector-General of Prisons, Dr. P. K. Biswas, M.B.

Labour Commissioner and Registrar of Trade Unions and also Chief Inspector of Shops and Establishments, Calcutta, S. M. Bhattacharjee, I.A.S.

Registrar of Co-operative Societies, A. K. Dutt, I.A.S.

Commissioner, Workmen's Compensation, A. K. Biswas.

Registrar, Workmen's Compensation, P. C. Maitra, M.A., B.L.

Conservator-General of Forests, V. S. Rao, I.P.S.

Chief Inspector of Factories, G. C. Roy, B.Sc. (Cal.), B.Sc., C.P.E. (Glas.), A.M.I.Mech.E.

Administrator-General and Official Trustee, A. K. Dutta, Attorney-at-Law.

Postmaster-General, P. B. Lahiri.

Collector of Land Customs, K. Narasimhan.

Commissioner of Excise, West Bengal, M. P. Sen.

Chief Engineer, Irrigation, A. L. Das, I.S.E.

Chief Engineer, Works and Buildings, J. K. Banerjee.

Chief Inspector of Boilers, S. C. Roy.

Chief Electrical Engineer and Electrical Adviser to Government, A. K. Bhaumik, B.Sc. (Cal.), B.Sc. (Engg.) (London), M.I.E.E.

Superintending Engineer (State Electricity Board), Dr. M. Dutta, M.Sc. (Cal.), M.Sc. (Tech.) (Manch.), Ph.D. (Edin.), M.I.E.E.

Director of Land Records and Surveys, R. Banerjee, I.A.S.

Special Officer and ex-Officio Director of Land Records and Surveys, Dinesh Chandra Gupta, I.A.S.

Director, West Bengal Fire Services, C. M. Gogri, A.M.I. Fire E.

Chairman, Calcutta Improvement Trust, S. K. Gupta, I.C.S.

Chief Engineer, Calcutta Improvement Trust, N. R. Das.

Secretary and Chief Accountant, Calcutta Improvement Trust, B. C. Mookerjee.

Superintendent, Govt. Printing, S. Mukherjee, B.A.

Director of Agriculture, Dr. H. K. Nandy.

Milk Commissioner, Dr. S. C. Ray.

Director of Industries, B. C. Mullick.

Director of Public Instruction, D. M. Sen.

Director of Publicity, P. S. Mathur, M.Sc.

Director of Fisheries, Dr. K. C. Saha.

Chairman, Minority Commission, K. P. Mookerji.

Director of Social Welfare and ex-Officio Jt. Secretary, K. S. Mitra.

Chief Engineer, Construction Board, S. Bandyopadhyaya.

Chairman, Industrial Tribunal, M. Banerjee.

Chief Presidency Magistrate's Court

2, Bankshall Street, Calcutta.

Chief Presidency Magistrate, Chairman, Advisory Board, Vagrancy, B. Mukherji.

Adtl. Chief Presidency Magistrate, S. P. Ghose.

Presidency Magistrates, T. K. Mutsuddi, S. K. Ganguli, G. B. Ghosh, S. M. Guha, D. C. Chakrabarti, Sudhansu Kumar Ganguli, L. N. Roy, S. N. Chanda.

Presidency Magistrate and Registrar, S. K. Chakrabarti.

Presidency Magistrate in charge of Central Children's Court, S. N. Ganguli.

Hon. Presidency Magistrates, D. L. Dutt; A. B. Mukherjee; Dr. H. C. Law; S. S. Ali; S. K. Khanna; S. C. Roy; N. K. Dastur; Braj Mohan Bagri; T. M. Zarif; P. N. Roy; M. K. Mukerji; S. Mookerji; S. C. Banerjee; A. C. Mitra, J. M. Bir; N. Singh Roy.

Hon. Presidency Magistrates (Ladies), Central Children's Court, Smt. Olive Pemantle; Smt. Tarulata Sen; Smt. Mira Dutta Gupta; Smt. Swarnapra Sen; Smt. Afzal Jahan Begum; Smt. Jyotiprava Das Gupta.

Head Assistant, S. P. Mallik.

House of Detention, Calcutta

Chief Presidency Magistrate, ex-Officio Chairman, Visiting Board, B. Mukherji.

Presidency Magistrate, Central Children's Court, ex-Officio Secretary, Visiting Board, S. N. Ganguli.

Superintendent, House of Detention, ex-Officio Jt. Secretary, Visiting Board, A. P. Ghosh.

Court of Small Causes, Calcutta

Chief Judge, Rital Prasad Chatterji, M.A., LL.B.

Judge, 2nd Bench, Bhabatosh Pal, M.A., LL.B.

Judge, 3rd Bench, Subodh Ch. Talukdar, M.A., LL.B.; Judge, 4th Bench, Balaram Basak, M.A., LL.B.; Judge, 5th Bench, Manjit Kumar Ganguli, M.A., LL.B.; Judge, 6th Bench, Krishnapada Mukherjee, M.A., LL.B.

Registrar and Chief Ministerial Officer, Bhadesh Chandra Chakravorty, M.A., LL.B.

Deputy Registrar, Prasanta Kumar Banerjee, M.A., LL.B.

Industrial Tribunal

New Secretariat Building, 1, Hastings Street, Calcutta.

Judges, M. C. Banerjee (Chairman), G. Palit, J. N. Maitra, M. N. Gan.

Judge, Labour Court, N. C. Chatterjee.

Presiding Officer, 2nd Labour Court, P. C. Maitra.

GOVERNMENT OF WEST BENGAL,

Office of the Director of

National Employment Service, West Bengal, 28, Theatre Road, Calcutta-16.

Director, D. N. Ghose, M.A.

Deputy Director, S. K. Mukerjee.

Assistant Director, S. N. Bhose, M.A., B.L.

Employment Liaison Officer, B. C. Ray, M.Sc.

Public Service Commission

Anderson House, Alipore,

Calcutta 27.

Chairman, H. Das Gupta, I.A.S. (Retd.).

Members, N. C. Chakrabarti, M.A., LL.B., W.B. H.J.S. (Retd.); T. Mitra, I.S.E. (Retd.); Dr. S. N. Das Gupta, D.Sc. (Lond.).

Secretary, B. K. Sinha, I.A.S. (Retd.).

Dy. Secretary, J. C. Ghosh, W.B.C.S. (Retd.).

Asst. Secretaries, S. Bose, B.A., R. N. Guha, M.A., B. K. Sen, B.Sc.

Registrar, S. Banerjee.

Regional Office, Central Board of Film Censors

12, Dalhousie Square, Calcutta 1.

Regional Officer at Calcutta, A. K. Sen.

ACCOUNTANT-GENERAL

Treasury Bldgs., Calcutta.

Accountant General, West Bengal, A. K. Mukherji.

Senior Deputy Accountant General, (Works), West Bengal, G. Ramchandran.

Deputy Accountant General (Admn.), West Bengal, K. C. Suri.

Deputy Accountant General (OA), West Bengal, K. P. Joseph.

Deputy Accountant General (Central T.A.D.), S. S. Roy (Chowdhury).

Examiner, Local Accounts, S. P. Narayan Chetty.

COMMISSIONER OF INCOME-TAX

3, Govt. Place West, Calcutta.

Commissioner of Income-tax, West Bengal, V. V. Subramanian, M.A.

Commissioner of Income-tax, Calcutta, Khazan Singh Choudri, B.A.

Commissioner of Income-tax (Central), Calcutta, A. R. H. Nalk, B.A.

REGIONAL METEOROLOGICAL CENTRE

Alipore, Calcutta 27.

Director, Dr. S. N. Sen, M.Sc., D.Phil.

Meteorologists, M. Gangopadhyaya, M.Sc., S. K. Ghosh, M.Sc., N. C. Lahiri, M.A., V. C. Bedekar, M.Sc.

OFFICE OF THE COLLECTOR OF CUSTOMS

Custom House, Calcutta.

Collector of Customs, A. C. Whitther, B.A. (Camb.).

Additional Collector of Customs, S. Venkatesan, M.A.

Deputy Collector of Customs, M. Panchappa, M.A.

Deputy Chief Chemist, Monohar Lal, M.Sc.

COLLECTOR OF CENTRAL EXCISE

15/1, Strand Road, Calcutta.

Collector of Central Excise, S. P. Kampani, I.R.S.

Collector of Land Customs, K. Narasimhan.

Dy. Collector of Central Excise, N. Mookherjee, I.R.S.

REGISTRAR OF COMPANIES

P-29, Mission Row Extn., Calcutta.

Registrar of Companies, W. B., M. V. Varerkar.

Adtl. Registrar of Companies, N. D. Bhatia.

Asst. Registrars of Companies, A. K. Bannerjee, A. C. Sarkar.

GOVERNMENT OF INDIA TOURIST OFFICE

13, Old Court House St., Calcutta 1.

Director (Ag.), Mrs. B. Das.

CALCUTTA TELEPHONES

Telephone Bhavan, Calcutta 1.

General Manager, Uma Shankar, B.Sc., C.E., M.I.T.E.

Deputy General Manager (A), B. K. Anantharaman.

Deputy General Manager (D), V. P. Kanethkar.

Director of Telegraphs, P. K. Verghese.

ALL-INDIA RADIO

Post Box 696, Calcutta.

Station Director, P. C. Chatterji.
Assistant Station Director (Administration),
 B. P. Sharma.
Assistant Station Director (Programme), S. C.
 Basu.
Station Engineer, M. B. Rao.
Listener Research Officer, P. C. Datta.
Engineer-in-Charge, High Power Transmitter,
 S. Pattabhiraman.

Eastern Railway

General Manager & Chief Operating Superin-
tendent, Kripal Singh.

South-Eastern Railway

Garden Reach, Calcutta 23.

General Manager, G. P. Shahanl.
Sr. Dy. General Manager, V. K. Rangaswami.
Financial Adviser and Chief Accounts Officer,
 S. P. Sahni.
Financial Adviser & Chief Accounts Officer,
 (Constn.), S. S. Gopalakrishnan.
Chief Operating Superintendent, J. S. Mathur.

Chief Commercial Superintendent, B. Masumdar.
Chief Engineer, P. C. Neogi.
Chief Engineer (Construction), D. N. Chopra.
Chief Signal and Telecom. Engineer, B. L.
 Sabharwal.
Controller of Stores, D. B. Mukherjee.
Chief Medical Officer, Dr. L. N. Suri.
Chief Security Officer, D. G. Bhattacharyya.
Chief Mechanical Engineer, P. S. Venkataraman.
Chief Electrical Engineer, H. R. Dogra.

Railway Service Commission

Clem Browne Railway Institute, Sealdah,
 Calcutta 14.

Chairman, M. C. Pradhan; *Members*, P. Roy;
 Dr. Harimohan.
Secretary, M. K. Menon.

HIGH COURT

Chief Justice, Kulada Charan Das Gupta, M.A.
 I.C.S., Bar-at-Law.
 Puisne Judges, Surajit Chandra Lahiri,
 M.A., LL.B.; Prasanta Bihari Mukharji,
 Bar-at-Law; Jyoti Prakash Mitter, M.A.

(Oxon.), Bar-at-Law; Braja Kanta Guha,
 I.C.S.; Himansu Kumar Bose, Bar-at-Law; R.
 S. Bachawat, Bar-at-Law; Deep Narayan
 Sinha, Bar-at-Law; Parash Nath Mookerjee,
 M.A., LL.B.; Mallendra Nath Guha Roy, I.C.S.;
 Sisir Kumar Sen, M.A. (Pun.), I.C.S.; Renupada
 Mukherjee, M.A., LL.B.; Debabrata Mookerjee,
 M.A., LL.B.; Gopendra Krishna Mitter,
 Bar-at-Law; Prokash Chandra Mallick, M.A.,
 LL.B.; Nirmal Kumar Sen, M.A., LL.B.; Sushil
 Kumar Datta, B.A. (Com.), Bar-at-Law;
 Uma Charan Law, Bar-at-Law.

Additional Judges, Bimal Kumar Bhattacharya,
 M.A., LL.B., Ph.D. (Lond.), Bar-at-Law;
 Binayak Nath Banerji, M.A., LL.B.; Ajit Nath
 Ray, B.A. (Oxon.), M.A. (Cal.), Bar-at-Law;
 Sankar Prosad Mitra, M.A. (Antab.), Bar-at-
 Law.

Sheriff, G. Basu.

Registrar (Appellate Side), K. C. Sen, M.A., LL.B.

Registrar (Original Side), Omar U'd-Din Ahmad,
 M.A. (Cal.), LL.B. (Bd.), Barrister-at-Law.

Official Assignee and Official Receiver, M. M.
 Chakraburty.

PONDICHERRY

ADMINISTRATIVE PERSONNEL

Secretariat

Chief Commissioner: L. R. S. Singh, I.C.S.
Chief Secretary: A. Krishnaswami, I.A.S.
Secretary, General Administration: M. Subra-
 manyam, I.A.S.
Secretary, Development Departments: T. K.
 Ramakrishnan.
Secrétaire aux Affaires Politiques Legislation et
Sans: E. Tetla.
Finance Secretary: R. Subrahmanian.
Legal Secretary: B. B. Chakravarti.
Deputy Secretary (G.A.) & Chef du Cabinet:
 K. S. Sehan.
Under Secretary (G.A.): C. Ramon.
Under Secretaries (Development Department):
 R. Krishnaswamy; P. K. Mahadevan.
Under Secretary (Finance): S. Subramaniam.
Registrar: K. Venkataraman.

Principal Officials

Chief of Judicial Service: B. Mariadassou.
Inspector-General of Police: M. U. Mulk.

Chief of Political Affairs: Marcel Saint Andre.
Controller of Imports & Exports: J. K. Sarkar.
Collector of Customs and Central Excise: A. J. B.
 Lobo.

Director of P.W.D.: Mathai Jacob.
Director of Electricity: P. K. Narayana Rao.
Revenue Officer: Amir Mohamed.
Director of Medical Services: Dr. P. Soucou.
Director of Public Instruction: Rollin Farandjody.
Registrar of Co-operative Societies, A. Puthpara].
Pay and Accounts Officer, T. K. Krishna Ayyar.
Port Officer: L. G. Hardas.

Director of Agriculture: P. Syed Mohamed.
Director of Fisheries: E. K. Madhavan.
Director of Industries, Dr. M. I. Mathews.
Block Development Officer: P. Lurdeswamy.
Asstt. Development Officer: C. D. Dayal.
Director of Animal Husbandry: Dr. Sandou.
Director of Government Press: S. Ananta Does.
Resident Engineer (New Pier Project): G. S.
 Ramanathan.
Public Relations Officer: Lokenath Bhattacharya.
Asstt. Employment Officer: D. Muniswami.

Public Prosecutor: Abel Clovis.
President of Labour Tribunal: A. David.
Superintendent of Police, Karikal: R. Kall-
 appan.

Conservateur des Hypotheques: A. Carnot.
Principal, School of Arts: Ganesan.
Field Publicity Officer: V. Krishnamurti.
Harijan Welfare Officer: N. Doraiswamy.
Controller of Prison, Pondicherry: S. Palaniappan.
Statistical Officer: Ajaib Singh.
Asstt. Publicity Officer: M. Sundara Rajan.

JUDGES

Judges: A. Tamby, T. Caillard, S. Siva, Kichena-
 dattin, J. Gnany, Abraham Mouttou, J.
 Michel, Ramalingame, Francois Andonissamy,
 Soundiramourty.

ADMINISTRATORS

Administrator of Karikal: G. B. Deshpande.
Administrator of Mahe: G. P. Mathur.
Administrator of Yanam: S. Sundaramurthi.

MEDICAL COLLEGE

Principal: Veng Sarkar.

ANDHRA

ADMINISTRATIVE PERSONNEL

Governor : Bhimsen Sachar.
Comptroller, Governor's Household, M. K. K. Gaznavi.

Aide-de-Camp : Captain Virendra Pratap.
Secretary to the Governor, B. N. Jayasimha, I.A.S.
Private Secretary to the Governor : P. Kalu Nair.

Ministers

Chief Minister in charge of General Administration Department (Services, All-India Services, High Court, Transport, Industries and Commerce and Health), N. Sanjiva Reddi.

Home (Police and Prohibition), Revenue & Registration, K. V. Ranga Reddi.

Finance, Commercial Taxes, Planning & Development : K. Brahmananda Reddi.

Irrigation and Power, J. V. Narasing Rao.

Labour and Local Administration, D. Sanjiviah.

Agriculture and Forests, P. Thimma Reddi.

Education, Social Welfare and Information, S. B. P. Pattabhirama Rao.

Law, Subordinate Courts, Prisons, Granddhi Venkata Reddi Naidu.

Co-operation and Housing, Nawab Mehdi Nawaz Jung.

Building and Highways and Relief and Rehabilitation, M. Narasing Rao.

Religious and Charitable Endowments and Small-scale and Cottage Industries, A. Bhagawantha Rao.

Secretariat

Chief Secretary to Government, General Administration, M. P. Pal, I.C.S.

Additional Secretary, Industries Department, C. Seshagiri Rao, I.A.S.

Secretary to Government, Home Department, V. Bajeswar Rao, I.A.S.

Secretary to Government, Revenue Department, H. Ram Lal, I.C.S.

Secretary to Government, Finance Department, C. Damodar Reddy, I.A.S.

Secretary to Government, Law Department, D. Suryanarayana Swamy.

Secretary to Government, Public Works Department, Y. K. Rao, I.C.S.

Secretary to Government, Planning and Development Department, C. Narasimham, I.A.S.

Secretary to Government, Education and Social Welfare Departments, J. P. L. Gwynn, I.C.S.

Secretary to Government, Health and Local Administration Departments, L. N. Gupta.

Secretary to Government, Industries Department, B. Prasad, I.C.S.

Secretary to Government, Agriculture Department, Jagjiwan Chand, I.A.S.

Heads of Departments

Board of Revenue : K. M. Unnithan, I.O.S. (First member); V. V. Subramanyam, I.O.S. (Second

member); S. A. Iyengar, I.O.S. (Third member); M. T. Raju, I.O.S. (Fourth member); Gulam Hyder, I.A.S. (Fifth member); V. Venkatrayudu (Secretary); M. A. Hameed, I.A.S. (Joint Secretary); J. A. Dharmaraj, I.A.S. (Addl. Joint Secretary).

Registrar of Co-operative Societies, G. Viswanatham Shetty.

Inspector-General of Stamps and Registration, G. Satyanarayana.

Director of Endowments and Joint Secretary, Board of Revenue, Trimbak Lal.

Commissioner, Hindu Religious and Charitable Endowments, P. Lakshminah.

Director, Agriculture, Rai Prithwira.

Director of Animal Husbandry and Fisheries, N. Bhagwandas, I.A.S.

Chief Conservator of Forests, Rai Daulat Rai.

Director of Controlled Commodities, Sayed Ahmed, I.A.S.

Director, Bureau of Economics and Statistics, Dr. Patnalk.

Director of Public Instruction, Dr. N. Ramial.

Director of Archaeology, Dr. P. Srinivasachary.

Director-in-charge, C. & I., Anil De, I.A.S.

Director, Central Records, Smt. S. B. Phatak.

Joint Director, C. I. Dept. (Handloom), Dr. R. V. Rao.

Director, Andhra Pradesh Printing Press, Syed Ghulam Rasool.

Labour Commissioner, T. Prabhakar Rao.

Chief Inspector of Forests, A. Ramamurthy.

Director of Social and Tribal Welfare, A. Chandra Sekhar, I.A.S.

Director, Women's Welfare, Kumari Jamunabai.

Transport Commissioner and Chairman, State Transport Authority, Syed Ali, I.A.S.

Secretary, State Transport Authority, G. V. Butt.

Inspector-General of Prisons, S. M. Hasan.

Director of Medical Services, Major K. N. Rao, I.M.S.

Director of Public Health, Dr. C. B. Naidu.

Inspector General of Local Administration, G. Simhadri, I.A.S.

Chief Engineer, Nagarjunasagar Dam Construction, Jaffer Ali.

Chief Engineer, Nagarjunasagar Canals, G. A. Narasimha Rao.

Chief Engineer, Irrigation (Special), Venkata-krishna Ayyar.

Chief Engineer, General, J. C. Hardikar.

Chief Engineer (Highways), N. Durrani.

Chief Engineer (Buildings & Public Health), Bala Perahad.

Chief Engineer (Electricity Projects), Vacant.

Addl. Chief Engineer (Electricity), S. A. Quader.

Director in-Charge, Dept. of Information & Public Relations, Narasingrao Manvi.

Fire Force Commander, Syed Sayeed Hasan.
Translator to Government, Boyi Bheemannah.
Director of Settlement, Ghous Mohiuddin.

Addl. Custodian, Evacuee Property, T. M. Kapoor.

Inspector-General of Police, A. K. K. Nambiyar, I.P.S.

Addl. Inspector-General of Police, Shivkumalal, I.P.S.

Commissioner of Police, B. N. Kalyan Rao.

Director, Anti-Corruption Dept., C. B. Patil, I.P.S.

HIGH COURT

(Hyderabad).

Chief Justice, Mr. Justice P. Chandra Reddy.
Judges, Mr. Justice K. Umamaheswar Rao; Mr. Justice K. Bhimasankaram; Mr. Justice P. Satyanarayanaraju; Mr. Justice N. D. Krishna Rao; Mr. Justice Syed Qamar Hasan; Mr. Justice Manohar Pershad; Mr. Justice Mohammad Ahmad Ansari; Mr. Justice A. Srinivasachari; Mr. Justice Pingle Jagan Mohan Reddy; Mr. Justice P. Basu Reddy; Mr. Justice N. Komaraya; Mr. Justice M. Sesha-chalapathi; Mr. Justice C. Sanjeevarao Nayudu; Mr. Justice Davaloor Munkanniah; Mr. Justice A. Ranganatham Chetty (Additional Judge).

Registrar, S. Obul Reddi.

Law Officers

Advocate-General, D. Narasaraaju.
Public Prosecutor, R. V. Ramarao.
Additional Public Prosecutor, Mohd. Mirza.
Principal Government Pleader, N. S. Raghavan.

Public Service Commission

Chairman : M. A. Venkataramana Naidu.
Members : G. Rami Reddy, I.A.S. (Retd.); S. Neelakantam.
Secretary : P. Krishnlal Naidu.
Registrar : Mohamed Ismail Farooq.

Commissioner of Income Tax
Andhra Pradesh, Hyderabad.

Commissioner of Income-Tax, P. T. Ranadive, B.Sc., I.R.S.

Collector of Customs
Visakhapatnam.

Collector of Customs, B. B. Gujral, M.A., LL.M.

Collector of Central Excise
Post Box 115, Hyderabad.

Collector of Central Excise, G. Koruthu, M.A., I.R.S.
Dy. Collector of Central Excise, R. C. Mehra, M.A., I.R.S.

COMMERCIAL FIRMS

Abdul Rasack Haji Shukoor, Secunderabad.
 Abdul Rasack & Co., Charkaman, Hyderabad.
 Ahmed Aladin & Co., Khan Bahadur, Aerated & Ice Factory, Secunderabad.
 Alembic Distributors Ltd., 542, Sultan Basar, Hyderabad (Dn.).
 Ali Mohamed Hashim Dorajiwala, Secunderabad.
 Amman Bole Nagiah, Kerana Merchant, Secunderabad.
 Ananth Medical Stores, Sarojinidevi Road, Secunderabad (Dn.).
 Argus & Co., Chapel Road, Hyderabad (Dn.).
 Arya Industries Ltd., 108, Walker Town, Secunderabad (Dn.).
 Azam Steam Press, Moghulpura, Hyderabad.
 Asamjahi Mills Ltd., 159, Gunfoundry, Hyderabad (Dn.).
 Aziz & Co., Abid Road, Hyderabad (Dn.).
 Badshah & Sons, Standard Works, Station Road, Hyderabad.
 Baile Latchuniah & Sons, Siddiambar Bazar, Hyderabad (Dn.).
 Barman Brothers, Barman Building, Gunfoundry, Hyderabad (Dn.).
 Basvaraj Sharanbasappa Appa & Sons, Secunderabad.
 Balliol & Co., (HYD.) Ltd., Kingsway, Secunderabad (Dn.).
 Boldo Engineering Co., Rashtrapati Road, Secunderabad (Dn.).
 Bharath Engineering Co., The, 7030, Rani Ganj, Secunderabad.
 Bijjala Veeriah Gupta, Siddiambar Bazar, Hyderabad.
 Bombay Cycle and Motor Agency of Secunderabad Ltd., Secunderabad.
 Bulchand & Co., Abid Road, Hyderabad (Dn.).
 Central Bank of India Limited, Hyderabad (Dn.).
 Central Trading Co., Rashtrapati Road, Secunderabad (Dn.) 3.
 Ch. Legniah & Sons, Kingsway, Secunderabad.
 Chandulal T. Parikh & Co., Secunderabad.
 Cheekoty Veerannah & Sons, Secunderabad.
 Chidura Vasudev Kantiah Srinivasulu & Co., Bashirbagh, Hyderabad.
 Chimalgi, V. G., Kingsway, Secunderabad (Dn.).
 Chinnoy Chailani & Co., Abid Road, Hyderabad.
 Chokorram Jagadesh Pershad, Osman Gunj, Hyderabad.
 Dandoo Balanarajah & Sons, Secunderabad.
 Dandu Augiah Telkonti Bakriahiah, Secunderabad.
 Dastagir & Co., S. G., Jam Bagh, Hyderabad.
 Dastoor & Sons, Sarojinidevi Road, Secunderabad (Dn.).
 Debonier, Nampally, Hyderabad.
Deccan Chronicle, 147, Sardar Patel Road, Secunderabad.
 Deccan Engineering and Refrigeration Co., 133, Kingsway, Secunderabad (Dn.).
 Deccan Porcelain & Enamel Works Ltd., Bakaram, Hyderabad.
 Deccan Wine and General Stores, Secunderabad.
 Deen Dayal Indrumull, Hous, Hyderabad.
 Deffance Automobiles, Mahatma Gandhi Road, Secunderabad (Dn.).
 Douglas Bros., 6092, Kingsway, Secunderabad.
 E. J. Krishnamurti, Opp. Azamabad P.O., Hyderabad (Dn.).
 Eamajee & Sons, D., Afzalgunj, Hyderabad.
 Eastern Federal Union Insurance Co., Bashir Bagh Road, Hyderabad.
 Easwariah & Sons, G. 14, New Bhoiguda, Secunderabad (Andhra Pradesh).
G. RAGHUNATHMULL BANK LTD., Hyderabad (A.P.). Tel. Address: "SINGHVEK." Phone Nos.: 4040 & 4041. Travel Department: 4653.
 Ganga Bhaben Mohanlal, Osman Gunj, Hyderabad.
 Gautam Cycle & Motor Stores, Mahatma Gandhi Road, Secunderabad (Dn.).

General Stone Supplying Co., Shahbad Stone, Lime and Bricks, Moazzam Jahi, Market Road, Hyderabad.
 Gopalakrishnaiah, P., 12, New Bhoiguda, Secunderabad (Dn.).
 Gowrishanker, Osman Gunj, Hyderabad.
 Gubba Ramalingiah Gari Malliah, Osman Gunj, Hyderabad.
 Gunli & Co., 89, Sarojinidevi Road, Secunderabad (Dn.).
 H. Abbas Hussain Mulla Ehsan Ali, Siddiambar Bazar, Hyderabad (Dn.).
 Habib Ahmed Khan, 83, Public Garden Road, Hyderabad.
 Haji Abdul Sathar Ismail, Secunderabad.
 Haji Badruddin Gulam Hussain, Siddiambar Bazar, Hyderabad (Dn.).
 Haji Dada Haji Abba, Lad Bazar, Hyderabad.
 Haji Rasack Haji Mohd. Sayy, Nizam Sahi Road, Hyderabad (Dn.).
 Hindustan Co-operative Insurance Society Ltd., 113, Station Road, Hyderabad (Dn.).
 Hindustan Corporation Ltd., Donalguda, Hyderabad (Dn.). Grams: "HIND-CORP." Phone: 4409.
 Hirnand Ramsukh, Mahara Gunj, Hyderabad (Dn.).
 Hussaini Stores, Madian Building, Hyderabad (Dn.).
 Hyderabad Agricultural Marketing Co., Gunfoundry, Hyderabad.
 Hyderabad Allwyn Metal Works Ltd., Sanalnagar, Hyderabad (Dn.).
 Hyderabad Button Factory, Charminar, Hyderabad.
 Hyderabad Chemicals & Fertilizers Ltd., Sarojinidevi Road, Secunderabad (Dn.).
HYDERABAD CHEMICAL AND PHARMACEUTICAL WORKS LTD., P.O. Box No. 182, Industrial Area, Hyderabad (Dn.).
 Hyderabad Commercial Corporation Ltd., Station Road, Nampally, Hyderabad.
 Hyderabad Construction Co., Ltd., Secunderabad.
 Hyderabad Co-operative Central Trading Society Ltd., The, B/17/655, Station Road, Hyderabad.
 Hyderabad (Deccan) Traders, 793, Station Road, Abid Circle, Hyderabad (Dn.).
 Hyderabad Oil & Paint Co. Ltd., The, Industrial Area, Azamabad, Hyderabad (Dn.).
 Hyderabad Iron & Steel Works Ltd., Azamabad P.O., Hyderabad (Dn.).
 Hyderabad Potteries Ltd., 95, Park Lane, Secunderabad (Dn.).
 Hyderabad Wood Works, 8552, Mahatma Gandhi Road, Ranigunj, Secunderabad (Dn.).
 Indian Hume Pipe Co., Ltd., Industrial Area, Azamabad, Hyderabad (Dn.).
 Indian Iron and Steel Corporation, The, 8571, Rashtrapathi Road, Secunderabad.
 Industrial & Agricultural Engineering Co. (Hyderabad) Ltd., Gunfoundry, Hyderabad (Dn.).
 Ishaq & Sons, H. M., Secunderabad.
 Jalal Main, H. M., Afzal Gunj, Hyderabad.
 Jamalal Baniell, Begum Bazar, Hyderabad.
 J. B. Mangaram & Co., Hyderabad (Dn.).
 J. C. Pinto & Co., Newspaper Agents & Book-Sellers, H.O., 113/1, Sarojinidevi Road, Secunderabad. Branch: Abid Road, Hyderabad. A. P. Telegrams: "Pintoco." Phone: 6879.
 J. & J. DeChane, Residency Road, Hyderabad (Dn.).
 John & Co., Abid Road, Hyderabad (Dn.).
 Kareem & Sons, J. A., Secunderabad.
 Kathiwar Stores, Mahatma Gandhi Road, Secunderabad (Dn.).
 Khaderia Karkhana, Kasaratta, Hyderabad.
 Kirostar Bros. Ltd., Kingsway, Secunderabad (Dn.).
 K. Karumakar & Sons, G.P.O. Lane, Abid Road, Hyderabad.

Komma Veeriah & Sons, Tobacco Bazar, Secunderabad (Dn.).
 Koniyalal Buehiah, Pandura Fundaricium, Siddiambar Bazar, Hyderabad.
 Koochappa Thakur Shah Chavan, Secunderabad.
 Kylas Saribhaya, Secunderabad.
 Kylas Veeriah Chitambariah, Secunderabad.
 Lalji Meghji, Iron Merchant, Secunderabad.
 Leslie Gay & Co., Station Road, Hyderabad (Dn.).
 Light House Talkies, Gunfoundry, Hyderabad (Dn.).
 Madan Gopal Jamnala, Begum Bazar, Hyderabad.
 Madan Mohan Metal Industries, 108, Walker Town, Secunderabad (Dn.).
 Madhav Rao & Sons, Secunderabad.
 Madras Cycle & Motor Mart, 7936, Mahatma Gandhi Road, Secunderabad (Dn.).
 Majestic Radio House, Gunfoundry Road, Hyderabad (Dn.).
 Mehta, D. J., Secunderabad.
 M. K. Mudaliar & Sons, 8059, Rashtrapathi Road, Secunderabad (Dn.).
 Mohamed Ali & Brothers, Moazzam Jahi Market, Hyderabad.
 Mohamed Ali & Sons, Secunderabad.
 Mohamed Noorullah & Peddy Shivrailah, Afzal Gunj, Hyderabad.
 Mohamed Younus & Sons, Abid Road, Hyderabad.
 Mohan Brothers, Moazzam Jahi Market Road, Hyderabad.
 Mohanlal Nalant, Secunderabad.
 Mudliar & Co., Abid Road, Hyderabad.
 Mulla Abdul Kader Mulla Fida Ali, Khairatnagar, Hyderabad (Dn.).
 Nanakram Bhagwandass, Osman Gunj, Hyderabad.
 National Pharmacy, 8783, Imperial Post Office Lane, Abid Road, Hyderabad (Dn.).
 National Sanitary Engineering Co., Secunderabad.
 National Soap Factory, Secunderabad.
 National Trading Agencies, Secunderabad.
 Nizam Sugar Factory Ltd., Abid Road, Hyderabad (Dn.).
 Osmania General Agency, 87 E & F, Rashtrapati Road, Secunderabad (Dn.).
OSMANSHAH MILLS LTD., 269/270, John's Lane, Gunfoundry, Hyderabad (Dn.). A. P. Phone: 5471, 4704. Grams: "OSMANSHAH."
 Peer Mohamed & Co., Sha-Rab-Osmani, Hyderabad.
 Peer Mohamed & Co., Secunderabad.
 Pereira & Sons, 95, Sarojinidevi Road, Secunderabad (Dn.). S. Andhra Pradesh.
 Prabhat Automobiles, 54, James Street, Secunderabad (Dn.).
 Prince Store, Abid Road, Hyderabad (Dn.).
 Prudential Co-operative Central & Urban Bank Ltd., The, Secunderabad.
 Radio Talkie House and Educational Films Guild, opp. State Bank, Gunfoundry, Hyderabad (Dn.).
 Raja Deen Dayal & Sons, State Photographers, Secunderabad.
 Ramannah & Sons, K. B., Hardware and General Merchants, Secunderabad.
 Ramaahwar K. Anjiah, Hardware Merchant, Afzal Gunj, Hyderabad.
 Ram Prasad, Ltd., Engineers & Contractors, 8/501, Jubilee Hills, Hyderabad (Dn.) 4.
 Reliance Automobiles, Rashtrapati Road, Secunderabad (Dn.).
 Row Ponde & Co., 148, Kingsway, Secunderabad.
 R. B. Gopal, Pathergatti, Hyderabad.
 Saba & Co., Chapel Road, Hyderabad (Dn.).
 Salarjung Sugar Mills Ltd., 499/A-2, New Road, Bashir Bagh, Hyderabad (Dn.).
 Scientific Engineering House Ltd., Bashir Bagh, Hyderabad.
 Shanker Electrica, Dealers in everything electrical, 205, Abid Road, Hyderabad (Dn.).

Shanker Electric Stores, Mahatma Gandhi Road, Secunderabad (Dn.).
 Sebastian & Sons, 113, Oxford Street, Secunderabad.
 Secunderabad Trading Co., Iron and Steel Merchants, Secunderabad.
 Standard-Vacuum Oil Co., 2538, Rashtrapathi Road, Secunderabad (Dn.).
 Syed Abdul Khadar & Sons, Machlikaman, Hyderabad.
 Syed Mohamed Sayeeduddin, Siddiambar Bazar, Hyderabad.

Taj Clay Works Ltd., Hussain Sagar, Tapk Road, Hyderabad.
 Tayeb Ali & Sons, Secunderabad.
 Tayeb Ali Haji, Charkaman, Hyderabad.
 Totaram Ramgus Brothers, Abid Road, Hyderabad (Dn.).
TOTARAM SAGARLAL & SONS, Jewellers, Abid Road, Hyderabad (Dn.).
 Yaszir Sultan Tobacco Co., Ltd., Azamabad Industrial Area, Hyderabad (Dn.).
 Vishwanath Dayaram Jahl, Secunderabad.

Voltas Limited, 87/D, Rashtrapathi Road, Secunderabad.

YOUSUF COMPANY, Tent, Shamiana etc., Manufacturers, Suppliers, Dyeing & Textile Printing Works, Nizamahali Road, Hyderabad (Dn.) (India); Office: Yousuf Co., Phone No. 4346; Tent Factory E. B. Mills; Phone: 2825; Industrial Area; Telegrams: "RANGWALA."

Zimat Store, 203, Abid Road, Hyderabad (Dn.).

CLASSIFIED LIST OF TRADES & PROFESSIONS

ADVERTISING AGENTS AND CONSULTANTS

Edin & Co.—Shahrah-e-Osmani, Hyderabad-Dn.
 Kamal Publicity Consultants.—Park Lane, Secunderabad.
 L. S. P. Natarajan.—Advertising Consultant, 69, Kingsway, Secunderabad-Dn.
 Modern Press & Publicity.—Estd. 1942, G.P.O. Lane, Abid Road, Hyderabad-Dn.
 Ojo Publicity.—Hindustan Gully, Hyderabad-Dn.
 Premier Publicity Co., The.—Kasaratla Road, Hyderabad-Dn. 2.
 Saba & Co.—Chapel Road, near Gunfoundry, Hyderabad-Dn.

AERATED WATER MANUFACTURERS

Badshah & Sons.—Station Road, Hyderabad-Dn.
 Haria & Sons.—55, Sebastian Road, Secunderabad-Dn.
 Spenses Aerated Waters.—106, Sardar Patel Road, Secunderabad-Dn.

AGRICULTURAL MACHINERY AND IMPLEMENTS

Belde Engineering Company.—144, Rashtrapathi Road, Secunderabad-Dn.
 Deccan Metal Works.—Mahatma Gandhi Road, Secunderabad-Dn.
 Gunti & Co.—89, Sarojini Devi Road, Secunderabad.
 Industrial Stores Co., The.—11, Durga Bhavan, Rashtrapathi Road, Secunderabad.
 Pushp Trading Co.—Rashtrapathi Road, Secunderabad.
 Rayyat Commercial Corporation Ltd.—141, Kingsway, Secunderabad.
 Secunderabad Agricultural Machinery Co.—150, Kingsway, Secunderabad-Dn.
 Voltas Limited.—87/D, Rashtrapathi Road, Secunderabad.

AIR-CONDITIONING AND REFRIGERATION

Deccan Engineering & Refrigeration Co.—133, Kingsway, Secunderabad-Dn.
 Emson Engineering Corporation.—142, Rashtrapathi Road, Secunderabad-Dn.
 Voltas Limited.—87/D, Rashtrapathi Road, Secunderabad.

AROMATIC CHEMICALS

CHUNILAL DAYALDES—Post Box No. 5, Hyderabad 2. Importers, Exporters and Stockists for Country Drugs, Aromatic Chemicals, Perfumery Compounds, Essential Oils, Capsules, Empty Glass Bottles and other toilet requisites.

AUTOMOBILE DEALERS

Aruna Automobiles.—Park Lane, Secunderabad-Dn.
AUTO CHENOV—63-D, Sarojini Devi Road, Secunderabad (Dn.). Phone: 7236. Grams: "AUTOCHENOV." Sole Distributors in Hyderabad State, STANDARD & TRIUMPH cars; Repairing of cars of all makes undertaken.
 Bombay Cycle & Motor Agency Ltd.—Ginwalla Buildings, Mahatma Gandhi Road, Secunderabad (Dn.).
 Deccan Automobiles.—Mahatma Gandhi Road, Secunderabad-Dn.
 Hind Auto Engineering Co.—Rashtrapathi Road, Secunderabad-Dn.
MADRAS CYCLE & MOTOR MART—7936, Mahatma Gandhi Road, Secunderabad-Dn. Phone: 6247. Grams: "TRIUMPH." Authorised "FORD" dealers for Hyderabad State, Service and parts.
 Modern Automobiles.—35, Oxford Street, Secunderabad-Dn.
 Reliance Automobiles.—Rashtrapathi Road, Secunderabad-Dn.

Telegrams :

"DECTRADE" Hyderabad.

Telephones :

Siddiambar Bazar	4583
Residence	2314
Fateh Maidan	2761
Hyderabad	34137

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RELIANCE AUTOMOBILES

AUTOMOBILE ENGINEERS &
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Spare Parts & Accessories :
Siddiambar Bazar,
Hyderabad Dn.



Sales, Service & Workshop :
Fateh Maidan,
Hyderabad Dn.

AUTOMOBILE ENGINEERS

Aruna Automobiles.—Park Lane, Secunderabad-Dn.
 Auto Cheney.—62-D, Sarojini Devi Road, Secunderabad.
 Defence Automobiles.—Mehta Mahal, 49, Mahatma Gandhi Road, Secunderabad-Dn.
 Premier Motors.—Sarojini Devi Road, Secunderabad.

AUTOMOBILE PARTS AND ACCESSORIES

Deccan Metal Works.—Mahatma Gandhi Road, Secunderabad-Dn.
 Defence Automobiles.—Mehta Mahal, 49, Mahatma Gandhi Road, Secunderabad-Dn.
 Hindustan Corporation Ltd.—Domalguda, Hyderabad-Dn.
 Hyderabad Auto Service.—Mehta Mahal, 49, Mahatma Gandhi Road, Secunderabad.
 Industrial Stores Co. Hyderabad Ltd.—11, Durga Bhavan, Rashtrapathi Road, Secunderabad.
 Lakshmi Automobiles.—Ranigunj, Secunderabad-Dn.
 Prabhat Automobiles.—54, Mahatma Gandhi Road, Secunderabad (Dn.).
 Rane Ltd.—51, James Street, Secunderabad-Dn.
 Supreme Automobiles.—Ranigunj, Secunderabad-Dn.

BAKERS AND CONFECTIONERS

John & Co.—Abid Road, Hyderabad.
 J. Pile & Co.—103, Park Lane, Secunderabad-Dn.
 Punjab Bakery.—Nampally, Hyderabad-Dn.
 Pushp Trading Co.—Rashtrapathi Road, Secunderabad.

BANKS

The Hyderabad Co-operative Baldia Bank Ltd.—Bashir Bag Road, Hyderabad (Dn.).
 The Hyderabad State Co-operative Bank Ltd. (Kstd. March 1915), Hyderabad-Deccan.

THE PRUDENTIAL CO-OPERATIVE CENTRAL & URBAN BANK LTD.,

Secunderabad.
 (Kstd. 1920).

Branch : Hyderabad. Phone : 6695.
 Transacts Banking Business of Every Description. Offers Safety facility in underground air-conditioned Safe Deposit Vault.

BATTERIES

Defiance Automobiles.—Mahatma Gandhi Road, Secunderabad-Dn.
 Hyderabad (Deccan) Traders.—79B, Station Road, Hyderabad-Dn.
 Reliance Automobiles.—Rashtrapathi Road, Secunderabad-Dn.
 V. V. Alurkar & Sons.—111, Kingsway, Secunderabad-Dn.

BELTING (TEXTILE)

C. F. Shah & Brothers.—Ranigunj, P. O. Box 103, Secunderabad. Nampally, Hyderabad-Dn.
 Standard Engineering Co.—138, Kingsway, Secunderabad-Dn.

BOLTS, NUTS AND SCREWS

Commercial Trading Corporation.—Ranigunj, Secunderabad-Dn.
 C. F. Shah & Brothers.—Ranigunj, P.O. Box 103, Secunderabad.
TRIVEDI, R. M., & SONS.—3364, Kingsway, Secunderabad 3, Dn. Phone : 6792. Grams : "LIBERTY". Sole Distributors for Premier Stores Supplying Co. Ltd.

BOOKSELLERS AND NEWSPAPER AGENTS

Kadambti.—75, Oxford Street, Secunderabad-Dn.
 Oxford Book Depot.—Oxford Street, Secunderabad-Dn.
 Purohit & Company.—H. O. : Sultan Bazar, Branch : Gunfoundry, Hyderabad-Dn.
 Venkatrama & Co.—Kingsway, Secunderabad.

BOOTS AND SHOES MAKERS AND DEALERS

Deccan Shoe Works.—103, Park Lane, Secunderabad-Dn.
 John Lee & Co.—Kingsway, Secunderabad-Dn.
 Modern Footwear Mart.—Kingsway, Secunderabad-Dn.
 Novelty Foot Wear.—402, Abid Road, Secunderabad-Dn.
 Reliance Shoe Co.—103, Park Lane, Secunderabad-Dn.
 Elanah Stores.—203, Abid Road, Hyderabad-Dn.

BUTTON MANUFACTURERS

OEA & CO.—Kasaratn Road, Hyderabad 2, Manufacturers of Buttons, Buckles, Badges etc.; Electroplaters, Govt. Contractors, Importers, Exporters; Dealers in Non-Ferrous Metals, Chemicals, Machinery etc. Grams : "OEA".

CABLES AND WIRES

Central Trading Co.—Rashtrapathi Road, Secunderabad-Dn.
 Vishnu Trading Co.—6/B, Rashtrapathi Road, Secunderabad-Dn.

CHEMICALS MANUFACTURERS

Hyderabad Chemicals & Fertilizers Ltd.—Oxford Street, Secunderabad-Dn.
 Hyderabad Chemical Supplies Ltd.—Shah-e-Osmani, Hyderabad-Dn.
 J. & J. DeChane.—Manufacturing Chemists, Residency Road, Hyderabad-Dn.
 Nath Laboratories.—Bashir Bagh Road, Hyderabad-Dn.
 Pushp Trading Co.—Rashtrapathi Road, Secunderabad.

CHEMISTS AND DRUGGISTS

J. & J. DeChane.—Residency Road, Hyderabad-Dn.
JANATA MEDICAL HALL.—Abid Road, Hyderabad (Deccan), Chemists & Druggists, Partners : Shamal Gupta, Banarshil Gupta, Ramotar Gupta, Tarachand Agarwal and Ramkishan Agarwal.
 John & Co.—Abid Road, Hyderabad.
 Kathiawar Stores.—Mahatma Gandhi Road, Secunderabad-Dn.
 Rex & Co.—Station Road, Hyderabad-Dn.

CIGARETTE FACTORIES

Hind Tobacco & Cigarette Co., Ltd.—Hyderabad-Dn.
 Vazir Sultan Tobacco Co., Ltd.—Azamabad, Hyderabad-Dn.

CINEMA MACHINERY

Cine Supplies Ltd.—7, Rashtrapathi Road, Secunderabad-Dn.
 Evergreen (Bangalore) Ltd.—Kingsway, Secunderabad-Dn.
 Leo Kine Agency.—Rashtrapathi Road, Secunderabad-Dn.

CONFECTIONERY

TRIVEDI, R. M., & SONS.—3364, Kingsway, Secunderabad 3 (Dn.). Phone : 6792. Grams : "LIBERTY". Sole Distributors for C. & E. Morton (India) Ltd.

CROCKERY, CUTLERY AND GLASSWARE

Bawa Glass Co.—Abid Road, Hyderabad-Dn.
 Kathiawar Stores.—Mahatma Gandhi Road, Secunderabad-Dn.

CYCLE & ACCESSORIES DEALERS

Afrul Cycle & Motor Stores.—James Street, Secunderabad-Dn.
 Gautam Cycle & Motor Stores.—93, Mahatma Gandhi Road, Secunderabad-Dn.
 Krishna Cycle Stores.—17, Mahatma Gandhi Road, Secunderabad-Dn.
 Laxmi Cycle Importing Co.—21, Mahatma Gandhi Road, Secunderabad-Dn.
 Raja Cycle & Motor Works.—Abid Road, Hyderabad-Dn.

DIESEL AND OIL ENGINES

Belde Engineering Co.—6549, Rashtrapathi Road, Secunderabad-Dn.
 Emson Engineering Corporation.—142, Rashtrapathi Road, Secunderabad-Dn.
 Eakay Engineering Corporation.—139, Kingsway, Secunderabad-Dn.
 Hind Auto Engineering Co.—Rashtrapathi Road, Secunderabad-Dn.
 Hindustan Corporation Ltd.—Domalguda, Hyderabad-Dn.
 Industrial Stores Co. Hyderabad Ltd.—11, Durga Bhavan, Rashtrapathi Road, Secunderabad.
 Pereira & Sons.—Pereira Buildings, 95, Sarojini Devi Road, Secunderabad-Dn. 3.
 Standard Engineering Co.—No. 3, Durga Bhuvan, 141, Kingsway, Secunderabad-Dn.
 Textool Co., Ltd.—6568, James Street, Secunderabad-Dn.
 V-X-L Agency.—138, Rashtrapathi Road, Secunderabad.
 Voltas Limited.—87/D, Rashtrapathi Road, Secunderabad.

DISINFECTANTS AND INSECTICIDES

Deccan Seed Stores.—Bashir Bagh, Hyderabad-Dn.
 Hyderabad Chemicals & Fertilizers Ltd.—Oxford Street, Secunderabad-Dn.

DRAWING MATERIALS

Mehta Brothers.—Shahrah-e-Osmani, Hyderabad-Dn.
 Modern Fotos.—Abid Road, opp. Grammar School, Hyderabad-Dn.
 National Paint & Varnish Works.—61, James Street, P.O. Box No. 1, Secunderabad-Dn.
 Scientific Engineering House Ltd.—A-10-335, Bashir Bagh, Hyderabad-Dn.

DYESTUFFS

Chandulal T. Parikh.—Kingsway, Secunderabad-Dn.
 Ganesh Trading Co.—154-H, Rashtrapathi Road, Secunderabad-Dn.
 Pushp Trading Co.—Rashtrapathi Road, Secunderabad.

ELECTRIC MOTORS AND DYNAMOS

Belde Engineering Co.—6549, Rashtrapathi Road, Secunderabad-Dn.
 Metro Engineering Corporation.—Secunderabad-Dn.
 Sun Electric & Motor Stores.—3153, Kingsway, Secunderabad-Dn.
 Voltas Limited. 87 D, Rashtrapathi Road, Secunderabad.

ELECTRICAL ENGINEERS AND CONTRACTORS

Associated Engineering Co.—137, Kingsway, Secunderabad-Dn.
 Deccan Electric Stores.—10, Sultan Bazar, Hyderabad-Dn.
 Dominion Engineering Corporation.—P.O. Box No. 37, Rashtrapathi Road, Secunderabad-Dn.
 Hyderabad General Electric Stores.—Opp. Grammar School, Abid Road, Hyderabad-Dn.
 M. K. Mudaliar & Sons.—8059, Rashtrapathi Road, Secunderabad-Dn.
 Nathoo Laljee.—Gunfoundry Road, Hyderabad-Dn. Phone: 5118.
 Shanker Electric.—205, Yousuf Mansion, Abid Road, Hyderabad-Dn.
 Shanker Electric Stores, The.—Shanker Mahal, 31, Mahatma Gandhi Road, Secunderabad-Dn.
 Standard Radio Electronics.—Sultan Bazar, Hyderabad-Dn.

ELECTRICAL GOODS DEALERS

Belde Engineering Company.—6549, Rashtrapathi Road, Secunderabad-Dn.
 Bombay Electric Stores.—121, James Street, Secunderabad-Dn.
 The Central Trading Co.—Rashtrapathi Road, Secunderabad-Dn.
 Chandra Electric.—3121, Kingsway, Secunderabad-Dn.
 Deccan Electric Stores.—10, Sultan Bazar, Hyderabad-Dn.
 Dominion Engineering Corporation.—P. Box No. 37, Rashtrapathi Road, Secunderabad-Dn.
 Hindustan Corporation Ltd.—Domalguda, Hyderabad-Dn.
 Scientific Electricals.—Bank Street, Sultan Bazar, Hyderabad-Dn.
 Shanker Electric.—205, Yousuf Building, Abid Road, Hyderabad-Dn. Phone: 4508.
 Sun Electric & Motor Stores.—3153, Kingsway, Secunderabad-Dn.
 Vijay Radio & Electric Service.—King's Corner, Abid Road, Hyderabad-Dn.
 V-X-L Agency.—138, Rashtrapathi Road, Secunderabad-Dn.

ELECTROPLATING MATERIALS

ARVIND & CO.—Kasaratla Road, Hyderabad 2. Industrial Equipment and Supplies; Specialists in Electroplating Chemicals; Government and Railway Suppliers.

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 Deccan Metal Works.—Mahatma Gandhi Road, Secunderabad-Dn.
 Hyderabad Deccan Engineering Co., Ltd.—6608-A, Rashtrapathi Road, Secunderabad (Dn.).

FERTILIZERS

Deccan Seed Stores.—Bashir Bagh, Hyderabad-Dn.
 Hyderabad Chemicals & Fertilizers Ltd.—Oxford Street, Secunderabad-Dn.
 Emson Engineering Corporation.—142, Kingsway, Secunderabad (Dn.).

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 Hyderabad Wood Works, The.—Mahatma Gandhi Road, Secunderabad-Dn.
 Sharda Stores.—3106, Kingsway, Secunderabad-Dn.
 Siddheshwar & Co.—Abid Road, Hyderabad-Dn.

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 Deccan Metal Works.—Mahatma Gandhi Road, Secunderabad-Dn.
 National Sanitary Engineering Co.—149, Kingsway, Secunderabad-Dn.
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 Textool Co., Ltd.—8668, James Street, Secunderabad-Dn.
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 Voltas Limited.—87/D, Rashtrapathi Road, Secunderabad.

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 Reliance Automobiles.—Rashtrapathi Road, Secunderabad-Dn.
 Sohrab Brothers.—Bank Street, P.O. Box 207, Hyderabad-Dn.

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Pinto & Co., J. C.—Agents for *Times of India* & Allied Publications. Sarojinidevi Road, Secunderabad (Dn.). Grams: "PINTOCO." Phone: 7372.

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 Deccan Optical & Allied Industries Ltd.—Bashir Bagh, Hyderabad-Dn.
 Hardy & Co.—Ophthalmic Opticians, 124, Mahatma Gandhi Road, Secunderabad-Dn.
 Krishna Optical Co.—103, Mahatma Gandhi Road, Secunderabad-Dn.
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 Optical Palace.—Abid Road, Hyderabad-Dn.
 Standard Opticians.—Abid Road, Hyderabad-Dn.
 Vision Optic House.—536, Abid Road, Hyderabad-Dn.

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 Vauhini Press, De Luxe Printers.—Kingsway, Secunderabad-Dn.

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Dominion Engineering Corporation.—P. Box No. 37, Rashtrapathi Road, Secunderabad-Dn.
 The Hyderabad Oil & Paint Co., Ltd.—Industrial Area, Azamabad, Hyderabad-Dn.
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Paints House.—Shahrah-e-Osmania, Hyderabad-Dn.
 Pushp Trading Co.—Rashtrapathi Road, Secunderabad.
 Sri Balaji Paints & Hardware Mart.—Jambagh Road, Hyderabad-Dn.

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 Sardar & Co.—Begum Bazar, Hyderabad-Dn.
 Sirpur Paper Mills Ltd.—Himayatnagar, Hyderabad-Dn.

PHARMACEUTICALS

Daruvula Bros.—Sultan Bazar, Hyderabad-Dn.
 Hyderabad Chemical Supplies, Ltd.—Shahrah-e-Osmania, Hyderabad-Dn.
 Hyderabad Chemical & Pharmaceutical Works Ltd.—Azamabad, Industrial Area, Hyderabad-Dn.
 J. & J. De Chane.—Residency Road, Hyderabad-Dn.
 Kathiwar Stores.—Mahatma Gandhi Road, Secunderabad-Dn.
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 National Sanitary Engineering Co.—149, United Mansion, Rashtrapathi Road, Secunderabad-Dn.

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Excelsior Press.—131, Park Lane, Secunderabad.
 Hyderabad Printing Works.—Abid Road, Hyderabad-Dn.
 Modern Press & Publicity.—G.P.O. Lane, Abid Road, Hyderabad-Dn.
 Osmania Printing Works.—87E & F, Rashtrapathi Road, Secunderabad-Dn.
 Vauhini Press, De Luxe Printers.—Kingsway, Secunderabad-Dn.

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 Kathiwar Stores.—James Street, Secunderabad-Dn.
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 Emson Engineering Corporation.—142, Rashtrapathi Road, Secunderabad-Dn.
 Kalidas Radios.—Sultan Bazar, Hyderabad-Dn.
 Universal Trading & Radio House.—1240, Abid Road, Hyderabad-Dn.

RICE MILL MACHINERY

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 Standard Engineering Co.—138, Kingsway, Secunderabad-Dn.

SANITARY ENGINEERS AND DEALERS IN SANITARY GOODS

Aurora Sanitary Engineering Co.—1-D, Rashtrapathi Road, Secunderabad.
 Barman Brothers.—Barman Building, Gunfoundry, Hyderabad.
 Hyderabad Potteries Ltd.—95, Park Lane, Secunderabad-Dn.
 Phone : 7443.
 D. Balaram & Sons.—Shahrah-e-Osmani, Hyderabad-Dn.
 Itatia Mehta & Co.—Bashir Bagh Road, Hyderabad-Dn.
 K. Karunakar & Sons.—Reddy Hostel Buildings, G.P.O. Lane, Abid Road, Hyderabad-Dn.
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SEWING MACHINES

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SPORTS GOODS

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 Asiad Sports.—Station Road (Abid Circle), Hyderabad-Dn.
 Deccan Sports.—Abid Road, Hyderabad-Dn.
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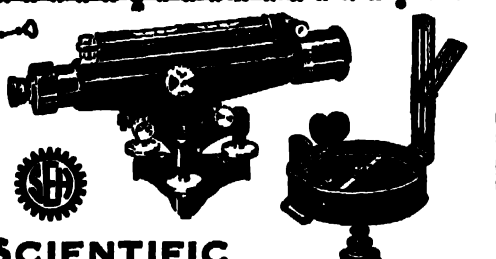
Ananth Medical Stores.—87B, Sarojinidevi Road (Oxford Street), Secunderabad-Dn-3.

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Phone : 7535.
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Rashid & Co.—Abid Road, Salarjung Building, Hyderabad-Dn.
United Watch Co.—Abid Road, Hyderabad-Dn.

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Dominion Engineering Corporation.—P. Box No. 37, Rashtrapathi Road, Secunderabad-Dn.

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Information and Broadcasting, G. Rajagopalan, Anand Chandra Joshi.
Planning, Labour, Employment, L. N. Mishra.
Defence, F. P. Gaekwad.
Community Development, S. D. Mishra.
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Private Secretary (Administration), M. L. Bazas.
Private Secretary (Public), S. P. Khanna.
Private Secretary (Personal), C. B. Srinivasan.
Asst. Private Secretaries, N. K. Sehan; R. K. Goel.*

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Joint Secretary to the Cabinet and Director, Central Statistical Organisation, P. C. Mathew, I.C.S.
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*Staff Officer (Army) GSOF, Lieutenant Colonel A. M. Vohra.
Staff Officer (Air) GSOF, Wing Commander J. B. Dordi, I.A.F.*

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Joint Intelligence Staff (Air), Wing Commander Jagbir Singh Bolarya, I.A.F.
Joint Planning Staff (Army) GSOF, Lt. Col. H. S. Kapoor.
Joint Intelligence (Navy) GSOF, Commander D. Balak Ram.
Joint Planning Staff (Air) GSOF, Wing Commander S. Purushotham.
Joint Planning Staff (Navy) GSOF, Commander E. J. Debu.*

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Deputy Director, Jagdish Prasad.
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NATIONAL INCOME UNIT

Research Officer, K. N. C. Pillai.

NATIONAL SAMPLE SURVEY

*Chief Director, S. P. Sinha.
Dy. Directors, R. Bhattacharjee, D. Y. Lele.*

NATIONAL SAMPLE SURVEY

*Rajababdur Mansions, 32, Apollo St., Bombay 1.
Asst. Director, S. C. Dhar.
Superintendent, V. S. Bhat.
Statistical Investigator, M. C. Dutt.*

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* Resident in Delhi.

† Secretariat in New Delhi.

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Dy. Chief Scientific Officer (Metallurgy), Dr.
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Dy. Chief Scientific Officer (Biology), Dr. A. B.
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Dy. Chief Scientific Officer (Physics), A. S. Rao.
Dy. Chief Engineer, N. B. Prasad.***INDIAN RARE EARTHS (Private) LTD.
Udyogamandal P.O., Alwaye (Kerala).***Chief Administrative Officer, G. Rajagopal Menon.
Works Manager, H. N. Sethna.
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CONTROLLER, SHILLONG***Export Trade Controller for Assam & Manipur
in Ex-Office capacity as Collector of Central
Excise & Land Customs for Assam, Tripura
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P. B. No. 689, Bombay 1.**Controller of Enemy Firms and Enemy Trading
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Assistant Custodian of Enemy Property, M. K.
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(London).**The National Small Industries Corp. Private
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Service Institute, Madras, E. P. Raju.*

Joint Development Commissioner, Small Industries Service Institute, Calcutta, K. S. Roychowdhury.

Small Industries Service Institute, 56, Sunder Nagar, New Delhi

Jt. Dev. Commissioner, P. L. Sahgal.
Industrial Designer, P. Kallanpur.

Deputy Directors (Economic Investigation), V. Sawhney, N. R. Bannerjee.

Deputy Director (Business Management & Try.), Harkibhen Singh.

Deputy Director (Ancillary Industries), Major S. K. Kaycee.

**Small Industries Service Institute
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Director, B. N. Gandhi.
Dy. Development Commissioner, M. S. Natesan.

Small Industries Service Institute, 4, Camac Street, Calcutta 16

Joint Development Commissioner, K. S. Roy Chowdhury.
Dy. Director (Mech.), R. K. Chakraborty.

The Indian Handicrafts Development Corporation Private Ltd., 152, Golf Links, New Delhi

Managing Director, R. G. Mundkur.
Secretary, K. Patrose.

All India Handicrafts Board, Taj Barracks, Janpath, New Delhi 2

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Vice-Chairmen, Smt. Kirti Shiva Rao, U. S. Mallik, M. P.

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Directors, N. K. Vinayakam, D. N. Saraf.

The National Small Industries Corporation (Calcutta) Private Ltd., 23, Camac Street, Calcutta 16

Manager, S. M. Banerji.
 Liaison Officer, P. L. Sarin.
Administrative Accounts Officer, A. C. Roy.

National Industrial Development Corporation Limited, Udyog Bhavan, King Edward Road, New Delhi

Managing Director, Dr. A. Nagaraja Rao.
Secretary, S. Gopalan.
Special Officer (Loans), A. Chatterjee.
Administrative Officer, S. C. Das Munshi.
Accounts Officer, M. S. Malkani.

Heavy Engineering Corporation Ltd., Udyog Bhavan, King Edward Road, New Delhi 11
Chairman, Dr. A. Nagaraja Rao.
Executive Director, K. B. Rao.

Central Silk Board, Maghdoot 65-B, Marine Drive, Bombay 2

Chairman, D. S. Joshi, I.C.S.
Secretary, A. T. Janakiraman, B.Sc.

The Rubber Board, Kottayam (Kerala State)

Chairman, Vacant.
Rubber Production Commissioner, K. N. Kaimal.
Secretary, T. V. Joseph.

Tea Board, 27 & 29, Brabourne Road, Calcutta 1

Chairman, A. B. Chatterji, I.C.S.
Vice-Chairman, C. D. Wilson.
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Coffee Board, Bangalore

Chairman, Tenneti Viswanathan.
Director of Research, Dr. B. T. Narayanan.
Development Officer, C. B. Shankra Iyer, I.A.S.
Chief Coffee Marketing Officer, G. S. Sreenivasan, I.A.S.
Director of Propaganda, Bimal Bose.
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Accounts Officer, C. R. Subramanian.

Cair Board, Post Box 86, Ernakulam

Chairman, T. M. B. Nedungadi.
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Office of the Textile Commissioner, Bombay
Textile Commissioner & Ex-Officio Jt. Secretary to the Government of India, D. S. Joshi, B.A. (Hons.), Bar-at-law, I.C.S.

BRANCH SECRETARIAT, ADMINISTRATION AND CO-ORDINATION BRANCHES
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PRODUCTION & DEVELOPMENT BRANCH

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Directors, I. B. Dutt, B.Sc., L.T.M., M.Sc. (Tech.) (Manch.); R. G. Chandorkar, B.Sc., L.T.M., M.Sc. (Tech.), Manch.

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Deputy Director, A. K. Das Gupta, B.Sc. (Cal.), B.Sc. (Tech.) (Manch.), A.T.I. (Manch.).

REGIONAL DIRECTORATE OF PRODUCTION, COIMBATORE

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All-India Handloom Board, Secretariat, Bombay

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Deputy Textile Commissioner-cum-Secretary, All India Handloom Board, V. Subramanian, M.A., LL.B., I.A.S.

Deputy Secretary (on foreign service to the Handloom Marketing Fabric Co-operative Society), N. Ramaswamy.

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Senior Accounts Officer, T. N. Chari, B.A.
Exhibition Officer, V. V. Deo, B.A., G.D. (Art), Commercial.

Accounts Officer, K. B. Menon.

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REGIONAL OFFICE, CALCUTTA

Dy. Director, D. S. Venkatasubramania Iyer.

REGIONAL OFFICE, MADRAS

Dy. Director, V. Govindan, M.A.

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REGIONAL OFFICE, SECUNDERABAD

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SUB-REGIONAL OFFICE, GAUHATI

Assistant Director (Grade II), B. N. Basu, B.Sc.

SUB-REGIONAL OFFICE, PATNA

Assistant Director (Grade II), S. K. Chatterjee, B.Sc.

SUB-REGIONAL OFFICE, JAIPUR

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SUB-REGIONAL OFFICE, BHUBANESWAR

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SUB-REGIONAL OFFICE, RAJKOT

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SUB-REGIONAL OFFICE, POONA

Assistant Director (Grade II), R. P. Mitta.

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DESIGNS CENTRE, BOMBAY

Honorary Industrial Adviser (Textile Designs), Smt. Pupul Jayakar.

Director, M. S. Ramuath.

DESIGNS CENTRE, MADRAS

Deputy Director, Dr. K. I. Narasimhan.

DESIGN CENTRE, CALCUTTA

Deputy Director, Niren Ghosh.

DESIGN CENTRE, BANARAS

Deputy Director, U. B. Hanumantha Rao.

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Managing Director, D. Sandilya, I.R.A.S.
Directors, V. N. Rajan, I.C.S.; N. Subrahmanyam, I.C.S.; Nagendra Singh, I.C.S.; H. D. Singh; K. L. Ghel, I.R.A.S.; B. B. Saksena; N. N. Kashyap, I.C.S.; S. Ratnam; S. V. Kanungo; H. R. Dewan.

Secretary, K. N. Sinha.
Financial Adviser & Chief Accounts Officer, A. N. Kaul.

General Manager (Orss), H. K. Kochar.
Divisional Managers, A. S. Sharma (B & T), K. K. Nasta (B & T), M. M. Bakiani (B & T), S. N. Sen (D & S), A. N. Puri (Cement), H. K. Mathur (Cement).

Chief of Research & Statistics, R. C. Dube.
Regional Managers, E. C. Sankar (Madras),
R. N. Samarth (Bombay), B. C. Mallik
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Director-General of Commercial Intelligence and Statistics, S. Subramanian.

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Asstt. Directors, B. K. Sen; P. Bishayee; A. R. Dutta.

Tariff Commission, Central Govt. Offices Bldg., 101, Queen's Road, Bombay 1

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Member-Secretary, Pranlal S. Kapadia.
Member-in-charge (Khadi), Dwarkanath V. Lele.
Member-in-charge (Village Industries and U.P.A. Affairs), R. Srinivasan.

Members of the Khadi Board:

Member-in-charge (Sales Development), Vithaldas V. Jerajani.
Member-in-charge (Intensive Area Schemes and Village Oil Industry), Jhaverbhai Patel.
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Dy. Chief Executive Officer, B. P. Umarji.
Director of Economic Research, Dr. J. D. Sundram.

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Director of Publicity, C. K. Narayanswami.
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Director (Swaralamban), K. Vaidyanathan.

Trade Marks Registry, New Marine Lines, Bombay

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BRANCH, BANGALORE

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Heavy Electricals Private Limited, "Junagarh House", Govind Pura, Post Box No. 46, Bhopal

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Deputy Chief Engineer (Civil), M. F. Beg.
Assistant Works Manager, E. J. De Sanges.
Secretary, A. P. Hariharan.
Controller of Accounts, C. S. Venugopal Rao.

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P. O. Hindustan Cables, Dist. Bardwan, W. Bengal

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Administrative & Personnel Officer, B. H. Rao.
Chief Inspector, J. Das Gupta.
Plant Supdt. & Project Engineer, S. Raghavan.
Stores & Transport Officer, M. S. Das Gupta.
Operating Superintendent, R. S. Prasanna.
Purchase & Sales Officer, A. R. Mukherjee.

Hindustan Insecticides Private Limited, Industrial Area, Rohtak Road, New Delhi 15

Managing Director, S. S. Jagria.
Works Manager (Delhi), S. D. Bhasin.
Works Manager (Alwaye), P. K. Narayanaswamy.
Accounts Officer-cum-Secretary, Atam Chand.

Hindustan Machine Tools (P) Limited, Jalakhali P.O., Bangalore

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Managing Director, M. K. Mathulla.

Hindustan Shipyard Limited.
Gandhigram P. O. Visakhapatnam

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Secretary, P. K. Somanadham, M.A., LL.B.

National Instruments Factory Private Ltd., 15, Wood Street, Calcutta 16

Managing Director, S. D. Joshi, B.Sc. (Hons.); D. Fdy. Tech. (U.K.).
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Secretary and Financial Controller, S. Natarajan, B.A.

Office of the Salt Commissioner, P. Box No. 139, Jaipur

Salt Commissioner, R. N. Vasudeva, I.A.S.
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OFFICE OF THE ASSISTANT SALT COMMISSIONER, 11, CHITTARANJAN AVENUE, CALCUTTA.

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OFFICE OF THE GENERAL MANAGER, SAMBHAR LAKE (RAJASTHAN).

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MANDI SALT MINES, MANDI (HIMACHAL PRADESH).

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Accounts Officer, M. Gopalakrishnan.

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General Officer Commanding-in-Chief, Eastern Command, Lt.-Gen. S. P. P. Thorat.

General Officer Commanding-in-Chief, Western Command, Lt.-Gen. P. N. Thapar.

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Dy. Adjutant-General, Maj.-Gen. M. S. Pathania.

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Dy. Quarter-master-General, Vacant.

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Dy. Master-General of the Ordnance, Maj.-Gen. Sarda Nand Singh.

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Deputy Chief of the Naval Staff, Rear-Admiral A. K. Chatterji.

Flag Officer (Commanding), Indian Fleet, Rear-Admiral A. Chakravarti.

Commodore-in-Charge, Cochin, Commodore S. G. Karmarkar.

Flag Officer, Bombay, Rear-Admiral B. S. Soman.

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Deputy Chief of the Air Staff, Air Vice-Marshal D. A. B. Nanda.

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Air Officer Commanding, Training Command, Air Commodore Ranjan Dutt.

Air Officer Commanding, Maintenance Command, Air Vice-Marshal, Harjinder Singh.

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Air Officer-in-Charge, Maintenance, Air Commodore M. S. Chaturvedi.

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6, Esplanade East, Calcutta

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Directorate of National Cadet Corps

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D.H.Q. P.O., New Delhi 11

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Commercial Manager, T. T. Joseph.

Hindustan Aircraft (Private) Ltd.,

Hindustan Aircraft P. O., Bangalore

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I.N. Physical Laboratory,

Naval Base, Cochin 4

Principal Scientific Officer & Officer-in-Charge, Dr. Shambhu Saran Srivastava.

Naval Chemical & Metallurgical Laboratory,

Naval Dockyard, Bombay 1

Officer-in-Charge, U. G. K. Menon, B.Sc. (Mech.).

Naval Hydrographic Branch, Naval Headquarters, New Delhi

NAVAL HYDROGRAPHIC OFFICE,

RAJPUK ROAD, DEHRA DUN (U.P.)

Chief Hydrographer of the Navy, Captain I. K. Puri, I.N.

Customs Stores Department (India)
Adolph, 119, Queen's Road, Bombay 1
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Administrative Officer, S. C. Suri.
Chief Accountant, E. L. Lilwa.

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Principal, Artisan Training School, Commander H. P. Madan, I.N.

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Education Department, Embassy of India, Washington
Education Counsellor, L. R. Sethi.

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Protector of Emigrants, Mandapam Camp, K. Narayana Murthy.

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Secretary, A. K. Roy, I.A. & A.S.
Special Secretary, M. V. Rangachari, I.A. & A.S.
Additional Secretary, S. Jagannathan, I.C.S.
Joint Secretaries, N. C. Sen Gupta, I.O.S.; A. Bakshi, I.A. & A.S.; B. K. Kaul, I.C.S.; H. S. Negi, I.A. & A.S.
Chief Economic Adviser, J. J. Anjaria.
Additional Budget Officer, Shrivnaubh Singh, I.A. & A.S.
Deputy Secretaries, R. V. Subramanian, I.A.S.; R. K. Seshadri; P. Gangulee; V. Doraiswamy; M. K. Venkatchalam; A. C. Banerjee; S. Y. Ranade, I.A.S.; B. V. Radhakrishnan; P. S. Nadkarni, I.A.S. (Hqrs. at Bombay); E. Kolet; K. P. Biswas; C. S. Swaminathan, I.A. & A.S.

OFFICE OF THE COMMISSIONER-GENERAL FOR ECONOMIC AFFAIRS IN U.S.A., WASHINGTON, D¹⁴. (U.S.A.)

Commissioner-General for Economic Affairs, B. K. Nehru, I.O.S.

Counsellor, C. S. Krishnamoorthy, I.A.S.
Economic Attache, I. G. Patel.

OFFICE OF THE COMMISSIONER-GENERAL FOR ECONOMIC AFFAIRS IN EUROPE, LONDON.

Commissioner-General, T. Swaminathan, I.C.S.

Department of Expenditure GENERAL DIVISION

Secretary, N. N. Wanchoo, I.C.S.
Additional Secretary (I & S), N. C. Deb, I.R.A.S.
Joint Secretaries, M. R. Bhatnagar; R. Narayanaswami; K. L. Ghei; S. S. Shiralkar; Inderjit Singh; A. C. Bose; S. Vohra; A. V. Venkateswaran.

Deputy Secretaries, K. P. Sircar; R. K. Rangan; K. S. Ganapati; D. D. Bhatia; C. B. Krishnamurthi, S. Vasudevan, K. N. Bhutani; K. L. Rathee; Robert R.; R. Natarajan; T. P. Chatterjee; C. V. R. Panikar; N. V. Venkataraman.

Finance Officer, S. Ramier.
Additional Finance Officer, N. R. Bansod.

COMMUNICATIONS DIVISION

Joint Secretary, S. S. Shiralkar.
Deputy Secretaries, R. G. Abbhi; S. Viswanathan.

DELHI STATE DIVISION

Deputy Secretary, K. L. Rathee.

COST ACCOUNTS BRANCH

Chief Cost Accounts Officer, N. Krishnan.
Senior Cost Accounts Officer, K. Nagaswami.

DEFENCE DIVISION

Financial Adviser, S. Jayasankar.
Add. Financial Advisers, D. S. Nakra; M. K. Harilalan.
Joint Financial Adviser, P. C. Bhattacharya.

Department of Revenue

CENTRAL BOARD OF REVENUE

Secretary, Departments of Revenue & Economic Affairs, A. K. Roy.

Secretary and Ex-Officio Chairman, C. B. R., E. Krishnamoorthy.

Members and Ex-Officio Joint Secretaries, V. V. Chari; B. N. Banerji; K. S. Sundara Rajan; D. P. Anand.

Director of Revenue, Intelligence & Ex-Officio Member, Central Board of Revenue, B. B. Barman.

Secretaries, C. B. R. and Ex-Officio Deputy Secretaries, N. H. Naqvi; M. A. Rangaswamy; P. N. Das Gupta; S. K. Bhattacharjee; N. Srinivasan; J. M. Lalvani; S. G. Bose Mullick; D. Subramaniam; M. C. Das.
O. & M. Officer, Brij Bhushan Lal.
Officer on Special Duty, W. Saldanha.

DIRECTORATE OF REVENUE INTELLIGENCE

Director, B. B. Barman.

DIRECTORATE OF INSPECTION, EXCISE AND CUSTOM

Director of Inspection, R. N. Misra.

DIRECTORATE OF INSPECTION SPECIAL INVESTIGATION WING

Directors of Inspection, K. P. Sinha; J. P. Singh.

Investigation Wing

Directors of Inspection (Investigation), N. K. Saksena; Income Tax Wing, Sunder-Murthy Mudalliar.

CENTRAL REVENUES CONTROL LABORATORY, NEW DELHI

Chief Chemist, P. S. Krishnan.

STATISTICAL BRANCH (INCOME-TAX)

Statistician (Income-tax), P. S. R. Pillai.

STATISTICS AND INTELLIGENCE BRANCH (CENTRAL EXCISES)

Dy. Coll., Statistics and Intelligence, A. R. Shanmuga n.

Enforcement Directorate

Reserve Bank Building, 2nd Floor, New Delhi.
Director : A. M. Chatterjee.
Asstt. Director : S. N. Ghosh.

Bombay Region—C/o Reserve Bank of India, Amar Building, Sir Pherozshah Mehta Road, Bombay.

Asstt. Director : S. M. Sanzgiri.

Calcutta Region—14, Theatre Road, Calcutta 16.

Asstt. Director : V. S. Bagga.

Madras Region—10, Armenian Street, Madras 1.

Asstt. Director : T. V. Damodaram.

Defence Accounts Department (D. H. Qrs. Post Office, New Delhi II)

Controller General of Defence Accounts, Phul Chand.

Addl. Controller-General of Defence Accounts, J. B. Martin.

Department of Insurance, Kennedy Cottage, Simla 4

Controller of Insurance, S. K. Valyapuri, M.A. (Oxon.), F.I.A., Bar-at-Law.

Comptroller and Auditor-General of India, Mathura Road, New Delhi

Comptroller and Auditor-General, A. K. Chanda.
Dy. Comptroller and Auditor-General, A. Kalyanaraman.

Additional Deputy Comptroller and Auditor-General (Railways) and Ex-Officio Director of Rly. Audit, P. C. Padhi.

Additional Deputy Comptroller and Auditor-General (Headquarters), G. Swaminathan.

Addl. Dy. Comptroller and Auditor-General (Personnel), G. H. Po Saw.

Director of Co-ordination and Secy. to Comptroller & Auditor-General, G. V. Chittar.

Director of Audit & Accounts, S. C. Bhattacharya.
Director of Inspection, S. S. Lakshmi Ratan.

Asstt. Comptroller & Auditor-General (Admn.), D. C. Anand (E.C.).

Asstt. Comptroller & Auditor-General (P), Amrita Grover.

Asstt. Comptroller & Auditor-General (N), T. B. Nagarajan.

Asstt. Comptroller & Auditor-General (Report), N. C. Khanna.

Dy. Director of Railway Audit, P. Bhattacharjee.

India Government Mint, Bombay

Mint Master, B. S. D. Aiyar, M.A., B.Sc. (Hons.), D.I.Sc. (Tech.), A.M.I.E.

Asstt. Mint Master, D. C. Mukherjee, G.I. Mech.E. (Lond.).

Accountant, S. V. Shanbhag.
Bullion Registrar, M. R. Tanksalvala, B.Com., J.P.

Works Manager, B. M. Mistry, B.E. (Electrical), B.E. (Mech.).

Engineers, S. M. Tahseen; H. W. Travas; F. K. Hyderabadwalla; G. K. Malkani; H. Natarajan; B. S. Bamode.

Senior Artist Engraver, P. W. M. Brindley.

INDIA GOVERNMENT ASSAY DEPARTMENT, C/O INDIA GOVERNMENT MINT, FORT, BOMBAY

Dy. Chief Assayer, N. C. Mitra, M.Sc., A.R.I.C.

India Government Mint, Calcutta 27

Master of the Mint, A. A. J. Gomez, B.Sc. (Hons.), Eng. (Londn), A.C.G.I., D.I.C., A.M.I.M.

Dy. Master of the Mint, P. K. Tikku, B.Eng. (Sheffield).

Works Manager, S. S. Molla.
Bullion Registrar, G. E. Belchambers.

Offg. Accountant, K. B. Mukherjee.

India Government Mint, Saifabad, Hyderabad

Deputy Mint Master, V. J. Joshi, B.Sc. (Eng.), M.S. (Met. Eng.), U.S.A.

Accountant, V. G. Nabar, B.Sc.
Bullion Registrar, Rasheed Ahmed.

India Security Press, Nasik Road (INCLUDING CENTRAL STAMP STORE, AND CURRENCY NOTE PRESS)

Master, India Security Press and Ex-Officio Controller of Stamps, N. D. Prabhu, B.Sc. (Engg.), A.M.I.E. (India).

Deputy Master, India Security Press, M. B. Kapur, A.M.I.Mech.E., A.M.I.E. (India).

Head Engraver, P. B. Chitnis.
Head Engineer, V. B. Chinnmugund.

Chief Inspector, Control, D. B. Didiasho.

CENTRAL STAMP STORE

Deputy Controller of Stamps, R. S. Bery, B.Com.
Assistant Controller of Stamps, Janardan Datta.

CURRENCY NOTE PRESS

Deputy Master, Currency Note Press, M. S. Pathak, B.Sc., B.E. (Elec.) & B.E. (Mech.).

Assistant Master, Currency Note Press, N. P. Sarnalk, I.M.E. (Hons.), L.E.E. (Hons.), Grad. I.E. (India).

India Government Silver Refinery Project

47, Strand Road, Calcutta 7.
Master, Assay Department and Silver Refinery Project, B. K. Bose.

Dy. Chief Assayer, N. C. Mitra.
Works Manager, H. Dutta.

Accounts Officer, N. R. Ghosh.

Industrial Finance Corporation of India, Reserve Bank Building, Parliament Street, New Delhi

Directors on the Board of the Corporation, K. R. K. Menon (Chairman), V. P. Varde, S. V. Ramamurthy, G. D. Ambekar, S. P. Virmani, C. C. Desai, S. C. Roy, M. T. Muthiah, S. K. Basu, B. Venkatasubbiah, J. K. Jhu, I.C.S., R. M. Deshmukh, M.P., A. Bakshi.

Chairman, K. R. K. Menon.
General Manager, H. V. Venkatasubbiah.

Secretary, Dalip Singh.

Bombay Office :—Liberty Building, 40-41, Marine Lines, Bombay.

Calcutta Office :—P-11, Mission Row Extension, 3rd floor, Calcutta.

Madras Office :—38, Whites Road, Royapettah, Madras 14.

Rehabilitation Finance Administration, Church Road, New Delhi-2

Chief Administrator, R. N. Hazari.
Dy. Chief Administrator, N. L. Chatterjee.

Chief Accountant, D. L. Sondhi.
Law Officer, S. Saran Singh.

Office of the Accountant-General, Central Revenues, Curzon Road Barracks, New Delhi

Accountant-General, S. Venkataramanan.

Sr. Deputy Accountants-General, K. C. Nair; R. Joshi.

Dy. Accountants-General, T. C. Puri; M. N. Patnalk; H. S. Samuel; A. Ghosh; K. Subrahmanyam.

Office of the Accountant-General, Posts and Telegraphs, Simla

A.G., O. K. Ghosh, I.A. & A.S.
D.A.G., G. C. Raghuvir, I.A. & A.S.

Office of the Deputy Accountant-General, Posts and Telegraphs, Kapurthala

Deputy Accountant-General, S. M. Maitra, I.A. & A.S.

Office of the Senior Deputy Accountant-General, Posts and Telegraphs, 7, Kailashat Street, P.O. Box 276, Calcutta

Sr. Dy. Accountant-General, D. H. Veeralah, I.A. & A.S.

Dy. Accountant-General, V. K. Bhussary, I.A. & A.S.

Office of the Deputy Accountant-General, Telegraph Check Office, Calcutta

Dy. Accountant-General, P. R. Mukherji.

Office of the Dy. Account-General, Posts & Telegraphs, Stores & Workshops, Calcutta

Dy. Accountant-General, Y. P. Pasi, I.A. & A.S.

Office of the Deputy Accountant-General, Posts and Telegraphs, Delhi

Deputy Accountant-General, A. C. Bhatia, I.A. & A.S. (EC.).

Office of the Senior Deputy Accountant-General, Posts and Telegraphs, No. 2, Commander-in-Chief Road, Egmore, Madras 8

Sr. Deputy Accountant-General, T. C. Haggar, M.Sc., I.A. & A.S.

Office of the Senior Deputy Accountant-General, Posts and Telegraphs, Nagpur

Sr. Deputy Accountant-General, T. Rengachari, I.A. & A.S.

Office of the Assistant Accountant-General, Posts & Telegraphs (Hyderabad)

Dy. Accountant-General, M. K. Behl, I.A. & A.S.

Office of the Director of Audit, Defence Services, New Delhi

Director of Audit, P. K. D. Basu.

Railway Audit Offices

Northern Railway

The Mall, Delhi 8.

Chief Auditor, J. R. Suri, I.A. & A.S.

Western Railway

Chief Auditor, G. Narayanaswamy, I.A. & A.S.

Eastern Railway

Chief Auditor, K. K. Iyengar, I.A. & A.S.

South-Eastern Railway

Chief Auditor, B. R. Allen Dent, I.A. & A.S.

North-Eastern Railway

Chief Auditor, P. Krishnamurti, I.A. & A.S.

Central Railway

Chief Auditor, S. Sankaran, I.A. & A.S.

Southern Railway

Chief Auditor, S. Srinivasan, I.A. & A.S.

National Savings Commissioner for India, Post Box No. 96, Nagpur

National Savings Commissioner for India, N. V. Nayudu.

Secretary, National Savings Organisation, Nagpur, R. G. Khedekar.

Regional National Savings Officers, S. N. Sapre, I.A.S. (Bombay); S. Mukerjee (Calcutta).

Narcotics Department, Cleburn, Simla 4

Narcotics Commissioner, Tilak Raj, B.Sc., I.R.S.
Deputy Narcotics Commissioner, Ghazipur (U.F.), J. Banerjee, M.A., LL.B., B.Sc., I.R.S.

Assistant Narcotics Commissioner, Neemuch, V. K. Ashtana, M.Sc., A.I.S.M., I.R.S.

Intelligence Officer (Senior Scale), N.T.B., Simla (Punjab I), V. R. Dandapani, B.Sc. (Hons.), I.R.S.

UTTAR PRADESH UNIT, GHAZIPUR

Deputy Narcotics Commissioner (Opium), J. Banerjee, M.A., B.L., B.Sc., I.R.S.

GOVT. OPIUM AND ALKALOIDS WORKS GHAZIPUR

Manager, P. L. Karna, B.A., LL.B., I.R.S.
Sales Manager, K. Ahluwalia, B.Sc.

Reserve Bank of India

CENTRAL OFFICE, POST BOX 406, BOMBAY 1

Governor, H. V. R. Ingar.

Deputy Governors, K. G. Ambegaokar; Ram Nath; B. Venkatappiah.

Chief Accountant, C. S. Divakar.

Principal Adviser, Dr. B. K. Madan.

Secretary, K. N. Mehta.

Inspector, M. M. Mehra.

Officer-in-Charge, Legal Division, D. N. Motha.

Chief Officer, Department of Banking Operations, M. N. Naikharul.

Chief Officer, Department of Banking Development, N. D. Nangia.

Chief Officer, Industrial Finance Department, T. K. Ramasubramaniam.

Chief Officer, Agricultural Credit Department, J. C. Ryan.

Deputy Controller, Exchange Control Department, D. N. Malaute.

Economic Adviser to the Reserve Bank of India, Department of Research and Statistics, D. S. Savkar.

Statistical Adviser, Dept. of Research & Statistics, Dr. N. S. R. Nastry.

Manager, Bombay, B. V. Desai.

Manager, Calcutta, D. D. Pal.

Manager, Madras, J. S. Jaspal.

Manager, New Delhi, K. C. Mittra.

Manager and Currency Officer, Kanpur, R. C. Sachdeva.

Manager and Currency Officer, Bangalore, P. C. Sood.

Manager and Currency Officer, Nagpur, B. M. Mathur.

Manager, Lucknow, D. R. Rama Rao.

Manager, London, V. G. Pendharkar.

State Bank of India

Central Board of Directors: P. C. Bhattacharyya, Chairman; M. M. Pakvasa, Vice-Chairman; B. P. Patel, I.C.S., Managing Director; S. P. Puri, Managing Director; Directors elected under clause (c) of sub-section (1) of section 19 of the Act: J. D. Choksi, Pratapsinh Mathuradas. Directors nominated by the Reserve Bank of India under the proviso to clause (c) of sub-section (1) of section 19 of the Act: D. P. Goenka, Satya Paul Virmani, Maddi Sudarsanam. Directors nominated by the Central Board under clause (d) of sub-section (1) of section 19 of the Act, in consultation with the Reserve Bank of India: M. H. Hasham Premji, Ramnath A. Podar, Prof. D. R. Gadgil, Sachindra Chaudhuri, Dr. Triguna Sen, K. Ramunni Menon, G. L. Bansal, V. S. Tyagaraja Mudaliar. Director nominated by the Central Government under clause (e) of section (1) of section 19 of the Act: M. V. Rangachari. Director nominated by the Reserve Bank of India under clause (f) of sub-section (1) of section 19 of the Act: B. Venkatappiah.

Members of Local Boards, Bombay: P. C. Bhattacharyya, Chairman; J. D. Choksi, President; Pratapsinh Mathuradas, Vice-President; M. H. Hasham Premji, Ramnath A. Podar, Prof. D. R. Gadgil, Prof. D. G. Karve, S. L. Kirloskar, Purushottam Kanji, J. P. Patel.

Calcutta:—P. C. Bhattacharyya, Chairman; Sachindra Chaudhuri, President; D. P. Goenka, Vice-President; Dr. Triguna Sen, Dharendra Nath Mitra, Dharendra Nath Sen, K. K. Hiria, Surendra Chandra Roy.

Madras:—P. C. Bhattacharyya, Chairman; K. Ramunni Menon, President; V. S. Tyagaraja Mudaliar, Vice-President; Maddi Sudarsanam, E. J. M. Leigh, M. A. Chidambaram Chettiar, T. M. Chinnalya Pillai.

New Delhi:—P. C. Bhattacharyya, Chairman; Satya Paul Virmani, President; G. L. Bansal, Vice-President; Bharat Rain, Kirpa Narain, Bhai Mohan Singh, Dr. P. S. Lokanathan.

Life Insurance Corporation of India

Central Office: Jeevan Kendra, Jamshedji Tata Road, Bombay 1.

Chairman, P. A. Gopalkrishnan, I.C.S.

Managing Director, A. Rajagopalan.

Acting Managing Director, K. R. Srinivasan.

Executive Director (Development), V. H. Vora.

Executive Director (Accounts), D. P. Guddar.

Executive Director (Engineering), W. X. Mascarenhas.

Officer-in-Charge (Integration), M. N. Valdyn.

Investment Secretary, M. V. Sohonie.

Chief Internal Auditor, K. Palchaudhuri.

Secretary (Personnel, Secretarial & Inspection), R. M. Mehta.

Development Secretary, H. Balaram Rao.

Deputy Chief Engineer, S. K. Karandikar.

Public Relations Officer, P. U. Oza.

Zonal Manager, Delhi, A. L. Dutta.

Zonal Manager, Kanpur, T. S. Swaminathan.

Zonal Manager, Calcutta, M. D. Srinivasan.

Zonal Manager, Madras, K. Balasubrahmanyam.

Zonal Manager, Bombay, D. S. Mehta.

MINISTRY OF FOOD AND AGRICULTURE

Minister for Food & Agriculture, Ajit Prasad Jain.
Minister of Agriculture, Dr. Panjabrao S. Deshmukh.

DEPARTMENT OF AGRICULTURE

Deputy Minister of Agriculture, M. V. Krishnappa.

Secretary, K. R. Damle, I.C.S.

Vice-President, I.C.A.R. & ex-Officio Additional Secretary, M. S. Raudhawa, I.C.S.

Agricultural Production Adviser (Hony.), Raja Surinder Singh of Nalagarh.

Joint Secretaries, M. Lal, I.C.S.; S. Mullick, I.C.S.; Krishan Chand, I.C.S.

Managing Director, Central Warehousing Corporation, L. G. Rajwade, I.C.S.

Inspector General of Forests, G. G. Takle, I.F.S.

Deputy Inspector General of Forests, C. A. R. Bhadrani, I.F.S.

Deputy Secretaries, M. K. Kidwai, I.A.S., Prakash Krishan, I.A.S., D. Ramiah, P. L. Malhotra, S. Mukherjee, C. Chetty, T. S. Krishna-murti, P. N. Suri.

Secretary, I.C.A.R. & ex-Officio Deputy Secretary, S. K. Mirchandani.

Economic & Statistical Adviser & ex-Officio Deputy Secretary, Dr. S. R. Sen.

Co-operation Commissioner, R. H. Chishti, I.A.S.

Extension Commissioner, J. V. A. Nchemiah.

Tubewell Projects Administrator, Balwant Singh, I.A.S.

Irrigation Adviser, Mahabir Prasad.

Fisheries Development Adviser, N. K. Pantkar.

Add. Co-operation Commissioner, M. P. Bhargava.

Dairy Development Adviser, L. C. Sikka.

Add. Secretary, I.C.A.R. & Ex-Officio Deputy Secretary, F. C. Goran.

Livestock Adviser, M. R. Mahajan.

Department of Extension Commissioner

Extension Commissioner, J. V. A. Nchemiah.

Director of Administration, S. K. Dey.

Director of Extension Trg., Dr. J. C. Ramchandani.

Director of Farm Advisory Unit, T. R. Mehta.

Production Specialist, M. G. Kamath.

Exploratory Tubewells Organisation

Jamnagar House, Mansingh Road, New Delhi 2.

Chief Engineer: D. Mehta.

All India Cattle Show Committee

3, Ansari Road, Daryaganj, Delhi 7.
Secretary, M. R. Sharma.

Central Council of Gosamvardhana

16-A, Asaf Ali Road, New Delhi.

President, M. V. Krishnappa.

Vice-President, Krishan Chand.

Secretary, S. Harbans Singh.

DEPARTMENT OF FOOD

Deputy Minister, A. M. Thomas.

Secretary, B. H. Ghosh, I.A. & A.S.

Joint Secretary & Director General (Food), C. A. Ramakrishnan, I.C.S.

Joint Secretary, B. P. Bagchi, I.C.S.

Officer on Special Duty & Deputy Secretary, S. K. Sen.

Officer on Special Duty (Engineering), O. Muthachen.

Dy. Financial Adviser, B. S. Bhattacharya.

Deputy Secretaries, S. N. Bhalla, T. M. Gur-

baxani, B. L. Mahney.

Chief Director of Movement, B. C. Desikachari.

Chief Director of Purchase, Col. Prithvi Pal Singh.

Chief Director (Sugar & Vanaspathi), T. Prasad.

Special Director (Procurement), A. Rose, I.A.S.

Director (Budget & Finance Co-ordination), M. L. Sinha.

Director of Storage & Insp., Dr. S. V. Pingale.

Director of Ports & Depots, O. N. Bajpai.

Director of Purchase, S. N. Sikand.

Director (Sugar Technical), Gyan Chandra.

Director (Storage Acquisition), S. Swarup.

Director (Procurement), B. Mukerji.

OFFICE OF THE REGIONAL DIRECTOR

(FOOD), SOUTHERN REGION, No. 20, LUZ

AVENUE, MYLAPORE, MADRAS 4.

Regional Director (Food), P. L. Anand.

OFFICE OF THE DEPUTY DIRECTOR

(FOOD), CENTRAL STORAGE, GREEN

GATES, SAIFABAD, HYDERABAD (Du.).

Deputy Director (Food): G. Vaswaney.

Asst. Directors, Abdul Rashid, V. C. Gupta,

D. A. Uttam Singh, M. Pitchamuthu, V.

Bhaskara Rao.

REGIONAL DIRECTOR OF FOOD,

EASTERN REGION, 8, ESPLANADE EAST,

CALCUTTA.

Regional Director, J. S. Narayana.

OFFICE OF THE REGIONAL DIRECTOR

(FOOD), WESTERN REGION, MOHATTA

MARKET BLDG., 4th FLOOR, PALTON

ROAD, BOMBAY 1.

Regional Director (Food), P. K. Samal.

Joint Director, K. D. Narayan.

OFFICE OF THE ASSISTANT DIRECTOR,

CENTRAL STORAGE, P.B. No. 34, LASKAR,

GWALIOR.

Asst. Director, M. N. Bhavnani.

OFFICE OF THE ASSTT. DIRECTOR,

CENTRAL STORAGE, ROSHANARA

GODOWNS, SHAKTINAGAR, DELHI 6.

Asst. Director, M. N. Bhavnani.

Central Inland Fisheries Research Station,

86, Upper Circular Road, Calcutta 9.

Chief Research Officer, Dr. B. S. Bhattachar, D.Sc.

F.A.Sc., F.N.I.

Research Officer (Estuarine), Dr. T. V. R. Pillay,

M.Sc., Ph.D.

Research Officer (Hilaa), Dr. K. K. Sarojini, M.A.,

Ph.D.

Administrative Officer, J. M. David, B.A.

Central Inland Fisheries Research Sub-Station,

Cuttack 1.

Research Officer (Pond Culture), K. H. Alikhunli,

M.Sc.

Central Inland Fisheries Research Unit, Balangao,

Orissa.

Officer in-Charge (Chilka Investigation), Dr. V. G.

Jhingran, M.Sc., Ph.D.

**Central Inland Fisheries Research Unit,
Tungbhadra Dam**
Research Officer (Lacustrine), Dr. Y. R. Tripathi,
M.Sc., D.Sc.

**CENTRAL INLAND FISHERIES RESEARCH SUB-
STATION, ALLAHABAD.**

Research Officer (Riverine & Lacustrine) Dr. M. P.
Motwani, B.Sc., Ph.D.

**CENTRAL INLAND FISHERIES RESEARCH UNIT,
HOSHANGABAD**

Assistant Research Officer, S. J. Karamchandani,
B.Sc. (Zoology).

**Central Marine Fisheries Research Station,
Mandapam Camp P.O. (S. India)**

Chief Research Officer, Dr. S. Jones, D.Sc., F.N.G.S.,
F.A.Sc., F.R.S.I.

Research Officers, Dr. R. Raghu Prasad, M.Sc.,
Ph.D., F.A.Sc., F.R.S.I.; R. Velappan Nair,
M.Sc., F.R.S.I.; Dr. G. Seshappa, M.Sc., Ph.D.;
L. B. Pradhan, M.Sc.; N. K. Velankar, M.A.;
S. K. Banerji, M.A.; M. Krishna Menon, M.A.,
M.Sc.; T. Thulasilingam, M.Sc.; K. H. Moha-
med, M.Sc.

Administrative Officer, G. G. Suralkar, B.A.

**Central Fisheries Technological Research Station
XXI/20, Kochangadi, Cochin 5.**

Assistant Directors, G. K. Kuriyan, M.Sc. (Grar);
B. Balasubramanyam, B.Sc. (Craft); R.
Venkataraman, M.Sc. (Processing).

Central Potato Research Institute

(MAIN INSTITUTE, SIMLA)

Director, Dr. Pushkarnath, M.Sc., Ph.D., Assoc.
I.A.R.I.

Botanist, M. L. Khanna, B.Sc., Assoc. I.A.R.I.

Cytogeneticist, Dr. D. Srinivasachar, M.Sc.,
Ph.D., Assoc. I.A.R.I.

Virus Pathologist, Vacant.

**CENTRAL POTATO RESEARCH STATION
PATNA**

Agronomist, Vacant.

**POTATO BREEDING & CERTIFICATION
STATION, KUFRI**

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Office of the Port Health Officer, Madras

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Port Health Office, Construction House, Ballard Estate, Bombay 1

Port Health Officer, Dr. N. S. S. Narayanan, M.B.B.S. (Andhra), D.P.H. (Cal.).

SEAMEN'S MEDICAL EXAMINATION ORGANISATION, QULAM MOHAMED BLDG., NICOL ROAD, BALLARD ESTATE, BOMBAY.

Medical Officers, Dr. G. L. Banerjee, M.B. (Cal.), D.P.H. (Cal.); Dr. D. B. Parakh, M.B.B.S. (Bom.), D.P.H. (Lond.), D.T.M. (Liv.), L.M. (Dub.).

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AIRPORT HEALTH OFFICER

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AIRPORT HEALTH ORGANISATION

Palam Airport, Delhi Cantt. 10.

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AIRPORT HEALTH ORGANISATION

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Airport Health Officer, Dr. T. P. Roy.

AIRPORT HEALTH ORGANISATION

Thiruchirappalli.

Airport Health Officer, Dr. B. D. Kewalramani.

PORT HEALTH ORGANISATION

Vizakhapatnam.

Port Health Officer, Vizakhapatnam, Dr. Vepa Ramamurthi, M.B.B.S., B.Sc.

PORT HEALTH ORGANISATION

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Minister in the Ministry of Home Affairs, Balwant Nagosh Datar.

Dy. Minister of Home Affairs, Smt. Violet Alva.

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Special Secretary for Kashmir Affairs, Shankar Prasad, I.C.S.

Special Secretary also Director, A.T.D., V. Viswanathan, I.C.S.

Additional Secretary, Hari Sharma.

Development Adviser for Kashmir and Ex-Officio Additional Secretary, Datar Singh.

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Dy. Financial Adviser, R. S. Bahl.

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Assistant Commissioner for Rajasthan, Jaipur, Fatehbir Bahadur.
Assistant Commissioner for Kerala (Trivandrum), N. P. Damodaran.

Secretariat Training School, 'B' Barracks, Janpath, New Delhi 1.

Director, Gopeshwar Nath.

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BOMBAY BRANCH.

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MADRAS BRANCH.

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BANGALORE BRANCH.

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Director, Sallu Kumar Chatterjee, B.Sc., M.I.A.I.

Central Emergency Relief Training Institute

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Director, Frequency Assignment, S. Tiruvankatachari.

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New Delhi.)

Director of News Services, M. Sivaram.

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TRANSCRIPTION SERVICES

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RESEARCH DEPARTMENT

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New Delhi.)

Research Engineer, T. Rajamanikam.

MAINTENANCE DEPARTMENT (CURZON ROAD)

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THE INDIAN LISTENER, AWAZ, SARANG (CURZON ROAD)

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Assistant Editor, Sarang, J. L. Birmanli.

HIGH POWER TRANSMITTERS, KINGSWAY, DELHI

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MONITORING SERVICE, SIMLA

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Director, Surjeet Singh.
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PLANNING AND DEVELOPMENT UNIT, EASTERN CIRCLE, CALCUTTA

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Asst. Station Director, Bhopal, A. N. Kapoor.

HIGH POWER TRANSMITTERS, MALAD, BOMBAY

Engineer-in-Charge, P. R. Khanna.

Dy. Engineer-in-Charge, D. M. Bhatt.

HIGH POWER TRANSMITTERS, AVADI, MADRAS

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PROJECT INFORMATION UNIT

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Deputy Minister, Jaisukhlal Nathi.

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Asst. Secretary, N. D. Gulhati, I.C.S.

Joint Secretary, P. P. Agarwal, I.C.S.

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Special Commissioner for Canal Waters, D. D.

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Central Board of Irrigation and Power, Curzon

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(Physics), M.Sc. (Physics), B.Sc. (Hons.)
(Engg.), M.Sc. (Engg.), D.I.C., A.C.G.T.

Director (Selection Grade), K. L. Viji, B.Sc. (Hons.),
(Elec. Engg.), D.M.M.O. (Hons.), City & Guilds
of London Exam. (Final) Grade, I.E.E. (Lond.),
M.I.E. (Ind.).

Directors (Ordinary Grade), S. Swayambun,
M.A., Cert. of Prof. in Elec. Tech. A.M.I.E.E.;
R. Rajagopalachari, B.Sc. (Engg.), City &
Guilds of London Exam. (Final).

**CENTRAL WATER AND POWER
COMMISSION (POWER WING) B/19, DELHI
AJMERI GATE EXTENSION, NEW DELHI.**

Director (Ordinary Grade), A. P. Sethupathy,
B.E., Dip. in Engg.

Deputy Director, H. K. Bansal, B.Sc. (Elec. &
Mech.) Engg.

**CENTRAL WATER AND POWER
COMMISSION (POWER WING) GURZON
ROAD BARRACKS, NEW DELHI**

Director (Ordinary Grade), H. R. Varma, D.M.E.C.,
City & Guilds of London Exam. (Final);
A.M.I.E.E.; Assoc. A.I.E.E.

Deputy Directors, K. M. Sankaran, B.E. (Elec.),
A.M.I.E., M.A.I.E.E.; H. R. Kulkarni, B.Sc.
(Hons.), Cert. of Prof. in Elec. Tech., M.S.
(Engg.), Columbia.

**CENTRAL WATER AND POWER
COMMISSION (POWER WING) JOB BAGH,
NEW DELHI.**

Director (Ordinary Grade), V. Venugopalan,
B.A. (Hons.) (Physics), Cert. of Prof. in Elec.
Tech.

Deputy Directors, S. S. Murthy, B.Sc. (Hons.),
Cert. of Prof. in Elec. Tech.; K. R. S. Iyengar,
M.Sc., A.M.I.E.E.

**CENTRAL WATER AND POWER
COMMISSION (POWER WING), PLANNING
CELL, 13, MCNICHOLES ROAD, MADRAS-10.**

Director (Ordinary Grade), M. Aswath, B.Sc. in
Elec. Engg., Mech. Engg., Civil Engg., Post
Graduate study in Aeronautical Engg. at
the Indian Institute of Science (equivalent to
Masters).

Deputy Directors, R. Krishnamurti, B.E. (Mech.)
Cert. of Prof. in Elec. Tech.; K. V. S. Rao,
B.E. (Mech.), Assoc. M.I.E. (Ind.).

**CENTRAL WATER AND POWER
COMMISSION (POWER WING), REGIONAL
LOAD SURVEY OFFICE, 34, MAHIM
HALDAR STREET, P.O. KALIGHAT,
CALCUTTA-26.**

Deputy Director, H. Chatterjee, B.E. (Elec.),
A.M.I.E.

**CENTRAL WATER AND POWER
COMMISSION (POWER WING), REGIONAL
LOAD SURVEY OFFICE, 549/3, P. L.
SHARMA ROAD, MEERUT.**

Deputy Director, S. C. Sarbadhikary, B.E.E.,
A.M.E.E., A.M.I.E. (Ind.).

**CENTRAL WATER AND POWER
COMMISSION (POWER WING), REGIONAL
LOAD SURVEY OFFICE, 2ND FLOOR,
KITAB MAHAL, DADABHAI NAOROJI
ROAD, BOMBAY-1.**

Deputy Director, B. K. Ganguli, B.E. (Elec.).

**CENTRAL WATER AND POWER
COMMISSION (POWER WING), REGIONAL
LOAD SURVEY OFFICE, 31, KUMARA
PARK EAST EXTENSION, BANGALORE-1.**

Deputy Director, K. C. Krishnamurti, B.E.
(Elec.), Assoc. A.I.E.E.

**CENTRAL WATER AND POWER
RESEARCH STATION**

Director, D. V. Joglekar, B.E. (Civil).

INVESTIGATION CIRCLE

Superintending Engineer, A. P. Mathrani, Dip.
(C.E.).

C. I. & DECCAN RIVERS CIRCLE

Superintending Engineer, K. B. Khushlan,
B.E. (Civil) (Bombay).

GANGA BASIN CIRCLE

Superintending Engineer, B. R. Shori, B.Sc.
(B.W.), B.Sc. (Engg. Hons.).

ASSAM INVESTIGATION CIRCLE

Superintending Engineer, Kehar Singh, B.Sc.
(Civil Engg.), A.M.I.C.E.

**Central Water and Power Commission (Power
Wing)**

'Clarendon,' The Mall, Simla 4.

Directors, R. L. Butall, D.M.E.C. (Elec. & Mech.),
B.Sc. (Elec. Engg.), City & Guilds of Lond.
Exam. (Final), A.M.I.E.E.; C. K. V. Rao,
B.E., Cert. of Prof. in Elec. Tech. (I.I.Sc.);
A. Shankaran, B.Sc. B.E. (Elec.) A.M.I.E.E.
(London).

Thermal Specialist Engineer, J. B. Singh, Dip.
in Elec. Mech. Engg. (Mecolagan Engg. College),
Cert. of Comp. under Indian Bidders Act,
A.M.I.E. (India).

Deputy Directors, B. C. Sanyal, B.E.E., A.M.E.E.,
A.M.I.E.; K. Mrityunjayan, B.A., B.E. (Elec.);
D. G. Shinde, B.E. (Elec.); J. G. Thadani,
D.F.H. (London), A.M.I.E.E.; R. K. Sen, B.E.E.,
A.M.E.E., A.M.I.E. (Ind.); B. Chowdhury,
B.E.E., A.M.E.E., A.M.I.E. (Ind.); B. S. R.
Iengar, B.E. (Electrician).

Administrative Officer, M. M. Dhawan, B.A., LL.B.

**CENTRAL WATER AND POWER
COMMISSION (POWER WING) REGIONAL
OFFICE: KITAB MAHAL, 2ND FLOOR,
DR. DADABHOY NAOROJI ROAD,
BOMBAY 1.**

Deputy Director, R. K. Ganguli, B.Sc., B.Sc.
(Engg.), Elec. & Mech., A.M.I.E. (Ind.).

**Damodar Valley Corporation, Anderson House,
Alipore, Calcutta 27.**

Chairman, T. Sivasankar, I.C.S.

Members, (Part-time), Tribeni Prasad Singh,
I.C.S.; A. B. Ganguli, I.C.S.

Secretary, U. K. Ghosal, I.C.S.

Financial Adviser, V. G. Kamath, I.D.A.S.

Chief Electrical Engineer, J. N. Goswami, M.I.E.
(Ind.).

Commercial Engineer, K. Subramaniam, M.E.
(Madras), A.M.I.E. (Ind.).

Controller of Purchase and Stores, S. B. Chakra-
barty, B.Sc. (Elec. & Mech. Engg.), A.M.I.E.
(Ind.).

Chief Accounts Officer, P. K. Sarkar, M.A. (Econ.).
(Retd.).

Director of Personnel, Sohani Lal, M.Sc.
Director of Soil Conservation, Dr. P. Sen, M.Sc.
(Bot.), Ph.D. (Cornell).

Chief Medical Officer, Dr. B. P. Neogy, M.B.,
M.R.C.S. (Engg.), M.R.C.P. (Lond.).

Director of Rehabilitation and Land Acquisition,
D. P. Singh.

Hirakud Control Board

P.O. Hirakud Colony, Dist. Sambalpur, Orissa.

Member Secretary, Padma Bhushan M. S. Thiru-
male Iyengar, I.S.E.

Hirakud Dam Project

P.O. Hirakud Colony, Dist. Sambalpur, Orissa.

Chief Engineer, Padmabhusan M. S. Thirumale
Iyengar.

Superintending Engineer, Electrical Circle,
Padmashri N. Dharmarajan.

Superintending Engineer, Hirakud Dam Circle,
V. Rama Rao.

Chamba Control Board

Bikaner House, Shahjahan Road, New Delhi.

Secretary, P. N. Rao, B.A., B.E., A.M.I.E.

Financial Adviser, N. R. Bonsood, I.A. & A.S.

**The National Projects Construction Corporation
Private Ltd.**

E-2, Jhandewala Estate, Off Jhansi-ki-Rani
Road, New Delhi 1.

Managing Director, R. K. Gupta, I.S.E. (Retired
'Chief Engineer').

Chief Engineer (Planning), A. N. Malhotra
(Retired P.S.E.I.).

Planning Officer (Civil), P. N. Chadha (Retired
P.S.E.I.).

Planning Officer (Mech.), K. K. Bajjal.

*Senior Accounts Officer and Deputy Financial
Adviser*, A. M. Bhalla.

Supdt., Administration, Chander Bhan Sikka.

MINISTRY OF LABOUR AND EMPLOYMENT

Minister, Gulzari Lal Nanda.

Deputy Minister, Abid Ali.

Parliamentary Secretary, L. N. Mhara.

Secretary, P. M. Menon, I.C.S.

Joint Secretaries, K. N. Subramaniam, I.C.S.,

R. L. Mehta, I.C.S.

Labour & Employment Adviser, B. N. Datar.

Deputy Secretaries, Dr. R. K. Bhattacharya, I.A.S.;
Teja Singh Sahni; V. V. Anantakrishnan,
I.A.S.; V. R. Antani.

Asst. Economic Adviser, Dr. S. R. L. Nigam.

Private Secretary to Minister, H. K. Tandon.

Private Secy. to Dy. Minister, A. R. Cyclo.

Private Secretary to Secretary, R. K. Srivastava.

Planning Commission

'M' Block, Rashtrapati Bhavan, New Delhi.

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Deputy Chairman, V. T. Krishnamachari.

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Prof. P. C. Mahalanobis; C. M. Trivedi;
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Secretary, Vishnu Sahay, I.C.S.

Addl. Secretary, Tarlok Singh, I.C.S.

Advisers on Programme Administration, S. V.
Ramamurthy, I.C.S. (Retd.); Nawab Singh,
I.C.S.; M. R. Shivaraman, I.C.S.

Advisers, E. P. Moon; J. J. Anjaria; Balwant
Singh Nag, I.S.E.; M. R. Kothandaraman.

Jt. Secretaries, P. P. Agarwal, I.C.S.; Ameer
Razvi, I.A.S.; Dr. S. R. Sen.

Programme Evaluation Organisation

Planning Commission, New Delhi.

Chairman, Prof. D. Ghosh.

Coal-mines Labour Welfare Fund

Organisation, Jagjivan Nagar P.O., Dhanbad

Coal Mines Welfare Commissioner, Brig. K. Bag
Singh.

Dy. Coal Mines Welfare Commissioner, N. M.
Khan Waral.

Dy. Coal Mines Welfare Commissioner, M.P.,
B. N. Waughray.

Executive Engineer, N. D. Tanuja.

Chief Malaria Officer, S. Roy Choudhury (on
deputation abroad).

Chief Malaria Officer, Dhanbad, R. N. Sen.

Officer-in-Charge, Women's Welfare Section,
Mrs. Anand Prasad.

**Directorate-General of Resettlement and
Employment**

D. G. R. & E. Joint Secretary, S. A. Qadir, I.A.S.
Under-Secretary, T. S. Raghavan.

DIRECTORATE OF EMPLOYMENT EXCHANGES.

Director, H. Davenport.

O. S. D., Dr. S. N. Channa.

Deputy Directors, A. N. K. Nair; J. A. Rizvi;
C. A. Ahuja.

DIRECTORATE OF TRAINING.

Director, P. Rajanath.

Deputy Directors, A. S. Lal; P. V. S. Rao.

Employees' State Insurance Corporation,
2-A/3, Anand Ali Road, New Delhi.

Director-General, Col. V. M. Albuquerque.
Chief Accounts Officer, V. R. Mahadevan.
Actuary, S. P. Jain.
Director of Establishment, Bhasheshwar Nath.
Dy. Insurance Commissioner, N. K. Wadhawan.
Asst. Medical Commissioner, Major D. R. Sharma.
Planning Officer (Medical), Dr. R. S. Chawla.

REGIONAL OFFICE, 64, GANESH CHANDRA AVENUE, CALCUTTA 13.
Regional Director, Dr. J. N. Agrawala.
Dy. Regional Directors, B. R. Madan; J. D. Gakhar

EMPLOYERS' STATE INSURANCE CORPORATION, REGIONAL OFFICE, No. 2, SIR DESIKACHARI ROAD, MYLAPORE, MADRAS 4.
Regional Director, S. Narayan.

REGIONAL OFFICE, E.S.I. CORPORATION, E.S.I.O. BUILDING, COLABA ROAD, BOMBAY 6.
Regional Director, N. Varma.
Dy. Regional Directors, V. Sivaraman; B. D. Chopra; K. L. Githi; K. C. Aggarwal (Ahmedabad).

REGIONAL OFFICE, B-9, PUSA ROAD, NEW DELHI 5.
Deputy Regional Director Incharge, I. C. Sarin.

REGIONAL OFFICE, 7/202, SWARUP NAGAR, KANPUR
Regional Director, V. R. Natesan.
Dy. Regional Director, D. D. Sethi.

REGIONAL OFFICE, 65, RACECOURSE ROAD, INDORE
Deputy Regional Director Incharge, A. N. Bidani.

REGIONAL OFFICE, 402(a)-14, KAVADI-GUDA ROAD, SECUNDERABAD
Deputy Regional Director Incharge, A. N. Ambo.

REGIONAL OFFICE, HATHI BABU KA HAUG, JAIPUR
Dy. Regional Director Incharge, P. C. Sarin.

REGIONAL OFFICE, 160/13, HIDE MARKET, AMRITSAR
Dy. Regional Director Incharge, R. K. Luthra.

REGIONAL OFFICE, MADHAVI MANDIR, SANKARA IYER ROAD, TRICHUR
Dy. Regional Director Incharge, V. Sivaraman.

REGIONAL OFFICE, 13, KUMARA PARK EAST EXTENSION, BANGALORE
Dy. Regional Director Incharge, L. P. Gupta.

REGIONAL OFFICE, NAWAB MANZIL, FRAZER ROAD, PATNA.
Deputy Regional Director Incharge, R. K. Agrawal.

REGIONAL OFFICE, SAIKIA MAHAL, AMBARI, GAUHATI.
Assistant Regional Director Incharge, D. V. Apte.

Labour Appellate Tribunal of India, City Ice Building, 238, Bazargate Street, Fort, Bombay 1
Chairman.—F. Jeejeebhoy.
Member.—Salim M. Merchant.

Labour Bureau
Kennedy House, Simla.
Director, Dr. A. M. Lorenzo.
Sr. Deputy Director, A. Basu.
Dy. Director, B. N. Srivatsava.
Chief Research Officer, L. R. Varma.
Asst. Director, M. A. M. Rao.

Research Officers, A. G. Nagara; A. S. Bharadwaj; D. P. Roy; S. A. N. Murthy; V. Vikraman; K. Srikanth; Bhikhanber Nath; Harbans Lal; A. K. Malhotra; O. K. Seth.

Section Officers, S. S. Johri; T. M. Thomas, R. M. Tulsiani.

Regional Officers (Calcutta), S. Banerji; J. N. Sharma; B. Guha.

Mines

Chief Inspector of Mines in India, Dhanbad, S. S. Grewal.
Add. Chief Inspector of Mines in India, G. S. Jabbi, A.I.S.M. (Min.), F.C.C., M.M.G.I.

Dy. Chief Inspectors of Mines in India, R. G. Deo, B.Sc., A.I.S.M. (Min.), F.C.C., M.M.G.I. (Sitarampur); H. B. Ghosh, B.Sc., A.I.S.M. (Min.), F.C.C., M.M.G.I. (on deputation abroad).

Regional Inspector of Mines (Sp. Duties), G. S. Marwaha, A.I.S.M. (Min.), F.C.C., M.I.M.I.E. (Lond.), M.M.G.I., A.M.I.E., F.G.M.S., Pickering Metallist.

Inspector of Mines (Medical), Vacant.

Inspector of Mines (Mechanical), Vacant.

Inspector of Mines (Welfare), J. Joseph, B.Sc., M.A. (Soc.).

Statistician, M. Ramakrishnan, M.A., M.Sc.

Administrative Officer, H. C. Das, B.A.

ELECTRIC INSPECTORATE

Electric Inspector of Mines, Dhanbad, N. Ghosh, B.Sc. (Engg.), A.M.I.E.

SITARAMPUR INSPECTION REGIONS NOS. 1 AND 2, SITARAMPUR, E.R. (W. BENGAL)

Regional Inspector of Mines, M. P. Roy, A.I.S.M. (Min.), F.C.C.

DHANBAD INSPECTION REGIONS NOS. 1 AND 2, DHANBAD, E.R. (BIHAR)

Regional Inspectors of Mines, S. S. Prasad, A.I.S.M. (Min.), F.C.C.; I. J. Radhwar, A.I.S.M. (Min.), F.C.C., M.M.G.I.

RAMGARH INSPECTION REGION, DHANBAD, E.R. (BIHAR)

Regional Inspector of Mines, B. M. Bhat, B.Sc. (Min.), F.C.C., M.M.G.I.

KODARMA INSPECTION REGION, KODARMA (BIHAR)

Regional Inspector of Mines, M. Subramanyam, B.Sc., M.S. (U.S.A.), F.C.C.

AJMER INSPECTION REGION, AJMER, N.R. (RAJASTHAN)

Regional Inspector of Mines, D. Chatterjee, B.Sc., A.I.S.M. (Min.), F.C.C.

PARASIA INSPECTION REGION, UHHINDWARA (M.P.)

Regional Inspector of Mines, S. D. Prasad, A.I.S.M. (Min.), F.C.C., M.M.G.I., Pickering Metallist.

NELLORE INSPECTION REGION, NELLORE (ANDHRA PRADESH)

Regional Inspectors of Mines, S. J. Achariar, A.I.S.M. (Min.), F.C.C., M.M.G.I.; S. Sankaran, B.Sc. (Min.), F.C.C.

OORGAUM INSPECTION REGION, OORGAUM (MADRAS)

Regional Inspector of Mines, A. C. Bose, A.I.S.M. (Min.), F.C.C.

Coal Mines Provident Fund Commissioner, Dhanbad.

Coal Mines Provident Fund Commissioner, Prakash Chandra, M.A.

Assistant Commissioners, Ravianah Kumar, B.Sc., B.L.; Shiv Dnyuti Prasad, B.Com.

Mica Mines Labour Welfare Fund, Jagjivan-Nagar P. O., Dhanbad.

BIHAR

Welfare Commissioner, Brig. K. Bag Singh.
Assistant Engineer, Vacant.
Executive Officer-cum-Secretary, B.W. Bijapurkar.

Mica Mines Labour Welfare Fund Advisory Committee, Nellore (Andhra Pradesh).

Chairman, V. Srinivaschari, I.A.S.
Secretary, M. Kotiah Chowdary, B.A.

Office of the Central Provident Fund Commissioner, 55-B, D.G.R.E. Bldg., 18, Gardwara Road, New Delhi.

Central Provident Fund Commissioner and Chief Accounts Officer, S. N. Mubayi.

Deputy Provident Fund Commissioner, P. S. Dhotrekar.

Asst. Provident Fund Commissioners, Charanjit Khanna; B. S. Oberoi; V. Prasad; K. S. Sethi.

Office of the Chief Adviser, Factories, Block No. 2-A/3, Anand Ali Road, New Delhi.

Chief Adviser, Factories, N. S. Mankiker.

Deputy Chief Advisers, Factories, S. R. Bhise; Dr. M. N. Gupta.

Asst. Chief Advisers, Factories, B. J. Ramrakhiani; M. U. Rao; H. N. Jagtiani.

Office of the Chief Labour Commissioner, 18, Gardwara Road, New Delhi.

Chief Labour Commissioner (Central), S. P. Mukerjee.

Dy. Chief Labour Commissioner, G. Venkatachalam.

Welfare Adviser, S. B. Kale.

Welfare Adviser, Ranjit Singh.

REGIONAL LABOUR COMMISSIONERS (CENTRAL)

Bombay.—S. C. Gupta; **Calcutta.**—G. S. Ahluwalia; **Kanpur.**—R. N. Renu; **Dhanbad.**—Ranjit Singh; **Madras.**—Harilal Singh; **Jabalpur.**—I. B. Sanyal.

Central Board for Workers' Education
Justice Kotval's Bungalow, Zilla Court Road, Civil Lines, Nagpur.

Secretary, P. S. Kaswaran.

Controller of Emigrant Labour
'Primrose Villa', Post Box 26, Shillong (Assam).

Controller of Emigrant Labour and Conciliation Officer, P. C. Rai.

Training within the Industry Centre
Industrial Assurance Bldg., Churchgate, Bombay 1.

Dy. Chief Adviser, Factories, P. Kashinath Sathe.

Asst. Chief Advisers, Factories, H. Jethanand Bakhru; B. Tuljaram Shahani.

Productivity Centre
Industrial Assurance Bldg., Churchgate, Bombay 1.

Dy. Chief Adviser, Factories (Productivity), T. Michael Jacob.

Asst. Chief Advisers, Factories (Productivity), K. Rama Murthy; D. Nuth Ghosh.

MINISTRY OF LAW

Minister for Law, Asok Kumar Sen.
Dy. Minister, R. M. Hajarnavis.

Department of Legal Affairs
Secretary, K. Y. Bhandarkar.

Joint Secretaries and Legal Advisers, B. N. Lokur; K. Srinivasan, I.C.S.; R. S. Gao; K. Srinivasan (at Branch Secretariat, Bombay).

Solicitor, S. N. Sen.

Legislative Department
Secretary, G. R. Rajagopaul.

Joint Secretary and Draftsman, R. C. S. Sarkar.

Other Officers
Attorney-General of India, M. C. Setalvad.

Solicitor-General of India, O. K. Daphtary.

Additional Solicitor-General of India, H. N. Sanyal.

Solicitor to the Central Government at Calcutta, S. K. Mandal, M.A., B.L.

Solicitor to the Central Government at Bombay, N. B. Vakil.

LAW COMMISSION

Chairman, T. L. Venkatarama Iyer.
Member, P. Satyanarayana Rau.
Joint Secretary, D. Basu.

Election Commission, 1, Anandgob Road, New Delhi 2

Chief Election Commissioner, K. V. K. Sundaram, I.C.S.
Deputy Election Commissioner, P. S. Subramanian.
Secretary, S. O. Roy, I.A.S.

Income-Tax Appellate Tribunal

(HEADQUARTERS, BOMBAY)

Central Govt. Offices Building,
Bombay.

BOMBAY BENCHES, BOMBAY.

President, P. O. Malhotra, A.S.A.A., F.C.A.
Accountant Members, M. N. Sambamurti, F.R.A.A., F.C.A.; B. S. Kasbekar, B.Com., LL.B., A.C.A.
Judicial Members, S. C. Manchanda, M.A. (Cantab.), Bar-at-Law; C. S. Vidyasankaran, B.A., B.L.; Kall Sharan, M.A., LL.B.
Registrar, B. L. Kapur, B.A., LL.B., F.C.S.

ALLAHABAD BENCH

23-A, Thornhill Road, Allahabad.

Accountant Member, A. L. Sahgal, B.A., LL.B. (Hons.), A.C.A.
Judicial Member, P. Srinamulu, B.Sc., B.L.

DELHI BENCH

Shahjehan Road Hutments, Block 2, Annexe,
New Delhi.

Accountant Member, R. K. Das, B.Sc. (Hons.), A.M.A.A.
Judicial Member, N. D. Karkhanis, B.A. (Hons.), B.Sc., LL.B.

MADRAS BENCH

26, Sterling Road, Chetput P.O., Madras.
Accountant Members, V. P. Choudary, B.A., B.Com. (London), A.M.A.A.; K. Madagopachari, B.A., F.C.A.
Judicial Members, K. S. Sankararaman, B.A., M.L.; S. K. Aiyer, B.A., B.L.

CALCUTTA BENCH

20/1, Gurusaday Road, Calcutta.

Accountant Member, B. N. Mukherjee, B.Com., F.C.A.
Judicial Member, T. P. Mukerji, M.A., LL.B.

HYDERABAD BENCH

4-1-825, Nizamshahi Road, Hyderabad-Dn.

Accountant Member, G. L. Pophale, B.A. (Bom.), M.A. (Cantab.), Bar-at-Law.
Judicial Member, V. R. Srinivasan, B.A., B.L.

MINISTRY OF RAILWAYS

Minister, Jagjivan Ram.
Deputy Ministers, Shah Nawaz Khan; S. V. Ramaswamy.

**Railway Board*
New Delhi**

Chairman, K. B. Mathur.
Financial Commissioner, J. Dayal.
Member (Engineering), Karnail Singh.
Member (Staff), Vacant.
Member (Transportation), Vacant.
Additional Member (Finance), Ajit Singh.
Additional Member (Commercial), S. R. Kalyanaraman.
Additional Member (Works), D. B. Kohli.
Additional Member (Mechanical), E. W. Isaacs.
Additional Member (Staff), Y. P. Kulkarni.
Secretary, Railway Board, R. E. De Sa.
Director, Mechanical Engineering, R. Krishnaswami.
Director, Mechanical Engg. (Production), S. Chakravarti.
Director, Civil Engineering, M. N. Bery.
Director, Finance, C. T. Venugopal.
Director, Establishment, M. A. Qadeer.

Director, Traffic (T), Ratan Lal.
Director, Railway Equipment, H. D. Singh.
Director, Electrical Engineering, L. N. Mathur.
Director, Planning, G. S. Moorthy.
Director, Rail Movement, Calcutta, Anand Mohan.
Director, Railway Stores, G. P. Bhalla.
Director, Railway Stores Suspense, H. D. Singh.
Director, Vigilance & I.G.R.P.F., S. Parthasarathy.
Director, Signalling & Tele-Communication, L. C. Mohindra.
Director, Efficiency Bureau, G. Dickshitt.
Director, Statistics and Economic Adviser, S. K. Guha.
Director, Medical and Health, F. S. Khambatta.
Jt. Secretary, M. Srinivasan.
Joint Director, Finance (F), P. K. R. Menon.
Joint Director, Finance (Production), B. Bhattacharyya.
Joint Director, Traffic (T), K. G. S. Iyer.
Joint Director, Traffic (F), K. N. Chennabasappa.
Joint Director, Civil Engineering, N. K. Mehra.
Joint Director, Mech. Engg. (Workshops), N. N. Tandon.
Joint Director, Establishment, V. P. Sawhney.
Joint Director, Mech. Engg. (Running), B. S. Krishnan.
Joint Director, Mech. Engg. (Production), S. S. Jagota.
Joint Director (Works), Vacant.
Joint Director, Finance (Establishment), K. T. Mirchandani.
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Railway Inspectorate, Simla—3

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I. S. Ahuja.

Controller, Radio Constr. and Dev. Units, New

Delhi, A. R. Ravi Verma.

Principal, Civil Aviation Training Centre, Allah-

abad, Santokh Singh.

CONTROLLER OF AERONAUTICAL INSPECTION, BOMBAY AIRPORT, SANTACRUZ, BOMBAY 29

Controller, J. Sen.

Senior Aircraft Inspector, M. D. Nalk.

CONTROLLER OF COMMUNICATION, BOMBAY REGION, JUHU AIRPORT, BOMBAY 28

Controller of Communication, Bombay Region, A. E. Ramanathan.

Controller of Aerodromes, Bombay Region, A. D. Mehta.

Controller of Aeronautical Inspection, Bombay Region, J. Sen.

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Instrument Section and Workshop, Meteorological Office, Poona.

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Director of Planning & Establishment, H. K. Rao.
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Director of Accounts, P. Srinivasan.

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Chief Engineer (Pig.), R. C. Vainh.
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Director, Research, C. P. Vasudevan.
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Controller of Telegraph Traffic, S. R. Banerjee.
Director, Wireless, B. S. Henegal.
Director, Telephone Traffic, D. F. D. Joshi.
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Postmaster-General, West Bengal Circle, P. B. Lahiri.

Postmaster-General, Bihar Circle, S. C. Sen Gupta.
Postmaster-General, Madras Circle, S. S. Ananthakrishnan.
Postmaster-General, Punjab Circle, S. B. Bhattacharya.
Postmaster-General, U.P. Circle, Shanti Swarup.
Postmaster-General, Bombay Circle, S. N. Das Gupta.

Director, Posts & Telegraphs, Assam Circle, I. K. Gupta.
Director, Posts & Telegraphs, Orissa Circle, K. L. Bhole.
Director, Posts & Telegraphs, Rajasthan Circle, G. N. Khebblo.
Director, Posts & Telegraphs, Hyderabad Circle, R. R. Rau.
Director, Posts & Telegraphs, Andhra Circle, A. Swaminathan.
Director, Postal Services, Delhi Circle, I. J. Burma.

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General Manager, Calcutta Telephone District, and General Manager, Calcutta Automation, Uma Shankar.
General Manager, Bombay Telephone District, N. K. Sen Gupta.
Addl. Chief Engineer, T. & D. Circle, C. A. Cornelius.
District Manager, Telephones, Madras, Ramakant.
District Manager, Telephones, Delhi, M. De Lima.

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Madras Circle, M. B. Sarangapani, P. A. Sankaranarayanan, S. Ramachandra Ayyar, K. Gopalakrishnan.
Bombay Circle, T. D. Subramaniam, S. B. Velankar, K. R. D. Iyengar, K. V. Srinivasan.
Bihar Circle, G. S. Bhatia; M. S. Muthamma.

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Deputy Chief Controller of Telegraph Stores, P. A. M. Natri.
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Divisional Engineer, Telegraphs, Control, P. Sen Gupta.
Divisional Engineer, Telegraphs, Disposals, B. B. Bhattacharyya.

CONTROLLER OF TELEGRAPH STORES, SEWEL, BOMBAY 15

Controller of Telegraph Stores, Bombay, S. Rajan.
Asstt. Engineer, P. S. Menon.

CONTROLLER OF TELEGRAPH STORES, MADRAS 8

Controller of Telegraph Stores, Madras, N. Nethuraman.
Assistant Engineer, Stores, Madras, K. R. Nair, M.A.

CONTROLLER OF TELEGRAPH STORES, ALIPORE, CALCUTTA 27

Controller of Telegraph Stores, Alipore, B. B. Malhotra.
Assistant Controller of Telegraph Stores, Alipore, R. Banerjee.
Administrative Officer, A. R. Vedachallam.
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Assistant Engineer (Wires & Cables), S. K. Kar.
Assistant Engineer (Stationery & Despatch), S. R. Chari.
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Dy. General Manager, S. Krishnan.

OFFICE OF THE DIVISIONAL ENGINEER, WIRELESS, P. & T. 10, CIRCUS AVENUE, CALCUTTA 17.

Divisional Engineer, Wireless, S. G. Watwe.

THE SENIOR ELECTRICAL ENGINEER, TECHNICAL AND DEVELOPMENT CIRCLE TESTING SECTION, CALCUTTA-57

At Calcutta
Senior Electrical Engineer, A. K. Banerji, B.E., A.M.I.E. (Ind.).
Jr. Electrical Engineer, V. Annaswamy, B.Sc. (Hons.).
Senior Electrical Engineer's Cable Test Room at Hindustan Cables Ltd., Asstt. Engineer, T. V. Kalyanasundaram, B.Sc.

TELEGRAPH WORKSHOPS, ALIPORE, CALCUTTA

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OFFICE OF THE MANAGER, TELEGRAPH WORKSHOPS, JABALPUR

Manager, S. K. Chatterjee.

TELEPHONES, BOMBAY DISTRICT TELEPHONE BHAVAN, COLABA, BOMBAY-5.

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Director of Telegraphs (Genl.), S. D. Mital.
Directors of Telegraphs (Planning), M. S. Balakrishna Rao & B. Rajagopalakrishnan.
Vigilance and O. & M. Officer, S. Rama Iyer.
Divisional Engineers, Telephones, W. E. Misquitta, B. A. Lakshminarayana, A. S. Nivasubramanian, N. S. V. Subramaniam, B. C. Sham Maitya (Ahmedabad).

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Directors of Telegraphs (Planning), M. S. Balakrishna Rao, B. Rajagopalakrishnan.
Divisional Engineers, Telephones, N. D. Kirpalani, V. Kappa Rao, A. Subramaniam, S. N. Banerjee, S. K. Dhondarphale, V. N. Warhadkar, I. B. Mahajan, S. K. Guha, T. B. Shelat.

BOMBAY TELEPHONE WORKSHOPS Gell Street, Jacob Circle, Bombay 1.

Manager, G. N. Vatal.
Tools Engineer, N. C. Ray.
Production Engineer, J. B. Taylor.

TELEPHONES, CALCUTTA DISTRICT 'TELEPHONE BHAVAN' 34, DALHOUSIE SQUARE

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Dy. General Managers, B. K. Anantharaman (A); V. P. Kanetkar (D).
Director of Telegraphs, P. K. Verghese.

THE DISTRICT MANAGER, TELEPHONES, MADRAS DISTRICT, MADRAS-1

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Divisional Engineer, E. V. Philip.
Vigilance & O. M. Officer, G. Subramaniam, B.Sc. (Hons.), Member, A.M.I.E.
Administrative Officer, G. N. Subramaniam, B.A.
Contract Officer, K. Pattabhiraman.

Overseas Communications Service Radio House, Apollo Bunder, Bombay 1.

Director-General, P. J. Rodgers, Dip. Faraday House (Lond.), A.M.I.E.E. (London).
Chief Engineer, H. N. Mukerjee, A.M.I.E.E., A.M.I.T.E. (India).
Dy. Director-General (Tfc.), S. N. Kalra, M.I.T.E. (India).
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Engineer-in-Charge, M. S. Ghare, B.Sc. (Bom.), B.Sc. Tech. (Mech.), A.M.C.T., A.M.I.T.E.
Dy. Director (Tfc.), G. D. Gokarn, B.Sc. (Bom.), Sr. M.I.E.E., A.M.I.T.E. (India).

CENTRAL TRAFFIC OFFICE, O.C.S., BOMBAY

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Deputy Engineer-in-Charge, C. B. Misquitta, Dip. L.E.E.
Sr. Traffic Manager, P. E. Kouwen.

BEAM WIRELESS STATION

Dight (Kirkos), Poona-8.
Director, V. B. Sujana, Dip. Faraday House (Lond.), A.M.I.E.E. (Lond.).
Engineer-in-Charge, M. J. Gandhi, M.Sc., Dip. I.I.Sc.

BEAM WIRELESS STATION, DHOND.

Engineer-in-Charge, P. M. Kakodkar, Dip. Faraday House (Lond.).

DELHI STATION (ADMINISTRATIVE OFFICE).

A-BARRACKS, JANPATH, NEW DELHI
Director, Dr. K. M. Balchandani, B.E. (Mech.), A.M.I.E. (Ind.), A.M.I.T.E. (Ind.).
Engineer-in-Charge, B. S. Dutt, L.E.E.

MADRAS STATION (ADMINISTRATIVE OFFICE, 39, MUKER NALLAMUTHU STREET, MADRAS)

Engineer-in-Charge, V. P. Oldfield, Member, A.I.E.E., Dip. Elect. Engg. (U.S.A.).

CALCUTTA STATION (ADMINISTRATIVE OFFICE, NARAYAN BLDG., 4TH FLOOR, BRABOURNE ROAD, CALCUTTA)

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Engineer-in-Charge, G. Sehadri, B.Sc., Dip. I.I.Sc.

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Secretary, R. L. Gupta, I.C.S.
Jt. Secretary, Nakul Sen, I.C.S.
Jt. Secretary & Director-General of Shipping, Dr. Nagendra Singh, I.C.S.
Development Adviser & Ex-Officio Joint Secretary, H. P. Mathurani, I.S.E.
D.G., Tourist Department and Ex-Officio Joint Secretary, S. N. Chib.
Dy. D. G. of Tourist Dept., G. R. Kadappa.
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'Commerce House', Ballard Estate, Bombay.
Jt. Secy to the Govt. of India & Director-General of Shipping, Dr. Nagendra Singh, I.C.S.
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Dy. Chief Surveyor with the Government of India, K. Parthasarathy.
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Lecturer in Engineering, R. D. Rajc.
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Principal Officer, B. K. Gupta.
Madras—Old High Court Bldgs., Madras.

Principal Officer, S. K. Kumarha.
Vishakapatnam—Engineer & Ship Surveyor, R. C. Mohan.
Cochin—Engineer & Ship Surveyor, T. S. Rajan.

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Dev. Commissioner, Kandla, P. N. Saxena.
Administrative Officer, Vishakapatnam, C. R. Reddy.

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Dy. Shipping Master, J. G. Saggi.
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Shipping Master, T. V. Rajagopalan.
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SEAMEN'S EMPLOYMENT OFFICE, CALCUTTA

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Calcutta—Marine House, Hastings, Calcutta.
Principal Seamen's Welfare Officer, Trilok Singh, Madras.
Seamen's Welfare Officer, D. Ghosh.

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Regional Office, 155, Beach Road, Tuticorin.
Regional Office, V. Ranganathan.
Regional Office, 53/10, Hazwad Road, Masulipatam.
Regional Office, R. Srinivasan.
Regional Office, Jamnagar, S. P. Oza.

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Administrative Officer, M. L. Chopra.
Executive Officer, Raghu Nath.
Executive Officer (Adm.), Mohinder Singh.
Accounts Officer, C. V. S. Murty.
Engineer, Department of Lighthouses & Lightships, Capt. B. Y. Wad, I.N.
Engineer, Department of Lighthouses & Lightships, and Director of Lighthouses & Lightships, Madras, M. D. Narasimha chari.
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Marine Officer, M. M. Kaul.
Executive Engineer (Civil), N. R. Gopalaswami.

Director of Lighthouses & Lightships, Saurashtra Kutch, Jamnagar, P. K. Dave.

Director of Lighthouses & Lightships, Calcutta, K. R. Bose.
Director of Lighthouses & Lightships, Bombay, T. G. Seth, I.R.S.

Deputy Director of Lighthouses & Lightships, Bombay, Capt. S. J. Israel.
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Resident Engineer, Calcutta, C. V. Chaulbal.
Resident Engineer, Bombay, D. B. Desai.
Resident Engineer, Jamnagar, R. Swaminathan.
Chief Engineer, 'M. S. Pradeep', J. D. Merchant.
Chief Officer, 'M. S. Pradeep', M. A. Adam.
Engineer Supervisor, Lighthouse Workshop, Madras, C. D. Hallburn.

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Deputy Minister, A. K. Chanda.
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Housing Commissioner, N. P. Dubé.
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Private Secretary to Secretary, K. R. S. Acharya.

Central Public Works Department (Central Office, New Delhi).

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Director of Administration, V. Balasubramaniam, I.A.S.
Deputy Directors of Administration, O. P. Talwar; M. S. Bawa; N. R. Verma.
Standing Counsel, G. T. Gajaria.
Additional Chief Engineers, B. K. Guha, M. L. Nanda, K. M. Bhutta.
Superintending Engineer (I), R. N. Mookerjee.
Additional Chief Engineer, Union Territories, D. N. Endlaw.
Superintending Engineer, Arbitration, O. P. Mittal.
Superintending Engineer (Work Charged Establishment), N. N. Iyengar.

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Central P.W.D., New Delhi.

Dy. Director of Horticulture, Teja Singh.

Department of Explosives, Old High Court Buildings, Nagpur.

Chief Inspector of Explosives, Nagpur, B. N. Pal, M.Sc.
Deputy Chief Inspectors of Explosives, Nagpur, T. K. Lahiri, M.Sc., A.R.I.O.; S. N. Lahiri, M.Sc.
Inspector of Explosives, West Circle, Bombay, K. Sankaran, M.Sc.
Inspector of Explosives, East Circle, Calcutta, S. C. Roy, M.Sc.
Inspector of Explosives, North Circle, Agra, B. N. De, M.Sc.
Inspector of Explosives, South Circle, Madras, M. P. Mukerji, M.Sc.
Inspector of Explosives, Sirakasi, I. N. Murthy, B.Sc. (Tech.).
Inspector of Explosives, Central Circle, Nagpur, J. K. John, M.Sc. (Tech.).
Inspector of Explosives, East Circle, Calcutta, V. A. Chandrasekharan, M.Sc.
Inspector of Explosives, Chemical Laboratory, Calcutta, C. Ramaswamy, B.Sc.
Inspector of Explosives, Nagpur, S. N. Gupta, B.Sc.
Inspector of Explosives, Nagpur, K. S. Subramaniam, B.Sc.

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PRIVATE LTD.**

Jangpura, New Delhi.

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Secretary/Accounts Officer, Y. K. Swamy.
Engineer-in-Charge, Prestressed Concrete Dept.,
 C. M. Patel.
Engineer-in-Charge, Wood Work Dept., H. S.
 Bhupla.
Senior Design Engineer, S. R. Chokhavatia.

**Directorate General of Supplies and
Disposals**

(Headquarters Office)

Shahjahan Road, New Delhi.

Director-General of Supplies & Disposals, V. N.
 Rajan, I.C.S.

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Director (Administration), T. Gonsalves.
Deputy Directors, G. L. Gupta; S. Thyagarajan.
Vigilance & O. M. Officer, Jagdish Chandra.

**CO-ORDINATION & STATISTICS
DIRECTORATE**

Director, Co-ordination & Statistics, V. V.
 Chandra-ekharan.
Dy. Director (Import & Shipping), B. Sengupta.
Dy. Directors (Gen.), P. T. Lalwani; A. R. Iyer.
Dy. Director (Registration), Ratan Singh.
Dy. Director (Statistics), P. B. Brahma.
O.S.D. (Small Scale Industries), P. C. Gupta.

SUPPLIES WING

Addl. Director-General (Supplies & Disposals),
 Qurban Singh.
Dy. Director-General (Supplies), S. T. Thadani.
Dy. Director-General (Progress), J. S. Mathur.

RAILWAY STORES DIRECTORATE

Director of Supplies, K. Krishna.
Deputy Directors (Supplies), P. J. Chopra;
 S. C. Agarwal; V. Subramaniam.

ENGINEERING STORES DIRECTORATE

Director of Supplies, I. N. Khanna.
Deputy Directors (Supplies), S. P. Chatterjee;
 K. J. Shenoy; R. K. Singhal; Lt.-Col. K. J.
 M. Jodha.

**MISCELLANEOUS & CHEMICAL STORES
DIRECTORATE**

Director of Supplies, S. C. Murgal.
Deputy Directors (Supplies), P. B. Sarkar;
 Nathmal Marwari.

**TEXTILE, LEATHER AND VEHICLES
STORES DIRECTORATE**

Director of Supplies, Manmohan Singh.
Deputy Director (Supplies), A. C. Dima; Dr. Om
 Prakash.

WORKS PROGRAMME DIRECTORATE

Special Director of Supplies (Works Programme),
 K. N. Rao.
Dy. Directors (Supplies), F. W. Stevens; K. S.
 Rajagopalan.

PLANNING WING

Director (Planning), P. N. Batra.
Dy. Directors, G. P. Kapur, I. S. Ahuja (Plan-
 ning), B. R. R. Iyengar (S.R.C.), C. A. J. F.
 Lobo (Vocub), K. L. Bhula (Offc.).

PROGRESS WING

Director (Progress), J. L. Chopra.
Deputy Directors, B. C. Sharma (Progress).

Disposals Wing —

FINALIZATION DIRECTORATE

Control Officer, J. Maneksha.
O.S.D. (Accounts), P. S. Sundaram.
Deputy Director, S. P. Kaur.

DISPOSALS WING

Director of Supplies, A. R. R. Deshpande.
Dy. Director, C. L. Katial.

**DIRECTORATE OF SUPPLIES AND
DISPOSALS**

6, Esplanade East, Calcutta

Director of Supplies and Disposals, H. V. Karve.
Deputy Directors of Supplies, I. S. Sud; B. N.
 Bhwas.
Deputy Director of Disposals, K. K. Nag.
Deputy Director (Progress), H. H. Ahuja.

**DIRECTORATE OF SUPPLIES AND
DISPOSALS**Sapt Building, Graham Road, Ballard Estate,
Bombay.

Director of Supplies & Disposals, S. S. Venkata-
 Krishnan.
Deputy Director of Supplies, K. H. Cama.

**DIRECTORATE OF SUPPLIES (TEXTILES),
FORT HOUSE, 221, DADABHOY NAOROJI
ROAD, BOMBAY**

Director of Supplies (Textiles), Dr. S. K. Mitra.
Deputy Directors of Supplies, S. S. Puri; S. B.
 Sudame.

**DIRECTORATE OF SUPPLIES AND
DISPOSALS, INDIAN MUTUAL BLDGS.,
10, MOUNT ROAD, MADRAS.***Director of Supplies and Disposals*, A. D. Rao.**GOVERNMENT TEST HOUSE, 11/1, JUDGES'
COURT ROAD, ALIPORE, CALCUTTA**

Director, S. N. Mukerji.
Deputy Directors (Chem./Phys.), K. K. Chatterji;
 K. D. Bhattacharya.
Dy. Director (X-Ray), N. C. Bagchi.

INSPECTION WING(Headquarters Office)
Shahjahan Road, New Delhi

Dy. Director-General (Inspection), R. N. Sarma.
Directors of Inspection, S. N. Das Gupta, P. R.
 Parker.
Dy. Director of Inspection, G. K. Ahuja.

**NORTH WEST INDIA INSPECTION CIRCLE
Shahjahan Road, New Delhi.***Deputy Director (Inspection)*, Randbir Singh.**CALCUTTA INSPECTION CIRCLE**

1, Ganesh Chandra Avenue, Calcutta 13.
Director of Inspection, S. S. Roy.
Special Director (Rolling Stock), R. N. Mookerjee.
Dy. Directors of Inspection, A. K. Basal, C. D.
 Dandekar; M. L. Mukherjee; N. Gupta;
 B. N. Majumdar; Syed Jan; M. M. Bose.

BOMBAY INSPECTION CIRCLE

New Marine Lines, Bombay.
Director of Inspection, S. S. De.
Dy. Directors of Inspection, H. S. Grewal, Harnam
 Singh, U. S. Savakoor.

MADRAS INSPECTION CIRCLE

Indian Mutual Bldg., 10, Mount Road, Madras.
Dy. Director of Inspection, I. L. Patel.

**METALLURGICAL INSPECTORATE
TATANAGAR**

Director of Inspection, S. C. Lahiry.
Deputy Directors of Inspection, S. K. Lahiri,
 G. T. Athavale, B. R. Nagar, T. K. Warrier.

**BURNPUR METALLURGICAL
INSPECTORATE**

Deputy Director of Inspection, E. K. N. Nam-
 biar.

KANPUR INSPECTION CIRCLE

4, 286, Nawabganj, Kanpur.
Deputy Director of Inspection, G. Kuppaswamy.

Printing and Stationery Department, New Delhi.

Chief Controller of Printing and Stationery, C. A.
 Subrahmanyam.

Controller of Printing, A. C. Sen.

Deputy Controller (Administration), V. S. Vaid.
Deputy Controller (Planning), A. C. Das Gupta.

**Government of India Forms Press, Civil Lines,
Aligarh.**

Manager, D. P. Mukerji.
Assistant Manager (Tech.), R. S. Nilker.
Assistant Manager (Adm.), R. G. Mathur.

**Government of India Photo Litho Press,
Minto Road, New Delhi.**

Manager, C. Bhwas.
Chief Process Officer, A. K. Gavaskar.
Chief Production Officer, N. C. Sen.

**Government of India Press, Rashtrapati
Bhavan, New Delhi.***Superintendent*, S. S. Malhotra.**Government of India Forms Store, 166, Dharam-
tala Street, Calcutta.**

Manager of the Forms Press and Forms Store,
 B. C. Sen Gupta.

**Government of India Forms Press, 1, Temple
Street, Calcutta.***Asst. Managers*, B. B. Ghosh; L. E. Thomas.**Government of India Press, 8, Hastings Street,
Calcutta 1.***Manager*, B. K. Roy.**Government of India Press, New Delhi.***General Manager*, M. K. Majumdar.**Government of India Press, Simla.***Manager*, Chas. E. James.**Government of India Press
Nalokheri.***Asst. Manager (Technical)*, S. Sarthy.**Government of India Press
Faridabad.***Manager*, A. S. Krishnamurthi.**Government of India Press, Nasik.***Manager*, R. Ramaswamy.**Government of India
Stationery Office, 3, Church Lane, Calcutta.**

Controller of Stationery, P. Banerjen.
Dy. Controllers of Stationery, Major J. K. Lahiri,
 M. N. Roy (Adm. & O. & M.).
Dy. Controller, Inspection, Dr. P. N. Sahai.

**SUPREME COURT OF INDIA, HARDINGE
AVENUE, NEW DELHI**

Chief Justice of India, The Hon'ble Shri Sudhi
 Ranjan Das.

Judges, The Hon'ble Mr. Justice N. H. Bhagwati;
 The Hon'ble Mr. Justice B. P. Sinha;
 The Hon'ble Mr. Justice Syed Jafer Imam;
 The Hon'ble Mr. Justice S. K. Das;
 The Hon'ble Mr. Justice J. L. Kapur;
 The Hon'ble Mr. Justice P. B. Gajendragadkar
 The Hon'ble Justice Amal Kumar Sarkar;
 The Hon'ble Mr. Justice K. Subba Rao; The
 Hon'ble Mr. Justice K. N. Wanchoo; The
 Hon'ble Mr. Justice M. Hidayatulla.

Registrar, Arindam Dutt.

Dy. Registrars, S. N. Sharma, Guru Dutta.
Asst. Registrars, Kedar Nath Gupta; C. M.
 Rao; M. P. Saxena; V. Krishnan; S. K. Gupta.
Officer on Special Duty, K. Krishnaswami Aiyar.
Editor, Supreme Court Reports, K. B. Bagchi.

UNION PUBLIC SERVICE COMMISSION

**Dholpur House, P. Box 186, Shahjahan Road,
 New Delhi 4.**

Chairman, V. S. Helmadli, I.C.S.
Members, J. Sivashannugam Pillai; C. V.
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 S. H. Zaheer, I.C.S.; Dr. A. T. Sen.
Secretary, C. Ganess Aiyar.

INDIAN POLITICAL REPRESENTATIVES ABROAD

Country or Town	Name	Designation	Address	Station
EMBASSIES				
AFGHANISTAN ..	S. N. Haksar	Ambassador	Embassy of India, Shahr-e-Arad, Kabul.	Kabul.
ARGENTINA ..	P. A. Menon	Ambassador	Embassy of India, Lavalle 462 (5th floor), Buenos Aires.	Buenos Aires.
AUSTRIA ..	Arthur S. Lall	Ambassador	Embassy of India, 17, Geyergasse (Entrance 2, Spitzgasse), Vienna.	Vienna.
BELGIUM ..	M. A. Rauf	Ambassador (Concurrently Minister to Luxembourg).	Embassy of India, 585, Avenue Louise, Square de Bais, Brussels.	Brussels.
BOLIVIA ..	R. S. Mani	Ambassador (Concurrently Ambassador in Chile. Resident in Chile).	—	Santiago de Chile.
BRAZIL ..	M. K. Kirpalani ..	Ambassador	Embassy of India, Rua Barao de Flamengo 22, Apt. 801-802, Rio de Janeiro.	Rio de Janeiro.
BURMA ..	Lalji Mehrotra ..	Ambassador	Embassy of India, Oriental Bldgs., 545-47, Merchant Street, Rangoon.	Rangoon.
CAMBODIA ..	V. M. M. Nair	Ambassador	Embassy of India.	Pnom Penh.
CHILE ..	R. S. Mani	Ambassador (Concurrently Ambassador to Bolivia).	Embassy of India.	Santiago de Chile.
CHINA ..	G. Parthasarathy ..	Ambassador (Concurrently accredited to Mongolia).	Embassy of India, 32, Tung Chiao Min Hsiang, Peking.	Peking.
CZECHOSLOVAKIA ..	B. K. Acharya	Ambassador	Embassy of India, 22, Thunovska, Prague III.	Prague.
DENMARK ..	Kewal Singh	Ambassador (Also Ambassador to Sweden and Minister in Finland. Resident in Stockholm)	—	Stockholm.
ETHIOPIA ..	Niranjan Singh Gill ..	Ambassador	P.O. 528, Addis Ababa.	Addis Ababa.
FRANCE ..	N. Raghavan	Ambassador	Embassy of India, 15, Rue Alfred Dehodeneq, Paris.	Paris.
GERMANY .. (Federal Republic).	B. F. H. B. Tyabji ..	Ambassador	Embassy of India, 262, Koblenzstrasse, Bonn.	Bonn.
GREECE ..	Ali Yavar Jung	Ambassador (Also Ambassador to Yugoslavia).	Indian Embassy.	Belgrade.
INDONESIA ..	J. N. Khosla	Ambassador	Embassy of India, P. Box No. 118, 44 Kebon Serih, Djakarta.	Djakarta.
IRAN ..	T. N. Kaul	Ambassador	Embassy of India, Avenue Shah Raza, Tehran.	Tehran.
IRAQ ..	I. S. Chopra	Ambassador (Concurrently accredited to Jordan as Minister).	Al Tahari Street, Waziriah, Baghdad.	Baghdad.
IRELAND ..	Shrimati Vijayalakshmi Pandit ..	Ambassador (Also High Commissioner in U.K. Ambassador to Spain. Resident in London).	60, FitzWilliam Square, Dublin.	London.
ITALY ..	Khub Chand	Ambassador (Also Minister to Albania).	Embassy of India, via Francesco Denso, 36, Rome.	Rome.
JAPAN ..	C. P. N. Singh	Ambassador	Embassy of India (Naigai Building), 5th Floor, No. 18-2, Chome Marunouchi, Chiyodaku, Tokyo.	Tokyo.
LAOS ..	P. Ratnam	Ambassador	Indian Embassy.	Vientiane.
MEXICO ..	M. C. Chagla	Ambassador (Also Ambassador in U.S.A. Resident at Washington. First Secretary acts as U.D.A. during absence of Ambassador from Mexico).	Embassy of India, Calle De Alenas, No. 40, 5th Piso, Mexico.	Mexico City.
MONGOLIA ..	T. G. Menon G. Parthasarathy ..	First Secretary. Ambassador (Resident in Peking).	Indian Embassy.	Peking.
MOROCCO ..	R. Goburdhan	Ambassador	30, Avenue Allal Ben Abdallah, Rabat.	Rabat.
NEPAL ..	Bhagwan Sahay	Ambassador	Embassy of India, Kathmandu.	Kathmandu.
NETHERLANDS ..	G. L. Puri	Charge d'Affaires	Embassy of India, Buitenvoortweg 2, The Hague.	The Hague.
NORWAY ..	Maharao Radan Singhji of Kutch ..	Ambassador	Embassy of India.	Oslo.
PHILIPPINES ..	S. N. Maitra	Ambassador	Embassy of India, 914, Nebraska, Manila.	Manila.
POLAND ..	S. K. Roy	Counsellor	Embassy of India.	Warsaw.
RUMANIA ..	B. K. Acharya	Ambassador	—	Bucharest.
SAUDI ARABIA ..	M. K. Kidwai	Ambassador	Embassy of India.	Jedda.
SPAIN ..	Shrimati Vijayalakshmi Pandit ..	Ambassador (Concurrently accredited to U.K. as High Commissioner).	—	London.
SUDAN ..	R. G. Rajwade	Ambassador	Ismail Pasha Avenue, P. Box No. 707, Khartoum.	Khartoum.
SWEDEN ..	Kewal Singh	Ambassador (Concurrently Ambassador to Denmark and Minister to Finland).	Embassy of India, Strandvagen 47 IV, Stockholm.	Stockholm.

† Ambassador to Russia is concurrently accredited to Poland as Ambassador (Residence: Moscow).

Country or Town	Name	Designation	Address	Station
SWITZERLAND ..	M. K. Vellodi	Ambassador (Concurrently accredited as Minister to the Vatican).	Embassy of India, 59, Thurtsasse, Berne.	Berne.
THAILAND	A. M. Sahay	Ambassador	Embassy of India, 37, Phayathai Road, Bangkok.	Bangkok.
TUNISIA	R. Goburdhan	Ambassador (Resident in Rabat, Morocco).	30, Avenue Allal Ben Abdallah, Rabat.	Rabat.
TURKEY	Jai Kumar Atal	Ambassador	Embassy of India, No. 44, Kizilirmak Sokak, Kocetepe, Ankara.	Ankara.
UNITED ARAB REPUBLIC.	V. H. Coelho R. K. Nehru	Counsellor. Ambassador (Concurrently Minister to Libya and Lebanon).	Embassy of India, 5, Sharia Mahad, El Swisari, Zamalak, P.O. Box 714, Cairo.	Cairo.
UNITED STATES OF AMERICA.	M. C. Chagla	Ambassador (Concurrently accredited to Mexico and also Minister to Cuba).	Embassy of India, 2107 Massachusetts Avenue, N.W. Washington 8, D.C.	Washington.
U.S.S.R.	K. P. S. Menon	Ambassador (Concurrently accredited to Hungary as Minister and to Poland as Ambassador).	Embassy of India, Nos. 6 and 8, Ulitsa Obukha, Moscow.	Moscow.
UGOSLAVIA ..	All Yavar Jung	Ambassador (Concurrently accredited as Ambassador to Greece and Minister to Bulgaria).	Embassy of India, Proleter Skeh Brigade 9, Belgrade.	Belgrade.
HIGH COMMISSIONS				
AUSTRALIA ..	Vacant	High Commissioner (Concurrently accredited to New Zealand).	Civic Centre, Canberra.	Canberra.
CANADA	C. S. Venkatachar	High Commissioner	200, McLaren Street, Ottawa, Ontario.	Ottawa.
CEYLON	Y. D. Gundevia	High Commissioner	67, Tarret Road, P. Box No. 882, Colpetty, Colombo.	Colombo.
GHANA	B. K. Kapur	High Commissioner (Also Commissioner in Nigeria).	P. Box 3040, Accra.	Accra.
MALAYA	S. K. Banerji	High Commissioner	P. Box No. 59, Gullek Road, Off Pahang Road, Kuala Lumpur.	Kuala Lumpur.
NEW ZEALAND ..	Vacant	High Commissioner (Also High Commissioner in Australia. Resident in Canberra).	49, Willis Street, Wellington.	Canberra.
PAKISTAN	Rajeshwar Dayal	High Commissioner	Valika Mahal, Jehangir Bethna Road, New Town, Karachi 5.	Karachi.
DACCA	K. V. Padmanabhan P. K. Banerjee	Dy. High Commissioner. Dy. High Commissioner ..	3, Ramakrishna Mission Road, P. O. War, Dacca.	Dacca.
RAJSHAHI (E. Bengal).	A. C. Raychaudhuri	Assistant High Commissioner	—	Rajshahi.
UNITED KINGDOM.	Shrimati Vijayalakshmi Pandit.	High Commissioner (Concurrently Ambassador to Ireland and Spain).	India House, Aldwych, London, W.C.2.	London.
	M. Azim Hussain	Deputy High Commissioner.		
LEGATIONS				
ALBANIA	Khub Chand	Minister (Also Ambassador to Italy).	Indian Embassy.	Rome.
BULGARIA	All Yavar Jung	Minister (Also Ambassador to Yugoslavia and Greece. Resident in Belgrade).	—	Belgrade.
CURA	M. C. Chagla	Minister (Also Ambassador to U.S.A.).	Embassy of India.	Washington.
FINLAND	Kewal Singh	Minister (Also Ambassador to Sweden and Denmark. Resident in Stockholm).	—	Stockholm.
HUNGARY	K. P. S. Menon	Minister (Also Ambassador in U.S.S.R. and Poland. Resident in Moscow).	—	Moscow.
	M. A. Rahman	First Secretary, Charge d' Affaires.	Legation of India.	Budapest.
JORDAN	I. S. Chopra	Minister (Also Ambassador to Iraq. Resident in Baghdad).	Al Tahari Street, Waziriah, Baghdad.	Baghdad.
LEBANON	R. K. Nehru	Minister (Also Ambassador to United Arab Republic and Minister in Libya. Resident in Cairo).	Information Service of India, Rue Bilal, Opposite American University on Tram Line, Beirut.	Cairo.
LIBYA	R. K. Nehru	Minister (Also Ambassador to United Arab Republic and Minister in Lebanon. Resident in Cairo).	—	Cairo.
LUXEMBOURG ..	M. A. Rauf	Minister (Also Ambassador to Belgium. Resident in Brussels).	—	Brussels.

Country or Town	Name	Designation	Address	Station
VATICAN	M. K. Velloth	Minister (Concurrently accredited. Ambassador in Switzerland. Resident in Berne).	— —	Berne.
SPECIAL MISSIONS				
BHUTAN	Apa B. Pant	Political Officer (Also Political Officer in Sikkim. Resident in Sikkim).	Via Siliguri (W. Bengal).	Gangtok.
SIKKIM	Apa B. Pant	Political Officer in Sikkim (Also Political Officer in Bhutan).	Gangtok via Siliguri (West Bengal).	Gangtok.
UNITED NATIONS.	C. S. Jha	Permanent Representative of Government of India at the United Nations Headquarters (with rank of Ambassador).	Permanent Mission of India to the United Nations, New India House, 3-East 61th Street, New York.	New York.
COMMISSIONS				
ADEN	Jagat Singh	Commissioner for the Government of India.	Office of the Commissioner for the Government of India, Aden.	Aden.
BRITISH EAST AFRICA.	I. J. Bahadur Singh	Commissioner with the rank of Minister for the Government of India (Accredited to the Central African Federation as Commissioner and the Belgian Congo and Ruanda Urundi as Consul-General).	India House, Duke Street, P.O. No. 30074, Nairobi (Kenya).	Nairobi.
BRITISH WEST INDIES (Including British Guiana).	N. V. Rajkumar	Commissioner for the Government of India (Also accredited to Surinam (Dutch Guiana) as Consul-General).	78, Marine Square, Port of Spain, Trinidad, B.W.I.	Port of Spain.
CENTRAL AFRICAN FEDERATION (Federation of Northern and Southern Rhodesia and Nyasaland).	I. J. Bahadur Singh	Commissioner (Also Commissioner in British East Africa and Consul-General in Belgian Congo and Ruanda Urundi. Resident in Nairobi).	— —	Nairobi.
FIJI	K. D. Bhasin	Commissioner for the Government of India.	Vishal Bharteeya Buildings, Waiyamu Road, Suva.	Suva.
HONG KONG	P. M. D'Mello Kamath	Commissioner for the Government of India.	Tower Court, 11th Floor (Near Sunring House), Duddell Street, Hong Kong.	Hong Kong.
MAURITIUS	J. N. Dhanija	Commissioner for the Government of India.	Fere Felix de Valois Street, Port Louis, Mauritius.	Port Louis.
NIGERIA	B. K. Kapur	Commissioner (Also High Commissioner to Ghana. Resident in Accra).	— —	Accra.
SINGAPORE	S. K. Banerji	Commissioner	India House, 31, Grange Road, P. Box No. 836, Singapore.	Singapore.
UGANDA	K. R. P. Singh	Asstt. Commissioner	P. O. Box 3205, Kampala.	Kampala.
CONSULATES-GENERAL & CONSULATES				
ANTWERP	H. S. Gopal Rao	Vice-Consul	43 Rudes Tannerus.	Antwerp.
BASRA	Puran Singh	Consul (Hony.)	— —	Basra.
BELGIAN CONGO	I. J. Bahadur Singh	Consul-General (Also Commissioner in British East Africa, Central African Federation and Consul-General in Ruanda Urundi. Resident in Nairobi).	— —	Nairobi.
BERLIN	A. R. Sethi	Consul	Joachimstaler Strasse, 28, Berlin 15.	Berlin.
COPENHAGEN	Victor B. Strand	Honorary Consul-General for India.	Consulate-General of India, c/o Legation of India, Strandvagen 47 IV, Stockholm.	Stockholm.
GENEVA	D. N. Chatterjee	Consul-General	Consulate-General of India, Place des Eaux-Vives, Geneva.	Geneva.
HAMBURG	S. V. Patel	Consul-General	14 Burchardstrasse, Hamburg.	Hamburg.
HELSINKI	Juhio Savio	Consul-General (Hony.)	Strandvagen, 47 IV, Stockholm.	Stockholm.
KOBE	P. H. Bhalla	Consul	Consulate of India, 45/1, Kitanocho 4, Chome.	Kobe.
KHORRAMSHAHR	R. S. Husain	Consul	Consulate of India, Khorramshahr.	Khorramshahr.
LHASA (Tibet)	Major S. L. Chhibber	Consul-General for India	Consulate-General of India, Lhasa, P.O. Gyantse, Tibet.	Lhasa.

Country or Town	Name.	Designation.	Address.	Station.
MADAGASCAR ..	J. A. Shah	Consul-General	Consulate-General of India, P.O. Box No. 1108, Tananarive, Madagascar.	Tananarive.
NEW YORK ..	M. Gopala Menon	Consul-General for India (with personal rank of Minister).	Consulate-General of India, 3-East, 64th Street, New York.	New York.
PEKING ..	K. M. Kannan Pillai	Consul-General for India	—	Peking.
RUANDA ..	I. J. Bahadur Singh	Consul-General (Also Commissioner in British East Africa, Central African Federation and Consul-General in Belgian Congo. Resident in Nairobi).	—	Nairobi.
SAIGON	S. S. Gupta	Consul-General	Consulate-General of India, 213 Rue Catinat, Saigon.	Saigon.
SAN FRANCISCO ..	Raghunath Sinha	Consul-General for India ..	Consulate-General of India, 417 Montgomery Street, San Francisco.	San Francisco.
SHANGHAI	G. Shankar	Consul-General for India ..	Consulate-General of India, 219 12 The Bund, Shanghai (China), via Hongkong.	Shanghai.
SOERABAYA ..	Sampuran Singh	Consul	Djalan Raja Gubong 32, Soerabaya.	Soerabaya.
SPAIN	Mohamed Yunus	Consul-General for India ..	—	Madrid.
SURINAM	N. V. Rajkumar	Consul-General	—	Port of Spain.
VIET NAM (Democratic Republic of) ..	M. P. Mathur	Consul-General (with personal rank of Counsellor).	—	Hanoi.
MUSCAT	M. Bhavandas	Consul	—	Muscat.
MEDAN	Mehar Singh	Consul	Consulate of India, D. J. Tyokroa Minoto, 10, Medan (Indonesia).	Medan.
VICE-CONSULATES				
JALALABAD (Afghanistan).	H. L. Kashap	Vice-Consul for India ..	Vice-Consulate of India, Jalalabad.	Jalalabad.
KANDAHAR (Afghanistan).	A. K. Bakshi	Vice-Consul for India ..	Vice-Consulate of India, Kandahar.	Kandahar.
MANDALAY ..	K. L. S. Pandit	Vice-Consul	Vice-Consulate of India.	Mandalay.
ZAHIDAN ..	S. D. Kapoor	Vice-Consul for India ..	Vice-Consulate of India, Zahidan (East Iran), via Tehran.	Zahidan.
AGENCIES				
GYANTSE	R. S. Kapoor	Indian Trade Agent	Indian Trade Agency, Gyantse (Tibet), via Siliguri (West Bengal).	Gyantse.
GARTOK	Lakshman Singh Jangpangl ..	Indian Trade Agent and Assistant to the Political Officer in Sikkim.	Indian Trade Agency, Gartok (West Tibet). (This is a touring office and as such communications intended for this office may be forwarded to the address:—c/o The P.O. in Sikkim, Gangtok (Sikkim))	Gartok.
YATUNG	Capt. K. C. Johorey	Indian Trade Agent and Assistant to the Political Officer in Sikkim.	Indian Trade Agency, Yatung (Tibet).	Yatung.

INDIAN GOVERNMENT TRADE REPRESENTATIVES ABROAD

Designation and address.	Tel. Address.	Sphere of activities.
<i>Europe.</i>		
S. KRISHNAMURTI, I.F.S.—Commercial Counsellor to the High Commissioner for India in the U.K., "India House", Aldwych, London, W.C. 2.	HICOMIND London.	The United Kingdom and Nire.
H. K. KOCHAR.—The First Secretary (Commercial) to the Embassy of India, 15, Rue Alfred Dehodeneq, Paris XVIème (France).	INDATRACOM Paris.	France.
S. K. GUHA, I.A.S.—First Secretary to the Embassy of India, via Francesco Denze 36, Rome (Italy).	INDEMBASSY Rome.	Italy and Greece.
DR. S. P. CHAKRANI. First Secretary (Commercial) to the Embassy of India in Germany, 262, Koblenzstrasse, Bonn.	INDEMBASSY Bonn.	Germany.
S. V. PATIL, I.F.S.—Consul-General of India, 603/5, Sprinkenhof, Hamburg-1 (Germany).	INDIA Hamburg.	States of Hamburg, Bremen and Schleswig Holstein.
H. C. HODG.—Second Secretary (Commercial) to the Embassy of India in Belgium, 585, Avenue Louise, Brussels.	INDEMBASSY Brussels.	Belgium.
H. S. GOPALA RAO.—Vice-Consul, 43, Hindeve Herstra 4, Antwerp.	CONSINDIA Antwerp.	
K. S. SENGAL.—Second Secretary (Commercial) to the Embassy of India, Strandvagen 47, IV, Stockholm (Sweden).	INDEMBASSY Stockholm.	Sweden, Finland and Denmark.
M. V. DEO, I.A.S.—First Secretary (Commercial) to the Embassy of India, Berne.	INDEMBASSY Berne.	Switzerland.
C. SIVA RAO, Second Secretary (Commercial) to the Embassy of India, 22, Thunovaska, Prague 111.	INDEMBASSY Prague.	Czechoslovakia.
P. VAIDYANATHAN. Second Secretary (Commercial) to the Embassy of India, No. 6 and 8, 22, 1 Iltsa Obukha, Moscow.	INDEMBASSY Moscow.	U.S.S.R.
R. C. MALHOTRA.—Second Secretary (Commercial) to the Embassy of India, Warsaw (Poland).	---	Poland.
Third Secretary (Commercial) to the Legation of India, 17, Geyergasse (Spitzergasse), Vienna.	INDLEGATION Vienna.	Austria and Hungary.
First Secretary (Commercial) to the Embassy of India, Belgrade (Yugoslavia).	INDEMBASSY Belgrade.	Yugoslavia, Bulgaria and Rumania.
<i>America.</i>		
M. K. ROY.—Second Secretary (Commercial) to the High Commissioner for India in Canada, 200, McLaren Street, Ottawa, Ontario (Canada).	HICOMIND Ottawa.	Canada.
S. G. RAMACHANDRAN, I.F.S.—The First Secretary (Commercial) to the Embassy of India, 2107, Massachusetts Avenue, N. W. Washington-M. D.C. (U.S.A.).	INDEMBASSY Washington.	U.S.A. and Mexico.
<i>Africa.</i>		
Vacant.—The Indian Government Trade Commissioner, Jubilee Insurance Building, Post Box No. 614, Mombasa (Kenya).	INDOCOM Mombasa.	East Africa (Kenya, Uganda & Tanganyika), Zanzibar, Northern and Southern Rhodesia and Nyasaland.
K. R. F. KHILNANI, I.F.S.—Counsellor (Commercial) to the Embassy of India, 1, Suliman Pasha Street, Cairo.	INDEMBASSY Cairo.	Egypt, Lebanon, Cyprus and Libya.
M. R. THADANI, I.F.S.—First Secretary (Commercial) to the Embassy of India, Khartoum (Sudan).	INDEMBASSY Khartoum.	Sudan.
<i>Australia and New Zealand.</i>		
H. A. SUJAN. The Indian Government Trade Commissioner, Caltex House, 10th Floor, 167-167, Vent Street, Sydney (Australia).	AUSTRIND Sydney.	Australia and its overseas territories including Norfolk and Nauru.
S. K. CHOWDHRY, I.F.S.—The First Secretary (Commercial) to the High Commissioner for India in New Zealand, Wingdgor Building, 49, Willis Street, Wellington (New Zealand).	TRACOMIND Wellington.	New Zealand.
<i>Asia.</i>		
D. HEJMADI.—The First Secretary (Commercial) to the Embassy of India in Japan, Empire House (Naigai Building), Marunouchi, Tokyo (Japan).	INDEMBASSY Tokyo.	Japan.
V. C. VIJAYA RAGHAVAN.—The First Secretary (Commercial) to the High Commissioner for India in Ceylon, Gaffoor Building, P.O. Box No. 47, Fort, Colombo (Ceylon).	TRADING Colombo.	Ceylon.
N. KESAVAN.—The First Secretary (Commercial) to the Embassy of India, Randeria Building, Phayre Street, Post Box No. 751, Rangoon (Burma).	INDEMBASSY Rangoon.	Burma.
N. K. NIGAM.—The First Secretary (Commercial) to the High Commissioner for India in Pakistan, Chartered Bank Chambers, 'Valika Mahal,' N. J. Setna Road, New Town, Karachi-5.	INTRACOM Karachi.	Pakistan.
B. M. GHOSH. The Second Secretary (Commercial) to the High Commissioner for India in Pakistan, 3, Ramakrishna Mission Road, Dacca (East Pakistan).	GOODWILL Dacca.	East Pakistan.
A. K. DAS, I.F.S.—The First Secretary (Commercial) to the Commissioner of India in Malaya, India House, 31, Grang Road, P.B. No. 836, Singapore (Malaya).	REFINDIA Singapore.	Malaya and Singapore.
N. P. JAIN, I.F.S.—Third Secretary to the Embassy of India, 37, Phaythal Road, Bangkok (Thailand).	INDEMBASSY Bangkok.	Thailand.
Commercial Section.—Embassy of India, 914, Nebracka, Manila (Philippines).	INDEMBASSY Manila.	Philippines (Under the Minister, Embassy of India at Manila).
B. R. ABHAYANKER.—The Second Secretary (Commercial) to the Embassy of India, P.R. No. 178, 44, Lebon Sirih, Djakarta (Indonesia).	INDEMBASSY Djakarta.	Indonesia.
JAGAT SINGH.—The Commissioner for the Government of India in Aden, Aden.	COMIND Aden.	Aden, British Somaliland and Italian Somaliland.
B. AXEL KHAN.—Second Secretary (Commercial) to the Embassy of India, Avenue Shah Raza, Tehran (Iran).	INDEMBASSY Tehran.	Iran.
Commercial Attache to the Embassy of India, 8/8, Saifi-ul-Deen-el Hilly Street, Waziriah, Baghdad.	INDEMBASSY Baghdad.	Iraq, Jordan (Amman), Persian Gulf (Kuwait, Bahrain, Saarab), Arab Sheikdoms, Qatar and Trucial Oman.
P. DAS GUPTA.—First Secretary (Commercial) to the Embassy of India, 32, Tung Chiao Min, Lsaiang, Peking.	INDEMBASSY Peking.	China.

Designation and address.	Tel. Address.	Sphere of activities.
T. V. GOPALAPATHY. —Second Secretary (Commercial) to the Commissioner for the Govt. of India, Tower Court, 11th Floor, Hyson Avenue, Hongkong.	COMIND Hongkong.	Hongkong.
D. J. SEN GUPTA. —Second Secretary (Commercial) to the Embassy of India, Pnom Penh.	INDEMBASSY Pnom Penh.	Cambodia.

N.B. 1.—The following officers are looking after India's trade interests in Tibet :

(i) Commercial Secretary to the Indian Political Officer in Sikkim, Gangtok.

(ii) Indian Trade Agent, Yatung (Tibet).

N.B. 2.—In places where there are no separate Commercial Representatives, Diplomatic and Consular Officers look after India's trade interests.

EMBASSIES IN INDIA

Country.	Station.	Designation.	Name.	Address.
AFGHANISTAN ..	New Delhi ..	Ambassador Extraordinary and Plenipotentiary. First Secretary	His Excellency Sardar Ala General Mahamed Omer. Mohamad Ayoub Azla.	52, Golf Links, New Delhi. 80, G. Sujan Singh Park, New Delhi.
ARGENTINA ..	New Delhi ..	Ambassador Extraordinary and Plenipotentiary. Chief of Consular Section and First Secretary.	H. E. Prof. Vicente Fatone. Rafael M. Vazquez.	Ashoka Hotel, New Delhi.
AUSTRIA ..	New Delhi ..	Ambassador Extraordinary and Plenipotentiary. Attache	H. E. Dr. Arno Halusa. Dr. Klaus R. Ziegler.	37/48, Nyaya Marg, Diplomatic Enclave, New Delhi.
BELGIUM ..	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	His Excellency Count Geoffroy d'Aspremont-Lynden.	21, Hardinge Avenue, New Delhi.
BRAZIL ..	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	His Excellency Jose Cochrane de Alencar.	8, Aurangzeb Road, New Delhi.
BURMA ..	New Delhi ..	Ambassador Extraordinary and Plenipotentiary. First Secretary and Consul General. First Secretary (Commercial).. Military, Naval and Air Attache Second Secretary and Consul.. Third Secretary and Vice-Consul.	His Excellency Thado Maha Thray Sithu U Than Aung. U. Hla Oung. U. Aung Gyaw. Col. Zeya Kyaw Htin. U. Ohn Galing. U. Than Maung.	No. 2, Kitchner Road, New Delhi.
CAMBODIA ..	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	His Excellency Var Kamel.	25, Golf Links, New Delhi.
CHILE ..	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Miguel Serrano Fernandes.	23, Prithviraj Road, New Delhi.
CHINA ..	New Delhi ..	Ambassador Extraordinary and Plenipotentiary. Counsellor Counsellor Commercial Counsellor.. Military Attache First Secretary First Secretary First Secretary First Secretary	His Excellency Pan Tzu-li. Fu Hao. Yeh Cheng-chang. Tu Yu-yun. Senior Col. Chang Tung. Chang Chih-Yi. Ma Mu-ming. Yin Shang-Chih. Chang Chang.	28, Prithviraj Road, New Delhi.
CZECHOSLOVAKIA.	New Delhi ..	Ambassador Counsellor Commercial Counsellor and Trade Representative. Second Secretary Second Secretary Attache Commercial Attache and Dy. Trade Representative.	His Excellency Ing J. Nosek. Jan Pec. L. Pesl. Dr. L. Smid. S. Kozubik. M. Mateju. R. Stolar.	22/30, Kautilya Marg, Chanakya-puri, New Delhi.
DENMARK ..	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Arne Bogh Anderson.	9A, Nizamuddin West, Mathura Road, New Delhi 13.
ETHIOPIA ..	New Delhi ..	First Secretary Ambassador	Kaj Repadorph. His Highness Ras H. S. Imru.	20, Prithviraj Road, New Delhi 2.
FRANCE ..	New Delhi ..	Ambassador Extraordinary and Plenipotentiary. Minister Counsellor Counsellor (Commercial) Military, Navy & Air Attache Cultural Counsellor	H. E. Count Stanislas Ostrorog. Gaspard De Villelume. Serge de Tschakowsky. Col. Jenny Clark. Jean Lequillier.	2, Aurangzeb Road, New Delhi.

Country.	Station.	Designation.	Name.	Address.
GERMANY, FEDERAL REPUBLIC OF	New Delhi	Ambassador	H. K. Dr. Wilhelm Melchers.	No. 6, Block 50-G, Shanti Path, Chanakyapuri, New Delhi.
		Minister-Counsellor	Wilhelm G. von Heyden.	
		Counsellor (Commercial)	Rolf von Kjaer.	
		Counsellor	Hans Georg Steltzer.	
		Counsellor (Cultural)	Dr. Karl Pfauter.	
		First Secretary (Press)	Dr. Willi A. Ritter.	
		First Secretary	Dr. Henry Bornemann.	
		Second Secretary	Bernhard Heibach.	
		Second Secretary (Commercial)	Thomas H. Ramelow.	
		Second Secretary (Commercial)	Hans Taube.	
GREECE	New Delhi	Second Secretary (Cultural)	Alfred Wurfel.	Ashoka Hotel, New Delhi.
		Second Secretary (Commercial)	Erwin Julius Seegall.	
		Ambassador Extraordinary and Plenipotentiary	His Excellency Nicholas Hadji Vassiliou.	
		First Secretary	Dimitri Papadakis.	
		Second Secretary	George Papoulias.	
INDONESIA	New Delhi	Second Secretary (Administrative)	Athanasios Couzopoulos.	50-A, Chanakyapuri, New Delhi.
		Ambassador Extraordinary and Plenipotentiary	H.E. R. H. Abdul Kadir.	
		Counsellor for Economic Affairs	Haroen Al Rasjidi Saleh.	
		Counsellor for Press and Public Relations	Soemarno Soemahardjono.	
		Air and Naval Attache	Colonel R. Iskandar.	
IRAN	New Delhi	Cultural Attache	Mrs. Satiyawati Nulelman.	5, Barakhamba Road, New Delhi.
		Ambassador Extraordinary and Plenipotentiary	H.E. Moehtegh Kazemi.	
		Counsellor	A. Mirfendereski.	
		Military, Air and Naval Attache	Brig. Gen. M. A. Piroozan.	
		Second Secretary (Commercial and Economic Affairs)	H. Hakimi.	
IRAQ	New Delhi	Third Secretary (Consular Affairs)	A. Kiafar.	18-A, Nizamuddin West, New Delhi.
		Third Secretary (Press Affairs)	M. A. Kazerouni.	
		Assistant Cultural Counsellor	A. A. Zand.	
		Ambassador	His Excellency Kasim Hassan	
		Counsellor	Nathir Al-Umari.	
ITALY	New Delhi	First Secretary	Miss Sirria Al-Khoja.	26-A, Nizamuddin West, New Delhi.
		Third Secretary	Adnan Raouf.	
		Ambassador Extraordinary and Plenipotentiary	His Excellency Dr. Justo Gualti del Giardino.	
		Counsellor	Dr. A. Figarolo di Gropello.	
		Ambassador Extraordinary and Plenipotentiary	His Excellency Dr. Shiroshi Nasu.	
JAPAN	New Delhi	Counsellor	Toshio Mitsuda.	Plot No. 4 & 5, Block 50-G, Chanakyapuri, New Delhi.
		First Secretary	Toshikazu Maeda.	
		First Secretary (Commercial)	Jiro Takamizawa.	
		First Secretary (Agricultural)	Heijiro Yoshihara.	
		First Secretary (Commercial)	Hiroshi Maeda.	
LAOS	New Delhi	Ambassador Extraordinary and Plenipotentiary	His Excellency Bousi.	4, Lower Circular Road, Diplomatic Enclave, New Delhi.
MEXICO	New Delhi	Charge d'Affaires <i>ad interim</i>	Luis Fernandes MacGregor.	36, 75/76, Theatre Communication Bldg., Connaught Place, New Delhi.
MONGOLIAN PEOPLES REPUBLIC.	New Delhi	Ambassador Extraordinary and Plenipotentiary	His Excellency Mangaly Dugersuren.	26, Golf Links Area, New Delhi.
MOROCCO	Delhi	Ambassador Extraordinary and Plenipotentiary	His Excellency Dr. Ahmed Benaboud.	17/48, Chanakyapuri, New Delhi.
NEPAL	New Delhi	Ambassador	H.E. Lt.-Gen. Daman S. J. B. Rana.	Barakhamba Road, New Delhi.
		First Secretary	B. R. Bhandary.	
		Military Attache	Col. B. N. Rana.	
		Second Secretary	R. P. Sharma.	
		Second Secretary cum Private Secretary	G. M. Singh.	
NETHERLANDS	New Delhi	Ambassador Extraordinary and Plenipotentiary	His Excellency H. A. Hiel.	4, Batendone Road, New Delhi.
NORWAY	New Delhi	Counsellor	G. J. A. Veling.	21, Sunder Nagar, New Delhi.
		Ambassador Extraordinary and Plenipotentiary	His Excellency Hans Olav.	
PHILIPPINES	New Delhi	First Secretary	Frank D. Holthe.	Thapar House, Janpath, New Delhi.
		Ambassador Extraordinary and Plenipotentiary	His Excellency Hon. Manuel A. Alzate.	
		Second Secretary and Consul	Dr. Roman V. Ubaldo.	
		Armed Forces Attache	Col. Filemon C. Reodica.	
		Administrative Attache	Conrado de Castro.	
		Press Attache	Paul Katigbak.	
		Private Secretary to H.E. the Ambassador	Rodolfo Arizala.	

Country.	Station.	Designation.	Name.	Address.
POLAND	New Delhi	Ambassador Extraordinary and Plenipotentiary. Counsellor Counsellor (Press) First Secretary Second Secretary Commercial Counsellor Attache	H. E. Dr. Julius Katz-Suchy. R. Mustelak. K. Dunin-Keplica. S. Soltysiak. I. Sachs. J. Drobot. A. Gradziuk.	22, Golf Links Area, New Delhi.
RUMANIAN PEOPLE'S RE- PUBLIC	New Delhi	Ambassador Extraordinary and Plenipotentiary.	Nicolae Ciorgiu.	48, Golf Links Road, New Delhi.
SAUDI ARABIA ..	New Delhi	Ambassador Extraordinary and Plenipotentiary. Attache Adm. Official (Records) Adm. Official (Haj)	H.E. Shaikh Yusuf Alfazan. Mohammed Khalil Dabbagh. Shaikh Hussein Suleman. Ahmed A. Alkazi.	6, Hardinge Avenue, New Delhi.
SPAIN	New Delhi	Ambassador Extraordinary and Plenipotentiary.	His Excellency Count de Artaza.	12, Prithviraj Road, New Delhi.
SUDAN	New Delhi	Ambassador First Secretary Third Secretary	H.E. Ryed Rahmatulla Abdulla. Syed E. M. El Amin. Syed al-Tahir Mustafa.	147, Sunder Nagar, New Delhi-11. (Residence: 1, Barakhamba Road, New Delhi). (Res.) 147, Sunder Nagar, New Delhi-11. (Res.) 19-B, Nizamuddin East, New Delhi.
SWEDEN	New Delhi	Ambassador Extraordinary and Plenipotentiary. Counsellor Second Secretary Attache	Her Excellency Mrs. Alva Myrdal. Bo Gunnar Jarnstedt. Helge Berg. Sven-Olov Holm.	27, Prithviraj Road, New Delhi.
SWITZERLAND ..	New Delhi	Ambassador	His Excellency Dr. C. A. Rezzonico.	Connaught Place, Radio Road No. 1, New Delhi. Residence: 7, Prithviraj Road, New Delhi.
THAILAND	New Delhi	Charge d'Affaires a.i.	C. Mekhachamrun.	Chanakyapuri, New Delhi.
TURKEY	New Delhi	Ambassador Extraordinary and Plenipotentiary. First Secretary Second Secretary Press Attache	H.E. Kadri Kessen. Faruk Celiloglu. Samim Sahin. Tekip Engineri.	No. 27, Jor Bagh, New Delhi.
UNION OF SOVIET SOCIALIST RE- PUBLICS.	New Delhi	Ambassador Extraordinary and Plenipotentiary. Minister Counsellor Commercial and Trade Representative of the U.S.S.R. Counsellor for Economic Affairs Counsellor Counsellor for Cultural Affairs. Counsellor Counsellor Counsellor for Agricultural Affairs. Military Naval and Air Attache. First Secretary First Secretary First Secretary First Secretary and Head of the Information Department. First Secretary (Commercial) First Secretary (Commercial) First Secretary First Secretary First Secretary	His Excellency Ivan Alexandrovich Benediktov Tulegen T. Tazhihaev. Nikolai P. Shiryayev. Vasil A. Sergeev. Nikolai N. Kryukov. Grigory G. Klimov. Vladimir F. Klimov. Veniamin A. Romanovsky. Prof. Dr. S. C. David Ter-Avanesyan. Col. Georgi N. Pavlov. Ivan M. Khartchenko. Peter M. Petrov. Vladimir S. Moskalev. Victor P. Sokovich. Nikolai I. Vasiliev. Timofei S. Novikov. Boris S. Romanov. Nikolai K. Dorodnitsayev. Nikolai A. Schukin.	6, Canning Road, New Delhi.
UNITED ARAB REPUBLIC.	New Delhi	Ambassador Extraordinary and Plenipotentiary. Counsellor Military Attache Commercial Counsellor Asst. Military Attache Second Secretary Labour Attache Third Secretary Third Secretary Press Attache Attache Attache	His Excellency Ahmed Hassan Elfeqy Salah El Abd. Brig. Moustapha Tawfik. Youssef S. Abady. Major Pathy Mohamed Hamdi. Kaz El-Din El Sayed Issa. Mohamed Abou Elnaar. Mohamed Samy Sabat. Mohamed Saleh El-Din Khafagul. Galal El Rashidi. Hassan Ramadan. Abd El Salam Esmat.	6, Batendone Road, New Delhi.
UNITED STATES OF AMERICA.	New Delhi	Ambassador Extraordinary and Plenipotentiary. Minister (Deputy Chief of Mission). Minister-Director of TCM Counsellor for Political Affairs. Counsellor for Administration ..	His Excellency Ellsworth Bunker. Winthrop G. Brown. Howard E. Houston. Edward P. Maffitt. Arthur G. Jones.	Bahawalpur House, Sikandra Road, New Delhi.

Country.	Station.	Designation.	Name.	Address.
YUGOSLAVIA	New Delhi	Counsellor for Public Affairs ..	W. Kenneth Bunce.	13, Sunder Nagar, Mathura Road, New Delhi.
		Counsellor for Economic Affairs.	J. Robert Fluker.	
		Army Attache	Col. Loveaire A. Hedges.	
		Naval Attache and Naval Attache for Air.	Capt. Anton J. Sintic, Jr.	
		Air Attache	Col. James E. Lazenby.	
		Agricultural Attache ..	Clarence R. Eskildsen.	
		Attache (Public Affairs) ..	John V. Lund.	
		Attache (Information) ..	Harold O. Wright.	
		Attache (Public Affairs) ..	Arthur Goodfriend.	
		First Secretary (Economic)	Warren A. Silver.	
		Attache (Cultural Affairs) ..	John T. Heid.	
		First Secretary (Political) ..	Carol C. Laise.	
		Attache (Information) ..	Eugene Rosenfeld.	
		First Secretary (Administrative).	Carmen E. Pasquale.	
		Attache (Labour)	David S. Burgess.	
		First Secretary (Political) ..	L. Douglas Heck.	
		First Secretary (Commercial) ..	Harold E. Hall.	
		First Secretary (Political) ..	Harry A. Rositzke.	
		Attache (Information) ..	Edward A. O'Neill.	
		First Secretary (Political) ..	Edward A. Marelius.	
		Ambassador	His Excellency Dusan Kveder.	

LEGATIONS IN INDIA

Country.	Station.	Designation.	Name.	Address.
BULGARIA	New Delhi	Envoy Extraordinary and Minister Plenipotentiary.	H.E. Lubomir Popov.	108, Golf Links Area, New Delhi.
FINLAND	New Delhi	Commercial Counsellor ..	Asparuh Mladenov.	43A, Prithviraj Road, New Delhi 11.
		Second Secretary	I. Moutafchiev.	
		Second Secretary	N. Kolyovskiy.	
		Third Secretary	G. Gavrilov.	
HOLY SEE	New Delhi	Envoy Extraordinary and Minister Plenipotentiary.	His Excellency Sigurd Waldemar von Numera.	Niti Marg, Chanakjapuri, New Delhi 2.
		Secretary of the Legation	Kai Somerto.	
		Apostolic Internuncio ..	The Most Rev. James B. Knox.	
HUNGARY	New Delhi	Counsellor	The Rt. Rev. Msgr. Anthony Del Giudice.	10/11, Pusa Road, New Delhi.
		Second Secretary	The Very Rev. Monsignor Edward Cassidy.	
		Attache	The Rev. Fr. Charles Burton Monton.	
		First Secretary Charge d'Affaires a.i.	Ferenc Turi.	
		First Secretary	Istvan Fodor.	
LEBANON	New Delhi	Third Secretary	Sandor Kormos.	Room 302, Ashoka Hotel, New Delhi.
		Envoy Extraordinary and Minister Plenipotentiary.	H.E. Halim Said Abu-Issoddin.	

HIGH COMMISSIONS IN INDIA

Country.	Station.	Designation.	Name.	Address.
AUSTRALIA	New Delhi	High Commissioner	His Excellency W. R. Crocker.	Australian High Commission, Connaught Place, New Delhi.
CANADA	New Delhi	Counsellor	D. St. A. Dexter.	4, Aurangzeb Road, New Delhi 11.
		Press Attache	L. G. Wignmore.	
		High Commissioner	His Excellency C. A. Bonning.	
		Counsellor (Commercial)	B. A. Macdonald.	
		Counsellor	H. H. Carter.	
		Second Secretary	C. F. W. Hooper.	
		Second Secretary	R. B. MacLean.	
		Third Secretary	A. C. Lapointe.	
		Attache (Administration)	W. R. Campbell.	
		Attache (Immigration)	A. J. Desjardins.	
	Bombay	Attache (Medical)	Dr. J. D. Blake.	Gresham Assurance House, Mint Road, Bombay.
		Trade Commissioner	H. A. Gilbert.	
		Asstt. Trade Commissioner	W. J. Collett.	

Country.	Station.	Designation.	Name.	Address.
CEYLON	New Delhi	High Commissioner	His Excellency Sir Richard Aluwihare.	224, Jor Bagh, New Delhi.
		First Secretary	A. Banayake.	
		Second Secretary Public Relations.	E. L. F. de J. Seneviratne.	
GHANA	New Delhi	Second Secretary	N. Balasubramaniam.	2, Golf Links, New Delhi.
		Ag. High Commissioner	His Excellency F. E. Bonten.	
MALAYA	New Delhi	High Commissioner	His Excellency Dato S. Cheva-singham Macintyre.	Malaya House, 15, Jor Bagh, New Delhi.
		Second Secretary (Chancery)	All bin Abdullah	
		Second Secretary (Information)	Toh Chor Keat	
		Second Secretary (Commercial)	Chan Thye King	
		Third Secretary (Administration)	Wee Tiong Hun	
NEW ZEALAND	New Delhi	Acting High Commissioner	His Excellency R. L. G. Challis.	10, Janpath, New Delhi 11.
		Commercial Secretary	R. T. C. de Lambert.	
PAKISTAN	New Delhi	High Commissioner	His Excellency Mian Zia-ud-Din.*	8-B, Hardinge Avenue, New Delhi.
		Deputy High Commissioner	Majjad Hyder.	
		Military Adviser	Colonel Mohammed Iqbal Khan.	
		Air Adviser	Wing. Comdr. M. Sarwar Khan.	
		First Secretary	Aftab Ahmad Khan.	
		First Secretary	M. A. K. Chaudhry.	
		Press Attache	R. N. Quth.	
		Commercial Secretary	Ghulam Yusuf Khan.	
		Second Secretary	Anwarul Haque.	
		Second Secretary	M. Fida Husain.	
		Second Secretary	G. M. Khan.	
		Attache (Welfare)	Mohammad Latif Malik.	
		Third Secretary	A. K. M. Nasrul Islam.	
		Liaison Officer	Wilayat Husain.	
		Assistant Passport Officer	R. M. Raza.	
		Assistant Press Attache	M. I. B. A. Chaudhury.	
	Calcutta	Deputy High Commissioner	Ahmed Ali.	9, Circus Avenue, Calcutta 5.
	Shillong	Assistant High Commissioner	A. Monnin.	Dahlia House, Kench's Terrace, Shillong.
UNITED KINGDOM.	New Delhi	High Commissioner	His Excellency The Rt. Hon. Malcolm John MacDonald.	6, Tees January Marg, New Delhi 2.
		Deputy High Commissioner (Minister).	J. M. C. James, C.M.G., M.B.E.	
		Economic Adviser to the High Commissioner and Senior U.K. Trade Commissioner in India (Minister).	H. Bailey.	
		Financial Adviser to the High Commissioner and United Kingdom Treasury Representative in South Asia (Minister).	G. B. Blaker.	
		Counsellor (Commercial) and Principal Trade Commissioner	R. B. D. McIntosh.	
		Counsellors	C. M. Anderson, H. Smedley, M.B.E.; V. C. Martin.	
		Naval Adviser	Capt. J. C. A. Ingram, D.S.C.	
		Military Adviser	Brigadier J. A. C. D'Aplice, O.B.E.	
		Air Adviser	Air Commodore J. H. Chaplin, D.S.O., D.F.C.	
		Counsellor (Information) and Director, British Information Services.	J. T. Hughes.	
		Labour Adviser	J. S. P. Mackenzie.	
		Adviser on Works and Services.	J. T. Banks.	
		First Secretary (Commercial) and Trade Commissioner.	W. Nicoll.	
		First Secretary	J. Dobbs, C.B.E.	
		First Secretary	Miss J. Ward.	
		First Secretary	J. A. Allen, M.B.E.	
		First Secretary (Commercial) and Trade Commissioner.	H. O'Brien.	
		First Secretary (Information and Dy. Director, British Information Services).	A. C. Hall.	
		First Secretary (Information).	G. d'Arnaud Taylor.	
		First Secretary (Information).	S. E. D. Barz, O.B.E.	
		First Secretary	W. R. Lythgo.	
	Calcutta	Deputy High Commissioner	Major General W. H. A. Bishop, C.B., O.B.E.	1, Harrington Street, Calcutta 16.
		Counsellor	G. S. Whitehead.	
		First Secretary	R. H. Wimble.	
		Second Secretary	J. Saul.	

* Dr. Omar Hyat Malik is ambassador-designate and is due to take the place of Dr. Zia-ud-Din. (July 1959)

Country.	Station.	Designation.	Name.	Address.
	Bombay	Deputy High Commissioner ..	E. G. Norris.	Mercantile Bank Building, Mahatma Gandhi Road, Bombay.
		First Secretary	G. I. Simmons.	
		First Secretary	R. C. Cox.	
		First Secretary (Information).	E. J. Ellis.	
		Second Secretary	R. W. S. Carr.	
		Second Secretary (Information).	T. J. Sigsworth.	
	Madras	Deputy High Commissioner ..	R. G. Chisholm.	No. 6, Armenian Street, Madras.
		First Secretary	O. G. Forster.	

FOREIGN CONSULAR OFFICES IN INDIA

Country.	Station.	Designation.	Name.	Address.
AFGHANISTAN ..	Bombay	Consul-General	Abdul Raouf Nasir Ziai.*	115, Walkeshwar Road, Bombay.
AUSTRIA ..	Calcutta	Hon. Consul	Dr. W. Weissel.	52, 5, Rallygunge Circular Road, Calcutta 10.
	Bombay	Hon. Consul	Murari J. Vaidya.	Industrial Estate, Lalbaug, Bombay 12.
BELGIUM ..	Bombay : Consulate General for Belgium with jurisdiction over Bombay State, Mysore State, Kerala State, Andhra Pra- desh and Madras State.	Hon. Chancellor Consul-General Vice-consul	Mrs. Alice S. Khan. F. Standaert. Th. De Greeff.	"Morena", 11, Carmichael Road, Cumbala Hill, Bombay 26, Telephone : 41824. Tele- grams : "BELSULAT".
	Calcutta : Consulate General for Belgium with jurisdiction over West Bengal State, Assam State, Orissa State and Bihar State.	Consul-General	W. Labeye.	6, Carnac Street, Calcutta Tele- phone : 443886. Telegrams : "BELSULAT".
	Madras	Consul (Honorary)	M. Nevena.	1-E, Spurtank Road, Chetput, Madras.
BRAZIL ..	Calcutta	Consul	Vacant.	8, 6 Allipore Park Road, Cal- cutta 27.
BURMA ..	Calcutta	Vice-Consul Consul-General Consul Vice-Consul Vice-Consul	J. R. Antonio Viegas. U Ra Net. U Tin Maung. U Tin Nyunt. U Aung Thet.	12, Dalhousie Square East, Calcutta.
CHINA † ..	Calcutta	Consul-General	Lu Hsi.	6, Rutland Gate (1st Street), Nungambakam, Madras
	Bombay	Consul-General	Chang Chi-ping.	237, Lower Circular Road, Calcutta.
COLOMBIA ..	Madras	Consul	A. Tavera Garcia.	10, Bomanji Petit Road, Cum- bala Hill, Bombay.
COSTA RICA ..	Bombay	Consul-General	I. A. Makhani.	Adyar, Madras 20.
	Madras	Vice-Consul	Roy K. Chambers.	Standard Bldg., 346, Dadabhoy Naorji Road, Bombay 1.
CZECHOSLOVAKIA	Bombay	Consul-General	Jan Suchanek.	8, Waddel Road, Madras 10.
		Vice-Consul	Miloslav Peresty.	"Marcopia", 5, Pedder Road, Cumbala Hill, Bombay 26.
DENMARK ..	Bombay	Hon. Consul-General	E. B. Mogensen.	Eros Cinema Building, 1B, Jamshedji Tata Road, Bombay.
	Calcutta	Hon. Consul	Aage Larsen.	180, Park Street, Calcutta.
	Cochin	Ag. Consul	W. E. Northey.	C/o Pierce Leale & Co., Ltd., Cochin.
	Madras	Ag. Consul	F. Korner.	Mercantile Bank Building, 1st Line Beach, Madras.
DOMINICAN REPUBLIC	Bombay	Consul-General	H. H. Ismail.	208, D. Wachha Road, Mistry Court, Opp. C.C.I., Bombay 1.
EL SALVADOR	Calcutta	Vice-Consul Consul	Abdul Rashid Ismail. Karanjakhia Bonerjee	12, P. K. Tagore Street, Calcutta 6.
ETHIOPIA	Bombay	Hon. Consul	Ismail M. Kanga.	Crecent Chambers, Tamarind Lane, Fort, Bombay. Tele- phone : Office 251243. Resi- dence : 213271.
FINLAND ..	Bombay	Consul	C. H. Campbell.	Chartered Bank Building, Post Box No. 73, Mahatma Gandhi Road, Bombay 1.
		Trade Commissioner	R. Sippel.	Chartered Bank Building, Box No. 73, Mahatma Gandhi Road, Bombay 1.
	Calcutta	Consul	S. Stevenson.	P.O. Box 209, 2, Netaji Subhas Road, Calcutta.

There is also a trade agency at Kalimpong (10½ miles, Kalimpong). * Due to leave.

Country.	Station.	Designation.	Name.	Address.
FRANCE	Bombay	Consul-General	Henri Dumont.	Vulcan Insurance Building, 5th Floor, Churchgate Reclamation, Bombay 1.
	Calcutta	Consul-General	Adrien Massonaud.	20, Park Mansion, Park Street, Calcutta 16.
	Madras	Consul	Roger London.	7, Cenotaph Road, Teynampet, Madras.
GERMANY (FEDERAL REPUBLIC).	Bombay	Consul-General	Dr. Hellmuth Dietmar.	Rumi Mansion, 29, Wodehouse Road, Bombay 1.
		Consul	Reichstrolcherr Friedrich von Dungen.	
		Consul	Ernst Kunisch.	
		Vice-Consul	Alexander von Schmelting.	
		Vice-Consul	Friedrich Doell.	
GREECE	Calcutta	Vice-Consul	Heiny Schether.	
		Consul-General	Klaus Curtius.	Ilaco House, 13, Brabourne Road, Calcutta 1.
	Madras	Consul First Class	Alfred L. Ries.	Bombay Mutual Bldg., 378, Netaji S. Bose Road, Madras 1. P.O. Box 102.
HAITI		Consul	Dr. Philipp Koenigs.	Mercantile Chambers, 1st Floor, Graham Road, Ballard Estate, Bombay.
	Bombay	Consul-General	G. Loucatos.	Wellisley House, 7, Wellisley Place, Calcutta.
INDONESIA	Calcutta	Consul-General	B. Mathews.	No. 2, Cornwallis Street, Calcutta 6.
IRAN	Bombay	Consul	Murari Churn Law.	17, Altamont Road, Cumballa Hill Bombay 26.
IRAQ		Consul	Dr. Socpardl.	Pradip (former Dorchester), Queen's Road, Bombay. Tel. No. 242118.
	Bombay	Consul-General	Fereydoon Morasaghi.	
ISRAEL		Consul	Seyfollah Sekehchi.	"Panorama", 203, Walkeshwar Road, Bombay 6.
	Bombay	Consul-General	Kamel Maghazachi.	
ITALY		Chancellor	Ayub Haldari.	50, Pedder Road, Cumballa Hill, Bombay 26.
	Calcutta	Consul	A. Caspi.	
JAPAN		Chancellor	A. Adar.	3, Raja Santosh Road, Alipore, Calcutta 27.
	Bombay	Consul-General	Dr. Ettore Di Vittorio.	Dinchaw Wachha Road, Fort, P.O. Box No. 1521, Bombay 1.
		Consul	Dr. Vittorio Lavison.	12, Pretoria Street, Calcutta 16.
LIBERIA	Calcutta	Consul-General	H. Takeuchi.	"White House" 91, Walkeshwar Road, Bombay 6.
		Vice-Consul	K. Kaneko.	
LUXEMBOURG	Bombay	Consul-General	Toshio Yoshioke.	
MONACO	Calcutta	Vice-Consul	Y. Ito.	7-2-P, Jamir Lane, Calcutta 10.
NEPAL		Consul	P. K. Bonerjee.*	
NETHERLANDS	Bombay	Vice-Consul In charge	R. C. L. Van Damme.	2nd Floor, Taj Building, Hornby Road, Fort, Bombay.
		Consul-General	R. Chattaram.	14 15F, Connaught Place, New Delhi.
	Calcutta	Consul-General	J. B. Shah.	10, Woodlands, Sterndale Road, Alipore, Calcutta 27.
NICARAGUA	Bombay	Vice-Consul	D. B. Bannvat.	208, Bazargate Street, City Ice Building, P.O. Box 260, Fort, Bombay 1. (Tel. Nos. 251576, 251577, 251578).
		Consul-General	J. Van der Gaag.	
	Calcutta	Vice-Consul	J. J. Derksen.	5 & 7, Netaji Subhas Road, Calcutta.
NORWAY	Madras	Consul	Ph. H. Rogaar.	North Rly. Terminus Road, Royapuram, Madras.
		Consul	A. Sinclair Rose.	
	Bombay	Vice-Consul	H. D. Dolg.	Alice Building, Dr. Dadabhoy Naoroji Road, Bombay. (Tel. No. 252542). (Grams: "WAUDCO").
NORWAY		Consul	C. H. Hardcastle.	
	Calcutta	Vice-Consul	J. K. Rege.	Gillander House, Netaji Subhas Road, Calcutta 1. Tel. No. 224281/25.
		Consul	K. C. Dey.	
NORWAY	Bombay	Consul-General	M. Rolstad.	Imperial Chambers, Wilson Road, Ballard Estate, Bombay.
	Calcutta	Vice-Consul	J. Grieg.	14, Netaji Subhas Road, Calcutta.
		Consul-General	S. Gylseth.	
NORWAY		Vice-Consul	C. Gylseth.	
	Cochin	Vice-Consul (Ag.)	B. Larsen.	P.B. No. 137, Ernakulam.
NORWAY	Madras	Consul	J. R. Galloway.	Post Box No. 42, Madras.

* Jurisdiction extends to Nenal also

Country.	Station.	Designation.	Name.	Address.
PANAMA	Bombay	In charge of the Consulate General	Alotelo Da Cruz.	Imperial Chambers, Wilson Road, Ballard Estate, Bombay 1. (Tel. No. 282125).
PHILIPPINES	Bombay	Hon. Consul	Lt.-Col. J. D. Kothawala, J.P.	Polson Bldg., 65B, Dockyard Road, Bombay 10.
PERU	Calcutta	Chancellor Consul-General	K. M. Dastur, B.A. Carlos A. Farje B.	Room 204, Great Eastern Hotel, Calcutta 1.
SPAIN	Bombay	Consul-General	J. Paniego Ecay.	"Oceana", 153, Marine Drive, Churchgate Reclamation, Bombay.
	Calcutta	Vice-Consul	Pritindra Nath Ray Chowdury.	10, Old Post Office Street, Calcutta.
	Madras	Vice-Consul	Gilbert Augustine Pais.	"Lawdale", 5, Nimmo Road, San Thome, Mylapore, Madras.
SWEDEN	Bombay	Consul-General	S. G. Gothberg.	Indian Mercantile Chambers, Nicol Road, Ballard Estate, Bombay.
	Calcutta	Vice-Consul	T. Knutsson.	7, Wellesley Place, Calcutta.
	Madras	Consul-General	W. Tham.	38C, Mount Road, Madras 6.
SWITZERLAND	Madras	Ag. Consul	M. J. Callow.	Manekji Wadia Building, 125, Mahatma Gandhi Road, Fort, Bombay.
	Bombay	Consul-General	J. Piffaretti.	
	Calcutta	Vice-Consul	J. P. Saurer.	16, Old Court House Street, Calcutta.
		Consul	M. Breuleux.	C/o Volkart Brothers, P.O. Box No. 8, Cochin.
	Cochin	Consular Agent	F. Wieser.	C/o Binny & Co. Ltd., P. Box No. 66, Madras.
	Madras	Consular Agent	R. D. Walter.	1, Moore Avenue, Tollygunge, Calcutta 40.
THAILAND	Calcutta	In charge of the Consulate-General.	Boonrad Santipitaks.	208, Dinshaw Wachha Road, Backbay Reclamation, (Telephone Office: 245377).
TURKEY	Bombay	Consul-General	Rahim Karim Mistry.	Cambatta Building, 124D, Queen's Road, Churchgate Reclamation, Bombay.
UNITED ARAB REPUBLIC.	Bombay	Consul-General	Abd El Moneim El Naggar.	"Lincoln House", Bhulabhai Desai Road, Bombay 26.
UNITED STATES OF AMERICA.	Bombay	Consul-General	William T. Turner.	
		Consul	Leslie C. Tihany.	
		Consul	Daniel P. Oleksiw.	
		Consul	Robert J. Barnard.	
		Consul	Joyce R. Hermann.	
		Consul	Onesime L. Piette.	
		Consul	Harold G. Tufty.	
		Consul	M. Marbury Edmenco.	
		Consul	Michael C. Capraro.	
		Vice-Consul	Spiros A. Blafacas.	
		Vice-Consul	Charles W. Bass.	
		Vice-Consul	Craig Baxter.	
		Vice-Consul	R. Harden Smith.	
		Vice-Consul	John L. Offner.	
	Calcutta	Consul-General	Gordon H. Mattison.	5/1, Harrington Street, Calcutta 16.
		Consul (Executive Officer)	Bruce Butties.	
		Consul (Administrative Officer)	Daniel L. Williamson.	
		Consul (Economic Officer)	James J. Blake.	
		Consul (Consular Officer)	Frank D. Collins.	
		Consul (Pub. Affairs Officer)	Chester R. Chartrand.	
		Consul (Pol. Officer)	Charles W. Naas.	
	Madras	Consul-General	Dr. Thomas W. Simons.	150-B, Mount Road, Madras 2.
		Public Affairs Officer	John Wiggins.	
U.S.S.R.	Bombay	Consul-General	Nicolay Y. Tarakanov.	"Palm Beach", 42, Nepean Sea Road, Malabar Hill, Bombay-6.
		Vice-Consul	Sergei S. Boudnik.	
		Vice-Consul	Igor M. Kompantsev.	
		Vice-Consul	Sergei A. Bulygin.	
		Secretary	Grigori S. Karpov.	
	Calcutta	Consul-General	Mikhail F. Tcherkassov.	81, Theatre Road, Calcutta.
		Consul	V. B. Koshelev.	
		Vice-Consul	Anatoli V. Borodin.	
		Consul-General	Nguyen-co-Thach.	62, Golf Links Area, New Delhi (Tel. No. 43200).
VIET-NAM (DEMOCRATIC REPUBLIC OF).	New Delhi	Consul	Dinh-nho-Liem.	
		Consul (Commercial)	Nguyen-Dai.	
VIET-NAM (REPUBLIC OF).	New Delhi	Consul-General and Minister	Do Yang Ly.	"Vietnam House", 24, Prithvi-raj Road, New Delhi.
		Consular Affairs	Huynh Huu Luan.	
		Public Relations.	Hoang Van Chi.	
YUGOSLAVIA (FEDERAL PEOPLE'S REPUBLIC OF).	Bombay	Ag. Consul	D. Kontic.	120, Dinshaw Wachha Road, Churchgate Reclamation, Bombay 1.

U. N. BODIES IN INDIA

UNITED NATIONS INFORMATION CENTRE FOR INDIA, BURMA, CEYLON AND NEPAL

Address:—21, Curzon Road, New Delhi.
Dissemination of objective information on the aims and activities of the United Nations through all information media is the main function of the New Delhi Centre of the United Nations.

Director: Eugenio Solar-Alonso.
Deputy Director: Fumendu Basu.
Regional Radio Officer: Mrs. Ma-Thao-Bend.

U. N. CHILDREN'S FUND (UNICEF)

Address:—Area Office for India, Afghanistan and Ceylon UNICEF House, 11, Jorbagh, New Delhi.

Ever since UNICEF became a permanent body of U.N. Organization in 1953, its principal objective has been the furtherance of mother and child health through long range programmes e.g., giving equipment to Primary Health Centres in Community Development Blocks, improving nutrition through Milk Plants etc. UNICEF assistance is requested by the Governments concerned and the UNICEF Executive Board consisting of 30 States meets twice a year to consider these requests.

Chief of Area Office: T. G. Davies.

Field Representatives: C. Kondapi, Poul Larsen, Alan E. McElin, Stein Moss, M. Ali Rashti, Y. H. Rivallie, H. L. Shapiro, Food Conservation Engineer, A. R. Lucas (New Delhi).

International Labour Office (India Office): Mandi House, New Delhi.

The Branch Office was established in 1928. It maintains close relations with the Government authorities, and employers' and workers' organizations, and acts as a clearing house of information on questions concerning labour and social policy.

It publishes every month a "News Service" in English and Hindi, dealing with the current activities of the International Labour Organisation. It also issues from time to time a Bulletin containing digests of important documents and studies of the I.L.O. The Office has also a good reference library. It also undertakes the sale of I.L.O. publications.

Director: V. K. B. Menon.

United Nations Educational, Scientific and Cultural Organisation: South Asia Science Co-operation Office: 21, Curzon Road, New Delhi.

Director: W. J. Ellis.

Deputy Director: Rudolf H. Fritsch.

FAO Regional Office for Asia and the Far East (Western Zone)—Ceylon, India and Nepal.

21, Curzon Road, New Delhi 1.

Deputy Regional Representative: K. A. Bennett.

Information Officer: T. A. Venkatraman.

World Health Organisation Regional Office for South-East Asia: Patiala House, Princess Park, New Delhi.

Regional Director: Dr. C. Mani.

Director, Office of Health Services: Dr. L. Bernard.

Chief, Office of Administration & Finance: A. G. B. Sutherland.

Regional Public Health Administrator: Dr. L. G. Eddy.

Regional Public Health Administrator: Dr. R. H. Bland.

Regional Public Health Administrator: Dr. R. H. Richards.

TRADE COMMISSIONS

(See next page)

WAGE SCALES FOR JOURNALISTS

The Government of India accepted, with certain minor modifications, the recommendations of the Wage Committee for Working Journalists regarding fixation of rates of wages for journalists—May 29, 1959.

Below we give the main points of the recommendations. Minor qualifications to the major recommendations are omitted.

Daily newspapers should (special clauses refer to multiple units, chains, advertisement and circulation revenue) be classified under six classes:

Class A Rs. 50 lakhs and above; B Rs. 25 lakhs and above, but less than Rs. 50 lakhs; C Rs. 12½ lakhs and above, but less than Rs. 25 lakhs; D Rs. 5 lakhs and above, but less than Rs. 12½ lakhs; E Rs. 2½ lakhs and above, but less than Rs. 5 lakhs; F less than Rs. 2½ lakhs.

Weeklies should be classified on the basis of their gross revenues as follows:

Class	Gross Revenue
I	Rs. 12½ lakhs and above.
II	Rs. 5 lakhs and above, but less than Rs. 12½ lakhs.
III	Rs. 1 lakh and above, but less than Rs. 5 lakhs.
IV	Below Rs. 1 lakh.

News agencies should be classified on the basis of their gross revenue as follows:

Class	Gross Revenue
I	Rs. 25 lakhs and above.
II	Rs. 10 lakhs and above, but less than Rs. 25 lakhs.
III	Below Rs. 10 lakhs.

For the purpose of payment of dearness allowance to full-time employees and monthly retainer to part-time employees, areas should be classified as follows:

Area I.—Metropolitan cities.
Area II.—Towns with a population of over 5 lakhs but excluding metropolitan cities.
Area III.—Other places.

CATEGORIES

Working journalists employed in newspaper establishments should be grouped as follows:

I. Full-time employees:

(a) In Newspapers:

Group 1 Category Editor.

II.—(i) Assistant Editor, (ii) Leader Writer,

(iii) News Editor, (iv) Special Correspondent.

IIA.—(i) Chief Sub-Editor, (ii) Chief Reporter,

(iii) Principal Correspondent in a metropolitan

centre accredited to a State Government, (iv)

Correspondent accredited to the central Govern-

ment other than a Special Correspondent.

III.—(i) Sub-Editor, (ii) Reporter, (iii) Correspondent, (iv) All working journalists other than those mentioned under any other group unless placed higher by the establishment.

IV.—Proof Reader.

(b) In News Agencies: (i) Class I News Agency.

Group I Category General Manager or Editor.
I-A (i) Chief News Editor, (ii) Person in charge of the Principal bureau in a metropolitan centre.

II.—(i) News Editor (Indian News), (ii) News Editor (Foreign News), (iii) News Editor (Commercial News), (iv) Special Correspondent, (v) Person in charge of the principal news bureau in a State other than in a metropolitan centre.

II-A.—(i) Senior Correspondent, (ii) Chief Reporter, (iii) Chief Sub-Editor.

III.—(i) Reporter, (ii) Correspondent, (iii) Sub-Editor, (iv) Person in charge of a news bureau other than mentioned above, (v) All working journalists other than those mentioned under any other group unless placed higher by the establishment.

(i) Classes 2 and 3 News Agencies.

Group I Category General Manager or Editor.

II.—(i) Assistant Editor, (ii) News Editor,

(iii) Special Correspondent.

II-A.—(i) Senior Correspondent, (ii) Chief Reporter, (iii) Chief Sub-Editor.

III.—(i) Sub-Editor, (ii) Reporter, (iii) All working journalists other than those mentioned under any other group unless placed higher by the establishment.

DAILIES

For A class newspapers: I. No Scale; II. Rs. 600-50-1,000 (8 years); II-A. Rs. 600-30-650-50-900 (10 years); III. Rs. 250-25-450-30-600-40-800 (18 years); IV. Rs. 100-5-120-7½-150-10-200-15-300 (16 years).

For B class papers: I. No Scale; II. Rs. 500-30-650-50-900 (10 years); II-A. Rs. 400-25-600-40-800 (13 years); III. Rs. 175-20-375-25-600 (19 years); IV. Rs. 100-5-120-7½-150-10-200-15-300 (18 years).

For C class papers: I. No Scale; II. Rs. 400-20-500-25-650 (11 years); II-A. Rs. 350-20-450-25-600 (11 years); III. Rs. 150-15-300-20-500 (20 years); IV. Rs. 80-5-160-7½-160-10-200 (18 years).

For D class papers: I. No scale; II. Rs. 200-15-350-25-450 (14 years); II-A. Rs. 175-15-325-25-400 (13 years); III. Rs. 125-7½-200-10-210-15-300 (17 years); IV. Rs. 75-5-125-7½-170 (16 years).

For E class papers: I. No Scale; II. Rs. 150-15-225-25-325 (9 years); II-A. Rs. 125-15-200-25-300 (9 years); III. Rs. 100-5-150-10-200-12½-225 (17 years); IV. Rs. 70-5-140 (14 years).

For F class papers: I. No Scale; II. Rs. 125-10-175-12½-200 (7 years); II-A. Rs. 100-10-180 (8 years); III. Rs. 80-5-150 (14 years); IV. Rs. 65-5-120 (11 years).

WEEKLIES

I class weekly: I. No Scale; II. Rs. 400-20-500-25-650 (11 years); III. Rs. 150-15-300-20-500 (20 years); IV. Rs. 80-5-180-7½-160-10-200 (18 years).

II class weekly: I. No Scale; II. Rs. 200-15-350-25-450 (14 years); III. Rs. 125-7½-200-10-210-15-300 (17 years); IV. Rs. 75-5-125-7½-170 (16 years).

III class weekly: I. No Scale; II. Rs. 150-15-225-25-325 (9 years); III. Rs. 100-5-150-10-200-12½-225 (17 years); IV. Rs. 70-5-140 (14 years).

For IV class weekly: I. No Scale; II. Rs. 125-10-175-12½-200 (7 years); III. Rs. 80-5-150 (14 years); IV. Rs. 65-5-120 (11 years).

NEWS AGENCIES

1st Class: I. No Scale; I-A No Scale; II. Rs. 500-30-650-50-900 (10 years); II-A. Rs. 400-25-600-40-800 (13 years); III. Rs. 175-20-375-25-600 (19 years).

2nd Class: I. No Scale; II. Rs. 400-20-500-25-650 (11 years); II-A. Rs. 350-20-450-25-600 (11 years); III. Rs. 150-15-300-20-500 (20 years).

3rd Class: I. No Scale; II. Rs. 150-15-225-25-325 (9 years); II-A. Rs. 125-15-200-25-300 (9 years); III. Rs. 100-5-150-10-200-12½-225 (17 years).

DEARNESS ALLOWANCE

Range of basic pay: Rs. 65-100 Area I Rs. 50, Area II Rs. 40, Area III Rs. 30; Rs. 101-200 Rs. 60, Rs. 50, Rs. 40; Rs. 201-300 Rs. 70, Rs. 60, Rs. 50, Rs. 301-400 Rs. 80, Rs. 70, Rs. 60; Rs. 401-500 Rs. 90, Rs. 80, Rs. 70; Rs. 501-750 Rs. 105, Rs. 95, Rs. 85; Rs. 751 and above Rs. 120 Rs. 110, Rs. 100.

Part-time correspondents should be paid a monthly retainer. A class daily, area I Rs. 100, Area II Rs. 75, Area III 25; B class daily and I class news agency Rs. 75, Rs. 50, Rs. 20; C class daily and class 2 agency Rs. 50, Rs. 40, Rs. 15; D class daily Rs. 40, Rs. 30, Rs. 15; E class daily and class 3 agency Rs. 25, Rs. 20, Rs. 10; F class daily Rs. 25, Rs. 15, Rs. 10.

TRADE COMMISSIONS

UNITED KINGDOM

Delhi:—H. Bailey, United Kingdom Senior Trade Commissioner in India and Economic Adviser to the U.K. High Commissioner.
R. R. D. McIntosh, U. K. Trade Commissioner, at New Delhi. **W. Nicoll**, U. K. Trade Commissioner.

H. O'Brien, U. K. Trade Commissioner.
Address: Eastern House, Man Singh Road, New Delhi 2.

Telegrams: "TRADCOM".
Calcutta:—G. W. Brasendale, C.M.G., U. K. Trade Commissioner in Charge at Calcutta.
R. H. Edmondson, U. K. Trade Commissioner.
Address: 1, Harrington Street, Calcutta 16.

Telegrams: "TRADCOM".
Bombay:—C. H. Baylis, U. K. Trade Commissioner in Charge at Bombay.
F. F. D. Ward, U. K. Trade Commissioner.
Address: Mercantile Bank Building, Mahatma Gandhi Rd., Fort, Bombay.

Telegrams: "TRADCOM".
Madras:—L. A. C. News, U. K. Trade Commissioner.

Address: 2, Armenian Street, Madras 1.
Telegrams: "BRITRACOM".

AUSTRALIA

New Delhi:—F. R. Gullick, Commercial Counsellor and Senior Trade Commissioner.
Address: Connaught Place, New Delhi, P.O. Box 254.

Bombay:—D. R. McPhee, O.B.E., E.D., Trade Commissioner.

Address: Mercantile Bank Building, 52/56, Mahatma Gandhi Road, Bombay, P.O. Box 217.
Calcutta:—J. L. Chapman, Trade Commissioner.

Address: 2, Fairlie Place, Calcutta, P.O. Box 308.

CANADA

New Delhi:—Bruce A. MacDonald, Commercial Counsellor.

Address: Office of the High Commissioner for Canada, 4, Aurangzeb Road, P.O. Box 11.
Cable Address: "CANADIAN".

Bombay:—G. A. Gilbert, Trade Commissioner.
Address: Gresham Assurance House, Mint Road, P.O. Box 886. **Cable:** "CANADIAN".

CEYLON

Ceylon Trade Commissioner, Bombay: A. M. Jayaninba.

Ceylon House, Bruce Street, Fort, Bombay.

JAMMU AND KASHMIR

Trade Agent: Dr. S. S. Nishat.
Address: Manekji Wadia Building, 129, Mahatma Gandhi Road, Bombay 1.

Trade Commissioner, 5, Prithviraj Road, New Delhi; S. Amar Singh.

Trade Agent, Kashmir House, Court Road, Amritsar; Mani Ram.

Trade Agent, Pathankot: D. N. Kachroo.

NEW ZEALAND

Trade Commissioner in India: R. T. C. de Lambert.

Address: Office of the High Commissioner for New Zealand, 10, Janpath, New Delhi 11.
Telegraphic Address: "PUKATEA".

AFGHANISTAN

Commercial Attaché, Royal Afghan Consulate-General: M. S. Kazini. (Tel. No. 40877).

Address: 115, Walkeshwar Road, Bombay 6.

AUSTRIA

Austrian Trade Representative in India: Robert Schmidt.

Address: Queen's Mansions, Bastion Road, Bombay, P. O. Box 1385. **Telephone:** 263483.

BELGIUM

Consulate General for Belgium with Jurisdiction over commercial matters.

Bombay: **Consul-General:** F. Standaert.
Vice-Consul: Th. De Greeff.

"Morena", 11, Carmichael Road, Cumballa Hill, Bombay 26. **Telephone:** 41824. **Telegrams:** BELSULAT.

Calcutta: **Consul-General:** W. Labeye.
6, Camac Street, Calcutta. **Telephone:** 443886. **Telegrams:** BELSULAT.

BULGARIA

Trade Representation of the People's Republic of Bulgaria in India:
Address: 200, Golf Links Area, New Delhi 3.
Cable: "BULTARG", New Delhi and Bombay.

Liaison Officer: Raja Bahadur Mansion, 45, Tamarind Lane, Bombay 1.

CZECHOSLOVAKIA

Commercial Counsellor & Trade Representative, L. J. Pral.

Commercial Attaché, Deputy Trade Representative: R. Stolar.

Address: 65, Golf Links Area, New Delhi 3.
Trade Commissioner: J. U. Jaks.

Address: Kasturi Bldg., Jamshedji Tata Road, Bombay 1.

Trade Commissioner: J. Krumel.
Address: P-38, Mission Row Extn., Calcutta 13.

Dy. Trade Commissioner: F. Valent.
Address: 11, Ruthland Gate, 4th Street, Madras.

DENMARK

Trade Commissioner: K. Packness.
Address: Pallonji Mansion, New Cuffe Parade, Colaba, Bombay 5. **Tel.:** 211854.

Grams: "Dautracom".

FINLAND

Trade Commissioner: Ragnwald Sippel.
Address:—Chartered Bank Building, Mahatma Gandhi Road, P.O. Box 73, Bombay 1.

FRANCE

New Delhi:—The Commercial Counsellor to the French Embassy, 63, Cornwallis Road.

Bombay:—The Trade Commissioner for France, "Adelphi", 4th Floor, 3, Queen's Road.

Calcutta:—The Trade Commissioner for France, 13, Park Mansions, Park Street.

Madras:—The Trade Commissioner for France, 4, Lamech Avenue, Off Spur Tank Road, Chetput.

GERMAN DEMOCRATIC REPUBLIC

Trade Representation:
Head Office: New Delhi—23, Curzon Road.

E. Rennchen, Trade Representative.
Branch Office, Bombay: 122, Dinshaw Wacha Road, C. Fabian, Dy. Trade Representative.

Branch Office, Calcutta: P 17, Mission Row Extension, O. Voelker, Dy. Trade Representative.

Branch Office, Madras: 4-A, Valliammal Road, Vepery, H. Schneider, Dy. Trade Representative.

GERMANY (FEDERAL REPUBLIC)

Chief Economic Officer: Consul Ernst Kunlach.

Deputy Economic Officer: Vice-Consul Heiny Scheitherr.

Assistant Economic Officer: E. Vogeler.
Address: Ruel Mansion, 29, Wodehouse Road, Fort, Bombay 1.

HUNGARY

Trade Commission of the Hungarian People's Republic:

Deputy Trade Commissioner: T. Laszlo (In-charge of Office).

Address: 45, Cuffe Parade, Bombay 5.

Trade Representative of the Hungarian People's Republic in India: O. Kallos.

Address: 18, Golf Links Area, New Delhi.

INDONESIA

Consul for Indonesia: Dr. Soepardi.
Address: "Lincoln Annex", 17, Altamont Road, Cumballa Hill, Bombay 26.

ISRAEL

Consul for Israel: A. Caspi.
Address: "Kallas", 60, Pedder Road, Bombay 26.

ITALY

Consul for Italy with Jurisdiction over Commercial matters: Dr. Vittorio Lavison.

Address: Vaswani Mansion, Dinshaw Wacha Road, Fort, Bombay 1.

Telephone: 245177.

Commercial Counsellor, New Delhi: Dr. Ernesto Toti Lombardozzi.

Address: Italian Embassy, Commercial Section, 7, Jor Bagh, New Delhi 3.

Consul-General (Commercial): Dr. Ettore Di Vittorio.

Address: 3, Raja Santosh Road, Alipore, Calcutta.

Italian Trade Commissioner: Dr. Giovanni Curto, 10, Esplanade Mansions, Calcutta.

JAPAN

Consul General: Takuro Ozawa.

Vice-Consul: Yoshifumi Ito.

Vice-Consul: Toyozane Macda.

Vice-Consul: Masahiro Sasaki.

Asst. Attaché: Ryushi Falto.

Address: "White House", 91, Walkeshwar Road, Bombay 6.

NETHERLANDS

Consulate-General of the Netherlands:

Consul-General: J. Van der Gaag.

Vice-Consul: J. J. Derksen.

Address: 298, Bazargate Street, Fort, Bombay.

NORWAY

Address: Royal Norwegian Consulate-General, Imperial Chambers, Wilson Road, Ballard Estate, Bombay.

PANAMA

Trade Commissioner: Olmedo E. Arias.

Alonzo Da Cruz, First Secretary.

Address: 9, Imperial Chambers, Wilson Road, Ballard Estate, Bombay 1. (Tel. No. 262125).

POLAND

New Delhi:—Commercial Counsellor: J. Drobot.

Address: 42/44, Sundar Nagar, New Delhi.

Bombay:—Trade Representative: Z. Bohrowicz.

Address: 40/A, Pedder Road, Bombay 26.

Calcutta:—Trade Representative: W. Miklaszko.

Address: 28, Stephen Court, 18/A, Park Street, Calcutta 10.

RUMANIA

Trade Representative of the Rumanian People's Republic in India: D. Niculescu, Commercial

Counsellor to the Embassy of the Rumanian People's Republic, 61, Golf Links Area, New Delhi.

Deputy Trade Representative of the Rumanian People's Republic in India: C. Radulescu, Steel-

croft House, Dinshaw Wacha Road, Churchgate Reclamation, Bombay 1.

SPAIN

Spanish Trade Commissioner: Emilio Llorens Lopez.

Address: Spanish Consulate, "Mistry Court," Dinshaw Wacha Road, Churchgate

Reclamation, Bombay 1.

SWEDEN

Trade Commissioner for Sweden: G. Ekholm.

Address: Shangri La, Carmichael Road, Bombay 26.

Calcutta: Stellan Peterson, 7, Wellesley Place.

SWITZERLAND

Swiss Trade Commissioner: Dr. R. W. Dutschler.

Secretary to the Swiss Trade Commissioner: F. Schraner.

Address: Gresham Assurance House, Sir Phirozejeeb Mehta Road, Fort, Bombay. P. O. Box 102. **Telegrams:** "SWISSTRADE", Phone: 253084.

UNITED ARAB REPUBLIC

Commercial Counsellor to the Government of United Arab Republic in India.

Address: 6, Ratendone Road, New Delhi.

U.S.A.

Economic Section.

Address: American Consulate General, "Lincoln House," 78, Bhulabhai Desai Road, Bombay 26.

U.S.S.R.

Trade Representation of U.S.S.R. House 21, Block 48, Panch Sheel Marg, Chanakyapuri, New Delhi 2. **Cables:** "Vneshtorg", New Delhi.

Calcutta Branch and Calcutta Showrooms of the U.S.S.R. Machinery and Equipment: 1, Bishop Lefroy Road (Larger Bldg.), Calcutta 20. **Cables:** "Vneshtorg", Calcutta.

Bombay Branch: "Avantika", 46, Pedder Road, Bombay 26. **Cables:** "Vneshtorg", Bombay.

Bombay Showrooms of the U.S.S.R. Machinery and Equipment: Vasundhara House, Bhulabhai Desai Road, Bombay 26.

GENERAL ELECTIONS (1957)

TABLES

Below we give statistical tables—official—showing particulars about the 1957 general election returns.

LOK SABHA

General Elections

Below we give particulars about the votes polled in the 1957 elections to the Lok Sabha.

States	Seats	Electorate	Uncontested gains	Valid votes polled	Percentage of valid votes
Andhra Pradesh*	43	17,668,716	4	9,531,373	42.99
Assam	12	4,495,359	2	2,292,612	46.14
Bihar*	53	19,514,567	2	10,007,876	42.01
Bombay*	66	24,454,672	—	16,760,285	54.00
Kerala	18	7,514,626	—	6,050,246	66.04
Madhya Pradesh	36	14,010,137	1	7,614,222	36.77
Madras*	41	17,514,993	1	10,950,841	47.75
Mysore	26	10,006,926	2	5,798,140	52.58
Orissa	20	7,983,915	—	4,440,490	34.88
Punjab*	22	9,208,028	—	7,183,830	53.76
Rajasthan*	22	8,745,726	—	4,619,093	39.00
Uttar Pradesh	86	34,901,603	—	22,896,103	46.02
West Bengal	36	15,216,532	—	10,440,100	47.67
Delhi*	5	976,352	—	811,344	57.29
Himachal Pradesh	4	671,006	—	362,641	36.52
Manipur*	2	330,211	—	174,001	52.72
Tripura	2	432,902	—	550,338	63.56
Total	494	193,652,069	12	120,513,915	46.60

* Votes polled by postal ballot have not been included in the table. Figures excluded are : Andhra Pradesh 2,536 ; Bihar 895 ; Bombay 15,158 ; Madras 15,713 ; Punjab 15,318 ; Rajasthan 1,243 ; West Bengal 4,315 ; Delhi 5,556 ; Manipur 130 ; Tripura 734.

Party Position

Below we show the party position in the Lok Sabha arising from the 1957 general elections.

States	Congress		P.S.P.		Communist		Jan Sangh		Other Parties and Independents		Total	
	Candidates	Returned	Candidates	Returned	Candidates	Returned	Candidates	Returned	Candidates	Returned	Candidates	Returned
Andhra Pradesh	43	37	6	—	11	2	1	—	55	4	116	43
Assam	12	9	7	—	3	—	—	—	—	1	31	12
Bihar	51	41	41	—	13	—	2	—	88	10	195	53
Bombay	66	38	17	5	6	4	—	2	69	17	166	66
Kerala	17	6	9	1	15	9	—	—	19	2	60	18
Madhya Pradesh	36	35	22	—	1	—	21	—	45	1	125	36
Madras	41	31	7	—	13	2	—	—	93	8	154	41
Mysore	26	23	12	1	1	—	5	—	20	2	64	26
Orissa	20	7	6	—	5	1	—	—	26	10	57	20
Punjab	22	21	3	—	11	1	16	—	33	—	85	22
Rajasthan	22	10	2	—	3	—	8	—	44	3	79	22
Uttar Pradesh	86	70	52	4	7	1	61	2	88	9	295	86
West Bengal	35	23	6	2	14	0	5	—	41	5	101	36
Delhi	5	5	1	—	1	—	—	—	18	—	30	5
Himachal Pradesh	4	4	1	—	2	—	1	—	10	—	18	4
Manipur	2	1	2	—	1	—	—	—	6	1	11	2
Tripura	2	1	—	—	2	1	—	—	3	—	7	2
Total	490	371	104	19	109	27	133	4	667	73	1,594	494

CALENDAR

The second General Elections started on 24th Feb., 1957 and ended on July 15. The first States to go to the polls were Orissa and the Punjab and the last was the Union Territory of Himachal Pradesh where the elections began on 24th May and ended on 7th June. In this last mentioned State the elections began long after they ended elsewhere (March 14) because of heavy snow during the earlier part of the year. Almost all election returns were reported by the 31st of March.

Below we give the Calendar of the elections : Andhra : February 25, March 1, 4, 7 and 11. (In Andhra Pradesh, the Assembly elections were confined to the Telangana area and the Prodattur and Bhadrachalam constituencies of the old Andhra State).

Assam : February 25, March 2, 6, 9, 10, 11 and 15.

Manipur : February 25, March 2 and 11.

Bihar : February 25, 26, 28, March 1 to 12.

Bombay : February 25, March 2, 6 and 11.

Kerala : February 28, March 2, 5, 7, 9 and 11.

Madras : March 1, 4, 6, 8 and 11.

Madhya Pradesh : February 25, 28, March 1-10.

Mysore : February 25, 26, 28, March 1-12.

Orissa : February 24, 25, 28, March 1-9, 11 and 12.

Punjab : February 24, 26, 28, March 1-14. (Polling in the snowbound areas of Kangra was held on June 2, 4, 6, 8, 10, 11, 14, 16, 20 and 25 and July 2, 15).

Himachal Pradesh : Owing to heavy snow, polling was delayed. It began on May 24 and ended on June 7, May 24, 31 and June 1 to 7.

Rajasthan : February 25, 27, 28, March 1-9, 11 and 12.

Uttar Pradesh : February 25, 28, March 3, 6, 9 and 12.

West Bengal : March 1-14.

Delhi : March 3.

Tripura : March 1, 5, 9 and 12 March.

The polling for the Presidentialship took place on the 6th of May, and the result was declared on the 10th. Five candidates filed their nomination papers. The nomination papers of two were rejected. The three candidates who contested the election were Dr. Rajendra Prasad (Rashtrapati Bhawan, New Delhi), Mr. Nagendra Narayan Das (Gauhati, Assam), and Chowdhury Hari Ram (Rohtak, Punjab).

The result of the poll was as follows :

Dr. Prasad—4,59,698 ; Mr. Das—2,000 ; Chowdhury Hari Ram 1,498.

For the Vice-Presidentialship the poll was to take place on 11th May. But as Dr. S. Radhakrishnan was the only candidate he was declared elected on 23rd April.

A point of some legal interest was that at the time of the Presidential election the Parliamentary constituencies in Himachal and Kangra in the Punjab had not completed the election to the Lok Sabha. The Kulu Assembly constituency had also not completed its election to the Punjab Assembly. A constitutional doubt was raised. But the view eventually taken was that in view of the provisions of sec. 73 of the Representation of the People Act the election was perfectly valid.

FACTS AND FIGURES

The total number of voters enrolled in 1956 in the whole country (excluding Jammu and Kashmir and Andaman and Nicobar Islands) was over 193 millions (193,652,069. Women voters : 92,141,597 or 94 per cent of adult women). The estimated total population of the country,

(Continued in Col. 3 next page)

Votes Polled

Below we give the number of votes polled by parties in the 1957 general election to the Lok Sabha.

States	Congress		P.S.P.		Communist		Jan Sangh		Others	
	Votes polled	Percentage of total	Votes polled	Percentage of total	Votes polled	Percentage of total	Votes polled	Percentage of total	Votes polled	Percentage of total
Andhra Pradesh	4,906,044	51.47	345,418	3.63	1,144,811	12.01	3,769	0.04	3,131,331	32.85
Assam	1,184,708	51.68	487,643	20.00	235,044	10.24	—	—	415,217	18.10
Bihar	4,450,208	44.47	2,165,462	21.64	502,707	5.20	7,973	0.08	2,881,526	28.79
Bombay	8,156,272	48.66	1,457,203	8.66	1,055,013	6.30	566,008	3.38	5,525,789	33.00
Kerala	2,102,887	34.75	438,459	7.24	2,287,888	37.48	—	—	1,241,012	20.50
Madhya Pradesh	3,967,190	52.10	1,225,735	16.10	31,424	0.41	1,082,936	13.96	1,326,928	17.43
Madras	5,084,552	46.52	399,789	3.65	1,101,338	10.06	—	—	4,355,162	39.77
Mysore	3,219,014	55.52	1,082,698	18.67	85,373	1.47	143,606	2.48	1,287,749	21.86
Orissa	1,776,787	40.01	684,023	15.40	214,903	4.84	—	—	1,784,797	39.74
Punjab	3,682,219	51.25	41,285	0.57	1,207,600	16.81	1,152,672	16.04	1,100,054	15.30
Rajasthan	2,494,094	53.60	58,916	1.30	223,416	4.80	518,355	11.10	1,354,302	29.20
Uttar Pradesh	10,599,639	46.29	3,511,157	15.34	383,509	1.67	3,985,247	14.79	5,016,551	21.91
West Bengal	5,031,696	48.20	590,692	5.66	1,985,181	19.01	149,351	1.43	2,683,180	25.70
Delhi	440,775	54.32	28,656	3.53	38,236	4.71	159,907	19.72	143,770	17.72
Himachal Pradesh	171,591	47.30	42,838	11.80	9,912	2.80	—	—	138,800	38.10
Manipur	48,687	27.96	12,692	7.29	19,298	11.08	—	—	93,414	53.65
Tripura	253,241	46.01	—	—	248,442	45.31	—	—	48,675	8.84
Total	57,579,593	47.78	12,542,666	10.41	10,754,075	8.92	7,149,824	5.93	32,487,757	26.96

STATE ASSEMBLIES

Below we give particulars about the votes polled in the general elections of 1957 to the State Assemblies.

States	Seats	Electorate	Uncontested Gains	Valid votes polled	Percentage of valid votes
Andhra†	105*	5,561,345	4	3,603,585	48.71
Assam	108	4,495,359	7	2,523,970	47.01
Bihar†	318	19,514,567	—	10,585,421	40.89
Bombay†	396	24,458,672	3	18,712,160	53.47
Kerala	126	7,514,626	1	5,837,577	65.95
Madhya Pradesh	228	14,010,137	9	7,408,768	36.90
Madras†	205	17,514,993	3	11,130,996	46.94
Mysore	208	10,006,926	8	6,420,159	52.33
Orissa	140	7,983,975	1	4,255,915	34.29
Punjab†	154	9,208,926	1	7,603,890	58.02
Rajasthan†	176	8,745,726	5	4,746,461	38.68
Uttar Pradesh	430	34,901,603	5	21,918,606	44.92
West Bengal†	252	15,216,532	1	10,469,803	47.73
Total	2,906	179,133,387	48	113,217,311	46.49

* Only Telangana area of Andhra Pradesh went to the polls. † Votes polled by postal ballot have not been included in the table. The figures excluded are: Andhra Pradesh 735; Bihar 1,190; Bombay 16,219; Madras 21,954; Punjab 14,797; Rajasthan 1,370; West Bengal 4,720.

Party Position

Below we show the number of candidates put up by the various parties for the Assemblies and the number of seats won in the general elections of 1957.

States	Congress		P.S.P.		Communist		Jan Sangh		Others		Total	
	Candidates	Returned	Candidates	Returned	Candidates	Returned	Candidates	Returned	Candidates	Returned	Candidates	Returned
Andhra Pradesh*	109	68	29	1	—	—	4	—	177	36	319	105
Assam	101	71	36	8	22	4	—	—	163	25	312	108
Bihar	312	210	223	31	61	7	31	—	767	70	1,394	318
Bombay	397	234	100	36	34	13	24	4	591	109	1,146	396
Kerala	124	43	65	9	101	60	—	—	116	14	406	126
Madhya Pradesh	258	232	161	12	25	2	130	10	504	32	1,108	228
Madras	204	151	23	3	55	4	—	—	602	45	887	205
Mysore	208	151	78	18	20	—	21	—	282	39	599	208
Orissa	140	56	45	11	43	9	—	—	289	64	517	140
Punjab	164	120	19	1	72	6	73	9	344	18	661	154
Rajasthan	176	119	27	1	24	1	50	6	460	49	737	176
Uttar Pradesh	430	286	283	44	91	9	242	17	733	74	1,759	430
West Bengal	251	152	67	21	108	46	34	—	503	33	958	252
Total	2,894	1,893	1,136	195	654	161	608	46	5,519	611	10,793	2,906

* Only Telangana area of Andhra Pradesh went to the polls.

excluding the above areas, in 1956 was about 384 millions. Thus, about 50.4 per cent of the total population was entered in the electoral rolls or about 96 per cent of the adult population. The percentage of the adult population (persons over 21 years) is estimated at about 51 per cent. The enrolment of voters can thus be claimed to have been almost exhaustive.

The task of organising and carrying through the elections was completed with the whole-hearted co-operation of the electorate, political parties, candidates and Government. In all about 1,166,450 Government servants participated in the election operations in different capacities. Similarly, about 3,63,000 persons who were not Government officials also took part in the work.

1951 and 1957 GENERAL ELECTIONS

	1951-52	1957
Lok Sabha		
No. of seats	489	494
No. of constituencies	401	403
Single member	314	312
Two-member	86	91
Three-member	1	..
No. of contesting candidates	1,874	1,594
Legislative Assemblies		
No. of seats	3,283	3,102
No. of constituencies	2,703	2,518
Single-member	2,124	1,934
Two-member	578	584
Three-member	1	..
No. of contesting candidates	15,361	10,177
Period of Poll	120	19
Total expenditure Rs. 10,45,47,099	5,00,21,786	
Expenditure on each voter	As. 4-8	As. 2-4
Percentage of Poll		
Parliamentary Constituencies	51.07%	47.54%
Assembly Constituencies .. ..	..	49.23%
Number of Polling Stations	1,96,084	2,20,478
		(Private bldgs. 18,379)
Number of ballot boxes	24,73,350	21,00,931
Number of ballot papers	600 million	579,871,000*
Number of Election Petitions	338	472
		(Lok Sabha 59)
Electorate	173 million	198 million

* Cost : Rs. 11,52,506-13-0.

Votes Polled

Below we give the number of votes polled by parties in the general election of 1957 to the Assemblies.

States	Congress		P.S.P.		Communist		Jan Sangh		Other Parties and Independents	
	Votes polled	Percentage	Votes polled	Percentage	Votes polled	Percentage	Votes polled	Percentage	Votes polled	Percentage
Andhra Pradesh*	1,707,364	47.37	203,453	5.64	—	—	5,809	0.16	1,686,959	46.79
Assam	1,321,367	52.35	321,569	12.75	204,342	8.10	—	—	676,692	26.80
Bihar	4,436,145	41.90	1,718,413	16.20	545,577	5.10	108,188	1.10	3,777,098	35.68
Bombay	8,131,604	48.66	1,498,700	8.97	607,383	3.63	280,826	1.66	6,213,647	37.18
Kerala	2,208,251	37.84	628,261	10.76	2,059,547	35.28	—	—	940,518	16.09
Madhya Pradesh	3,691,999	49.83	976,020	13.18	120,549	1.63	733,315	9.89	1,886,885	25.47
Madras	5,046,576	45.84	293,778	2.64	823,582	7.40	—	—	4,967,060	44.82
Mysore	3,343,839	52.08	802,373	14.05	123,403	1.92	86,084	1.37	1,966,480	30.58
Orissa	1,628,187	38.21	442,608	10.39	357,659	8.39	—	—	1,827,561	42.94
Punjab	3,612,709	47.51	94,564	1.25	1,030,898	13.56	654,395	8.60	2,211,324	29.08
Rajasthan	2,141,924	45.20	117,532	2.40	143,547	3.00	263,443	5.52	2,080,015	43.90
Uttar Pradesh	9,298,382	42.42	3,170,865	14.47	840,348	3.83	2,157,883	9.84	6,451,128	29.44
West Bengal	4,880,998	46.14	1,031,392	9.85	1,865,106	17.82	102,477	0.98	2,639,830	25.21
Total	51,400,345	45.49	11,399,428	10.07	8,721,941	7.70	4,372,420	4.03	37,323,177	32.97

* Only Telangana area of Andhra Pradesh went to the polls.

Some other particulars about the 1957 elections:

No. of candidates who filed nomination papers—Lok Sabha 2,281; Assemblies 16,484.

No. of candidates whose nominations were rejected—Lok Sabha 44; Assemblies 361.

No. of nomination papers rejected—Lok Sabha 93; Assemblies 839.

No. of candidates who withdrew their candidature—Lok Sabha 643; Assemblies 5,329.

No. of contesting candidates—Lok Sabha 1,594; Assemblies 10,794.

No. of candidates who retired subsequently—Lok Sabha 75; Assemblies 617.

Cost of temporary structures (27,965) for polling booths—Rs. 17,85,435.

Expenditure

The figures of expenditure on the general election State-wise are as follows (Rs.):

Andhra 72,02,189; Assam 17,05,410; Bihar 62,69,861; Bombay 52,22,384; Kerala 18,47,000; M.P. 34,62,111; Madras 58,86,472; Mysore 34,59,625; Orissa 24,89,293; Punjab 26,15,512; Rajasthan 30,91,464; U.P. 85,37,085; W. Bengal 52,74,021; Delhi 1,75,024; Himachal 3,06,732; Manipur 1,17,850; Tripura 2,59,803.

Total 5,90,21,786.

Out of this an amount of Rs. 21,08,660 was realized through forfeiture of deposits, receipts from sale of rolls, inspection fees, fees for inclusion of names after final publication, and for copying.

The expenditure on the preparation of electoral rolls between 1952-53 and 1956-57 was about Rs. 6 crores. This is shared between the centre and the States on a 50 : 50 basis.

The entire requirements of indelible ink was supplied by the Council of Scientific and Industrial Research. The number of phials used was 3,16,707 as against 3,89,816 in the first elections.

CANDIDATES

The total no. of candidates nominated was 18,765. Out of these 18,392 made the necessary deposits. The total sum deposited for the Lok Sabha was Rs. 10,24,500 and for the Assemblies Rs. 37,25,538.

The position about the forfeiture of deposits was as follows:

For the Lok Sabha 496 candidates forfeited their deposits (Congress 2, P.S.P. 55, Communists 15, Jan Sangh 58, Other parties 40, Independents 326).

For the Assemblies 4,359 candidates forfeited their deposits (Congress 51, P.S.P. 405, Communists 183, Jan Sangh 365, Other parties 218, Independents 3,037).

The number of candidates who incurred disqualification for failure to submit election expenses and of those whose disqualification was removed were as follows:

Lok Sabha 267 and 70; Assemblies 2,562 and 288.

Uncontested returns were:

Lok Sabha 12, all Congressmen (Andhra 4, Assam 2, Bihar 2, Madhya Pradesh 1, Mysore 2, Madras 1).

State Assemblies 48 (43 Congress, 5 Independents)—Andhra 4 Congressmen; Assam 4 Congressmen and 3 others; Bombay 3 Congressmen; Kerala 1 Independent; M.P. 9 Congressmen; Madras 3 Congressmen; Mysore 7 Congress and 1 Independent; Orissa 1 Congressman; The Punjab 1 Congressman; Rajasthan 5 Congressmen; U.P. 5 Congressmen; W. Bengal 1 Congressman.

Twenty-seven women were elected to the Lok Sabha and 195 to the various State Assemblies in the second general elections as compared with 21 and 80 respectively in the first general elections.

Twenty-three women elected to the Lok Sabha belonged to the Congress Party, two to the Communist Party and two to the Chota Nagpur Santhal Parganas Janata Party.

Of those elected to the State Assemblies, 179 belonged to the Congress, four to the Communist Party, one to the People's Democratic Front, two to the Chota Nagpur Santhal Parganas Janata Party, three to the Ganatantra Parishad and the remaining six are Independents.

The Bihar Assembly had 32 women, the largest for any State, followed by Madhya Pradesh with 27, Uttar Pradesh with 26, Bombay with 25 and Mysore with 18.

Seventeen Scheduled Castes and Tribes candidates were elected to general seats.

Of these four were elected to the Lok Sabha (one each in Andhra, Kerala, W. Bengal and Tripura) and 13 to the State Assemblies (one each in Andhra, Bombay, Madras, Orissa and U.P.; two in Assam and three each in Kerala and W. Bengal).

POLL

Some particulars about the poll are given below:

For a parliamentary constituency the highest percentage of polling was 75.68 in Kotayam (Kerala) and the lowest 16.94 at Kangra

(Punjab). For an Assembly constituency the highest was 83.20 in Karad North (Bombay) and the lowest 11.62 at Udaigiri (Orissa).

At 21 polling stations not a single vote was cast.

During the first general election there were 93 cases in which the poll had to be adjourned, in the second the number was 34.

Re-poll was ordered in the first elections at 107 stations because the ballot boxes were damaged. In the 1957 elections re-poll was ordered only in 31 cases. The number of constituencies affected was 22 in six States.

Tendered votes: 58,887 (first elections); 49,422 (second).

The maximum number of contestants for an Assembly seat was 11 in a single-member constituency and 16 in a two-member one, the corresponding figures for Lok Sabha being eight and 11 respectively.

The single-member Assembly constituencies of Gaya in Bihar, Jodhpur City I and Fatehpur in Rajasthan, Chillupur in Uttar Pradesh and Sandeshkhali in West Bengal had 11 candidates each, while the two-member constituencies of Jahanabad in Bihar and Sirsa in the Punjab had each 16 contestants in the field.

In the elections to the Lok Sabha, there were eight contestants in the Rewa (Madhya Pradesh) single-member constituency and 11 in the Nawada (Bihar) two-member constituency.

In the first general elections there were 181 cases of interchange of ballot boxes and 692 cases of interchange of ballot papers. A re-poll was ordered in 43 cases.

In the second general elections there were 70 cases of interchange of ballot boxes and 265 cases of interchange of ballot papers. Re-poll was ordered in 11 cases.

No. of electoral offences in connection with the poll: 1,250 (first general elections); 1,000 (second).

There were only two cases in which a contesting candidate died before the commencement of the poll.

There was one constituency in which only one candidate filed nomination papers. He withdrew his candidature before the poll.

The narrowest win—one vote—was at the Galsi constituency in Burdwan Dt. (W. Bengal). Another narrow win—two votes—was at Sirmour in Rewa Dt. (M.P.).

No. of policemen deputed for polling duty: 2,73,762; of village chowkidars: 1,68,281.

The position about election petitions at the end of July 1959 was as follows:

One hundred petitions were awaiting final disposal. Nineteen of these had been referred for further hearing to the High Courts and Supreme Court though Election Tribunals had pronounced judgement on them.

Out of 372 election petitions decided till then 278 were dismissed, 23 withdrawn and three abated because of the petitioner's death. Sixteen others were dismissed by the Election Commission itself on technical grounds. Fifty-two were allowed.

The number of petitions relating to bye-elections held after the last General Elections totalled 11 by the end of July. Two of these have already been dismissed and eight are pending before Tribunals. The remaining one has been admitted by the Election Commission and a tribunal was being constituted to consider it.

The total number of Tribunals set up after the General Elections was 150. Of these 86 had been wound up and 64 were still functioning.

PARTIES, SYMBOLS

The Election Commission recognised four parties at the national level. They were the Congress, the Praja-Socialist Party, the Communist Party and the Jan Sangh. Eleven other parties were recognised at the State level. Besides, more than 30 parties or groups fought the elections on their own or in association with others in different States.

As already mentioned, four parties were recognised as all-India parties:

The Indian National Congress, the Praja Socialist Party, the Communist Party, the Bharatiya Jan Sangh. These parties had the same symbols as in the previous general election. Congress (two bullocks with a yoke), Communists (ears of corn with sickle), P.-S.P. (hut), Jan Sangh (oil lamp with wick).

The State parties and their symbols:

(1) All-India Scheduled Castes Federation (Andhra Pradesh, Bombay, Madhya Pradesh, Mysore, Punjab, Delhi and Himachal Pradesh—Elephant). (2) All-India Forward Bloc—Marxist (West Bengal—standing lion). (3) All-India Gaiatantra Parishad (Orissa—bow and arrow). (4) Akhil Bharat Hindu Mahasabha (Bombay, Madhya Pradesh and West Bengal—horse and rider). (5) Akhil Bha at Ram Rajya Parishad (Bombay, Madhya Pradesh, Rajasthan and Uttar Pradesh—rising sun). (6) Chota Nagpur and Santal Parganas Janata Party (Bihar—cycle). (7) Jharkhand Party (Bihar—cock). (8) Peasants' and Workers' Party (Andhra Pradesh, Bombay and Mysore—art). (9) The People's Democratic Front (Andhra Pradesh—human hand). (10) Revolutionary Socialist Party Kerala—Sledge and stoker). (11) Tripura Gana-tantrik Sangha (Tripura—ladder). (12) Praja Party (Andhra Pradesh—Rising sun).

The standard for recognition as a party was a minimum of three per cent of the valid votes polled in the Assembly or the electoral college elections.

Twelve parties which applied for recognition as national parties and 43 parties which applied for recognition as State parties were not granted the recognition asked for.

Post-1957 Position

As the candidates sponsored by the four all-India or national parties secured more than 3 per cent of the total votes they continue to be recognised as all-India or national parties.

On the same basis the recognition of the following as State parties for particular States was recognized and they were allowed to retain the old symbols:

Jharkhand Party (Bihar), Chota Nagpur and Santal Parganas Janata Party (Bihar), Peasants and Workers' Party (Bombay), All India Scheduled Castes Federation (the Republican Party) (Bombay, Punjab, H.P.), Akhil Bharat Hindu Mahasabha (M.P.), All India Gaiatantra Parishad (Orissa), Akhil Bharat Rama Rajya Parishad (Rajasthan), All India Forward (Marxist) (W. Bengal).

Elsewhere they lost their right to recognition.

The candidates of the following parties hitherto unrecognized polled more than 3 per cent of the votes and the parties therefore gained recognition as State parties as shown below:

Mahagujarat Janata Parishad (Bombay)—cock. Indian Union Muslim League (Kerala)—ladder. Dravida Munnetra Kazhagam (Madras)—rising sun. Indian National Democratic Congress (Madras) elephant. All India Socialist Party (U.P., Manipur)—tree. Akhil Bharat Hindu Mahasabha (Delhi)—horse and ladder. United Independent Front (Himachal Pradesh)—human hand.

There were cases in the second general election in which owing to certain causes the Commission revised the symbols allotted by Returning Officers—14 for the Lok Sabha and 82 for the Assemblies.

There were a number of cases where political parties failed to communicate the names of the official candidates. In such cases the Returning Officers gave them free symbols. In some cases such allotments were revised by the Commission—6 for the House of the People and 35 for the Assemblies. In the rest the symbols were not revised—3 for the House of the People, 33 for the Assemblies.

STATE-WISE COMMENTARY

A State-wise commentary is given in previous editions of this book.

MANIPUR

Chief Commissioner, Jarat Mohan Nath Raina.

Area: 8,628 sq. miles; Population: 577,635; Density: 67; Capital: Imphal; Strength of Territorial Council: 32 including two nominated members.

Names of Districts with population: Manipur Plains District 4,02,267; Hillia District 1,75,368

Names of Districts with names of taluks and their population within brackets: Manipur Plains District (Nadar 2,70,902; Thoubal 1,23,754; Jiribam 7,541); Hillia District (Mao 28,445; Churachandpur 42,695; Tengnoupal 24,040; Ukhrul 42,491; Tamenglong 37,088.)

Manipur bounded on the east and south by Burma and on the north and west by the Naga Hills and the Cachar District of Assam, is a highly strategic territory on the eastern frontier of India. Two land routes from Burma pass through its territory. It was formally proclaimed a Chief Commissioner's Province of the Indian Union on the 15th of October, 1949, and became a Part C State when the Constitution of 1950 came into force. Following the reorganization of States in India, Manipur became a Union Territory from 1st November 1956 and it is now administered as a Union Territory under the provisions of the Union Territories Act, 1956.

In the Territorial Council there are 32 members comprising 17 Congress members, Communists 4, Socialist Party 6 and Independents 5. Two are nominated.

The Congress is the largest single party.

The Territory has a population of 577,635 (1951 census) and an area of 8,628 square miles. The density of the population is 67. Seven hundred square miles of the Territory form a

central valley, 2,600 feet above sea-level, which is shut in on all sides by extensive hill tracts at places over 6,000 feet, covering the rest of the Territory. The climate varies from temperate in the valley to cold in the high hills. The rainfall on the average is 65 inches in the year.

The main population is "Meitais" inhabiting the valley with some 40 tribes and sub-tribes known by the generic names of Nagas and Kukis. Though a number of different dialects are spoken in the Territory, Manipuri and English are the official languages. The people are carefree and healthy, with a passion for religious festivals involving community dances in which both sexes join.

There are about 1,102 refugee families in Manipur.

The soil is fertile. Rice is the principal crop of which Manipur exports a fair quantity.

The area under cultivation is about 2 lakh acres.

Handloom weaving is a popular industry throughout the Territory and Manipuri cloth of various picturesque and indigenous designs, is in demand throughout India and even outside.

There are 2 colleges, 42 high schools, 152 M.E. schools and 1,078 primary, upper primary and junior basic schools. The total number of students for the year ending 31st December 1957 was 96,918.

There are 17 hospitals and 48 dispensaries, six touring and mobile dispensaries, and four maternity and child welfare centres.

The Planning Commission has accepted a ceiling of Rs. 6.25 crores for various development schemes under the Second Five-Year Plan. The schemes are connected with agriculture and rural development, N.E.S. and Community Projects, irrigation and power, industry, transport, education, medical and public health, housing, labour and labour welfare, welfare of backward classes and Scheduled Tribes. The development programmes have been taken up in right earnest.

A separate scheme for water supply for Imphal Town at an estimated cost of Rs. 28,36,000 has been taken up.

All Government educational institutions in Manipur up to high schools, except one basic training institute and one Hindi training institute, 53 allopathic hospitals and dispensaries outside Imphal, four maternity and child welfare centres, all roads except State and national highways, one veterinary hospital and seven veterinary dispensaries, were transferred to the Manipur Territorial Council in January 1958.

The Manipur Government has decided that free education upto the middle school standard should be given in all educational institutions from 1959-60.

Budget—1959-60
(See 'Late Particulars')

Institutions

MANIPUR DANCE COLLEGE, IMPHAL

Chairman: J. M. N. Raina, Chief Commissioner, Manipur.

Secretary: N. Nilakomal Singh, Assistant Secretary, Manipur Administration.

ANDHRA PRADESH LEGISLATIVE ASSEMBLY

Total Electorate : 1,76,68,716 ; Total Number of Constituencies : 249 ; Single Member Constituencies : 197 ; Double Member Constituencies : 52 ; Total number of Seats : 301* ; Scheduled Castes : 43 ; Scheduled Tribes : 11.

The party position is nebulous. A new party has been formed out of dissident Congressmen called the Democratic Socialist Party. One estimate put the position as follows : Congress 189, Communists 37, Democratic Socialist Party 28, Socialists 16, Nationalists 13, Independents 9, P.S.P. 1, Andhra Praja Party 1, unattached Independents 7.

This does not correspond to the affiliations as at the elections which are shown below.

Speaker : A. Kalewara Rao.

Deputy Speaker : Konda Lakshman Bapuji.

Secretary : G. V. Chowdary.

Joint Secretary : M. Nurya Rao.

Assistant Secretaries : M. Habibullah Baig, Habeeb Mansil, C. Padmanabhan.

Editor of Debates : M. K. Natri.

Registrar : M. S. Naidu.

There are 196 members from the former Andhra area and 105 from Telangana. The members from the former Andhra area were elected in 1955 while those from Telangana in March, 1957. The term of the Assembly has been extended till 1962.

Achuta Reddy, K. (U.C.L.), (Kodungal) ; Adinarayana, Botla (S.), (Bhogapuram) ; Smt. Ammanna Raja, (Thodagam (U.C.L.), (Attili) ; Amritlal Shukla (C.D.F.), (Sirisilla-General) ; Anand Rao, Joganpalli (C.D.F.), (Metpalli) ; Anantha Reddy (C.D.F.), (Dommat) ; Anjalak, T. (U.C.L.), (Armoor) ; Antiah, K. (U.C.L.), (Sangareddy (R)) ; Anthony Reddy, P. (U.C.L.), (Anantapur) ; Appalaswamy, Bojja (U.C.L.), (Amalapuram (R)) ; Appa Rao Bahadur, Raja Meka Rangayya (U.C.L.), (Nuzvid) ; Appa Rao Bessetti (U.C.L.), (Anakapalli) ; Appa Rao, Kamulili (U.C.L.), (Katikur) ; Appa Rao Shetkar (U.C.L.), (Narayankhet) ; Audinarayana Reddy, Y. (U.C.L.), (Rayachoti) ; Ayyapu Reddy, K. (U.C.L.), (Nandikotkur) ; Baga Reddy, M. (U.C.L.), (Zahirabad) ; Balanageswara Rao, Ambatipudi (U.C.L.), (Rajahmundry) ; Bannappa (Ind.), (Makhal) ; Bapiah, Gijupalli (U.C.L.), (Peddakani) ; Bapalah Chowdary, Mandava (U.C.L.), (Gurajala) ; Bapayya, Peta (U.C.L.), (Tiruvuru) ; Bapineedu, Alluri (U.C.L.), (Kovvur) ; Basappa, E. (U.C.L.), (Makhal (R)) ; Basu Reddy, P. (U.C.L.), (Pulivendla) ; Bhagavantha Rao, Anagani (U.C.L.), (Kuchinapudi) ; Bhanaji Rao, Ankitam Venkata (U.C.L.), (Vesakhapatnam) ; Bhop Reddi, P. (U.C.L.), (Nallamada) ; Brahmananda Reddi, Kasu (U.C.L.), (Pithampuram) ; Brahmayya, Neerla (U.C.L.), (Eluru) ; Bussanna, G. (P.S.P.), (Adoni) ; Chandramouli, Jagarlammudi (U.C.L.), (Ammanabrolu) ; Chandramouli, Kalluri (U.C.L.), (Vemuru) ; Channiah, Yadam (U.C.L.), (Repalle) ; Chenchurama Naidu Nalamothu (U.C.L.), (Kondapi) ; Chengalraya Naidu, N. P. (U.C.L.), (Vepanjeri) ; Dr. Chennareddy, M. (U.C.L.), (Vicarabad) ; Chinappa (A.P.F.), (Mahabubnagar) ; Chinamma Reddy, P. (U.C.L.), (Chilthor) ; Chithanibara Reddi, A. (U.C.L.), (Penukonda) ; Chittli, Marupilla alias Appalaswamy (U.C.L.), (Vijayawada-North) ; Chokkarao Juvvadi (U.C.L.), (Karimnagar) ; Chokkarao, Polisani (U.D.F.), (Indurthi) ; Chudamani Deo, V. C. (N.P.), (Parvatipuram) ; Dawar Hussain, Mohammad (U.C.L.), (Nizamabad) ; Dharma Bhiksham, B. (C.D.F.), (Nakraki) ; Dargakannu, M. (U.C.L.), (Tiruttani (R)) ; Ganga Reddy, Gopidi (S.), (Madhole) ; Gopalakrishna, Vadrevu (U.C.L.), (Pithampuram) ; Gopalakrishnaiah, Vavilala (Ind.), (Saitanapalli) ; Gopalakrishna Reddi, Pelleti (U.C.L.), (Gudur) ; Gopalakrishnayya Gupta, T. (U.C.L.), (Madanapalle) ; Gopala Rao, Duriseti (N.P.), (Jaggampeta) ; Vacant (Atmakur) ; Gopal Reddy, G. (C.D.F.), (Jangam) ; Gopali Reddi, P. (U.C.L.), (Tiruttani) ; Gopal Rao, Ekbote (U.C.L.), (High Court) ; Govindarajulu, Nalabolu (U.C.L.), (Vesukonda) ;

Gunnayya, Pothula (U.C.L.), (Pathapatnam (R)) ; Gurraju, Parvatha (U.C.L.), (Pathipadu) ; Gurmurthy, B. V. (U.C.L.), (Secunderabad) ; Hanumantha Rao, D. (U.C.L.), (Jagtiel) ; Harichandraprasad, Mullapudi (U.C.L.), (Tanuku) ; Hygrivachari, Tiruvaramam (U.C.L.), (Dharmasagar) ; Jagannadham, Reddi (N.P.), (Chodavaram) ; Jagannadham, Simma (U.C.L.), (Narasannapeta) ; Jagannadharaju, Gadiraju (U.C.L.), (Undi) ; Jagannadharaju, Gottumukkala (Ind.), (Bheemuniapatnam) ; Jagan Mohan Reddy, K. (S), (Pargi) ; Jalayya, Tellakula (U.C.L.), (Guntur No. 1) ; Janardhan Reddy, K. (U.C.L.), (Nagar-kurnool) ; Smt. Jayalaxmidayamma (U.C.L.), (Alampur) ; Jijyer Dass, Talluri (U.C.L.), (Ongola (R)) ; Kalewara Rao, Ayyadavara (U.C.L.), (Vijayawada South) ; Smt. Kamaladevi, Arutla (U.D.F.), (Alair) ; Kamayya, Reddy (U.C.L.), (Pallipalem (R)) ; Smt. Kanaka Ratnamma, Kakamuni (U.C.L.), (Narasampet) ; Kasi Ram, M. (U.C.L.), (Ariyabadi (R)) ; Kallireddy, Sanikommu (U.D.F.), (Podili) ; Keshava Reddy, Bethi (U.C.L.), (Bhanpur) ; Keshava Reddy, Katanguru (U.C.L.), (Palkal) ; Kishan Chary (U.C.L.), (Sangareddy) ; Kodandaramiah, Pusuluri (U.C.L.), (Polavaram) ; Kodanda Rama Reddy, V. (U.C.L.), (Sarvepalli) ; Kondalah Chowdary, Divi (U.C.L.), (Kandukur) ; Kondal Rao, Jalagam (U.C.L.), (Vemour) ; Kotiah, Pragada (U.C.L.), (Chirala) ; Kotireddy, K. (U.C.L.), (Lakkireddipalli) ; Koti Reddi, Meka (U.C.L.), (Mangalagiri) ; Krishnamraju Bahadur Raja Vatsavaya Venkata (U.C.L.), (Tuni) ; Krishnavataram, Armatikilam Venkata (U.C.L.), (Tadepalligudem) ; Krishnayya, Allam (U.C.L.), (Venkatagiri (R)) ; Kurmayya, Vemula (U.C.L.), (Gudivada (R)) ; Lakshman Bapuji, Konda (U.C.L.), (Chinnakondur) ; Lakshmana Das, Lukulapu (U.C.L.), (Pathapatnam) ; Lakshmayya, Javvadi (U.C.L.), (Penu-gonda) ; Lakshminarasimham Dora, R. (U.C.L.), (Tekkali) ; Lakshminarayana Reddi, Tetala (U.C.L.), (Anaparti) ; Lakshminarayana Reddy (C.D.F.), (Pathikonda) ; Lakshminaidu, Addakula (N.P.), (Naguru) ; Latchanna, Gowtu (U.C.L.), (Sompeta) ; Latchapatturudu, Ruthala (N.P.), (Golugonda) ; Laxminah, M. (U.C.L.), (Devarkonda (R)) ; Laxma Reddy, G. (C.D.F.), (Maidaram) ; Smt. Lakshminakshamma, T. (U.C.L.), (Khammam) ; Laxminarasiah, M. N. (U.C.L.), (Brahmipatnam) ; Lingam, N. K. (U.C.L.), (Nandikotkur (R)) ; Madhavarao (Ind.), (Jukul) ; Mahabub Ali Khan (U.C.L.), (Kurnool) ; Mahammad Rahamathulla, Shaik (U.C.L.), (Cuddapah) ; Mahammad Tahseel, (C.D.F.), (Bhadrachalam) ; Mahendranath, P. (U.C.L.), (Narasikurnool (R)) ; Maloor, Uppala (C.D.F.), (Suryapet (R)) ; Manda Saitu (U.C.L.), (Palkal (R)) ; Maniah, Baswa (Ind.), (Andole) ; Smt. Masooma Begum (U.C.L.), (Pathergutti) ; Matcharaju, Matcharasa (N.P.), (Gudem) ; Mir Ahmed Ali Khan (U.C.L.), (Makalpet) ; Mirza Shukur Baig (U.C.L.), (Warangal) ; Murlidhar Reddy (U.C.L.), (Atmakur) ; Munuswami, Meripaka (U.C.L.), (Gudur (R)) ; Murthy Raju, Ch. S.R., Ch. V.P. (U.C.L.), (Pentapadu) ; Muthlam Reddy, K. (S), (Nirmal) ; Mutyal Rao, J.B. (U.C.L.), (Gazul (R)) ; Dr. Naganna, K. (U.C.L.), (Kalvakurthi (R)) ; Nagayya, Eli (U.C.L.), (Paravada) ; Nagawara Rao, Ganji (C.D.F.), (Razole) ; Nagawara Rao, Meduri (U.C.L.), (Guntur No. 2) ; Nagi Reddi, Mandapati (C.D.F.), (Macherla) ; Narayana, B.V.L. (Ind.), (Ongola) ; Narsiah, Dodda (U.C.L.), (Yellandu (R)) ; Narsiah, Karalla (C.D.F.), (Sirivilla (R)) ; Narsingarao, Polisani (S), (Huzurabad) ; Narsimhareddy, Rheemareddy (C.D.F.), (Suryapet) ; Vacant (Gazul) ; Narayana Reddy, Goddampalli (U.C.L.), (Devarkonda) ; Narayan Reddy, G. (U.C.L.), (Asifabad) ; Narayan Reddi, Ravi (C.D.F.), (Bhongir) ; Narayana, K. S. (U.C.L.), (Secunderabad-City) ; Narsiah, Dodda (C.D.F.), (Huzurnagar) ; Narsimhamurthy, Gokoti (Ind.), (Amalapuram) ; Narsimhapparao Pydi (N.P.), (Palakonda) ; Narsimha Rao, K. L. (C.D.F.), (Yellandu) ; Narsinga Rao, B. G. M. A. (U.C.L.), (Kanithi) ; Narsinga Rao, J. V. (U.C.L.), (Begumbazar) ; Narsinga Rao, M. (U.C.L.), (Kollapur) ; Narayanappa, Banda

(U.C.L.), (Gooty) ; Nathamuni Reddi, Reddivari (U.C.L.), (Tirupati) ; Nawab Mohdi Nawaz Jung, (U.C.L.), (Jubilee Hills) ; Obula Reddi, Kandula (U.C.L.), (Markapur) ; Padmanabharaju, K. V. S. (S.), (Revidi) ; Padmanabha Reddy (U.C.L.), (Wengaparthi) ; Pallem Raju, Mallipudi (U.C.L.), (Kakinada) ; Pamideswara Rao, Pinnenti (U.C.L.), (Mallewarum) ; Papa Rao, Thammenni (N.P.), (Nagarikatakam) ; Paramdhamayya, Govada (U.C.L.), (Ponnur) ; Parthasarathi, Potharaju (U.C.L.), (Rajampet) ; Patibhrama Rao, S. B. P. (U.C.L.), (Pamaru) ; Peddanna, Namavarapu (C.D.F.), (Khammam (R)) ; Perumallu, Dasari (U.C.L.), (Palacole (R)) ; Pithambar Rao, G. V. (U.C.L.), (Luzetipethi) ; Pothuraju, Mutyalu (U.C.L.), (Narasannapam (R)) ; Punnaayya, Kottapalli (U.C.L.), (Chepurupalli (R)) ; Pyadaya Naidu, Majji (U.C.L.), (Kondakarla) ; Rajalingam, Mudigunda Siddaveera (U.C.L.), (Chilamcherla) ; Rajagopal Naidu, P. (U.C.L.), (Taranampalle) ; Rajaram, B. (U.C.L.), (Sultanabad (R)) ; Rajaram, M. (U.C.L.), (Gooty (R)) ; Raja Veerabasa Chikka Royal, Y. B. (N.P.), (Punganur) ; Rajayya, Boyina (U.C.L.), (Salur (R)) ; Rajeswara Rao, Chennammenni (C.D.F.), (Choppadandi) ; Rajeswara Rao, Mallipudi (U.C.L.), (Nivi (R)) ; Rajeswara Rao, P. V. (U.C.L.), (Siddipet) ; Rajeswara Rao, S. (C.D.F.), (Mudug) ; Rajmali, Kodali (S.), (Sripur) ; Ramabadraraju, Nadimpalli (U.C.L.), (Chogyeru) ; Ramabrahmam, D. (U.C.L.), (Kuppam) ; Ramachander Rao (U.C.L.), (Sultanabad) ; Ramachandraraja Bahadur (U.C.L.), (Ramachandrapuram) ; Ramachandra Rao, V. (Ind.), (Asafnagar) ; Ramachandra Reddi, T. (U.C.L.), (Pullur) ; Ramachari, P. (U.C.L.), (Dharmavaram) ; Ramachandra Reddy, Kattukuru (C.D.F.), (Ramannapet) ; Ramachandra Reddy, N. (U.C.L.), (Dornabadi) ; Ramalah, Kunda (U.C.L.), (Jammalamadugu) ; Ramalah, Kolla (U.C.L.), (Paruchuru) ; Ramakrishna Raju, R. B. (N.P.), (Padmalpet) ; Ramakrishna Reddi, Bathena (U.C.L.), (Kavali) ; Ramakotiah, Chagarlamudi (U.C.L.), (Kankipadu) ; Ramalingam, Goka (U.C.L.), (Jangannur (R)) ; Ramalinga Reddi, H. (U.C.L.), (Alur) ; Ramarao, V. (U.C.L.), (Shahabad (R)) ; Rama Reddi, Bommu (N.P.), (Mythkur) ; Ramaswami Reddi, Ganapa (U.C.L.), (Pedakurapadu) ; Ramaswamy, Arigo (U.C.L.), (Vicarabad (R)) ; Ramaswamy Naidu, Peddinti (U.C.L.), (Balijipeta) ; Ramayya, Maganti (U.C.L.), (Kanchikacherla) ; Ramreddi Chandra Obula (Ind.), (Proddatur) ; Rami Reddi, Gopavaram (N.P.), (Nandyal) ; Ramulu, G. (S), (Huzurabad (R)) ; Ramulu, Nicholas (U.C.L.), (Brahmanavarla) ; Ramu Naidu, Gujjala (S), (Srungavarapukota (R)) ; Rangababu, Uppada (U.C.L.), (Ichapuram) ; Ranganatha Mudallari, S. (N.P.), (Ramakrishnarajupeta) ; Ranganath Rao (C.D.F.), (Adilabad) ; Rangareddi (U.C.L.), (Balkonda) ; Ranga Reddi, Pidathala (U.C.L.), (Giddalur) ; Rangayya, Mulpuru (U.C.L.), (Denduluru) ; Rathnam, A. (U.C.L.), (Punganur (R)) ; Rathnasabhapathy, Bandaru (S), (Badvel) ; Smt. Rukmini Devi, B. (U.C.L.), (Hindupur (R)) ; Smt. Sada Laxmi, T. N. (U.C.L.), (Kamarreddi (R)) ; Sambhu Reddi, Narreddi (U.C.L.), (Kamalapuram) ; Sanjeeva Reddi, N. (U.C.L.), (Kalahasti) ; Sanjivayya, D. (U.C.L.), (Yemmiganur (R)) ; Sankaralah, Basava Reddi (C.D.F.), (Buchireddipalem) ; Smt. Santabai (U.C.L.), (Kalvakurthi) ; Santhappa, K. (U.C.L.), (Dharmavaram (R)) ; Sanyasi Naidu, T. (S), (Gajapathinagar) ; Satyanarayana, C. (U.C.L.), (Skerukhamapuram) ; Satyanarayana, P. (C.D.F.), (Samaikoti) ; Satyanarayana Murthy, A. (U.C.L.), (Palacole) ; Satyanarayana Raju, Mudundi (S), (Chepuripalli) ; Satyanarayana Rao, Bonnakanti (U.C.L.), (Madhira) ; Satya Reddy, D. K. (Ind.), (Gadval) ; Smt. Seeta Kumari, Y. (U.C.L.), (Banavada) ; Seetharamaswamy, Kotagiri (U.C.L.), (Bobbili) ; Seethiah Gupta, Kothuru (U.C.L.), (Mushirabad) ; Shashtri, N. C. (U.C.L.), (Rayadurg) ; Seetha Reddy, B. P. (N.P.), (Dhone) ; Shashabuddin Ahmed Khan (U.C.L.), (Yakutpura) ; Smt. Shahjehan Begum (U.C.L.), (Shadnagar) ; Sheikh Moula Sahib (U.C.L.),

* Excludes one nominated.

(Udayagiri); Singarajah, Patra (U.C.L.), (Kala-
asti (R)); Sivarama Prasad Bahadur Garu,
Srimanthe Raja Yariagadda (U.C.L.), (Dist);
Sreenivasa Rao (Ind.), (Bodhan); Sreenivasa
Rao, Namburi (U.C.L.), (Tadepalligudem (R));
Sreerama Murthy, Bhatiam (S.), (Vizianagaram);
Sreeramamurthy, Donda (S.), (Madugula);
Sreeramulu, Putumbaka (U.C.L.), (Duggirala);
Sriranganakulu, Chelikani (U.C.L.), (Vanakura);
Subba Rao, Batina (U.C.L.), (Burugupudi (R));
Subba Rao, Kallur (U.C.L.), (Hindupur);
Subbarayudu, Challa (U.C.L.), (Tadipatri);
Subba Reddi, A. C. (U.C.L.), (Nellore); Subba
Reddi, B. V. (Ind.), (Kotikunta); Sudersana Rao,
Kastamsetti (U.C.L.), (Palnancha); Smt.
Sumitra Devi (U.C.L.), (Jubilee Hills (R));
Sundarayya, Puchalapalli (C.D.F.), (Ganna-
varam); Suryanarayana, Gantiana (S.), (Gaja-
pattinagar (R)); Suryanarayana, Pasagada
(Ind.), (Srikakulam); Suryanarayana Raju, Raja
Sagi (U.C.L.), (Narasapuram); Thimmamah
Setty, T. G. (U.C.L.), (Kovvur); Thimma Reddy,
C. P. (U.C.L.), (Sivra); Thimma Reddy, P.
(U.C.L.), (Patalipad); Tirupathi Rao, Remella
(U.C.L.), (Palipad); Smt. Vanl Ramana Rao,
A. P. P.—Andhra Praja Party; C. D. F.—Communist Democrat Front; Soc.—Socialist; U. C. L.—United Congress Legislature Party.

ANDHRA PRADESH LEGISLATIVE COUNCIL

(See page 1101)

ASSAM LEGISLATIVE ASSEMBLY

Constituencies: 91 (S.M. 77; D.M. 14); Seats: 105 (S.C. 5; S.T. 23); Electorate: 44,95,359 (Revised).

Speaker, Devkanta Barooah.
Deputy Speaker, Rajendranath Barua.

An estimate of party position is given below:
Congress 81; Praja Socialist Progressive Bloc 11;
Communist Party of India 4; Independents 4;
Tribal Union Parliamentary Party 3; R.C.P.I. 1.
Lalmawia (ST), (T.U.P. Party), (Aiyal East
(R)); Thangliura (ST), (Cong.), (Aiyal West (R));
Khagendra Nath Baruah (R.C.P.I.), (Amguri);
Emerson Momin (T.U.P. Party), (Bagmara);
Bimala Prasad Chaliha (Cong.), (Badarpur);
Biswadev Sarma (Cong.), (Balipara); Mahi
Kanta Das (Cong.), (Barchalla); Srihari Das
(SC), (Cong.), (Barpeta); Mahadev Das
(SC), (Cong.), (Barpeta (R)); Jahanuddin Ahmed
(P.S.P. Bloc), (Biswanath); Kamakhya Prasad
Tripathi (Cong.), (Biswanath); Indreswar Khound
(Cong.), (Bogdang); Radha Charan Choudhury
(Cong.), (Boko); J. J. M. Nichols Roy (ST),
(T.U.P. Party), (Cherrapunji (R)); Nallindra
Sangma (Ind.), (Dainadubi); Md. Matleuddin
(P.S.P. Bloc), (Dalgau); Narendranath Sarma
(Cong.), (Dergam); Ram Nath Das (SC), (Cong.),
(Dergam (R)); Omeo Kumar Das (Cong.), (Dhe-
kajuli); Nurul Islam (Cong.), (Dhing); Tamli-
uddin Pradhan (Cong.), (Dhubri); Nilmoni
Borthakur (C.P.I.), (Dibrugarh); Dwijesh
Chandra Debbarma (Cong.), (Digboi); Malia Tati
(Cong.), (Doom-Dooma); Gaurinankar Bhattacha-
ryya (C.P.I.), (Gauhati); Prakritish Chandra
Barua (P.S.P. Bloc), (Gauripur); Kagnendra
Nath Nath (Cong.), (Goalpara); Hakkim Chandra
Rabha (Cong.), (Goalpara (R)); Bishnulal
Upadhyaya (Cong.), (Gokpur); Rajendranath
Barua (Cong.), (Golaghat); Bhuban Chandra
Pradhan (Cong.), (Golaghat); Mathias Tudu
(P.S.P. Bloc), (Gossaigaon); Abdul Matlib Maj-
umdar (Cong.), (Haikandi); Mahendra Mohan

Choudhury (Cong.), (Hajo); Maulvi Rahimuddin
Ahmed (Cong.), (Jamunamukh); Fakhruddin
Ali Ahmed (Cong.), (Jania); Debbarwar Sarma
(Cong.), (Jorhat); Muidhidhar Pegoo (ST), (Cong.),
(Jorhat (R)); Larsingh Khayem (ST), (T.U.P.
Party), (Jowai (R)); Jugo Kanta Barua (Cong.),
(Jaipur); Lila Kanta Borah (Cong.), (Kaliabar);
Sarat Chandra Goswami (Cong.), (Kamarpur);
Ranendra Mohon Das (Cong.), (Karimganj
North); Abdul Hamid Choudhury (Cong.),
(Karimganj South); Hem Chandra Chakravarty
(Cong.), (Katigora); Gouri Shankar Boy (Cong.),
(Kailicherra); Shrimati Kamal Kumari Barua
(Cong.), (Kaimigaon); Rupnath Brahma (ST),
(Cong.), (Kokrajhar (R)); Swami Krishnananda
Brahmachari (Cong.), (Kokrajhar); Motiram
Bora (Cong.), (Laharigat); Dhirsingh Deuri
(ST), (Cong.), (Laharigat (R)); Shrimati Lily
Sengupta (Cong.), (Lahowal); Ram Prasad
Choudhury (Cong.), (Lakhimpur); Ram Nath Sarma
(Cong.), (Lumding); C. Thumliana (ST), (T.U.P.
Party), (Lungleh (R)); Dandi Ram Datta (Cong.),
(Mangaldela); Kolbad Hussain Ahmed (Cong.),
(Manakchar); Dandeshwar Hazarika (Cong.),
(Marangi); Sol Sol Terang (ST), (Cong.), (Mikir
Hills East (R)); Chattrasing Teron (ST), (Cong.),
(Mikir Hills West (R)); Shrimati Padma Kumari
Gohain (Cong.), (Moran); Lalit Kumar Daley
(ST), (Cong.), (Moran (R)); Prabhat Narayan
Chandhury (Ind.), (Nalbari East); Tarun Sen
Deka (C.P.I.), (Nalbari West); Tankeswar Chetia
(Cong.), (Nazira); J. Slem (Ind.), (Nongpoh (R));
Henry Cotton (ST), (T.U.P. Party), (Nongstoin
(R)); Hamdhan Mohan Haplangbar (ST), (Cong.),
(North Cachar Hills (R)); Mohananda Bora
(Cong.), (North Lakhimpur); Karka Chandra
Doley (ST), (Cong.), (North Lakhimpur (R)); Hare-
swar Das (Cong.), (North Salmara); Dr. Ghana-

(Narasapur); Venkata Reddi, Kasim (M.P.),
(Nandipad); Venkataramanappa, Pooia (U.C.L.),
(Gorandla); Venkateswariyaya, Bandlamudi
(U.C.L.), (Martur); Venkata Somayajulu,
Chaganli (S.), (Srungavarapukota); Venkata
Subba Rao, Durvasula (C.D.F.), (Paddapuram);
Venkata Subba Reddy, T. N. (U.C.L.), (Thamra-
Nepalle); Venkata Surya Subbaraju, M. (U.C.L.),
(Kochapeta); Venkatasubbayya, Pala (U.C.L.),
(Rajampet (R)); Venkatasubrahmanyam,
Adusumilli (Ind.), (Gudidee); Venkatasurya-
narayana Raju, Chintalapati alias Sanyasraju
(N.P.), (Yellamanchili); Venkateswami Reddi,
Padileti (U.C.L.), (Venkatagiri); Venkateswara
Rao (U.C.L.), (Medak); Venkateswarlu, Pillala-
marri (C.D.F.), (Nandigama); Venkatram Nar-
salaiah, Errabelli (U.C.L.), (Wardhanapet);
Venkatrama Reddy (U.C.L.), (Kamareddy);
Venkatreddi, C. (C.D.F.), (Miryalguda); Vijaya
Bhaskara Reddy, K. (U.C.L.), (Yemmiganur);
Visweswara Rao, Vellanki (C.D.F.), (Mylavaram);
Yella Reddy, Baddam (C.D.F.), (Buggaram);
Yellamanda Reddy, G. (C.D.F.), (Kantigiri);
Yeruku Naidu, Allu (S.), (Salur); J. T. Fernandes,
(Nominated Anglo-Indian).

shyam Das (SC) (Cong.), (North Salmara (R));
Dev Kanta Barooah (Cong.), (Nowgong);
Mahendra Nath Hazarika (SC), (Cong.), (Now-
gong (R)); Radhika Ram Das (Cong.), (Palasbari);
Hiralal Patwari (P.S.P.), (Panery); Pakhirai
Deka (ST), (P.S.P.), (Panery (R)); Bishwanath
Upadhyaya (P.S.P.), (Patharkandi); Gopesh
Namasudra (SC) (C.P.I.), (Patharkandi (R));
Surendra Nath Das (ST), (Cong.), (Pata-
char-Kuchi); Surendra Kumar Das (ST),
(P.S.P.), (Patachar-Kuchi (R)); William-
son A. Sangma (T.U.P. Party), (Phul-
bari); Hareswar Goswami (P.S.P.), (Rampur);
Baikuntha Nath Das (ST), (Cong.), (Rangia (R));
Siddhi Nath Sarma (Cong.), (Rangia); Manu-
Mohammed Idris (Cong.), (Rupokhat); Devendra
Nath Hazarika (Cong.), (Saikhowa); Shrimati
Usha Barthakur (Cong.), (Samaguri); Molnu
Haque Chowdhury (Cong.), (Sikhar East); Brojo
Mohon Roy (T.U.P. Party), (Shillong); Shrimati
Jyotana Chanda (Cong.), (Sikhar West); Nanda
Kishore Sinha (Cong.), (Sonai); Girindranath
Gogoi (Cong.), (Sibsagar); Purnananda Chetia
(Cong.), (Sonari); Ghanshyam Talukdar (Ind.),
(Sorbhog); Sahadat Ali (P.S.P.), (South Sal-
mara); Vacant, (Tarabari); Manik Chandra Das
(Cong.), (Tengakhat); Harinarayan Barua
(Cong.), (Teok); Kamala Prasad Agarwalla
(Cong.), (Tezpur); Durgeswar Saikia (Cong.),
(Thowra); Radha Kishen Khemka (Cong.),
(Tinsukia); Sarbeswar Bordoloi (Cong.), (Tiyabar);
Mody K. Marak (T.U.P. Party), (Tura);
Tazamulali Barlaakar (Cong.), (Udarband).

Cong. = Congress; C.P.I. = Communist Party of
India; Ind. = Independents.
P.S.P. Bloc = Praja Socialist Progressive Bloc
T.U.P. Party = Tribal Union Parliamentary
Party.

BIHAR LEGISLATIVE COUNCIL

Seats: 96.

Chairman: Brijraj Krishna. **Dy. Chairman**: Vacant. **Secretary**: Chand Lal.

An estimate of party position is as follows:—
Cong. 69; U.O.B. 8; Teachers' Group 7; P.S.P.
2 and Independents 9.

Assembly Constituency (34)

Baburam Hemram (U.O.B.), Barlar Hembram
(U.O.B.); Basanta Chandra Ghose (P.S.P.);
Kumar Ganganand Singh (Cong.); Gauri
Shankar Daima (Cong.); Girija Nandan Singh
(U.O.B.); Shrimati Kampani Devi (Cong.);
Habibul Haque (Cong.); Jafar Imam (Cong.);
Jitu Lal (Cong.); Shrimati Ahmadi Sattar
(Cong.); Nurullah (Cong.); Radha Govind
Prasad (Cong.); Shah Muhammad Osair Munemli
(Cong.); Shrimati Abhirama Devi (Cong.);
Kusheshwar Sinha (Cong.); Raghubans Prasad

Singh (Cong.); Ram Shekhar Prasad Sinha
(Cong.); Shree Krishna Singh (Cong.); Kamta
Prasad Sinha (Cong.); Shyama Prasad Sinha
(Cong.); Sitaram Jagatramka (U.O.B.); Bra-
jendra Narain Yadav (Cong.); Sitaram Yadav
(Cong.); Ramraj Jaiwar (Cong.); Joel Lakra
(Cong.); Pasupati Singh 'Prabal' (Cong.); Syed
Fazlur Rahman (Cong.); Chandreshwar Narain
Prasad Sinha (Cong.); Mukteswar Sinha
(Cong.); Yogendra Sukla (P.S.P.); Budhan Rai
Verma (U.O.B.); Bhagwat Prasad (Cong.).

Patna Division Local Authorities (8)

Mahadeonand Giri (Ind.), Ram Bilas Sharma
(Cong.); Bilal Prasad Verma (Cong.); Vishnu
Shankar (Cong.); Mathura Prasad Singh

(Cong.); Smt. Parvati Devi (Cong.); Syed Nasir
Haidar (Cong.); Deva Sharan Sinha (Cong.).

Patna Division Teachers (2)

Jagdish Sharma; Kailash Sinha.

Patna Division Graduates (3)

Krishna Bahadur; Singheshwari Prasad;
Ranendra Nath Roy (Ind.).

Tribal Division Local Authorities (8)

Brajendra Bahadur Sinha (Cong.); Kumar
Kalyan Lal (Cong.); Lakshmi Kant Jha (Cong.);
Braj Bihari Prasad (Cong.); Hari Shankar
Prasad (Cong.); Smt. Kishori Devi (Cong.);
Kapildeo Narain Singh (Cong.); Janki Nandan
Singh (Ind.).

* Election declared void. Appeal in Supreme Court.

Tribal Division Teachers (1)

Binda Charan Verma.

Tribal Division Graduates (2)

Sawalla Bihari Lal Verma (Cong.); Lakshmi Nath Jha (Cong.).

Bhagalpur Division Local Authorities (11)

Beer Narain Chand (Cong.); Jagdishwar Mandal (Cong.); Sagar Mohan Pathak (Ind.); Jamuna Prasad Singh (Cong.); Mayanand Thakur (Cong.); Qudratullah (Cong.); Bidyakar Kavi (Cong.); Bhola Mandal (Cong.); Radha Krishna Prasad Singh (Cong.).

Bhagalpur Division Teachers (2)

Bindhyeshwar Mishra; Goloke Bihari Chowdhury; Tapaswi Nath Jha.

Bhagalpur Division Graduates (2)

Ravaneshwar Mishra (Cong.); Harendra Prasad Jha (Cong.).

Chota-Nagpur Division Teachers (2)

Mahendra Prasad; Sasanka Sekhar Ghosh.

Chota-Nagpur Division Graduates (1)

Anil Kumar Sen (U.O.B.).

Chota-Nagpur Division Local Authorities (7)

Abdur Razaque Ansari (Cong.); Braj Mohan Agarwalla (Cong.); Subodh Kumar Sen (U.O.B.); Hari Krishna Lal (Cong.); Devkinandan Prasad

(Cong.); Raghunandan Singh Choudhary (Cong.); Namu Charan Tubbil (Cong.); Ram Lakhan Pandey (Cong.); Ram Prakash Lal (Cong.).

Nominated (12)

Mohan Lal Mahto 'Viyogi' (Cong.); Jagannath Prasad Mishra (Cong.); Dr. Tridib Nath Banarji (Ind.); Lady Anis Imam (Ind.); Dr. B. R. Misra (Ind.); Brajnandan Prasad (Ind.); Fateh Narain Singh (Cong.); Rameshwar Prasad Singh (Ind.); Rai Brijraj Krishna (Cong.); Harendra Bahadur Chandra (Cong.); Smt. Savitri Devi (Ind.); Jaideva Prasad (Cong.).

Note:—U.O.B. = United Opposition Block.

BIHAR LEGISLATIVE ASSEMBLY

Electorate: 1,94,90,298; Constituencies: 264 (S.M. 210; D.M. 54); Seats 319 (including one nominated). (S.C. 40; S.T. 32).

Speaker, V. P. Varma.

Deputy Speaker, Prabhunath Singh.

An estimate of party position is given below: Congress 206; Praja Socialist Party 38; Communist Party of India 7; Jharkhand Party 37; Independents 5; Socialist Party 1; Ganatantra Parishad 1; Janata Party 7; Vacant 8.

Braj Nandan Sharma (Ind.), (Adampur); Yadunandan Jha (Cong.), (Alemnagar); Sital Prasad Bhagat (Cong.), (Amarpur); Md. Ismail (Ind.), (Amarpur); Elaur Rahman (Cong.), (Araria); Rang Bahadur Prasad (Cong.), (Araria); Ambika Singh (Cong.), (Arria Muffasi); Budhan Mehta (Cong.), (Arria); Nandkishore Prasad Singh (JP), (Akhawan); Shivaratna Singh (Cong.), (Ari); Priyabrata Narayan Sinha (Cong.), (Aurangabad); Baidyanath Prasad Singh (PSP), (Bachhaura); Kedar Pandey (Cong.), (Bagaha); Narain Singh (SC) (Cong.), (Bagaha); Kailashpati Singh (JP), (Bagodar); Lakhan Lal Kapoor (PSP), (Bahadurganj); Maheshkant Sharma (Cong.), (Bahera East); Smt. Krishna Devi (Cong.), (Bahera South); Harinath Mishra (Cong.), (Bahera West); Trivikram Deo Narayan Singh (Ind.), (Baitikpur); Abul Ahad Mohammad Noor (Cong.), (Baitikpur); Brahmdeo Narayan Singh (Cong.), (Baia); Mohammad Salahuddin Choudhry (Cong.), (Bakhtapur); Smt. Uma Pandey (Cong.), (Bantapur); Smt. Bindhyabasini Devi (Cong.), (Bantapur); Abdul Ghafoor (Cong.), (Bara); Ram Yatan Singh (Cong.), (Barh); Lalan Prasad Sinha (Cong.), (Barhampur); Qamrul Haque (Cong.), (Barhampur); Rameshwar Prasad Mahtha (CNSJP), (Barh); Shreedhar Narain (PSP), (Barachatti); Basudeo Pd. Sinha (Cong.), (Barari); Babulal Tudu (ST) (Jharkhand), (Barhail); Harihar Mahto (Cong.), (Barhampur); Smt. Sahank Manjari (CNSJP), (Barhampur); Ramchandra Prasad Sahl (Cong.), (Barari); Sahabpati Sinha (PSP), (Basantpur East); Krishna Kant Singh (Cong.), (Basantpur West); Saryu Prasad Sinha (Cong.), (Beguwar); Medni Pawan (SC) (Cong.), (Beguwar); Ramanand Singh (PSP), (Bisand); Shubhchandra Mishra (Cong.), (Bisipatti East); Chhote Prasad Singh (Cong.), (Bisipatti West); Brajeshwar Prasad Singh (JP), (Bermo); Jaynarain Prasad (Cong.), (Bettiah); Jagannath Prasad Swatantra (SC) (Cong.), (Bettiah); Ali Waris Khan (Cong.), (Bhabua); Dularchand Ram (SC) (Cong.), (Bhabua); Satyendra Narayan Agrawal (Cong.), (Bhagalpur); Jadunandan Tewari (Cong.), (Bhawanathpur); Ramdani Chamar (SC) (Cong.), (Bhawanathpur); Rambali Pandey (PSP), (Bhore); Chandrika Ram (SC) (Cong.), (Bhore); Prabhu Narayan Roy (CPI), (Bikapur); S. M. Aqil (Cong.), (Bihar North); Girwaridhari Singh (Cong.), (Bihar South); Smt. Manorma Devi (Cong.), (Bihars); Smt. Manorma Pandey (Cong.), (Bihars); Jainarain Jha Vineet (Cong.), (Bihars); Smt. Shanti Devi (Cong.), (Bihars); Jetha Kishku (ST) (Jharkhand), (Borio); Kapildeo Singh (PSP), (Borio); Sheokumar Thakur (Cong.), (Buxar); Sukhdeo Manjhi (ST) (Jharkhand), (Chabassa); Phabianus Oraon (ST) (Jharkhand), (Champur); Shyamal Kumar Passari (Jharkhand), (Chakradharpur); Hari Charan Roy (ST) (Jharkhand), (Chakradharpur); Deogan Prasad

Singh (Cong.), (Chandi); Dhananjay Mahato (Cong.), (Chandi); Jatindra Nath Rajak (SC) (Ind.), (Chandi); Smt. Ketaki Devi (Cong.), (Chandpur); Jaglal Choudhary (SC) (Cong.), (Chapra); Prabhunath Sinha (Cong.), (Chapra); Hardayal Sharma (Cong.), (Chas); Shaligram Singh (JP), (Chatre); Nand Kishore Singh (JP), (Chauran); Ghanshyam Singh (Cong.), (Chauran); Syed Maqbool Ahmed (Cong.), (Colong); Bhola Nath Das (SC) (Cong.), (Colong); Mimi Singh (Cong.), (Dalsingh Sarai); Balashwar Ram (SC) (Cong.), (Dalsingh Sarai); Umeshwar Charan (PSP), (Daltonganj); Balendra Prasad Singh (JP), (Darauli); Ram Basawan Ram (SC) (Cong.), (Darauli); Sayeedul Sekh Haque (Cong.), (Darbhanga Central); Hirdyanarain Choudhary (Cong.), (Darbhanga North); Babu Lal Mahto (SC) (Cong.), (Darbhanga South); Janki Raman Prasad Mishra (Cong.), (Darbhanga South); Sayeed Ahmad Quadri (Cong.), (Daudnagar); Krishnaraj Sinha (Cong.), (Dausath); Ravawon Sinha (PSP), (Dehri); Smt. Shailbala Roy (Cong.), (Deogarh); Mangu Lal Das (SC) (Cong.), (Deogarh); Masoodur Rahman (Cong.), (Dhaka); Jogendra Prasad (PSP), (Dhanbani); Vacant (Dhanbani); Laxmi Narain Sudhansu (Cong.), (Dhamdaha); Bhola Shashtri Paswan (SC) (Cong.), (Dhamdaha); Moli Saminuddin (Cong.), (Dhura); Jagat Narain Lal (Cong.), (Dinapur); Ram Ashish Singh (PSP), (Dinapur); Sanath Rout (Jharkhand), (Dumka); Binjamin Hanada (ST) (Jharkhand), (Dumka); Ganga Prasad Singh (Cong.), (Dumraon); Shiv Mahadev Prasad (PSP), (Fateva); Keshav Prasad (SC) (CNSJP), (Fateva); Sital Prasad Gupta (Cong.), (Forbagan); Dumar Lal Baltha (SC) (Cong.), (Forbagan); Smt. Rajeshwari Saroj Das (Cong.), (Garhwa); Ramajpal Singh Yadav (PSP), (Garhwa); Nagahwar Rai (JP), (Gawan); Gopal Khabdas (SC) (JP), (Gawan); Sardar Mohammad Latifur Rahman (Cong.), (Gaya); Hardeo Singh (Cong.), (Gaya); Shishir Kumar Mahato (Jharkhand), (Ghatila); Shyam Charan Murmu (ST) (Jharkhand), (Ghatila); Mangal Prasad Yadav (Cong.), (Ghorasahan); Kamakhya Narain Singh (JP), (Giridih); Hemlal Pragnait (ST) (JP), (Giridih); Dhruv Narain Mani Tripathi (Cong.), (Gobindganj); Manilal Yadav (Jharkhand), (Godda); Chunksa Hembram (ST) (Jharkhand), (Godda); Kamla Rai (Cong.), (Gopalganj); Mani Ram Singh (CPI), (Gopalganj); Sukra (Bhagat) Oraon (ST) (Jharkhand), (Gumla); Dip Narain Sinha (Cong.), (Hajipur); Smt. Prabati Debi (Cong.), (Haridhat); Rasant Narain Singh (JP), (Hazaribagh); Lalajinh Tyagi (Cong.), (Husa); Smt. Rajkumari Devi (Cong.), (Husa); Ambika Prasad Singh (Ind.), (Imampur); Mahabir Chaudhri (SC) (Cong.), (Jahanabad); Fida Hussain (Cong.), (Jahanabad); Ramkrishna Mahto (SC) (Cong.), (Jainagar); Deonarain Yadav (Cong.), (Jainagar); Balkh Tahir Hussain (Cong.), (Jale); Jogendra Mahto (Cong.), (Jamaipur); Kedar Das (CPI), (Jamaipur); Satrugna Beera (Jharkhand), (Jamaipur); Indra Narain Singh (JP), (Jama); Bhola Manjhi (SC) (CPI), (Jama); Hari Prasad Sharma (Cong.), (Jama); Bhagwat Murmu (ST) (Cong.), (Jama); Chandreshwar Singh

(Cong.), (Jhaja); Deochandra Jha (Cong.), (Jharkhand); V. G. Gopal (Cong.), (Jugaula); Mohiuddin Mokhtar (Cong.), (Kadua); Yamuna Prasad Tripathy (Cong.), (Kanti); Babulal Manjhi (ST) (Cong.), (Kanti); Sukhdeo Narain Singh (Cong.), (Kanti); Piroo Manjhi (ST) (Cong.), (Katori); Raghendra Narain Singh (Cong.), (Katori); Ramkrishna Benipuri (PSP), (Katra North); Niteswar Prasad Sinha (Cong.), (Katra South); Smt. Prabhawati Gupta (Cong.), (Kasaria); Kedarnarayan Singh Asad (Cong.), (Khagaria); Sada Mishri (SC) (Cong.), (Khagaria); Sakoor Ahmad (Cong.), (Khajauli); Narendra Prasad Singh (Cong.), (Khagarpur); Bir Singh Munda (ST) (Jharkhand), (Kunti); Abdul Haiyat (Cong.), (Kishanganj); Baidya Nath Mehta (Cong.), (Kishanpur); Gansuri Prasad Singh (Cong.), (Koch); Dr. G. P. Tripathy (JP), (Kodarma); Suhil Hage (ST) (Jharkhand), (Koderma); Vachaspati Sharma (Cong.), (Kuchaitak); Kameshwar Sharma (Cong.), (Kurtha); Lalteshwar Prasad Sahi (Cong.), (Lalganj North); Birendra Patel (Cong.), (Lalganj South); Lal Jagdishri Nath Sah Deo (JP), (Lathar); John Munjini (ST) (JP), (Lathar); Smt. Ramdulhari Shashtri (Cong.), (Laukaha); Subh Narain Prasad (Cong.), (Lauria); Ram Krishna Ram (SC) (JP), (Lestogan); Rajkishore Singh (Cong.), (Lestogan); Ramcharan Kisku (ST) (Jharkhand), (Littipara); Pritam Kujur (ST) (Jharkhand), (Lohardaga); Radhanandan Jha (Cong.), (Madhatpur); Bhupendra Narayan Mandal (SC), (Madhatpur); Ruplal Rai (Ind.), (Madhuban); Arjun Prasad Singh (Cong.), (Madhuban East); Ramakant Jha (PSP), (Madhuban West); Mahendra Mahto (PSP), (Mahagan); Smt. Anusuya (Cong.), (Maharajganj); Smt. Banarsi Devi (Cong.), (Maharajganj); Shivanandan Ram (SC) (Cong.), (Mahua); Vinodeshwar Prasad Verma (Cong.), (Mahua); Saran Balmukh (ST) (Jharkhand), (Majhagan); Mitleshwar Prasad Sinha (Cong.), (Majhagan); Ignis Kujur (ST) (Jharkhand), (Mandari); Ramvilas Prasad (Jharkhand), (Mandari); Moti Ram (JP), (Mandari); Sribhagwan Singh (CPI), (Mandari); Smt. Parvati Devi (Cong.), (Manihari); Sanatan Samad (ST) (Jharkhand), (Manihari); Girish Tiwari (Cong.), (Manjhi); Subhanath Deogan (Jharkhand), (Manoharpur); Devi Lal Ji (PSP), (Manoharpur); Smt. Rajkumari Devi (Maharaja North); Smt. Saraswati Choudhury (SC) (Cong.), (Masaurhi); Nawal Kishore Sinha (Cong.), (Masaurhi); Mrityunjaya Singh (PSP), (Masaurhi North); Janak Singh (Cong.), (Minapur); Janardan Sinha (Cong.), (Mirganj); Badri Singh (PSP), (Mohania); Smt. Shanti Devi (Cong.), (Mokhidinagar); Jagdish Narain Singh (Cong.), (Mokham); Nirupad Mukherjee (Cong.), (Monghyr); Smt. Shakuntala Devi (Cong.), (Motihari); Biju Ram (SC) (Cong.), (Motihari); Sheonandan Prasad Mondal (Cong.), (Muriganj); Mahamaya Prasad Sinha (PSP), (Musaffarpur); Ramjanam Ojha (PSP), (Musaffarpur Muffasi); Deodhar Ram (SC) (Cong.), (Nabiganj); Priyabrata Narain Singh (PSP), (Nabiganj); Umeshwar Prasad (Jharkhand), (Nalla); Babul Marandi (ST) (Jharkhand), (Nalla); Ramkhalawan Singh (Cong.), (Nawabpur); Manoor Ahmad (Cong.), (Nawada); Raja Ram Arya (Cong.), (Nawanganj); Lakshmi Narain Manjhi

(ST) (Cong.), (Nires (R); Ram Narain Sharma (Cong.), (Nires); Jagdish Prasad (Cong.), (Nobha); Smt. Shanti Devi (Cong.), (Palasi); Chandraseo Prasad Varma (PSP), (Patisang); Jitu Kisku (ST) (Cong.), (Pakur (R); Smt. Hani Jyotirmoye Debi (Cong.), (Pakur); Smt. Laxmi Devi (Cong.), (Parbati); Daroga Prasad Roy (Cong.), (Parsa); Chandu Ram (SC) (Cong.), (Paru (R); Nawal Kishore Sinha (Cong.), (Paru); Bibhishan Kumar (Cong.), (Palahi); Manzur Ahsan Azazi (Cong.), (Palepur); Smt. Zahra Ahmad (Cong.), (Patna East); Badrinath Verma (Cong.), (Patna South); Ramnarain Sal (Cong.), (Patna West); Raahik Lal Yadav (Cong.), (Phulpur); Ganganath Mishra (GPI), (Pipra); Nagina Dusadh (SC) (Cong.), (Piro (R); Smt. Sumitra Debi (Cong.), (Piro); Ramjanam Mahto (Cong.), (Purpasi); Supal Soren (ST) (Jharkhand), (Potsa (R); Khubal Mahto (Cong.), (Pratapganj); Smt. Sudama Chaudhury (Cong.), (Pupri North); Devendra Jha (PSP), (Pupri South); Kamaldeo Narain Sinha (Cong.), (Purnea); Sarjoo Prasad Sinha (Cong.), (Rajganj); Haribansh Narain Sinha (Cong.), (Rajshahi); Ramdeo Sinha (PSP), (Raghuai); Ramsawarop Prasad Yadava (Cong.), (Rajauli); Baldeo Prasad (SC) (Cong.), (Rajgriha (R); Shyam Sunder Prasad (CNSJP), (Rajgriha); Binodanand Jha (Cong.), (Rajmahal); Sukhu Murmu (ST) (Cong.), (Ramgarh (R) (Santal Parganas Dist.); Tara Prasad Bakshi (JP), (Ramgarh

(Hassribagh Dist.); Rameshwar Manjhi (ST) (JP), (Ramgarh (R); Dasarath Tiwari (PSP), (Ramgarh) (Shahad Dist.); Jagannath Mahto (Jharkhand), (Ranchi); Ramratan Ram (SC) (Cong.), (Ranchi (R); Chintamani Baran Nath Sahdeo (Jharkhand), (Ranchi Sadar); Ram Narayan Mandal (Cong.), (Raniganj); Radha Pandey (Cong.), (Rasul); Mahabir Bant (Cong.), (Rasera); Tribeni Prasad Singh (Cong.), (Rumtardpur); Braj Bihari Singh (Cong.), (Rupauli); Sheo Pujan Rai (Cong.), (Sahar); Smt. Vishwawhari Debi (Cong.), (Sahara); Ram Gulam Chaudhary (SC) (Cong.), (Sakra (R); Kapildeo Narain Sinha (Cong.), (Sakra); Jadunandan Sahay (Cong.), (Samaipur West); Bahdeo Mahto (Cong.), (Samaipur East); Jhama Prasad (Cong.), (Sandoah); Badri Narayan Singh (Cong.), (Seraik); Ramadhar Dusadh (SC) (PSP), (Sasaram (R); Bipin Behari Sinha (PSP), (Sasaram); Aditya Pratap Deo Singh (GP), (Seraikella); Ramanand Tewary (PSP), (Sheohar); Mohammad Shahjehan (Cong.), (Sheohar); Smt. Leela Devi (SC) (Cong.), (Sheoharpura (R); Shrikrishna Sinha (Cong.), (Sheoharpura); Ram Swaroop Ram (SC) (PSP), (Sheohar (R); Thakur Girijanandan Singh (Ind.), (Sheohar); Supal Murmu (ST) (Jharkhand), (Shikaripara (R); Singbeshwar Prasad Verma (PSP), (Shikarpur); Bhola Nath Bhagat (Cong.), (Sikhi); Fazlur Rahman (Cong.), (Sikhi); Marhal Kullu (ST) (Jharkhand), (Simdega (R); Smt. Shyam Kumari

(SC) (Cong.), (Singha (R); Braj Mohan Prasad Singh (Cong.), (Singha); Kirpa Oraon (ST) (Jharkhand), (Sisai (R); Kuldeep Narayan Yadav (Cong.), (Sitamarhi North); Ramsewak Saran (PSP), (Sitamarhi South); Gadadhar Prasad Shrivastava (Cong.), (Siwan); Smt. Saraswati Devi (Cong.), (Sullanganj); Lahtan Choudhury (Cong.), (Supaul); Maheswara Prasad Narain Sinha (Cong.), (Sursand); Karyanand Sharma (GPI), (Surajgarh); Upendra Narain Singh (Cong.), (Sonbarsa) (Sahara Dist.); Jageshwar Hajra (SC) (Cong.), (Sonbarsa (R); vacant (Sonbarsa) (Muzaffarpur Dist.); Ram Binod Singh (Ind.), (Sonpur); Karpuri Thakur (PSP), (Tajpur); Dhan Singh Munda (ST) (Jharkhand), (Tamar (R); Basuki Nath Rai (Cong.), (Tarpur); Ramcharitra Sinha (Ind.), (Teghra); Sukhdeo Prasad Verma (Cong.), (Teker); Rameshwar Manjhi (SC) (Cong.), (Teker (R); Ram Lal Chamar (SC) (Cong.), (Topchanchi (R); Smt. Manorama Sinha (Cong.), (Topchanchi); Julius Munda (ST) (Jharkhand), (Torpa (R); Yogeshwar Jha (Cong.), (Tribeni); Tulmohan Ram (SC) (Cong.), (Tribeni); Ramchandra Prasad Sharma (Cong.), (Tundi); Chetu Ram (Wardahganj (R); Ramkrishnan Singh (Wardahganj); Sundar Singh (Cong.), (Warinagar East); Smt. Ram Kumari Devi (Cong.), (Warinagar West); Zawar Hussain (Cong.), (Ziradei); Smt. Elsie Augier (nominated Anglo-Indian).

Total no. of members : 108.

Chairman : Bhogilal Dhirajlal Lala.

Dy. Chairman : Kumari Jethi T. Sipahimalani.

An estimate of party position is as follows :— Cong. 75; Samiti 9; Gujarat Janta Parishad 3; Peasants and Workers Party 2; Praja Socialist Party 3; Republican Party Group 1; Communist 2; Red Flag 1; Jan Sangh Hindu Maha Sabha 1; Independents 9 and Mazdoor Kisan 1.

Abdul Rahamankhan Mohamed Yusufkhan (Cong.), (Marathwada—Local Authorities); Acharya, Labhankar Devshankar (Cong.), (Saurashtra—Local Authorities); Agarwal, Dayashankar Biharlal (P.S.P.), (Maharashtra South—Local Authorities); Agrawal, Kashinath Mannalal (Cong.), (Elected by Bombay Legislative Assembly); Agrawal, Mukhadeo Shaligram (Cong.), (Elected by Bombay Legislative Assembly); Alshi, Mahadeo Supadaji (Cong.), (Elected by Bombay Legislative Assembly); Ambekar, G. D. (Cong.), (Nominated); Amin, Jadoonbhai (I.J.P.), (Elected by Bombay Legislative Assembly); Awode, Haridas Damaji (R.P.G.), (Elected by Bombay Legislative Assembly); Bhaurao Narasingrao, (Cong.), (Marathwada—Local Authorities); Badave, Baburao Pralhad (Cong.), (Elected by Bombay Legislative Assembly); Balbude, Ramrao Narayanrao (Cong.), (Vidarbha—Local Authorities); Barilvala, Chunilal Damodar (Cong.), (Greater Bombay—Maharashtra West—Local Authorities); Benadikar, Sadasshiv Laxman (Cong.), (Elected by Bombay Legislative Assembly); Bhadrala, Chhaganlal Nanji (Cong.), (Elected by Bombay Legislative Assembly); Bhat, Atmaram Ranji (Cong.), (Elected by Bombay Legislative Assembly); Bhatt, Chhotalal Chhaganlal (Cong.), (Gujarat North—Local Authorities); Bhatt, Basiklal Shankarlal (C.P.I.), (Elected by Bombay Legislative Assembly); Bhilde, Hari Bhaskar (H.M.), (Elected by Bombay Legislative Assembly); Chandrasekharrao Nandkishore Bajpal (Marathwada—Local Authorities); Chhapekar, Laxman Nilkanth (Ind.), (Greater Bombay—Maharashtra—Teachers); Dahanukar, Shantaram Mahadeo (Ind.), (Elected by Bombay Legislative Assembly); Dalal, Rejonji Aderji (Cong.), (Greater Bombay—Maharashtra West—Local Authorities); Dave, Ratilal Muljibhai (Ind.), (Gujarat—Teachers); Desai, Maganbhai P. (Cong.), (Nominated); Deshmukh, Ishwar Bagji (Cong.), (Vidarbha—Local Authorities); Deshmukh, Vasantrao Balwant (Ind.), (Maharashtra South—Local Authorities); Deshpande, Dhondo Vitthal (Samiti), (Greater Bombay—Maharashtra—Teachers); Devji Ratteney, (Cong.), (Greater Bombay—Maharashtra West—Local Authorities); Dhok, Pralhad Sadasshiv (Cong.), (Nominated); Diwanji, Lalchand Chhotubhai (Cong.), (Gujarat South—Local Authorities);

BOMBAY LEGISLATIVE COUNCIL

Donde, Moreshwar Vasudeo (Ind.), (Greater Bombay—Maharashtra—Teachers); Gadgil, Pandurang Vasudeo (Cong.), (Elected by Bombay Legislative Assembly); Galkwad, Madhav Bayaji (C.P.I.), (Maharashtra North—Local Authorities); Galwankar, Dr. Sadanand Keshav (Cong.), (Maharashtra North—Local Authorities); Girame, Jagannath Haribhau (Cong.), (Maharashtra South—Local Authorities); Hamied, Dr. K. A. (Cong.), (Nominated); Harria, Molnuddin Burhanuddin (Samiti), (Greater Bombay—Graduates); Jawade, Janrao Harbaji (Cong.), (Vidarbha—Local Authorities); Kale, Malharao Narayanrao (Ind.), (Vidarbha—Teachers); Karve, Dr. Dinkar Dhondo (Samiti), (Maharashtra—Graduates); Khode, Pralhad Narayan (Cong.), (Vidarbha—Graduates); Korpe, Jagannath Nathuji (Cong.), (Elected by Bombay Legislative Assembly); Koli, Ganapati Nayaku (Samiti), (Maharashtra South—Local Authorities); Kotecha, Harjitwan Vitaldas (Cong.), (Saurashtra—Local Authorities); Kulkarni, Shrimati Sushila Jayadeo (Cong.), (Nominated); Lala, Bhogilal Dhirajlal (Cong.), (Gujarat North—Local Authorities); Londhe, Shankar Ramchandra (Cong.), (Vidarbha—Teachers); Mali, Gajmal Dalpat (Cong.), (Maharashtra North—Local Authorities); Maniar, Lalubhai Kishandas (Cong.), (Elected by Bombay Legislative Assembly); Mehta, Chandrakant Chhotalal (Cong.), (Elected by Bombay Legislative Assembly); Mehta, Dinkarrao Krishnalal (G.J.P.), (Gujarat North—Local Authorities); Mehta, Gulabhbhai Bhikhabhai (Cong.), (Gujarat South—Local Authorities); Mehta, Sanatkumar Maganlal (G.J.P.), (Gujarat South—Local Authorities); Mehta, Chhabildas Pragji (P.S.P.), (Saurashtra—Local Authorities); Mohamed Taher Habib, (Cong.), (Elected by Bombay Legislative Assembly); Momin, Gulam Haider Walimohammed (Cong.), (Elected by Bombay Legislative Assembly); Nagori, Smt. Madinabai Akbarbhai (Cong.), (Elected by Bombay Legislative Assembly); Nalk, Prataprao Pandurang (Cong.), (Maharashtra South—Local Authorities); Nemichand Khandas, (Cong.), (Elected by Bombay Legislative Assembly); Nalavade, Ganpat Mahadeo (Samiti), (Elected by Bombay Legislative Assembly); Ogale, Shankar Laxman (Ind.), (Greater Bombay—Maharashtra—Teachers); Page, Vitthal Sakharam (Cong.), (Elected by Bombay Legislative Assembly); Pandit Rao, (P.W.P.), (Elected by Bombay Legislative Assembly); Paranjpe, Smt. Shakuntala (P.S.P.), (Nominated); Parashar, Vinayakumar Ramlal (Cong.), (Vidarbha—Local Authorities); Parekh, Smt. Bhanumatiben Manilal (Cong.), (Elected by Bombay Legislative Assembly); Patel, Bhaskar Rambhai (Cong.), (Elected by Bombay Legislative Assembly); Patel, Chunibhai Muljibhai (Cong.), (Gujarat South—Local Authorities);

Patel, Maganbhai Bhikhabhai (Cong.), (Gujarat South—Local Authorities); Patel, Motibhai Deshaibhai (Cong.), (Gujarat—Graduates); Pathan, Sulemankhan Abdullahkhan (Cong.), (Elected by Bombay Legislative Assembly); Patil, Atmaram Nana (M.K.), (Elected by Bombay Legislative Assembly); Patil, Kashirao Balbhan (Samiti), (Vidarbha—Local Authorities); Patwari, Prabhudas Balubhai (Cong.), (Gujarat North—Local Authorities); Phatak, Vinayak Ganesh (R.F.), (Elected by Bombay Legislative Assembly); Ratanlal Mohanlal (Cong.), (Nominated); Rawat, Bachubhai Popatbhai (Cong.), (Nominated); Rodrigues, Leo (Cong.), (Nominated); Rebello, Dr. Alfred Camillo Peter (Cong.), (Elected by Bombay Legislative Assembly); Sahasrabudhe, Digambar Hari (Ind.), (Vidarbha—Teachers); Sanghavi, Smt. Dhirajben Pupatlal (Cong.), (Elected by Bombay Legislative Assembly); Sarnalk, Smt. Malatibai Ramrao (Cong.), (Elected by Bombay Legislative Assembly); Sathaye, Dr. Vaman Dinkar (Ind.), (Maharashtra—Graduates); Samarth, Ramkrishna Fakruji (Samiti), (Elected by Bombay Legislative Assembly); Shah, Smt. Anasuya Chhotalal (Cong.), (Elected by Bombay Legislative Assembly); Shah, Chimaualal Kuberdas (Cong.), (Elected by Bombay Legislative Assembly); Shaw, David Fakirchand (Cong.), (Greater Bombay—Maharashtra West—Local Authorities); Shende, Bhaurao Vithoba (Cong.), (Elected by Bombay Legislative Assembly); Shukla, Bakkrishna Dinamanishankar (Cong.), (Saurashtra—Local Authorities); Shukla, Damubhai Chhaganbhai (Cong.), (Gujarat—Graduates); Shukla, Shrimati Jyotsnaben Bahusukthram (Cong.), (Elected by Bombay Legislative Assembly); Sipahimalani, Kumari Jethi T. (Cong.), (Nominated); Sodhi, D. R. (Ind.), (Nominated); Sthalekar, Anant Keshavnagar (Cong.), (Greater Bombay—Graduates); Subhedar, Vishwanath Madhav (Samiti), (Vidarbha—Graduates); Suryavanshi, Bhagwan Dnyanadeo (Samiti), (Elected by Bombay Legislative Assembly); Thacker, Karandas Hirji (Cong.), (Elected by Bombay Legislative Assembly); Thakore, Thakorlal Shripatri (Cong.), (Gujarat—Teachers); Thete, Gopal Ramji (Cong.), (Maharashtra North—Local Authorities); Thorat, Sambhajirao Maruti (Cong.), (Elected by Bombay Legislative Assembly); Tilawat Ali (P.W.P.), (Elected by Bombay Legislative Assembly); Trivedi, Dwarkadas Nanji (Cong.), (Saurashtra—Local Authorities); Trivedi, Harbhai D. (Cong.), (Nominated); Veer, Kisan Mahadev (Cong.), (Elected by Bombay Legislative Assembly); Vishwanath Rao Madhav Rao (Cong.), (Elected by Bombay Legislative Assembly); Vyas, Bachharaj Shyamal (Samiti), (Vidarbha—Graduates); Yardi, Wamanrao Gangadhar (Cong.), (Maharashtra North—Local Authorities).

BOMBAY LEGISLATIVE ASSEMBLY

Constituencies : 330 (S.M. 282 ; D.M. 57). Seats : 397 (including one Anglo-Indian nominee). (S.C. 43 ; S.T. 31). Electorate : 2,44,58,672.

Speaker, S. L. Sillam.

Deputy Speaker, Dindayal Gupta.

An estimate of party position is given below : Congress 234 ; Praja Socialist Party 34 ; Communist Party of India 18 ; Bharatiya Jan Sangh 4 ; Peasants and Workers' Party 26 ; Republican Party Group 16 ; Red Flag 8 ; Samyukta Maharashtratravadi Congress Jan Parishad 6 ; Maha Gujarat Janata Parishad 27 ; Masdoor & Kisan 4 ; Nominees 1 ; Hindu Mahasabha 1 ; Independents 15 and Vacant 8.

The P.S.P., Communists, Jan Sangh, Peasants and Workers, Scheduled Castes Federation (now Republican Party), Hindu Mahasabha and some Independents form the Samyukta Maharashtra Samiti. The strength is about 123.

The Mahagujarat Parishad has a strength of about 27. Officially the members contested the election as Independents.

Jamnatray Gulab Shanker Vaidya (Cong.), (Amdara) ; Madhachao Bhagwantrao Patil (Cong.), (Achalpur) ; Vasant Rao G. Pawar (Cong.), (Amdapur) ; Tulsi Ram Dashrath Kamble (SC) (Cong.), (Amdapur) ; Bhavanishankar Bajaji Mehta (Cong.), (Amdapur) ; Prabhakar Kondaji Bhaskar (R.F.), (Ahmednagar North) ; Trimbak Shivram Bhardre (Cong.), (Ahmednagar South) ; Chhanuulal Kalyan Singh Chandel (Cong.), (Akalkot) ; Madhusudan Atmaram Valrae (Cong.), (Akola) ; Saqui (Niyazi) Mohammad Subhan (Cong.), (Akola) ; Dattatraya Narayan Patil (P.W.P.), (Akola) ; Madhav Golu Patil (Cong.), (Amalner) ; Jalamkhan Sandebaj Khan Tadavi (ST) (Cong.), (Amalner) ; Nana Jedhe (Cong.), (Ambed) ; Baburao Krishnaji Chholap (S.M.C.P.), (Ambeqoon) ; Smt. Nushilbaji Keshachao Ingle (Cong.), (Ambeqoon) ; Kumari Malibai Wamanrao Joshi (Cong.), (Amravati) ; Dr. Jivraj Narayan Mehta (Cong.), (Amravati) ; M. S. Patel (Cong.), (Anand North) ; Smt. Kamlabai Maganbhai Patel (Cong.), (Anand South) ; Premji Bhavanji Thacker (Cong.), (Anjar) ; Harisinh Bhagubawa Mahida (Cong.), (Ankleshwar) ; Krishnayya Venkayya Tadarwar (Cong.), (Armori) ; Baburao Marutaro Deshmukh (Cong.), (Arvi) ; Vishwanath Dagadaji (Cong.), (Ashti) ; Mir Mahmood Ali (Cong.), (Aurangabad) ; Devising Venkatsing Chauhan (Cong.), (Awas) ; Purushottam Kashirao Deshmukh (Cong.), (Bardane) ; Narayan Manasaram Sonawane (R.F.), (Baglan) ; Kasi Syed Ghiyasuddin Kasi Syed Nasiruddin (Cong.), (Bakapur) ; Purushottam Ganesh Kher (Cong.), (Bandra) ; Bahadurbhai Kutubhai Patel (Cong.), (Bansda) ; Nanasabhai Bajaji Jagtap (P.W.P.), (Baramati) ; Sambhaji Bandoba Londhe (SC) (R.F.P.), (Baramati) ; Kalyanjibhai Vithalbhai Mehta (Cong.), (Bardoli) ; Jayantkumar Kashiram Pandya (G.J.P.), (Baria) ; N.D. Chokshi (Cong.), (Baroda City East) ; Bhailalbhaji Garbad-das Contractor (Cong.), (Baroda City West) ; Shivaji Parasharam Arya (Cong.), (Barni) ; Ranga Rao P. Deshmukh (P.W.P.), (Basmath) ; Sadanand Gopal Warty (P.S.P.), (Bassein) ; Lalusing Kishorsing Bhahevar (G.J.P.), (Bayad) ; Narain Harbaji Mathankar (Cong.), (Bhadrawati) ; Dada Dajiba Dhote (Cong.), (Bhandara) ; Sitaraj Jalram Bhambore (SC) (Cong.), (Bhandara) ; Harilal Bamji Nakum (Cong.), (Bhanwad) ; Virilal Gokaldas Vora (Cong.), (Bhanwad) ; Khimjiabhai Rupabhai Farmer (ST) (Cong.), (Bhiloda) ; Harilal M. Gandhi (Cong.), (Bhiloda) ; Smt. Shantabai Kotecha (Cong.), (Bhar) ; Bhalachandra Shivram Patil (P.W.P.), (Bhivani) ; Yeshwant Gunaji Ambekar (ST) (P.W.P.), (Bhivani) ; Bhagwant Rao G. Gadhe (Cong.), (Bhokardhan) ; J. Parasharam Mali (R.F.), (Bhor) ; Kaka Gopal Desai (C.P.I.), (Bhadrapad) ; Kundanlal Jashwant Lal Dholakia (Cong.), (Bhus) ; Dattatraya Senu Bhilud (Cong.), (Bhusawal) ; Jalwant Rao D. More (Cong.), (Bhildi) ; Laxman Jakaji Dange (SC) (Cong.), (Bhildi) ; Jashwantlal Pranjivandas Parekh (Cong.), (Borli) ; Shivabhai Anabhai Patel (Cong.), (Borsad North) ; Madhavsingh Fulsing Solanki (Cong.), (Borsad South) ;

Ohaganbhai Laljibhai Gopani (Cong.), (Botad) ; Murharirao Krishnarao Nagmoti (Cong.), (Brahmapur) ; Govind Biji Mehar (SC) (Cong.), (Brahmapur) ; Bhupendra Bhai Bapal Modi (G.J.P.), (Broach) ; Smt. Indirabai Ramrao Kotamkar (Cong.), (Buldhana) ; Gopalji Dabhyabhai Desai (Cong.), (Bulsar) ; Naranbhai Madhavbhai Rathod (SC) (Cong.), (Bulsar) ; Bapurao Dhondiba Jagtap (C.P.I.), (Byrulla) ; Paljibhai Hamabhai Boricha (SC) (R.F.P.), (Byrulla) ; Janab Hussein Yawar Khan (Cong.), (Cambay) ; Rajaram Bhilla Sonawane (P.S.P.), (Chaligaon) ; Khodabhai Shivabhai Patel (G.J.P.), (Chanasma) ; Laxmanrao Krishnaji Wasekar (Cong.), (Chanda) ; Narsingh Bhujang Patil (Ind.), (Chandapad) ; Pundalik Bal-krishna Choro (Cong.), (Chandur) ; Indravadan-rail Manmohanrai Osa (Cong.), (Chembur) ; Bhagvanbhai Ranchhod Patel (Cong.), (Chhota Udepur) ; Bhailalbhaji G. Tadavi (ST) (Cong.), (Chhota Udepur) ; Namdeo Punaji Pawar (Cong.), (Chikhi) ; Smt. Shantabai Kallidas Patel (Cong.), (Chikhi) ; Shankar Ganu Tambikar (C.P.I.), (Chiplun) ; Gangaram Bhikaji Kamble (SC) (R.F.P.), (Chiplun) ; Smt. Kikiben alias Urmilaben Premshankar Bhatt (Cong.), (Chorasi) ; Kalamrao Shankar Dharla (Cong.), (Colaba) ; Ambalal Chhotalal Shah (Cong.), (Daholi) ; Dr. Trimbak-rao Ramchandra Naravane (S.M.C.P.), (Dadar) ; Shamrao Ramchandra Patil (Cong.), (Dahanu) ; Santu Devoo Thakaria (ST) (Cong.), (Dahanu) ; Naranbhai Lashabhai Patel (Ind.), (Dange) ; Dr. Purohottam Vasudev Mandlik (P.S.P.), (Dapoli) ; Mohanlal Popatlal Vyasa (Cong.), (Daria-pur Karpur) ; Deorao Shioram Patil (Ind.), (Daruha) ; Narayan Uttam Rao Deshmukh (Cong.), (Daryapur) ; Kisanrao Narayanrao Khandare (SC) (Cong.), (Daryapur) ; Chhotalal Narandas Patel (G.J.P.), (Daskroli) ; Popatlal Mul-shankar Joshi (Cong.), (Deesa) ; Gamanbhai Nanji Farmer (SC) (Cong.), (Deesa) ; Chatur-bhai Mangalabai Amin (G.J.P.), (Dehgum) ; Jagannath Ramkrishna Tawade (P.W.P.), (Dengad) ; Dwarkadas Amratilal Patel (G.J.P.), (Dhondhuka) ; Rama Balu Jadhav (P.S.P.), (Dharapur) ; Shankar Rao Bhaurao Chauhan (Cong.), (Dharmabad) ; Dr. Kallansarayan Shiv-narayan Karola (Cong.), (Dhoti Talao) ; Manek-lal Chunilal Shah (Cong.), (Dholka) ; Bhagwanji Bhanji Patel (Cong.), (Dhoraji) ; Bhupatbhai Virajilal Desai (Cong.), (Dhrangadhra) ; Chuda-man Ananda Raundale (Cong.), (Dhulia North) ; Ramdas Bhagvan Chaudhari (C.P.I.), (Dhulia South) ; Madhoroa Baburao Mahindra (Cong.), (Digra) ; Fakirao Sakharam Deskar (C.P.I.), (Dindori) ; Ramdas Pandu Bagul (ST) (O.P.I.), (Dindori) ; Jaysing Mansing Solanki (Cong.), (Dohad) ; Abdul Kadar Hafizka (Cong.), (Dongri) ; Bhudarji Dosabhai Mesh-wania (Cong.), (Dwaraka) ; Ganpatram Gokaldas Patel (G.J.P.), (Elite Bridge) ; Sitaraj Hirachand Biria (Cong.), (Erandoli) ; Dnyandeo Santram Narvekar (P.W.P.), (Gadhinglaj) ; Sakharam G. Nakhate (Cong.), (Gangakhed) ; N. D. Pagare (SC) (Cong.), (Gangakhed) ; Mrs. K. Choudhury (Ind) (Gangapur) ; Dr. L. M. Pansambal (Cong.), (Geor-gi) ; Pralhad Keshav Atre (Ind.), (Girgaum) ; Pratapsingh Motilal (Cong.), (Godhra) ; Sham-prasad Rupshankar Vasavda (Cong.), (Gomtipur) ; Jesingji Govindbhai Farmer (SC) (Cong.), (Gomti-pur) ; Manoharabhai Babarabhai Patel (Cong.), (Gondia) ; Purnalal Dharmabhai Rahangdale (P.S.P.), (Goregaon) ; Dattatraya Yeshwant Vilan-kar (J.S.), (Guhagar) ; Smt. Anjanabai Jalwantarao (Cong.), (Hadgaon) ; Vijaysinhji Bharatinsinji Chauhan (Cong.), (Halel) ; Triambakali Mohan-lal Dave (Cong.), (Halel) ; Santram Sakharam Patil (R.F.), (Halkanangale) ; Dadasaheb Malhar-rao Shirke (SC) (R.F.P.), (Halkanangale) ; Ram Dashrath Tupe (P.S.P.), (Haveli) ; Puro-shottam Martandao Chowre (SC) (R.F.P.), (Haveli) ; Keshachao Motiram Zade (Cong.), (Hinganghat) ; B. K. Patil (Cong.), (Hingoli) ; S. N. Choudhari (SC) (Cong.), (Hingoli) ; Vadilal Premchand Mehta (Cong.), (Idar) ;

Govindbhai Manabhai Bhambhi (Cong.), (Idar) ; Punaji Laxman Govardhane (C.P.I.), (Igatpur) ; Shankarrao Bajirao Patil (Cong.), (Indapur) ; Sadashio Vithal Umekar (Cong.), (Jalamb) ; Sadashiv Narayan Bhalerao (C.P.I.), (Jalgaon) ; K. B. Jainawalla (Cong.), (Jaina) ; Dhondi Raj Ganpat Rao (SC) (Cong.), (Jaina) ; Chhipa Karim Rahmani (Cong.), (Jamalpur) ; Chhotubhai Makanbhai Patel (Cong.), (Jambusa-r) ; Nanji Devji Sinojia (Cong.), (Jamjodhpur) ; Smt. Manjulaben Jayantilal Dave (Cong.), (Jam-nagar) ; Gajananrao Bhagunath Rao Garud (P.S.P.), (Jamner) ; Krishnarao Haribhau Tarade (M.K.), (Janki) ; Akbarlal Amiji Jashanwala (Cong.), (Jasdan) ; Vilay Sinharao Ramrao Dafe (Ind.), (Jeth) ; Trimbak Bhaui Mukane (Cong.), (Jawhar) ; Gajanan Bhavanishankar Joshi (Cong.), (Jaspur) ; Dalpatbhai Amarinsinh Vasawa (Cong.), (Jhagadia) ; Narsinhbhai Kanji-bhai Hathila (Cong.), (Jhalod) ; Wamanrao A. Nayak (Cong.), (Jintur) ; Kantilal Prem-chand Shah (Cong.), (Jodla) ; Smt. Pushapaben Janardan Mehta (Cong.), (Jumagadhi) ; Shivaji Mahadu Kale (P.S.P.), (Junner) ; Chhotalal Maganlal Patel (G.J.P.), (Kadi) ; Smt. Vimalabai Vasant Bagal (Ind.), (Kagol) ; B. Mahalingaswami (Cong.), (Kai) ; G. K. Gaikwad (SC) (Cong.), (Kai) ; Ramanlal Nagjibhai Patel (Cong.), (Kaira) ; Smt. Tarabai Mansing (Cong.), (Kalam) ; Revappa Krishappa Mane (SC) (Cong.), (Kalam) ; Sheshrao Krishnarao Wankhede (Cong.), (Kalamshwar) ; Shankarji Maganji Thakarda (G.J.P.), (Kalo) ; Jayanti Ghelabhai Dalal (G.J.P.), (Kalepur) ; Krishnarao Narayan Dhulup (P.W.P.), (Kalyan) ; Prabhulal Dhanabhai Patel (Cong.), (Kamrej) ; Bhaskar Balkrishna Sawant (P.W.P.), (Kankari) ; Shantilal Sarup-chand Shah (Cong.), (Kankrej) ; Baburao Manik-rao Patel (Cong.), (Kannad) ; Nagindas Vadilal Gandhi (Ind.), (Kopasdev) ; Yashwantrao Balvantrao Chavan (Cong.), (Kard North) ; Yeshwantrao Jijaba Mohite (M.K.), (Kard South) ; Smt. Maniben Chaudubhai Patil (C.P.I.), (Karjan) ; Vishnu Dattatraya Chitale (C.P.I.), (Kasbe Path) ; Shankarrao Daulatrao Gedam (Cong.), (Kasol) ; Trimbak Dattatraya Deshmukh (Cong.), (Kasapur) ; Brahmakumar Ranchhod-lal Bhatt (G.J.P.), (Khadia) ; Govindas Ratnaji Bhatia (Cong.), (Khamgaon) ; Keshav Rao Dhondge (P.W.P.), (Khandhar) ; Keshavrao S. Patil (P.S.P.), (Khatav) ; Tarachand Hirachand Wadgaonkar (P.S.P.), (Khad) (Poona Dt.) ; Jagannath Shivram Patne (R.F.P.), (Khad) (Ratnagiri Dt.) ; Natvarlal Maganlal Patel (R.F.P.), (Kharala) ; Uttam Baliram Rathod (Cong.), (Khatav) ; Pandurang Bapurao Salokhe (P.W.F.), (Khatapur) ; Vishwasrao Vithalrao Mane (Cong.), (Koragaon) ; Bhanushankar Manoharham Yagnik (Cong.), (Kumbharsada) ; Amulakhrui Kushalnand Khimani (Cong.), (Kundli) ; Devsinhaji Nanjibhai Balyani (Cong.), (Kuntaseer) ; Tapubhai Pragji Vaghela (SC) (Cong.), (Kuntaseer) ; Dr. Smt. Anjanabai Narhar Mugar (Cong.), (Kuria) ; Mathuradas Gordhandas Bhupta (Cong.), (Kutiyasa) ; Shaashishakar Kashinath Athale (Ind.), (Lanja) ; Smt. Sumitaben Hariprasad Bhatt (Cong.), (Lathi) ; Keshavrao S. Sonawane (Cong.), (Latur) ; Virsinghbhai Kanjibhai Nisarta (Cong.), (Lan-sheda) ; Shivprasad Bapuji Bhatt (G.J.P.), (Lunsavada) ; Namdeo Mahadeo Jagtap (Cong.), (Madha) ; Ganpat Laxman Sonawane (SC) (Cong.), (Madha) ; Digambar Vinayak Puro-hit (P.S.P.), (Mahad) ; Homi Jehangir Taleyav-khan (Cong.), (Mahadasm) ; F. M. Pinto (P.S.P.), (Makim) ; Jaswantrao Nanubhai Mehta (P.S.P.), (Makuse) ; Haroon Ahmed Ansari (P.S.P.), (Malagaon) ; Kanji Kachara Mhori (Cong.), (Malka) ; Bhiku Fakira Shelki (Cong.), (Malkapur) ; Shankarrao Narayanrao Mohite (M.K.), (Malsirao) ; Dr. Shridhar Balkrishna Manjarekar (J.S.), (Malwa) ; Salebhai Abdul Kadar (Cong.), (Mandvi) (Greater Bombay Dt.) ; Jumaabhai Lakshmichand (Cong.), (Mandvi) (Kutch Dt.) ; Surendranath Govind Tipale (P.S.P.), (Mangano) ; Tanaji Ganpat Gaikwad (R.F.P.), (Mangano) ;

- (R); Ramji Parbat Vikani (Cong.), (Mangrol (Soreth Dt.)); Haribhai Ranabhai Bhaskar (SC) (Cong.), (Mangrol (R) (Soreth Dt.)); Hitendra Kanayalal Desai (Cong.), (Mangrol (Soreth Dt.)); Brijlal Nandlal Bhatnagar (Cong.), (Mangrol (Soreth Dt.)); Suddar Ali Sujatali (Cong.), (Mangrol (Soreth Dt.)); Madhavlal Bhalal Shah (Cong.), (Mangrol (Soreth Dt.)); Madhavrao Ganapatrao Mane (P.S.P.), (Mangrol (Soreth Dt.)); Jagannath Ganpatrao Bhatnagar (SC) (P.G.), (Mangrol (Soreth Dt.)); Ramchandra Kashinath Bhalal (J.S.), (Mangrol); Dr. D. L. Anande (S.M.C.P.), (Mangrol); Shankarrao Vitthalrao alias A. Deshmukh (P.W.P.), (Mangrol); Tuladram Rodu Kakkal (SC) (P.G.), (Mangrol); Popatlal Gulabdas Patel (G.J.P.), (Mangrol); Smt. Kokilabai Jagannath Gawande (Cong.), (Mangrol); Gundu Dashedra Patil (Cong.), (Mangrol); Smt. Hirabai Anandao Salao (Cong.), (Mangrol); Gokaldas Doshabhai Parmar (Cong.), (Mangrol); Shantaram Balakrishna Thakare (P. W. F.) (Mangrol); Smt. Kusum Wamanrao Korpe (Cong.), (Mangrol); D. S. Palasagar (SC) (Cong.), (Mangrol); Udesinh Viratnath Vadodia (Cong.), (Mangrol); Mahendrabhai Gopaladas Desai (G.J.P.), (Mangrol); Vishwanath R. Tulla (S.M.C.P.), (Mangrol); Ardhendu Bhushan Hemendra Kumar Bardhan (C.P.I.), (Mangrol); Punjabrao Hukam Shambharkar (SC) (P.G.), (Mangrol); Madan Gopal Agrawal (Cong.), (Mangrol); Dindayal Nandram Gupta (Cong.), (Mangrol); Vitthalrao Devdasrao Deshpande (C.P.I.), (Mangrol); Bhauasheb Sakharam Hiray (Cong.), (Mangrol); Dalpat Buehar Bhill (Cong.), (Mangrol); Vitthalrao Ganpatrao Hande (P.W.P.), (Mangrol); S. L. Kamble (SC) (P.G.), (Mangrol); Gordhan Chhipa Bhill (ST) (Cong.), (Mangrol); Lallobhai Makani Patel (Cong.), (Mangrol); Bhanabhai Dahyabhai Rathod (ST) (Cong.), (Mangrol); Abhramaji Dongarsing Chaudhari (ST) (Ind.), (Mangrol); S. G. Solenke (P.W.P.), (Mangrol); Deoram Sayaji Wagh (C.P.I.), (Mangrol); Smt. Nirmala Raje V. Bhosale (Cong.), (Mangrol); V. N. Haralkar (Cong.), (Mangrol); Udhavrao S. Patil (P.W.F.), (Mangrol); Jaswantil Sobhagya-chand Shah (Cong.), (Mangrol); Venkat Rao Jadhav (Cong.), (Mangrol); Galabhai Nanjibhai Patel (Cong.), (Mangrol); Durgabhai Bhagwanbhai Parmar (ST) (Cong.), (Mangrol); Navnitrai Bhogilal Shah (P.S.P.), (Mangrol); Smt. Kasturben Jorish Indrani (Cong.), (Mangrol); Onkar Narayan Wagh (P.S.P.), (Mangrol); N. P. Patwardhan (Smiti); (Mangrol); Babajirao Balasaheb Desai (Ind.), (Mangrol); Dinkar Balu Patil (P.W.P.), (Mangrol); Anaji B. Gavane (P.W.P.), (Mangrol); Uttam Harji Patel (P.S.P.), (Mangrol); Vyankatesh Appa Shenoy (P.S.P.), (Mangrol); Shantilal Harjivan Shah (Cong.), (Mangrol); Bhaskar Tukaram Auti (C.P.I.), (Mangrol); Shrinivas Chuni Lal Marwadi (J.S.), (Mangrol); Bhagwanrao D. Borade (Cong.), (Mangrol); Chimanlal Wadilal Shah (Ind.), (Mangrol); Laxmanbhai Samjibhai Bhanbharia (SC) (G.J.P.), (Mangrol); Deulatrao Shripatrao Desai (Cong.), (Mangrol); Narayan G. Advad (C.P.I.), (Mangrol); Vasant Bajaram Raut (P.W.P.), (Mangrol); Govind Sonu Karkari (ST) (P.W.F.), (Mangrol); Manilal Prabhulal Parikh (Cong.), (Mangrol); Sadasivrao Marutirao Bandisole (SC) (P.G.), (Mangrol); Haribhai Vitthalrao Nimbalkar (C.P.I.), (Mangrol); Vitthal N. Shivarkar (P.S.P.), (Mangrol); Poona Cantt.; Maldevji Mandalki Odedra (Cong.), (Mangrol); Smt. Ranjanben Madhukumar Vora (Cong.), (Mangrol); Raghunathrao Anandao Pawar (P.W.F.), (Mangrol); Deulat Phulging Naik (Cong.), (Mangrol); Deulat Laxman Khadse (SC) (Cong.), (Mangrol); Dnyanadeo Santaram Khandekar (P.W.P.), (Mangrol); Maneklal Nathalal Vakharia (Cong.), (Mangrol); Laxmanrao Madhavrao Patil (S.M.C.P.), (Mangrol); Dr. Prabhat Mahadev Kulkarni (P.S.P.), (Mangrol); Jaysukhlal Karanji Shah (Cong.), (Mangrol); Suragbhai Kalubhai Varu (Cong.), (Mangrol); Ramchandra Ganpatil Dhote (Cong.), (Mangrol); Narendra Mahipati Tidke (Cong.), (Mangrol); Atmaram Vasudev Modak (P.S.P.), (Mangrol); Madhukar Dhanaji Chaudhari (Cong.), (Mangrol); Keshavrao Raghav Wankhede (SC) (Cong.), (Mangrol); G. C. Chaudhari (Cong.), (Mangrol); Pandurang Ramji Sonap (P.W.F.), (Mangrol); Adku Sonu Paulsage (Cong.), (Mangrol); Nishikrao Khandatiripade (SC) (Cong.), (Mangrol); Shankarrao Chindhuji Bedse (Ind.), (Mangrol); Rama Jirya Padvi (ST) (Ind.), (Mangrol); Vardmanbhai Lalbhai Mehta (G.J.P.), (Mangrol); Arjun Bapuji Vichare (Ind.), (Mangrol); D. A. Deshmukh (R.F.), (Mangrol); N. B. Navali (P.S.P.), (Mangrol); Vasantrao B. Patil (Cong.), (Mangrol); Keshavrao Shripatrao Raut (Cong.), (Mangrol); Maruti Mahadeo Kamble (SC) (Cong.), (Mangrol); Smt. Hirabai Lalchandbhai Nimam (Cong.), (Mangrol); Marotrao Sambhavi Kannamwar (Cong.), (Mangrol); Mohammad Abdulla Khan Pathan (Cong.), (Mangrol); Vitthal Nanasaheb Patil (B.F.), (Mangrol); Jasubhai Hathibhai Amin (Cong.), (Mangrol); Ramchandra Chhitabhai Solanki (SC) (Cong.), (Mangrol); Vacant (Sawant-wadi); S. G. Patkar (C.P.I.), (Mangrol); Vyankat Tanaji Dhobi (Cong.), (Mangrol); Chandrasingh Dhanka Bhandari (ST) (Cong.), (Mangrol); Tryambak Sitaram Karkhanis (P.W.F.), (Mangrol); Dalabhai Rajibhai Parmar (Cong.), (Mangrol); Eknath Laxman Bhagwat (C.P.I.), (Mangrol); Yeshwant Chandru Patil (P.W.F.), (Mangrol); Bhaskarrao Sadasiv Galande (C.P.I.), (Mangrol); Arjun Giri Pawar (SC) (P.G.), (Mangrol); Satagonda Revagonda Patil (P.S.P.), (Mangrol); Jayant Shridhar Tilak (H.M.), (Mangrol); Keshavlal Veerohand Shah (Cong.), (Mangrol); Bajaram Savalaram Dhavale (Cong.), (Mangrol); Nawsherwan Navrozji Sathia (R.F.), (Mangrol); Ramchandra Devkaji Pawar (SC) (P.G.), (Mangrol); Sridhar Mahadeo Joshi (P.S.P.), (Mangrol); Mafatlal Motilal Patel (G.J.P.), (Mangrol); N. V. Pathak (Cong.), (Mangrol); Shankar Gorakh Sonawase (P.S.P.), (Mangrol); Narayansinh Kondaji Nawale (P.S.P.), (Mangrol); Narayansinh Sampatninh Wasekar (P.S.P.), (Mangrol); Vishveshwar Rao (ST) (Ind.), (Mangrol); Shyamkant Damodar More (P.S.P.), (Mangrol); Hamir Sarman Solanki (Cong.), (Mangrol); Mavjibhai Chitambhai Chaudhari (Cong.), (Mangrol); Shantirappa Basappa Baswanti (Cong.), (Mangrol); Ishwarlal Gulabbbhai Desai (Cong.), (Mangrol); Mohd. Husein Abdul Samad Golandas (Cong.), (Mangrol); Basiklal Umdechand Parikh (Cong.), (Mangrol); Pethabhai Ganeshbhai Parmar (SC) (Cong.), (Mangrol); Jorish Kasalabhai Indrani (Cong.), (Mangrol); Gorji Surji Padavi (ST) (P.S.P.), (Mangrol); Ganapati Dada Lad (P.W.F.), (Mangrol); Dattatraya Balakrishna Tambane (P.S.P.), (Mangrol); Dhayal Manilal Mehta (Cong.), (Mangrol); Kishoresinh Chhagunsinh Gohil (G.J.P.), (Mangrol); Khushabhai Morabhai Dave (SC) (Cong.), (Mangrol); Shaligram Ramrajan Dixit (Cong.), (Mangrol); S. D. Hangarakekar (Cong.), (Mangrol); Aoo Malku Makade (Cong.), (Mangrol); Navandram Vishindas Gurbani (Cong.), (Mangrol); Sadasiv Rajaram Samarth (Cong.), (Mangrol); Anantaram Dayal Choudhari (SC) (Cong.), (Mangrol); Ratubhai Mulshankar Adani (Cong.), (Mangrol); Smt. Trilochana Ushakant Dholakia (Cong.), (Mangrol); Mansinhji Bhassabhai Rana (Cong.), (Mangrol); Karanabhai Jorambhai Bhargodia (Cong.), (Mangrol); Narayan Mahadeo Chamankar (P.S.P.), (Mangrol); M. R. Jadhav (Ind.), (Mangrol); Gangaram Chuni Lal Raval (G.J.P.), (Mangrol); Becharadas Hargovanddas Patel (G.J.P.), (Mangrol); Dilipsinhji Prataplinghi Desai (G.J.P.), (Mangrol); Parmanandas Jivanbhai Kathrecha (Cong.), (Mangrol); Ramniklal Trikamal Maniar (G.J.P.), (Mangrol); Bhagwan Nanasaheb More (P.W.F.), (Mangrol); Pirajirao Tayapa Madhale (SC) (P.G.), (Mangrol); Dadasaheb Khasharrao Jagtap (M.K.), (Mangrol); Sayaji Laxman Silam (Cong.), (Mangrol); Nagunath Ramchandra Nayakavadi (R.F.), (Mangrol); Shridharrao Nathobaji Jawade (Cong.), (Mangrol); Kirtimantrao Bhujangrao (ST) (Cong.), (Mangrol); Smt. Hiralaxmi Keshavlal Sheth (Cong.), (Mangrol); Mahadeo Tukaram Thakre (Cong.), (Mangrol); Shankarrao Vitthalrao Sonawane (SC) (Cong.), (Mangrol); J. D. Bajurkar (Cong.), (Mangrol); R. G. Salve (SC) (Cong.), (Mangrol); Ramchandra Dhondiba Bhandare (P.G.), (Mangrol); Smt. Ramabai Narayan Deshpande (Cong.), (Mangrol); Dr. Dagu Shankar Kanade (P.S.P.), (Mangrol); Ramchandra Jagoba Kadu (Cong.), (Mangrol); Nominated (Anglo-Indian): N. R. Ferguson.

HIMACHAL PRADESH TERRITORIAL COUNCIL

Constituencies: 29 (S.M. 17; D.M. 12); Seats 41 + 2 (2 nominated members); S.C. 12; Electorate 6,72,680.

Chairman: Karam Singh.

Party position (estimate) in the Council: Congress: 23; Opposition: 20.

Gurditta Mal (Ind.), (Bharmaur); Bhagat Ram (Ind.), (Bhatiyar); Sant Ram Sant (Ind.), (Bhatiyar); Karam Singh (Cong.), (Chachiot); Pira Ram (Cong.), (Chachiot); Chatar Singh (Cong.), (Chamba); Vidyadhar (Cong.), (Chamba); Ram Nath (Cong.), (Chamba); Gyan Singh (Cong.), (Chini); Bhagmal (Ind.), (Chopal); Chuni Lal (Ind.), (Churak); Chatroo Ram (Cong.), (Churak); Sant Ram (Cong.), (Dharampur); Har Govind Singh (Ind.), (Gehrwa); Santoo (Ind.), (Gehrwa); Narottam

Dutt (Ind.), (Ghumarwa); Sardaroo (Ind.), (Ghumarwa); Fateh Singh (Ind.), (Joginder-nagar); Paras Ram (Cong.), (Karsog); Sadh Ram (Cong.), (Kasumpti); Pura Chand (R.P.), (Kasumpti); Ram Lal (Ind.), (Kotkhai); Krishna Nand Swami (Cong.), (Mandi, Sader); Gopi Ram (Cong.), (Mandi, Sader); Hiten-dra Singh (Cong.), (Nahan); Jeet Singh (Cong.), (Pachhad); Manga (Cong.), (Pachhad); Gurucharan Singh Ghuman (Cong.), (Pang); Kalyan Singh (Cong.), (Paonta); Nehar Singh

(Ind.), (Rajgarh); Jai Bihari Lal (Ind.), (Rampur); Nahu Ram (H.F.), (Rampur); Guman Singh (Cong.), (Reinika); Pratap Singh (Cong.), (Reinika); Bhagat Chand (Ind.), (Rohrw); Om Chand (Ind.), (Sarbaghat); Nagim Chandra Pal (P.S.P.), (Solam); Kesho Ram (Cong.), (Solam); Lalit Sen (Cong.), (Sundernagar); Nakhbhinoo (Cong.), (Sundernagar); Rajendra Singh (Cong.), (Sunt).

R. P.—Republican Party.

JAMMU AND KASHMIR LEGISLATIVE COUNCIL

Strength: 36. Chairman: Sheonarayan Fotadar, M.A.

Deputy Chairman: Peer Ghyas-ud-Din, M.A., LL.B.

Local Authorities: Ghulam Mohammad Pampori; L. Dina Nath Mahajan.

Teacher's Constituency: Dina Nath Koul; Ghulam Rasool Asad.

Panchayat's Constituency: Kh. Ahsan Mir; Kh. Mukhtar Ahmed; Master Baidita.

Elected by the Legislative Assembly: Shibi Singh; Sanam Wargal; Habib Ullah; Peer Ghyas-ud-Din; Peer Gh. Mohammad Masaudi; Ghulam Mohi-ud-Din; Kh. Gh. Mustafa Tak; Sheikh Ghulam Rasool; Mohammad Maqbool Mahjoo; S. Mohan Singh; Haji Saffar Ali; Pt. Shiv Narayan Fotadar; Munshi Mohd. Anwar; Ghulam Hussain; Amar Chand;

Chela Singh; Wasir Ganga Ram; Mansukh Bai; Nasir Hussain Samnani; Om Prakash; Rattan Singh; Jotahi Ram Krishan; Bell Ram; Col. Ram Nath Chopra.

Nominated by the Sadr-ul-Burest: Ghulam Rasool Renu; Mir Alam; Mohammad Shaif (Bakarwal); Madan Lal; Jatinder Dev.

JAMMU AND KASHMIR LEGISLATIVE ASSEMBLY

Strength: 75 (Single Member Constituencies: 67; Double Member Constituencies: 4; Seats reserved for Scheduled Castes: 4; Total electorate in the State: 16,94,815.

The statutory strength of the Assembly is 100. Out of this 25-seats are reserved for Pakistan-occupied Kashmir.

National Conference: 56; Democratic National Conference: 13; Praja Parishad: 5; Harijan Mandal: 1.

Speaker, Asadullah Mir; Deputy Speaker, Mohammad Ayub Khan.

Sahdev Singh (Akhnoor-Chhamb); Satt Dev Akhnoor-Chhamb (R); Shyamal Saraf (Amira Kadal); Kh. Shamas-ud-Din (Anantnagh); Mohd. Ayub Khan (Arwar); Syed Ali Shah Safvi (Badgam); Kh. Kabir Khan (Bendipora-Gures); S. Harbans Singh Azad (Baramulla); Mahesh Chander (Bassohli); Chunilal Kotwal (Bhadrawah); Abdul Gani Goni (Bhalees-Bhurswah); Ram Chand Khajouria (Bilawar); Syed Abdul Qadoos Azad (Biruwa); Ram Piara Saraf

(Bishna-Samba); Nahar Singh (Bishna-Samba (R)); Prof. Abdul Qayum (Chrar-i-Sharif); Kh. Ghulam Ahmed Mir (Dachanpora); Mohammad Iqbal (Derhal); Ghulam Mohammad Mir (Dargam); Abdul Aziz Zargar (Derasar); Ghulam Ahmad Dev (Doda); Mir Qasim (Doru-Shahabad); Kh. Mohammad Sultan (Drugmulla); Ghulam Ahmad Sofi (Gandarbal); Pt. Durga Prasad Dhar (Haba-Kadal); Ghulam Rasool Kar (Hemal); Ghulam Qadir Masala (Handwara); Mohammad Yehya Siddiqi (Hasratbal); Pt. Prem Nath Dogra (Jammu City North); Ram Chand Mahajan (Jammu City South); Th. Rajendra Singh (Jammu Tehsil); Milkhi Ram (Jammu Tehsil (R)); Girdharilal Dogra (Jasmergarh); Mian Nisam-ud-Din (Kangan); Aga Syed Ibrahim Shah (Kargil); Mohammad Younis (Karnah); Piar Singh (Kathua); Abdul Rahman Butt (Khanyar); Abdul Rehman Mir Rahat (Khanasht); Noor-ud-Din Dar (Khowarpore); Kh. Mir Bad Shah (Kishtwar); Manohar Nath Kaul (Kothar); Abdul Kabir (Kulgam); Mott Ram Belgra (Lander Tiri); Kaushak Bakula

(Loh); Kh. Ghulam Nabi Wani (Lolab); Ghulam Mohammad Wani (Magam); Peer Jamait Ali Shah (Mendhar); Ghulam Ahmed (Nand); Ghulam Hassan Khan (Narawa); Syed Hussain (Neubug Valley); Krishen Dev Shethi (Nowshehra); Pargada Ghulam Jeelani (Pampore); Ghulam Mohammed Butt Jalib (Pattan); Master Ghulam Ahmad (Poonch); Kh. Bona Ullah Sheikh (Pulwama); Kh. Abdul Aziz Shawl (Rajouri); Ghulam Mohd. Rajpouri (Rajpora); Kh. Assad Ullah Mir (Ramban); Ghulam Mohammad Wani (Ramhal); Hem Raj Jandyal (Ramnagar); S. Kulbir Singh (Rambirsinghpore); Bhagat Chhajoo Ram (Rambirsinghpore (R)); Bikhri Kesh (Reasi); Bakhshi Ghulam Mohammad (Safa-Kadal); Sagar Singh (Samba); Kh. Abdul Khaliq Butt (Sawara); Abdul Majid Bandy (Shopian); Abdul Gani Malik (Sopore); Mohammed Akbar (Tangmery); Ghulam Mohammad Sadiq (Tenshpore); Kh. Abdul Gani Trali (Traf); Amar Nath Sharma (Udhampur); Ghulam Mohammad Afzal Khan (Uri); Mirwas Ghulam Nabi Hamdani (Zaddibal).

KERALA LEGISLATIVE ASSEMBLY

Constituencies: 114 (S.M. 102; D.M. 12); Seats: 127 (including one nominated); (S.C. 11; S.T. 1); Electorate: 75,14,626.

Speaker, R. Bankaranarayanan Thampi. Deputy Speaker, Kumari K. O. Aysha Bai.

An estimate of party strength is given below: (Communist Party of India: 65; Congress: 43; Praja Socialist Party: 9; Muslim League Party: 8; Independents: 2.

R. Krishnan (CPI), (Alathur); T. V. Thomas (CPI), (Alleppey); T. O. Bava (Cong.), (Alwaye); K. Govindankutty Menon (CPI), (Andathode); K. Gopinathan Pillai (Cong.), (Aranmula); R. Balakrishna Pillai (CPI), (Ariand); P. S. Karthikeyan (Cong.), (Arur); B. Prakasam (CPI), (Attingal); Kulu Mandoti Kunniyil (CPI), (Badagara); M. Narayana Kurup (PSP), (Balassery); Kannan Chaliyoth (CPI), (Cannanore I); K. P. Gopalan (CPI), (Cannanore II); K. Bhargavan (CPI), (Chadayamangalam); C. G. Janardhanan (PSP), (Chalady); P. K. Chathan (CPI), (Chalady); M. Kalyann Krishnan Nair (CPI), (Changanacherry); R. Shankaranarayanan Thampi (CPI), (Changanur); A. Balagopalan (Cong.), (Cheruvu); P. Balachandran Menon (CPI), (Chittur); K. Eacharan (SC) (Cong.), (Chittur (R)); E. Gopale Krishna Menon (CPI), (Cranganore); Smt. Boosamma Punnose (CPI), (Devicolum); N. Ganapathy (SC) (Cong.), (Devicolum (R)); A. K. Ramankutty (CPI), (Elappully); P. Ravindran (CPI), (Erattupuram); A. L. Jacob (Cong.), (Ernakulam); George Joseph (Cong.), (Ettimannur); P. K. Koru (C.P.I.), (Guruvayur); V. Ramakrishna Pillai (C.P.I.), (Haripad); K. Chandrasekharan (PSP), (Hosur); T. C. Narayanan Nambiar (CPI), (Irithur); C. Achutha Menon (CPI), (Irinjalakuda); M. C. Abraham (Cong.), (Kaduthuruthy); M. M. Mathai (Cong.), (Kalloppara); T. K. Ramakrishnan (CPI), (Kanyanur); K. T. Thomas (Cong.), (Kasiripally); Smt. Kuzumam Joseph (Cong.), (Kari-kode); Kunjukrishnan (Cong.), (Karunagapally); B. Sugathan (CPI), (Karthikapally); C. Kunhi-

krishnan Nair (Cong.), (Kasragod); Kumari K. O. Aysha Bai (CPI), (Kayamkulam); M. T. Gopalankutty Nair (Cong.), (Koduvally); M. P. M. Ahmmad Kurikkal (M.L.), (Kondotty); M. A. Antony (Cong.), (Kothakulangara); E. Chandrasekharan Nair (CPI), (Kottarakkott); P. Bhaskaran Nair (CPI), (Kottayam); Smt. Sarada Krishnan (Cong.), (Kozhikode I); P. Kumaran (Cong.), (Kozhikode II); G. Karthikeyan (CPI), (Krisnapuram); T. K. Krishnan (CPI), (Kunnankulam); Smt. Leela Damodara Menon (Cong.), (Kunnammangalam); P. R. Madhavan Pillai (CPI), (Kunnathur); P. Govindan (SC) (CPI), (Kunnathur (R)); C. Ahmedkutty (M.L.), (Kuttippuram); P. Ramunni Kurup (PSP), (Kuthuparamba); K. V. John (CPI), (Kuzhalmannam); K. P. R. Gopalan Nambiar (CPI), (Mudali); K. Hassan Gani (M.L.), (Malleppuram); Joseph Mundassery (CPI), (Manalur); P. P. Ummer Koya (Cong.), (Manjeri); M. Chadayan (SC) (M.L.), (Manjeri (R)); M. Umesh Rao (Ind.), (Manjerur); K. V. Muhammad (M.L.), (Mankada); K. Krishna Menon (CPI), (Manarghat); C. G. Sadasivan (CPI), (Mararikulam); K. K. Viswanathan (Cong.), (Mallencherry); N. E. Balaram (CPI), (Mallapur); K. C. George (CPI), (Mavelikara); P. K. Kunjachan (SC) (CPI), (Mavelikara (R)); P. M. Joseph (Cong.), (Moencott); K. M. George (Cong.), (Muvattupuzha); C. H. Kanaran (CPI), (Nadapuram); K. C. Abraham (Cong.), (Narakkal); K. S. Aduthan (Cong.), (Nattika); N. Neelakandharan Pandarathil (CPI), (Nedumangad); M. Sadasivan (CPI), (Nemom); R. Janardhanan Nair (CPI), (Neyyattinkara); R. M. S. Nambudripad (CPI), (Nilasur); Kallalan (SC) (CPI), (Nilasur (R)); P. E. Francis (Cong.), (Ollur); V. Kunhuni Nayar (CPI), (Ottapalam); E. Raghava Menon (Cong.), (Palghat); Alexander

Parambithara (Cong.), (Palluruthy); M. Kunjukrishnan Nair (Cong.), (Parassala); C. K. Narayanan Kutty (CPI), (Parur); M. Sivan Pillai (CPI), (Parur); Thoppil Bhaskaran Pillai (CPI), (Pattanamthitta); N. Rajagopalan Nair (CPI), (Pattanamthitta); E. P. Gopalan (CPI), (Pattambi); M. Kumaran (CPI), (Perambra); P. Govindan Nambiar (CPI), (Perintalmanna); P. Govinda Pillai (CPI), (Perumbavoor); E. T. Kunban (SC) (CPI), (Ponnani); Kunhabu Kallayan (SC) (Cong.), (Ponnani (R)); T. A. Thoman (Cong.), (Poonjar); P. C. Cherian (Cong.), (Puthupally); Joseph Chazhickatt (PSP), (Puthupuram); P. Gopalan (CPI), (Punalur); P. M. Kunhiraman Nambiar (PSP), (Quilandy); A. A. Rahim (Cong.), (Quilon); E. P. Poulase (Cong.), (Ramamangalam); Idicula (Cong.), (Ranni); Smt. K. R. Gouri (CPI), (Shorthala); C. H. Mohamed Koya (M.L.), (Tenur); V. R. Krishna Iyer (CPI), (Tellicherry); Thomas John (Cong.), (Thakazhi); K. Moideenkutty Hajee (M.L.), (Thiruv); K. Avukadarkutty Naha (M.L.), (Thiruvangady); G. Padmanabhan Thampi (CPI), (Thiruvalla); C. A. Mathew (Cong.), (Thodupuzha); T. Krishnan (SC) (Cong.), (Thrikkadavur); K. Karunakaran (SC) (CPI), (Thrikkadavur (R)); Dr. A. B. Menon (CPI), (Thrichur); E. P. Rapan (PSP), (Trivandrum I); A. Thanu Pillai (PSP), (Trivandrum II); V. Sreedharan (CPI), (Uthur); A. Balan (CPI), (Vadakkheera); K. B. Narayanan (Cong.), (Vellore); H. Abdul Majed (CPI), (Verkela); K. Sivasadan (SC) (CPI), (Verkela (R)); P. T. Chacko (Cong.), (Veshur); Ponnara G. Sreedhar (PSP), (Vidappilly); K. Kochukuttan (SC) (Cong.), (Wadakkancherry); C. O. Ayyappan (SC) (CPI), (Wadakkancherry (R)); N. K. Kunhikrishnan Nair (Cong.), (Wynad); V. Madura (ST) (Cong.), (Wynad (R)); W. H. D'Crus (nominated).

MADHYA PRADESH LEGISLATIVE ASSEMBLY

Constituencies: 218 (S.M. 148; D.M. 70); Seats: 289 (inclusive of one nominated); (S.C. 43; S.T. 54); Electorate: 1,40,23,273.

Speaker, Pt. K. L. Dubey. Deputy Speaker, Anant Sadashiv Patwardhan.

An estimate of party position is given below: Congress 233; Praja Socialist Party 14; Communist Party of India 2; Bhartiya Jan Sangh 11; Hindu Mahasabha 7; Ram Rajya Parishad 5; Independents 9 (including one nominated); Socialist Party 8.

Madanlal (J.S.), (Ager); Chhatrasingh Daryasingh (ST) (Cong.), (Akrapur (R)); Dr. Devsingh (Cong.), (Alicote); Miya Ram (SC) (Cong.), (Alicote (R)); Bhuwan Bhaskar Singh (Cong.), (Akhaura); Ramhit (J.S.), (Amarpaten); Ramnivas (Cong.), (Amba); Brijbhushanprasad (Cong.), (Ambhapur); Pritam Kurrey (SC) (Cong.), (Ambhapur (R)); Lakhanilal Gupta (Cong.), (Arenag); Jagmohanadas (SC) (Cong.), (Arenag (R)); Ramdayal Singh (Cong.), (Ashoknagar); Dulchand (SC) (Cong.), (Ashoknagar (R)); Harygan Singh Bauhara (P.S.P.), (Atila); Kanheyalal Mehta (Cong.), (Badrnagar);

Manohar Singh Mehta (Cong.), (Badrnagar); Murlidhar Bhatalal Asati (Cong.), (Bairhar); Haresingh Bakhtasingh (ST) (Cong.), (Bairhar (R)); Mandikshore Jaisraj Sharma (Cong.), (Balaghat); Keshavilal Gomanat (Cong.), (Balod); Brijlal Verma (P.S.P.), (Baloda-Bazar); Bahadur Singh (SC) (Cong.), (Baloda-Bazar (R)); Swami Krishnanand Ramcharan (Cong.), (Banda); Chhotelal (Cong.), (Bendharagarh); Ravindranath Bhargava (Cong.), (Borghat); Chandrika Prasad (Cong.), (Baryt); Virendrasingh Motisingh (Cong.), (Bawana); Gulal (ST) (J.S.), (Bawana (R)); Rajkumar Virendra Bahadur Singh (Ind.), (Basse); Laxmanprasad (Cong.), (Bemlora); Sheolal (SC) (Cong.), (Bemlora (R)); Ram Kishore (S.P.), (Beohari); Smt. Jhalak Kumari (ST) (Cong.), (Beohari (R)); Bhagwan Singh (Cong.), (Berasia); Hari Kishan Singh (SC) (Cong.), (Berrasia (R)); Deepchand Lakshimchand (Cong.), (Betul); Mohkamalingh Sab Singh (ST) (Cong.), (Betul (R)); Somdatt Deo (ST) (Cong.), (Bhatneshi (R)); Chakrapaul

Shukla (Cong.), (Bhatnagar); Jitendra Vijay Bahadur (Ind.), (Bhatnagar); Moolchand (SC) (Cong.), (Bhatnagar (R)); Shyamundar Das (Bhatia); Udalram (Cong.), (Bhilai); Gopal Singh (ST) (Cong.), (Bhilai (R)); Narasingh Rao Dixit (Cong.), (Bhind); Manohar Rao Jatar (Cong.), (Bhoma); Thakur Dipnigh (ST) (Cong.), (Bhoma (R)); Shakir Ali Khan (O.P.I.), (Bhopal); Laxman Singh (Ind.), (Bhoora); Baredi (ST) (Cong.), (Bichhla (R)); Kunjilal Swarnkar (Cong.), (Bijai-Raghopur); Shrimati Chanda Bai (ST) (Cong.), (Bijai-Raghopur (R)); Smt. Gayatri (Cong.), (Bijaur); Hans Raj (SC) (Cong.), (Bijaur (R)); B. B. Pambholi (ST) (Cong.), (Bijapur (R)); Dr. Shivdulare (Cong.), (Bilaspur); Pt. Shyamcharan Shukla (Cong.), (Bhindrasagar); Smt. Shyamkumari Devi (ST) (Cong.), (Bhindrasagar (R)); Rani Padma-wati (Cong.), (Bhindrasagar); Rajkumari Surajkala (Cong.), (Budni); Abdul Kadar Siddiqui (Cong.), (Burlapur); Ramkrishna (Cong.), (Champa); Sagar Singh Sisodia (Cong.),

(Chachavra); Vacant (Chandrapur); Vedram (SC) (Cong.), (Chandrapur (R)); Dharath (Cong.), (Chalappur); Govind Das (SC) (Cong.), (Chalappur (R)); Smt. Vidyawati (Cong.), (Chhindwara); Nokhelal (SC) (Cong.), (Chhindwara (R)); Sukhdh (ST) (Cong.), (Chitrakote (R)); Kaushalendra Pratap Bahadur Singh (R.R.P.), (Chitrakoot); Rani Kanakkumari (ST) (Cong.), (Chowki (R)); Harichandra (Cong.), (Dambh); Sheoram (ST) (Cong.), (Dantewara (R)); Bala Prasad Mishra (Cong.), (Deori); Bhalal (S.P.), (Deosar); Jagdeo Singh (ST) (P.S.P.), (Deosar (R)); Nandlal Joshi (Cong.), (Depalpur); Sajjan Singh Vishnar (SC) (Cong.), (Depalpur (R)); Anant Sadashiv Patwardhan (Cong.), (Dewar); Bapulal Kishanlal (SC) (Cong.), (Dewas (R)); Ganeshram (Cong.), (Dhamdh); Purshotamdas (Cong.), (Dhamdhar); Jhilkoo (ST) (Cong.), (Dhamari (R)); Vasant S. Pradhan (H.M.), (Dhar); Raja Sahab Chandra Chud Prasad Singh Deo (Cong.), (Dharmajgarh (R)); Khub Chand Baghel (P.S.P.), (Dharsawan); Dwarika Prasad (Cong.), (Dindori); Akali Basori Bhol (ST) (Cong.), (Dindori (R)); Raul Jhamitkumardevi (ST) (Cong.), (Dondi Lakara (R)); Dhannalal Jain (Cong.), (Dongargarh); Vijai Lal (Cong.), (Dongargarh); Jhoothnath (SC) (Cong.), (Dongargarh (R)); Vishwanath Tamsakar (P.S.P.), (Durg); Kishorilal (Cong.), (Gadawara); Nabha (SC) (Cong.), (Gadawara (R)); Vinakumar (J.N.), (Garoh); Smt. Saraswati Devi Sharda (SC) (Cong.), (Garoh (R)); Gourishankar Shastri (Cong.), (Gharpora); Raja Lalit Kumar Singh (ST) (Cong.), (Gharpora (R)); Murlidhar Ghule (Cong.), (Gird); Smt. Nushla Devi Bhadoria (Cong.), (Gohad); Shyamunder Narayan (Cong.), (Hoteagarh); Mahurprasad Dube (Cong.), (Gourelia); Daulatram (Cong.), (Gura); Shiv Nath Prasad (J.S.), (Gurh); Ramechandra A. Sarvate (C.P.I.), (Gwallor); Laxmanrao Bhikajao Nalk (Cong.), (Harda); Smt. Gulabai (SC) (Cong.), (Harda (R)); Kalusinh Shersingh (Cong.), (Harvad); Ramsingh Galiba (ST) (Cong.), (Harvad (R)); Gaya Prasad (Cong.), (Hatta); Kadorelal (SC) (Cong.), (Hatta (R)); Nannalal Bhurelal (Cong.), (Hoshangabad); Vysantesh David (Cong.), (Indore); Pandit Kunjilal Patodi (Cong.), (Indore City Central); Homi F. Daji (Ind.), (Indore City East); Mialhril Gangwal (Cong.), (Indore City West); Hariprasad Chaturvedi (Cong.), (Itarsi); Pandit Kunjilal Dube (Cong.), (Jabalpur I); Jagdishnarayan Awasthi (Cong.), (Jabalpur II); Jagmohandas (Cong.), (Jabalpur III); Vinodh Dutta Mishra (Ind.), (Jagdalpur); Dehra Prasad (SC) (Cong.), (Jagdalpur (R)); Lakhe-shwarlal Paliwal (Cong.), (Jangpur); Kailash-nath Katju (Cong.), (Jaura); Raja Vijai Bhushan Singh Deo (Cong.), (Jashpur); Johan (ST) (Cong.), (Jashpur (R)); Kamta Prasad (Cong.), (Jatara); Virendra Kumar (J.S.), (Jawad); Sursingh Mansingh (ST) (Cong.), (Jadubus (R)); Smt. Gangabai (ST) (Cong.), (Jobal (R)); Chotelal Kashiprasad (S.P.), (Jodra); Smt. Pratibha Devi (Cong.), (Kanker); Bismar (ST) (Cong.), (Kanker (R)); Smt. Manjulabai Wagle (Cong.), (Kannod); Gautam Sharma (Cong.), (Kavara); Ramniklal Amritlal (Cong.), (Katalgi); Banwari Lal (Cong.), (Kathora); Dewan Rudrashehar Pratap Singh (ST) (Cong.), (Kathora (R)); Dharamraja Singh (R.R.P.), (Kawardha); Saradu (ST) (Cong.), (Kaskal (R)); Birendrasingh (H.M.), (Kachrawad); Ritu Parma Kishoradas (Cong.), (Kairagarh); Shankar Lal Tiwari (Cong.), (Khatralanji); Bhagwantrao Mandloi (Cong.), (Khandwa); Deokaran Balchand (SC) (Cong.), (Khandwa (R)); Ramakant Vishwanath Khode (Cong.), (Kharone); Sawal Singh (ST) (Cong.), (Kharone (R)); Prabhudyal Chobe (Cong.), (Khilchipur); Rishabh Kumar (Cong.), (Khurati); Bhadal Halke (SC) (Cong.), (Khurati (R)); Tejilal Harichandra (Cong.), (Kiranpur); Motiram Odya (SC) (Cong.), (Kiranpur (R)); V. Parasar (Cong.), (Kolaras); Soyam Joga (ST) (Cong.), (Konta (R)); Kaashiram Tiwari (Cong.), (Kota); Smt. Surajkunwardevi (ST) (Cong.), (Kota (R)); Harirajkunwar (Cong.), (Kotma); Purn Singh (Cong.), (Kotma (R)); Ratusingh Ramsingh (ST) (Cong.), (Kukati (R)); Takhatmal Jain (Cong.), (Kurwai); Bhopalrao Bisoi (Cong.), (Kurwai); Smt. Premkumari Raj (Cong.), (Lahar); Gokul Prasad Katraula (SC) (Cong.), (Lahar (R)); Vasant Rao Wickey (ST) (Cong.), (Lakhnadon (R)); Ram Niwas Bangad (Cong.), (Laukar); Smt. Vidayawati Chaturvedi (Cong.), (Lauendi); Gangaprasad (R.R.P.), (Lorma); Nemichand (Cong.), (Mahasamund); Bajirao Miri (SC) (Cong.), (Mahasamund (R)); Ballabhdas Mahajan (Cong.), (Maheshwar); Sadhav Sitaran (SC) (Cong.), (Maheshwar (R)); Ramechwardayal Totla (Cong.), (Mahidpur); Durgadas Bhawandas Suryabanshi (SC) (Cong.), (Mahidpur (R)); Hopal Sharan Singh (Cong.), (Mairhar); Arjun Singh (Ind.), (Majhau); Sunderlal (J.N.), (Manasa); Ranjit Singh (ST) (H.M.), (Manawar East (R)); Shivbhanu (ST) (Cong.), (Manawar West (R)); Smt. Narayan-devi (Cong.), (Mandla); Shyam Sunder (Cong.), (Mandaur); Brijendralal (Cong.), (Manendra-garh); Baghuwar Singh (ST) (Cong.), (Manendra-garh (R)); Rukmini Raman Pratap Singh (Cong.), (Mangawan); Marotaro Lahnu (P.S.P.), (Maand); Raahir Ahmad (Cong.), (Masuri); Ganeshram (SC) (Cong.), (Masuri (R)); Achutanand (Ind.), (Maungai); Mahadeo (H.) (Cong.), (Maungai (R)); Ramalingh (ST) (Cong.), (Mehodwan); Yugalkishore (P.S.P.), (Meh-goon); Rustomji Jal (Cong.), (Mhow); Smt. Chandra Kala Sahal (Cong.), (Morar); Kunwar Yaswant Singh Kushwah (Cong.), (Morena); Smt. Chamelbi Sagar (SC) (Cong.), (Morena (R)); Anand Rao Bonaji (P.S.P.), (Muller); Khaik-singh (H.M.), (Mungoli); Ambikasa (R.R.P.), (Mungeli); Ramlal Ghasia (SC) (R.R.P.), (Mungeli (R)); Ramdas Agarwal (S.P.), (Mursara); Vacant (Narsinpur (R)); Smt. Sarla Devi (Cong.), (Narsinhpur); Radhavalabha Vijayavargiya (Cong.), (Narsingarh); Bhanwarlal Jeewan (SC) (Cong.), (Narsingarh (R)); Bisahu Das Mahant (Cong.), (Nawagarh); Sitaran (Cong.), (Nemuch); Lakshmi Narain (P.S.P.), (Niwari); Nathu Ram (SC) (Cong.), (Niwari (R)); Sahajoo (ST) (Cong.), (Nivwa); Kunjbhatri Lal (Cong.), (Nohata); Udayabhanushah (ST) (Cong.), (Pagara (R)); Kapildeo Narayan Singh (Cong.), (Pal); Bhandariram (ST) (Cong.), (Pal (R)); Parma-nand Mohanlal (Cong.), (Panagar); Devendra Vijay Singh (Ind.), (Panaga); Kashiprasad (Cong.), (Parasia); T. Phoolbhanushah (ST) (Cong.), (Parasia (R)); T. N. Singh (Cong.), (Patan); Smt. Deva Devi (SC) (Cong.), (Patan (R)); Narendra Singh (Cong.), (Pawet); Ram Das (SC) (Cong.), (Pawet (R)); Brinda Sahal (Cong.), (Pichhore); Raja Ram Singh (SC) (Cong.), (Pichhore (R)); Laxminarain (H.M.), (Pichhore); Lalan Singh (ST) (Cong.), (Pushapara-garh (R)); Ramkumar Agrawal (P.S.P.), (Rai-garh); Sharda Charan Tiwari (Cong.), (Raipur); Ramcharan Dube (Ind.), (Rajgarh); J. P. L. Francis (P.S.P.), (Raymandgon); Mangilal Tejisingh (ST) (Cong.), (Raipur (R)); Lal Govind Narayan Singh (Cong.), (Rampur Baghelan); Smt. Suman Jain (Cong.), (Rattam); Mani Bhai Jaber Bhai (Cong.), (Rekti); Jagdish Chand Joshi (S.P.), (Reva); Balmukund K. Mudgal (Cong.), (Sabalgarh); Baboolal Mourya (SC) (Cong.), (Sabalgarh (R)); Mahommed Shaf Mohommed Subral (Cong.), (Sagar); Raja-bahadur Liladhar Singh (P.S.P.), (Sakti); Khuman Singh (Cong.), (Sanchi); Raja Daulat Singh (ST) (Cong.), (Sanchi (R)); Jaideo Gajadhar (Cong.), (Sarapali); Raja Nareah Chandra Singh (Cong.), (Sarangarh); Kumari Nanhu Dai (SC) (Cong.), (Sarangarh (R)); Shankarlal Garg (Cong.), (Sarapur); Shiva Nand (Cong.), (Satna); Vishveshwar Prasad (SC) (Cong.), (Satna (R)); Balchandhal (Cong.), (Sawar); Ranchusingh (ST) (Cong.), (Sawar (R)); Dewanchand Mahajan (Jan Sangh), (Sohore); Umrao Singh (SC) (Cong.), (Sohore (R)); Barku Chowhan (ST) (Cong.), (Sendhwa (R)); Kamta Prasad Saxena (Cong.), (Sendha); Mahendranath Singh (Cong.), (Seoni); Keshavrao Yashwantrao (P.S.P.), (Shajapur); Pratapbhai (Cong.), (Shajapur); Kishanlal (SC) (J.S.), (Shajapur (R)); Raghunath Singh (H.M.), (Sheo-pur); Raj Rajendra Malojirao N. Niltale (Ind.), (Shipuri); Tularam Nagar (SC) (Cong.), (Shipuri (R)); Vishnuharan (Cong.), (Shujal-pur); C. Tiwari (P.S.P.), (Sidhi); Kash-prasad Pande (Cong.), (Sihora); Raja Har-bhagatsingh Raja Thanasingh (ST) (Cong.), (Sihora (R)); Shyam Karik (S.P.), (Singrauli); Smt. Champa Devi (Cong.), (Sirmour); M. Agrawal (H.M.), (Sirong); Bhanwarlal Rajmal (Cong.), (Sitamar); Haribhajan Singh (ST) (Cong.), (Sitapur (R)); Shambhu Nath (Cong.), (Sohagpur); Narayansingh Dangalsingh (Cong.), (Sohagpur); Smt. Ratankumari (ST) (Cong.), (Sohagpur (R)); Bhagratishingh (J.S.), (Son-katch); Virendra Nath Sharma (Cong.), (Suraj-pur); Mahadeo Singh (ST) (Cong.), (Surajpur (R)); Dr. B. B. Rai (Cong.), (Surkhi); Hari-bhau (J.N.), (Sunner); Smt. Yagyaeni Kumari (ST) (Cong.), (Tanahtar (R)); Vanahpati Singh (Cong.), (Teonthar); Nathulal (ST) (S.P.), (Thanda (R)); Ram Krishna (Cong.), (Tikwa-garh); Dr. Shanker Dayal Sharma (Cong.), (Udaipur); Smt. Rasdan Kunwar Kishori (Cong.), (Ujjain North); Viwanath Vasudeo Ayachit (Cong.), (Ujjain South); T. Ajaisingh (Cong.), (Vidisha); Hiralal Pippal (SC) (Cong.), (Vidisha (R)); Thansingh Beesen (Cong.), (Warascent); Maj. P. Bernard (nominated Anglo Indian).

MADRAS LEGISLATIVE COUNCIL

(An estimate of party strength is as follows: Congress 43, United Party 9, Independents 8, N. D. C. 2, Vacant 1)

Chairman: Dr. P. V. Cherian.

Deputy Chairman: A. M. Allapichai.

Secretary: C. D. Natarajan.

Local Authorities: (21) K. M. Deskar (Con.), M. V. Sudarshan Naidu (Con.), A. Somasundara Reddier (Con.), S. V. Kalyanar-man (Con.), T. Durairaj (Con.), (South Arcot-cum-Tanjore-cum-Tiruchirappalli); T. V. Devaraja Mudalar (Ind.), A. K. Masilamani Chettiar (Con.), T. Purushotham (Con.), M. Seelachariar (Con.); Vacant, (Madras-cum-Chingleput-cum-North Arcot); V. K. Palaniswami Gounder (Con.), S. R. P. Ponnuswamy Chettiar (Con.), P. B. K. Thiagaraja Reddier (Con.), T. Joghee Gowder (Con.), P. Madurai Pillai (Con.), (Salem-cum-Coimbatore-cum-Nilgiris); T. S. Sankara-narayana Pillai (Con.), A. P. Sivasubramania Nadar (Con.), A. Chidambaram Mudalar (Con.), M. Subramania Karayalar (Con.), S. T. Adityan, (Ind.), K. T. Kosalram (Con.), (Madurai-cum-Ramanathapuram-cum-Tirunelveli-cum-Kanya Kumari).

Graduates' Constituency: (6) K. Balasubramania Ayyar (U. P.), Dr. T. V. Sivanandam (Con.), Dr. P. V. Cherian (Con.), Vacant, Dr. A. Lakshmanaswami Mudalar (U.P.), Dr. A. Sreenivasan (Ind.).

Teachers' Constituency: (6) Dr. A. Chidambaramathan (U.P.), G. E. Damodaran (U.P.), G. Krishnamoorthy (Ind.), John Asirva-tham (U.P.), T. P. Srinivasa Varadan (U.P.), K. M. Ramaswami Gounder (Ind.).

Elected by the Members of the Legislative Assembly: (21) A. M. Allapichai (Con.), N. Annamalai Pillai (Con.), A. J. Arunachalam (Con.), T. S. Arunachalam (Con.), V. S. Balasundaram (Con.), M. Ethirajulu (Con.), A. Gajapathi Nayagar (Con.), L. S. Karayalar (N.D.C.), T. G. Krishnamurthi

(N.D.C.), P. S. Krishnaswami Ayyangar (Con.), A. Krishnaswamy Vaidyar (Con.), Mohamed Baza Khan (United Party), Vidwan T. Muthu Kannappan (Con.), B. K. Nallasamy (Con.), N. Nallasenapathi Sarkarai Manradhar (Con.), V. V. Ramaswami (U.P.), A. Subramanyam (Con.), B. Venkataraman (Con.), V. M. Surendram (Con.), K. V. Ramaswami (Con.), P. T. Rajan (Ind.).

Nominated Members: (9) Mary C. Chubwala Jadhav (Ind.), Dr. Mahomed Usman (Con.), S. Manjubhashini (Con.), V. Ramalingam Pillai (Con.), O. P. Ramaswami Reddier (Con.), Jothi Venkatachalam (Con.), Saraswathi Pandurangam (Con.), K. B. Sundarambal (Con.).

Abbreviations: Con. Congress; Ind. Inde-pendents; N.D.C. National Democratic Congress.

Electorate: 17,551,983; Constituencies: 167 (S.M. 129, D.M. 38); Seats: 205 (S.C. 37; S.T. 1).

An estimate of party position is given below: Congress 163; Praja Socialist Party 2; Communist Party of India 4; Indian National Democratic Congress 22; Dravida Munnetra Kazhagam 15; Socialists 2; Independents Group 2; Progressive Independents Bloc 3; Independents 2.

A. R. Marimuthu (P.S.P.) (*Adirampattam*); R. Ramamirida Thondaman (Cong.) (*Aduthur*); Arunachala Thevar (Cong.) (*Alangudi*); Ohiniah (SC) (Cong.) (*Alangudi* (R)); Veluchamy (I.N.D.C.) (*Alangulam*); Gomathisankara Deekshidar (Cong.) (*Ambasamudram*); Krishnamoorthy (Cong.) (*Ambur*); S. R. Munusami (SC) (Ind.) (*Ambur* (R)); G. Annamalai Muthuraja (Cong.) (*Andanalur*); S. Ramasami Thevar (I.N.D.C.) (*Aranthangi*); S. Sadasivam (Cong.) (*Araekurichi*); S. Khadar Sheriff (Cong.) (*Arrot*); Ramalinga Padayachi (Cong.) (*Ariyur*); Sadayappa Mudaliar (Cong.) (*Arkonam*); B. Doraisami Reddier (I.N.D.C.) (*Arni*); M. D. Ramasami (I.N.D.C.) (*Aruppukottai*); M. P. Subramaniam (D.M.K.) (*Athur*); Iruppan (SC) (D.M.K.) (*Athur* (R)); M. A. B. Arumugasamy (Cong.) (*Author*); K. Marappa Gounder (Cong.) (*Avanashi*); Srimathi Anandanasayi (Cong.) (*Basin Bridge*); G. G. Gurusurthy (Cong.) (*Bhavani*); P. G. Manickam (SC) (Cong.) (*Bhavani* (R)); Samikannu Padayachi (Cong.) (*Bhavanasuri*); A. S. Subbaraj (Cong.) (*Bodinyakanoor*); T. Karla Gounder (Cong.) (*Chengam*); K. R. Nalla Sivam (Socialists) (*Chennimalai*); P. Ramachandran (Cong.) (*Cheyyar*); G. Vaghesass Pillai (Cong.) (*Chidambaram*); Sami Sahajanasand (SC) (Cong.) (*Chidambaram* (R)); Muthusami Nalcker (Cong.) (*Chingleput*); Appavu (SC) (Cong.) (*Chingleput* (R)); Savitri Shanmugam (Cong.) (*Cumilatore I*); K. P. Palanisami (SC) (Cong.) (*Cumilatore II*); Marudachalam (SC) (C.P.I.) (*Cumilatore II* (R)); Smt. Lourdammal Simon (Cong.) (*Colachel*); J. Mehta Gowder (Cong.) (*Coonoor*); Srinivasa Padayachi (Cong.) (*Cuddalore*); A. Senapathi Gounder (Cong.) (*Dharpuram*); M. Kandasaami Kandar (Cong.) (*Dharmapuri*); M. K. Jamal Mohideen (Cong.) (*Dindigul*); Anubashagan (D.M.K.) (*Egmore*); V. S. Manickasundaram (Cong.) (*Erode*); Krishnasami Gopalar (Cong.) (*Gandarrakottai*); N. Jangal Reddier (I.N.D.C.) (*Ginjee*); P. G. Karuthiraman (Cong.) (*Gobichettipalayam*); V. K. Kothandaraman (C.P.I.) (*Gudiyattam*); T. Manavalan (SC) (Cong.) (*Gudiyattam* (R)); Smt. Kamalamburjannal (Cong.) (*Gummidipundi*); Dr. U. Krishna Rau (Speaker) (*Harbour*); P. M. Muniyasamy Gounder (Cong.) (*Harur*); M. K. Marappan (SC) (Cong.) (*Harur* (R)); K. Appavoo Pillai (I.N.D.C.) (*Howur*); Vignawanathan (Cong.) (*Jayankondam*); Ramasubbu (Cong.) (*Kadambur*); Sangili (SC) (Cong.) (*Kadambur* (R)); D. S. Athimoolam (P.I.B.) (*Kadayam*); Natarsaja Odayar (D.M.K.) (*Kallakurichi*); M. Anandan (SC) (D.M.K.) (*Kallakurichi* (R)); C. N. Annadurai (D.M.K.) (*Kancheepuram*); K. G. Palanisami Gounder (Cong.) (*Kangayam*); Ramasami Pillai (I.N.D.C.) (*Kanyasamari*); M. A. Muthiah Chettiar (Cong.) (*Karakudi*); T. M. Nallaswamy (Cong.) (*Karur*); A. Neasamonty (Cong.) (*Kulivoor*); M. Alagirisami

(*Cong.*), (*Kodakonas*); C. Subramaniam (*Cong.*), (*Koizalayam*); Subbiah (I.N.D.C.), (*Kodipatti*); Nagaraja Monigar (*Cong.*), (*Krishnagiri*); M. Karunanidhi (D.M.K.), (*Kuitalai*); Sampath (*Cong.*), (*Kumbakonam*); S. Lazar (*Cong.*), (*Laludi*); V. Sankaran (*Cong.*), (*Madurai Central*); Smt. P. K. R. Lakshmintham (*Cong.*), (*Madurai East*); Venkatasubba Reddi (*Cong.*), (*Madurantakam*); Ellappan (SC) (I.N.D.C.), (*Madurantakam (R)*); R. Chidambara Bharathi (*Cong.*), (*Manamadurai*); Chinnaya Kavundur (*Cong.*), (*Manapparai*); T. S. Swaminatha Odayar (*Cong.*), (*Manargudi*); G. Narayanasami Naidu (*Cong.*), (*Mayuram*); P. Jayra (SC) (*Cong.*), (*Mayuram (R)*); M. Periakaruppan Ambalam (*Cong.*), (*Melur*); P. Kakkai (SC) (*Cong.*), (*Melur (R)*); Smt. D. Raghubathi Devi (*Cong.*), (*Mettupalayam*); Arthanaraswara Gounder (*Cong.*), (*Methur*); T. L. Sastriyasa Thevar (I.N.D.C.), (*Mudukulathur*); A. Perumal (SC) (I.N.D.C.), (*Mudukulathur (R)*); V. A. Muthiah (*Cong.*), (*Murir*); T. V. Sannasi (SC) (*Cong.*), (*Murir (R)*); C. R. Ramasamy (*Cong.*), (*Mylapore*); N. S. Ramalingam (*Cong.*), (*Nagapattinam*); Chidambaranatha Nader (*Cong.*), (*Nagercoil*); Vedamanickam (Ind.), (*Naluru*); K. Landa Gounder (*Cong.*), (*Namakhal*); M. P. Periasami (SC) (*Cong.*), (*Namakhal (R)*); K. L. Ramaswamy (*Cong.*), (*Nambiyur*); M. G. Sankar (*Cong.*), (*Nanguneri*); M. D. Thangaraja Pillai (*Cong.*), (*Nannilam*); M. C. Muthukumaraswamy (SC) (*Cong.*), (*Nannilam (R)*); S. S. Ramaswamy Padayachi (*Cong.*), (*Nellikuppam*); Thangavelu (SC) (*Cong.*), (*Nellikuppam (R)*); W. P. A. R. Chandrasekharan (*Cong.*), (*Nilakkottai*); Smt. A. S. Ponnammal (SC) (*Cong.*), (*Nilakkottai (R)*); B. K. Linga Gowder (*Cong.*), (*Ottacamund*); Karuthappa Gounder (*Cong.*), (*Ottanchattur*); Thompson Tharmara Daniel (*Cong.*), (*Padmashahapuram*); Lakshminipathira (*Cong.*), (*Palani*); F. S. Chinnu Durai (P.S.P.), (*Palladam*); Karunagiri Muthiah (*Cong.*), (*Panjapatti*); Venkitchala Nattar (*Cong.*), (*Papanasam*); Subramaniam (S.C.) (*Cong.*), (*Papanasam (R)*); K. Ramchandran (I.N.D.C.), (*Paramabudi*); R. Srinivas Ayyar (*Cong.*), (*Patukkottai*); Smt. Hemalatha Devi (*Cong.*), (*Pernampar*); Krishnasami (*Cong.*), (*Perambalur*); Perliannan (SC) (*Cong.*), (*Perambalur (R)*); S. Pakkirisami Pillai (Soc.), (*Perambur*); Smt. Sathiyavanimuthu (SC) (D.M.K.), (*Perambur (R)*); N. K. Palanisami (C.P.I.), (*Perundurai*); N. Mahalingam (*Cong.*), (*Pollachi*); K. Ponnian (SC) (*Cong.*), (*Pollachi (R)*); S. M. Annamalai (D.M.K.), (*Palur*); Govindaswami Naidu (*Cong.*), (*Ponneri*); A. V. Thomas (*Cong.*), (*Radhapuram*); R. Shanmuga Rajeswara Sethupatti (*Cong.*), (*Ramanathapuram*); Chandrasekhara Nayagar (*Cong.*), (*Ranipet*); A. Raja Gounder (*Cong.*), (*Rasipuram*); Duraiswami Reddhar (*Cong.*), (*Siddipet*); Mariappan (*Cong.*), (*Salem I*); Rathnavel Gounder (*Cong.*), (*Salem II*); A. R. Subbiah Mudaliar (*Cong.*), (*Sankaranthoil*); Urakavalan (SC) (*Cong.*), (*Sankaranthoil (R)*); K. S. Subramania Gounder (*Cong.*), (*Sankari*); K. Gopal Koundar (I.N.D.C.), (*Sathiamangalam*); S. B. Adityan (Ind. Gr.), (*Sattangulam*); K. Kamara Nader (*Cong.*), (*Sattur*); T. Sivagnanam Pillai (*Cong.*), (*Sendamangalam*); B. Bakthavathsalu Naidu (*Cong.*),

(*Sholinghur*); C. Muthiah Pillai (Cong.), (*Sirkali*); K. B. S. Mani (SC) (Cong.), (*Sirkali* (R)); D. Subramania Rajkumar (I.N.D.C.), (*Stoogangal*); S. Ramasami Naidu (Cong.), (*Stoogeri*); M. Bakhtavatsalam (Cong.), (*Striperumoudur*); K. Vasudevan (Cong.), (*Strirangam*); A. P. C. Veerabahu (Cong.), (*Strivikantam*); B. Krishnasami Naidu (Cong.), (*Strivilliputhur*); A. Chinnasami (SC) (Cong.), (*Strivilliputhur* (R)); Smt. Kulanthal Ammal (Cong.), (*Sulur*); A. Y. S. Parithasa Nader (Cong.), (*Tanjore*); N. S. Sundararajan (Cong.), (*Taramangalam*); K. Sattanatha Karayalar (P.I.B.), (*Tenkasi*); N. B. Thiagarajan (Cong.), (*Thani*); N. M. Velappan (SC) (Cong.), (*Thani* (R)); K. Vinayakam (Cong.), (*Thiagarayanagar*); A. V. P. Periyala Guruva Reddi (I.N.D.C.), (*Thirumangalam*); Ramiah (Cong.), (*Thirumayam*); S. Chinnakuruppa Thevar (Cong.), (*Thiruparankundram*); A. Vedaratnam (Cong.), (*Thiruthiruvandi*); V. Vedayan (SC) (Cong.), (*Thiruthiruvandi* (R)); A. V. P. Ananthambai (D.M.K.), (*Thousand Lights*); M. A. Manickavelu (Cong.), (*Thurinjapuram*); Veerappas Kounder (I.N.D.C.), (*Tindivanam*); M. Jagannathan (SC) (I.N.D.C.), (*Tindivanam* (R)); M. S. Selvaraj (Cong.), (*Tiruchendur*); T. M. Kallanar (Cong.), (*Tiruchengode*); R. Kandassami (SC) (Cong.), (*Tiruchengode* (R)); E. P. Mathuram (Ind. Gr.), (*Tiruchirappalli* I); M. Kalyanasundaram (C.P.I.), (*Tiruchirappalli* II); S. A. M. Annamalai Odayar (I.N.D.C.), (*Tirukoilur*); Kuppusami (SC) (Cong.), (*Tirukoilur* (R)); N. V. Chokkalingam (Cong.), (*Tirukoshtiyur*); Smt. Rajathi Kunjithapatham (Cong.), (*Tirunelveli*); Somasundaram (SC) (Cong.), (*Tirunelveli* (R)); E. O. Samanna Gounder (Cong.), (*Tirupattur*); K. N. Palanisami (Cong.), (*Tiruppur*); S. Ramakrishna Thevar (Cong.), (*Tiruvadanai*); Ekambara Mudali (Cong.), (*Tiruvallur*); Arunachalam (SC) (Cong.), (*Tiruvallur* (R)); P. U. Shanmugam (D.M.K.), (*Tiruvannamalai*); C. Santhanam (SC) (D.M.K.), (*Tiruvannamalai* (R)); R. Swaminatha Merikondar (Cong.), (*Tiruvannamalai*); Subbiah (Cong.), (*T. Palur*); K. S. G. Raja Sheeref (Cong.), (*Trichy*); Samuel Nader (Cong.), (*Tuticorin*); S. T. Subbayaia Gounder (P.I.B.), (*Udamalpet*); M. Muni Reddi (I.N.D.C.), (*Ududampatti*); Kandassami Padayachi (Cong.), (*Ududampatti*); P. K. Mookiah Thevar (I.N.D.C.), (*Ududampatti*); K. Pandiaraj (Cong.), (*Uthamapalayam*); V. K. Ramaswamy Mudaliar (I.N.D.C.), (*Uththiramerur*); T. Thiruvenkadasamy Naicker (I.N.D.C.), (*Vedamadurai*); A. G. Govindasamy (D.M.K.), (*Vellavannur*); A. A. Rasheed (Cong.), (*Veniyambadi*); Smt. T. S. Soundaram Ramchandran (Cong.), (*Vedasandur*); M. R. Kandassamy Mudaliar (Cong.), (*Veerapandi*); M. P. Sarathi (D.M.K.), (*Vellore*); M. William (Cong.), (*Viluvambadi*); Sarangapani (Cong.), (*Viluppuram*); M. Selvars (D.M.K.), (*Viduthachalam*); Ramachandra Reddier (Cong.), (*Vandivash*); D. Dasarathan (SC) (Cong.), (*Vandivash* (R)); M. Mayandi Nader (Cong.), (*Washermanpet*); S. Lakshmana Goundan (Cong.), (*Yerrandur*); Kolandaiswamy Gounder (ST) (Cong.), (*Yeroodur* (R)).

T. F. Elumalai (SC) (Cong.), (*Ponneri* (R)); Smt. A. Soares (nominated).

Constituencies: 80: Seats: 32 (30 elected and 2 nominated): Electorate: 330,211. Chairman, Sibo Larhao.

Note :—There is no seat reserved for Scheduled Tribes or Scheduled Castes.

A. Athulbi (S.T.) (Roc.), (Aimol); Hemam Nilamani Singh (Cong.), (Bishapur-Moirang); Sorokhabham Chourait Singh (Cong.), (Charang-pak-Khangom); Paolen (S.T.) (Cong.), (Churachandpur); Kilangbam Nadi Singh (Cong.), (Hyanglam-Sugnoo); Md. Amzed Ali (Cong.), (Irabinung-Yairipak-Top Changle); Sinam Bhoj Singh (Cong.), (Jiri); Khundongbam Itocha Singh (C.P.L.), (Kaching-Wangjing); Lalram Kulechandra Singh (Roc.), (Kengthappa); Kon-

grailatpam Borthakur Sarma (Soc.), (*Ehurat*);
Mairenbam Kolreng Singh (Cong.), (*Kumbi-
Thanga*); Tongbram Kundo Singh (U.P.I.),
(*Lamlet-Ketrao*); Alimuddin (Cong.), (*Lilong*);
Ngazono Thoiso (S.T.) (Cong.), (*Mao East*); Siboo
Larhao (S.T.) (Cong.), (*Mao West*); Yumnam
Yelma Singh (Ind.), (*Nemboi-Kesnou*); Bishang
Kelasing (S.T.) (Soc.), (*Phatet*); Nongthombam
Ibomecha Singh (Cong.), (*Sagolband*); Athokpam
Thabi Singh (C.P.I.), (*Sagolmang*); Kholsnam
Heltombai Singh (C.P.I.), (*Salam Khumbong-
Konthoung*); Kwairakpam Chaocha Singh (S.C.)
(Cong.), (*Sekmai Lamsang*); Thokchom Chandra-

sekar Singh (Soc.), (*Singjamai*); Kabipu Kabul (S.T.) (Ind.), (*Tamenglong*); Paokhohang Haokip (S.T.) (Cong.), (*Tungcupad*); S. Vunghom (S.T.) (Ind.), (*Thawlon*); Walkhom Nimalchand Singh (Ind.), (*Thoubal Chandrakhong*); Ngalandar Kagui (S.T.) (Cong.), (*Ukhru*); Hidangmayum Dwijamani Dev Barma (Ind.), (*Uripok-Lalembung-Thangmelband*); Thokhom Angou Singh (Soc.), (*Wangkhei Kongbei*); Ningthoujam Tombon Singh (Cong.), (*Wangai-Mayang Imphal*); Shrimati Angnai Akim (S.T.) (Cong.), (*Nominated*); Miss Rajkumari Mukhera Devi (Cong.), (*Nominated*).

MYSORE LEGISLATIVE COUNCIL

Chairman : V. Venkatappa.

Dy. Chairman : Keshav Rao Nitturkar.

An estimate of party position is given below : Congress 40 ; P.S.P. 4 ; Ind. 19. Total : 63.

Graduates' Constituency (6)

G. V. Anjanappa (Mysore South) ; M. L. Sreekantiah (Mysore South) ; A. N. Rama Rao (Mysore South) ; Smt. M. R. Lakshamma (Mysore South) ; Balakrishna Gangadharrao Deshpande (Mysore North) ; V. C. Parate (Mysore North).

Teachers' Constituency (6)

M. P. L. Sastry (Mysore South) ; M. C. Mahadevaswamy (Mysore South) ; S. Mukunda Rao (Mysore South) ; B. V. Banumalash (Mysore South) ; Mamadapur Basawantappa Balappa (Mysore North) ; Keshav Tatya (Mysore North).

Local Authorities (21)

C. H. Venkataramanappa (Mysore South-East) ; M. T. Srikanthiah (Mysore South-East) ;

T. N. Kempahouniah (Mysore South-East) ; R. Subbanna (Mysore South-East) ; J. Deviah (Mysore South) ; S. H. Thammiah (Mysore South) ; T. Venkataramanah (Mysore South) ; Y. Dharmappa (Mysore South) ; K. T. Shamalah Gowda (Mysore South-West) ; K. V. Narasappa (Mysore South-West) ; K. Rangappa (Mysore South-West) ; K. Sanjeeva Reddy (Mysore South-West) ; S. C. Edke (Mysore North-West) ; H. F. Kattimani (Mysore North-West) ; D. C. Shah (Mysore North-West) ; G. B. Patil (Mysore North-West) ; P. M. Nada Gowda (Mysore North-West) ; L. H. Hire Goudar (Mysore North-West) ; Ayyangowda Lingam Gowda (Mysore North-East) ; K. Channabasavanna Gowda (Mysore North-East) ; Veeranna Sharanappa Chattrali (Mysore North-East).

Elected by Legislative Assembly (21)

H. O. Boriah ; Marikwami Kirematha Ganga-dharaswami ; B. Hutche Gowda ; M. F. Sawara-ppa ; K. Kanthappa Shetty ; H. Basappa ; Manik Rao ; G. K. Mogali ; Motensar Hegde Timmappa Manjappa ; Mukunda Mylarappa ; K. M. Nanjundappa ; S. Narasappa ; S. S. Narayana Moorthy ; Narayanappa Konda ; Baghavender Chari ; S. C. Sooryanarayana Chetty ; P. Thirumala Gowda ; V. S. Thama-reddy ; Smt. S. Veeramma ; M. Velluri ; V. Venkatappa.

Nominated (6)

Dr. N. A. Alingar ; Tejosinath Rathod ; Dr. S. Champa ; Rumaie Chennabasaviah ; L. Ramiah ; Gorur Ramaswamy Iyengar ; Syed Ghouse Mohiyuddin ; Kubnur Balakrishna Rao ; Dr. S. C. Nandimath.

MYSORE LEGISLATIVE ASSEMBLY

Constituencies : 179 (S.M. 150 ; D.M. 29) ; Seats : 208 (S.C. 28 ; S.T. 1) ; Electorate : 90,93,935.

Speaker : S. R. Kanthi. Deputy Speaker : L. H. Thimma Bovi.

An estimate of party position is given below : Congress 149 ; Praja Socialist Party 22 ; Communist Party of India 1 ; Scheduled Castes Federation (now Republican Party) 2 ; Peasants and Workers Party 1 ; Independents 31 ; Lok Nevak Sangh 2.

G. Anna Rao (Cong.), (Afsalpur) ; Chandrashekar S. Patel (Cong.), (Aland) ; Ramchandra Veerappa (SC) (Cong.), (Aland (R)) ; J. C. Ramaswami Reddy (Cong.), (Anekal) ; Ramchandra Gopal Kamat (Cong.), (Ankola) ; Puttegowda alias Puttaswamygowda (Ind.), (Arakal) ; A. R. Karisiddappa (Cong.), (Arakere) ; Jayawant Rao Bhojrao Pawar (Ind.), (Athani) ; Patil Venkanagouda Hanumanthgouda (Cong.), (Badami) ; Muralan Basappa Thammanna (Cong.), (Bagalkot) ; Smt. Sushilabai Hiranand Shah (Cong.), (Bagewadi) ; Manjappa Shetty (Cong.), (Basidur) ; K. V. Byregowda (Cong.), (Bangalore North) ; Y. Ramakrishna (SC) (Cong.), (Bangalore North (R)) ; A. V. Narasimhareddy (Cong.), (Bangalore South) ; B. Basavalingappa (SC) (Cong.), (Bangalore South (R)) ; L. S. Narayana Gowda (Ind.), (Bangarpet) ; L. S. Venkaji Rao (Cong.), (Basavangudi) ; Vithal Shitaram Patil (P.W.F.), (Belgaum I) ; Samaji Nagondra Omanna (Ind.), (Belgaum II) ; Sunthakar Balakrishna Rangarao (Ind.), (Belgaum City) ; Mandhuj Rangappa (Ind.), (Bellary) ; D. Ratnavarma Hegade (Cong.), (Bellanagadi) ; B. N. Borannagowda (Cong.), (Belur) ; H. K. Siddiah (SC) (Cong.), (Belur (R)) ; D. T. Seetharama Rao (Cong.), (Bhadrespet) ; Balwantrao (Ind.), (Bhaloti) ; B. Sham Sunder (SC) (Ind.), (Bhaloti (R)) ; Maqsood Ali Khan (Cong.), (Bidar) ; Dr. Sardar Basavraj Karbasappa Nagar (Ind.), (Bijapur) ; G. M. Chinnaaswamy (Ind.), (Biligeri) ; Desai Rachappa Mallappa (Cong.), (Bijgi) ; Jagajeevandas Shetty (Cong.), (Brahmawar) ; Mahmood Sharif (Cong.), (Broadway) ; B. K. Puttarajmalah (P.S.P.), (Channarayana) ; A. Bheemappa Naik (Cong.), (Challakere) ; T. Hanumalah (SC) (Cong.), (Challakere (R)) ; U. M. Madappa (P.S.P.), (Chamarajanagar) ; B. Rachiah (SC) (Cong.), (Chamarajanagar (R)) ; Smt. Lakshmidevi Ramanna (Cong.), (Chamarajpet) ; N. Huchamasethygowda (Cong.), (Chandrasekharpur) ; Kundur Rudrappa (Cong.), (Channagiri) ; G. E. Hoover (Ind.), (Chickpet) ; C. K. Rajalashetty (P.S.P.), (Chikmagalur) ; S. Muni Raju (Cong.), (Chikballapur) ; A. Muniyappa (SC) (Cong.), (Chikballapur (R)) ; A. M. Basave Gowda (Ind.), (Chikmagalur) ; L. H. Thimma Bovi (SC) (Cong.), (Chikmagalur (R)) ; Kothavale Shankarrao

Dadasaheb alias Dadoda (Cong.), (Chikodi) ; Veerendra Patil (Cong.), (Chincholi) ; T. K. Gangi Reddy* (Ind.), (Chintamani) ; G. Sivappa (Cong.), (Chitradurga) ; G. Duggappa (SC) (Cong.), (Chitradurga (R)) ; Smt. Vijaya Raghavender Rao (Cong.), (Chitapur) ; V. Srinivasa Shetty (P.S.P.), (Coondapur) ; V. P. Deenadayalu Naidu (Cong.), (Cubbempet) ; K. T. Jambanna (P.S.P.), (Dasanagere) ; B. Sivanna Warad (Cong.), (Dandur) ; M. B. Inamati (Cong.), (Dharwar) ; T. Siddalingappa (Cong.), (Doddaballapur) ; Gadag Kuberappa Parappa (Cong.), (Gadag) ; Smt. Dyavamma (Cong.), (Gandaki) ; Smt. Nagarathamma (Cong.), (Gandhinagar) ; B. V. Desai (Cong.), (Gangavathi) ; K. H. Venkata Reddy (Ind.), (Gauribidanur) ; Karalingannavar Ningappa Appayya (Cong.), (Gokak I) ; Panchagavi Appanna Ramappa (Cong.), (Gokak II) ; C. J. Muckkannappa (Ind.), (Gubbi) ; Mohamad Ali Mehtab Ali (Cong.), (Gulbarga) ; Pattanasethi Madivalappa Rudrappa (Cong.), (Gulbarga) ; Smt. K. S. Nagarathamma (Ind.), (Gundlupet) ; M. M. Patel (Cong.), (Hada-galli) ; Patil Basangouda Rudragouda (Ind.), (Hagali) ; M. Ramappa (P.S.P.), (Harihara) ; M. M. J. Sadyojathappaiah (P.S.P.), (Harpanahalli) ; M. Danappa (SC) (P.S.P.), (Harpanahalli (R)) ; K. T. Dasappa (Ind.), (Hassan) ; Smt. Mallar Shiddavva (Cong.), (Haveri) ; K. L. Narasimhalah (Cong.), (Hobbur) ; Gubbi Shankarrao Basalingappa Gowda (Cong.), (Hirekerur) ; K. Keshappa (P.S.P.), (Hiriyur) ; Y. Veerappa (P.S.P.), (Holenarasipur) ; J. H. Shamsuddin (Cong.), (Honnawar) ; H. S. Rudrappa (Cong.), (Honnali) ; A. S. Dudhya Naik (SC) (Cong.), (Honnali (R)) ; S. B. Ramalah (Cong.), (Hosakote) ; Smt. Rukmanamma (SC) (Cong.), (Hosakote (R)) ; B. S. Shankarappa (Ind.), (Hosur) ; Dr. B. Nagan Gowda (Cong.), (Hosur) ; Patil Mudgouda Ramanagouda (Cong.), (Hubli) ; Mohasin Fakerruddin Hussainab (Cong.), (Hubli City) ; Patil Malagouda Punagouda (Cong.), (Hukeri) ; Smt. Bhogale Champabai Piraji (SC) (Cong.), (Hukeri (R)) ; Madhav Rao (P.S.P.), (Hulur) ; M. S. Kantikar (Cong.), (Hunnabad) ; Kanthi Shivalingappa Rudrappa (Cong.), (Hunsund) ; D. Devara Urs (Cong.), (Hunsur) ; N. Rachiah (SC) (Cong.), (Hunsur (R)) ; Kabad Jatteppa Laxman (SC) (Cong.), (Indi (R)) ; Surpur Mallappa Karabasappa (Cong.), (Indi) ; Jatti Basappa Danappa (Cong.), (Jamekundi) ; Sharanagouda Sidramayya (Ind.), (Jesurpet) ; D. H. Rudrappa (Cong.), (Kadur) ; B. A. Desai (L.S.S.), (Kalgahatti) ; Shankarabethi Rachappa Patil (Cong.), (Kalgoti) ; Smt. Annappurna Bai Bagate (Cong.), (Kalyani) ; M. Linga Gowda (P.S.P.), (Kanakapura) ; Kanthappa Kodinje Hegde (Cong.), (Karkal) ; Manjappa Ullal (SC)

(Cong.), (Karkal (R)) ; Gaonkar Sakharam Dattatraya (Cong.), (Karewar) ; F. X. Pinto Denis (Cong.), (Kawp) ; Birje Laxman Balaji (Ind.), (Khanapur) ; D. Abdul Raheed (Cong.), (Kolar) ; M. C. Narasimhan (C.P.I.), (Kolar Gold Fields) ; O. M. Arumugham (SC) (S.C.F.), (Kolar Gold Fields (R)) ; T. P. Boriah (Cong.), (Kollegal) ; Smt. Kempamma (SC) (Cong.), (Kollegal (R)) ; Mallikarjun S. Patil (Cong.), (Koppal) ; H. M. Channabasappa (Cong.), (Krikanarejanagar) ; M. K. Bomme Gowda (Cong.), (Krikanarejapet) ; Smt. V. Mirjankar Vasantlalata (Cong.), (Kumta) ; Kambli Timmanna Keshappa (Cong.), (Kundgot) ; T. N. Mudalagiri Gowda (Cong.), (Kunigal) ; Smt. Allium Sumangalamma (Cong.), (Kurugodu) ; Pundlikappa Sawarappa (Cong.), (Kushnagi) ; Basannagouda (Cong.), (Lingsur) ; H. K. Veeranna Gowdh (Cong.), (Maddur) ; Mali Mariyappa (Cong.), (Madhugiri) ; B. Channigaramalah (SC) (Cong.), (Madhugiri (R)) ; T. D. Marana (Cong.), (Madaki) ; H. V. Veeragowda (Cong.), (Malavalli) ; M. Mallikarjunaswamy (SC) (Cong.), (Malavalli (R)) ; T. Parthasarathy (Ind.), (Malleswaram) ; H. C. Linga Reddy (Cong.), (Malur) ; G. S. Bomme Gowda (Ind.), (Mandya) ; Vaikunta Balliga (Cong.), (Mangalore I) ; Gajanan Pandit (Cong.), (Mangalore II) ; Smt. Basavarajeshwari (Cong.), (Mangori) ; K. Mallappa (Cong.), (Meroara) ; S. Nijalingappa (Cong.), (Molokanuru) ; Sidhanti Pransh Gurubhatti (Cong.), (Muddethal) ; Hiralal Bandulal Shah (Cong.), (Mudhol) ; B. L. Narayana Swamy (Ind.), (Mulbagal) ; J. Narayanappa (SC) (Cong.), (Mulbagal (R)) ; Hulikoti Chanbasappa Sadasaivappa (Cong.), (Mundargi) ; K. Puttaswamy (Cong.), (Mysore) ; K. S. Suryanarayana Rao (Cong.), (Mysore City) ; A. Mohamed Sait (Ind.), (Mysore City North) ; T. Mariappa (Cong.), (Nagamangala) ; J. B. Mallaradhya, (P.S.P.), (Naganagudi) ; Adiveppagouda Shiddangouda Patil (Cong.), (Naryund) ; Ramanagouda Marigouda Patil (Cong.), (Neralgundi) ; Alur Hanumanthappa (Cong.), (Nalamangala) ; Lokasavaniratha M. Hanumanthiah (SC) (Cong.), (Nalamangala (R)) ; Naik Balawant Datto (Ind.), (Nipendi) ; G. Venkatai Gowda (Ind.), (Palayam) ; Dr. K. Nagappa Alva (Cong.), (Panamangalore) ; B. Chamalah (P.S.P.), (Pandalgouda) ; Padaki Shankar Rao Bindoor Rao (Ind.), (Parasagud) ; K. M. Deviah (Con.), (Periyapatta) ; K. Venkatramanna Gowda (Cong.), (Puttur) ; Subayya Naik (ST) (Cong.), (Puttur (R)) ; Patil Vasant Rao Lakhgouda (Ind.), (Raibag) ; Talwar Sampat Rao Pradhanji (SC) (S.C.F.), (Raibag (R)) ; Syed Easa (Cong.), (Raichur) ; G. Bhimanna (SC) (Cong.), (Raichur (R)) ; K. Hanumanthiah (Cong.), (Ramanagaram) ; Pattan Mahadevappa Shivabasappa (Ind.), (Ramdevur)

* Election not aside.

Patil Kallanagouda Fakiragouda (Cong.), (Rantbenur); Smt. Sambrani Yallawva (SO) (Cong.), (Rantbenur); A. J. Dodameti (Cong.), (Roi); Khot Balaji Govind (Ind.), (Sadalga); D. Mookappa (Cong.), (Sagar); Koulaji Hemappa Virabhadrapa (Cong.), (Sampgaon I); H. Rayan Goud (Cong.), (Sampur); Malleppa Lingappa (Cong.), (Serum); J.P. Sarweah (SO) (Ind.), (Serum); Y. Virupakshappa (Cong.), (Shakpur); Patil Rudragouda Chanabasagouda (Cong.), (Shiggaon); Smt. Rathamma Madhav Rao (Cong.), (Shimoga); Smt. Magadi Leelavati Venkatesh

(Cong.), (Shirahatti); Kumar Nalk Venkatappa Nalk (Cong.), (Shorapur); J. Venkatappa (Ind.), (Siddaghatta); Patil Shankaragouda Yashwanthagouda (Cong.), (Sindga); Basawant Rao Bannagouda (Cong.), (Sindhanur); T. Taregowda (Cong.), (Sire); P. Anjanappa (SO), (Cong.), (Sire); B. M. Ramalal (Cong.), (Sivagappa); R. M. Dodmane Hegde (Cong.), (Sivri); N. G. Narasimhagowda (P.S.P.), (Sivvenabalgola); Kadidal Manappa (Cong.), (Sringari); A. G. Chunchu Gowda (Ind.), (Sringampatna); K. Dhoomappa (Cong.), (Surathkal); Patil Kumargouda Adiveppagouda (Ind.), (Talikot); T. R. Parameshwaralal (Cong.),

(Tarkere); A. R. Badri Narayan (Cong.), (Thirthahalli); Chanbasappa Jagadevappa Ambli (Cong.), (Tibeto); K. P. Revannasiddappa (P.S.P.), (Tiptur); M. Rajasekhara Murthy (Cong.), (T. Narasipur); G. N. Pattanna (P.S.P.), (Tumkur); T. Subramanya (Cong.), (Twarasehro); Upendra S. Nayak (P.S.P.), (Udipi); Mrs. Grace Tucker (Cong.), (Ulor); C. M. Poonacha (Cong.), (Virajpet); S. Kariappa (Cong.), (Virupakshapur); B. Nadgowda (Ind.), (Yadgi); Alwandi Shankargowda (Cong.), (Yalburga).

F. W. Corbett (Nominated Anglo-Indian).

ORISSA LEGISLATIVE ASSEMBLY

No. of constituencies: 101 (S.M. 62; D.M. 39). No. of seats: 140 (Res. for S.C. 25; S.T. 29). Electorate: 79,82,341.

Speaker: Pandit Nukantha Das.

Dy. Speaker: Jadumanj Mangaraj.

An estimate of party position is given below: Congress 65; Praja Socialist Party 11; Socialist Party 1; Communist Party of India 8; Ganatantra Parishad 45; Independents; Jharkhand 6. Upendra Jena (G.P.), (Anandpur); Makara Sethi (SO), (Cong.), (Anandpur); Kumud Chandra Singh (Cong.), (Angul); Narendra-kumar Nayak (SO), (Cong.), (Angul); Harihar Das (G.P.), (Aska); Radhanath Rath (Cong.), (Athgarh); Khetramohan Panigrahy (G.P.), (Athmalik); Bhanja Deo Raja Sallendra Narayan (Cong.), (Aw); Sundar Mohun Hemrom (ST), (J.K.), (Bahalda); Prasanna Kumar Dash (P.S.P.), (Bairisinga); Panchanan Das (SO), (Cong.), (Bairisinga); Baikunthanath Mohanty (P.S.P.), (Balkuda); Lokanath Patra (ST), (Cong.), (Balkuda); Radha Mohan Nalk (ST), (I.P.), (Bansgiri); Jogesh Chandra Rout (Cong.), (Bansk); Rani Sahiba Kanaklata Debi (G.P.), (Baramba); Jadumoni Mangaraj (Cong.), (Barhanga); Nikunjabihari Singh (G.P.), (Bargarh); Bahadur Mahanand (SO), (G.P.), (Bargarh); Harihar Mohanty (P.S.P.), (Baripada); Namal Majhi (ST), (J.K.), (Baripada); Akshayanarayan Prabhaj (Cong.), (Basta); Lingaraj Panigrahi (Cong.), (Berhampur); Dandapani Das (SO), (Cong.), (Berhampur); Satyananda Champatray (Cong.), (Begunia); Nityananda Mohapatra (Ind.), (Bhadrak); Govinda Pradhan (C.P.I.), (Bhanjanagar); Suma Nalk (SO), (C.P.I.), (Bhanjanagar); Natabar Banchoh (C.P.I.), (Bhathi); Chandrasekhar Pradhan (G.P.), (Bhawani Patna); Karunakar Bhoi (ST), (G.P.), (Bhawani Patna); Durgasankar Das (Cong.), (Bhograi); Satyapriya Mohanty (Cong.), (Bhudebanpur); Bankabihari Das (P.S.P.), (Bijargarh); Nirmal Munda (ST), (J.K.), (Bura); Nanda Kishore Mishra (G.P.), (Bolangir); Ramesh Chandra Bhoi (ST), (G.P.), (Bolangir); Arjun Nalk (ST), (G.P.), (Bonai); Padma Charan Samantasinghar (Cong.), (Brakmagiri); Rajaballava Mishra (G.P.), (Champua); Gurucharan Nalk (ST), (G.P.), (Champua); Nilamoni Routroy (Cong.), (Chandabali); Nandakishore Jena (SO), (Cong.), (Chandabali); Yatiraj Prabhaj (Cong.),

(Chhatrapur); Biren Mitra (Cong.), (Cutback Gub); Rajakrishna Bose (Cong.), (Cutback Seder); Purnananda Samal (SO), (Cong.), (Cutback Seder); Raja Bahadur Kishore Chandra Deo Bhanja (Cong.), (Dasapalla); Sridhar Nayak (SO), (Cong.), (Dasapalla); Smt. Rani Joyotimanjari Debi (G.P.), (Deogarh); Jayadeb Thakur (ST), (G.P.), (Deogarh); Muralidhar Jena (Cong.), (Dhamnagar); Madan Mohan Patnaik (Cong.), (Dharamesala); Mayadhar Sinha (SO), (Cong.), (Dharamesala); Bira Keshari Deo (G.P.), (Dharmagarh); Janardan Majhi (ST), (G.P.), (Dharmagarh); Raja Shankar Pratap Singhdeo Mahindra Bahadur (G.P.), (Dhankanal); Kalla Dehuri (ST), (G.P.), (Dhankanal); Smt. Anangamanjari Devi (Cong.), (Digapahandi); Mohan Nalk (SO), (Cong.), (Digapahandi); Pakanali Venkata Jagannatharao (Cong.), (Dura); Lokanath Choudhury (C.P.I.), (Ernana); Sarangadhar Padhan (ST), (Cong.), (G. Udaigiri); Norashimbo Patro (Cong.), (Gunupur); Sanyasi Charan Pidika (ST), (Cong.), (Gunupur); Brundaban Nayak (Cong.), (Hinjilt); Bira Kishore Das (Cong.), (Jagatsinghpur); Kanduricharan Mallick (SO), (P.S.P.), (Jagatsinghpur); Gadadher Dutta (Cong.), (Jajpur); Santanu Kumar Das (SO), (Cong.), (Jajpur); Prasanna Kumar Paul (P.S.P.), (Jaleswar); Bijoykumar Paul (Cong.), (Jaruguda); Manohar Nalk (ST), (Cong.), (Jaruguda); Mochiram Tiria (ST), (G.P.), (Jashipur); Harihara Misro (G.P.), (Jajpur); Lochano Nalko (SO), (G.P.), (Jajpur); Mohan Das (C.P.I.), (Kakapuri); Bharat Das (SO), (C.P.I.), (Kakapuri); Lalabab Nalin Chandra Bhanja Deo (G.P.), (Karonjia); Kishorohandra Deo (G.P.), (Kasipur); Manik Bai Nalk (SO), (G.P.), (Kasipur); Purusottam Panda (G.P.), (Katarbaga); Dinabandhu Sahu (Cong.), (Kendrapara); Prahalad Malik (SO), (Cong.), (Kendrapara); Janardan Bhanja Deo (G.P.), (Keonjhar); Krushnachandra Mahapatra (ST), (Cong.), (Keonjhar); Narayan Sahu (So.), (Khalikote); Harihar Singh Mardara Bhramarabar Ray (Cong.), (Khandpara); Prannath Pattnaik (C.P.I.), (Khurda); Smt. Ratnaprava Devi (G.P.), (K. Nagar); Rama Chandra Mara-

darajdev (Cong.), (Kodala East); Harihar Das (Cong.), (Kodala West); Lachuman Fajari (ST), (G.P.), (Koraput); Ram Prasad Misra (G.P.), (Laisingha); Madkani Guru (ST), (G.P.), (Malkangiri); Anup Singh Deo (Cong.), (Newapara); Ghasiram Majhi (ST), (Cong.), (Newapara); Krushnachandra Singh Mandhata (Cong.), (Nayagarh); Nilambar Das (Cong.), (Nigiri); Sadasiba Tripathy (Cong.), (Nowrangpur); Harijan Mira (SO), (Cong.), (Nowrangpur); A. R. Khan (G.P.), (Omorkote); Lal Mitroday Singh Baria (ST), (G.P.), (Padampur); Bir Bikramaditya Singh Baria (ST), (Cong.), (Padampur); Lakshmana Gauda (G.P.), (Padua); Mrutyunjay Pal (G.P.), (Pal-Lahara); Nalla Kurnunakulu (G.P.), (Parikimiri); Aishnu Sahoo (G.P.), (Patnagarh); Asharam Bhoi (ST), (G.P.), (Patnagarh); Loknath Misra (Cong.), (Pabura); Himansu Shekhar Padhi (Cong.), (Phulbani); Anirudha Dipa (SO), (G.P.), (Phulbani); Ram Chandra Pattnaik (Cong.), (Pipit); Gopinath Bhoi (SO), (Cong.), (Pipit); Mallu Santa (ST), (Cong.), (Pottangi); Harihara Behinipali (P.S.P.), (Puri); Hardev Triya (ST), (J.K.), (Rairangpur); Shanti Prakash Oram (ST), (J.K.), (Rajgangpur); Ananta Charan Tripathy (Cong.), (Rajnagar); Smt. Basant Manjari Debi (Cong.), (Rangpur); Mandangi Kamayya (ST), (Cong.), (Rayagada); Ramchandra Bhuya (ST), (Cong.), (R. Udaigiri); Pradipakishore Das (P.S.P.), (Salepur); Balidhara Bohera (SO), (P.S.P.), (Salepur); Lakshmi Prasad Misra (G.P.), (Sambalpur); Bhikhar Ghasi (SO), (G.P.), (Sambalpur); Nilakantha Das (Cong.), (Satsyabadi); Anantaram Nanda (G.P.), (Sonepur); Dauleta Ganda (SO), (G.P.), (Sonepur); Dr. Harekrishna Mahtab (Cong.), (Soro); Chitanya Sethi (SO), (Cong.), (Soro); Udit Pratap Shekhar Deo (G.P.), (Sundergarh); Gangadhar Pradhan (ST), (G.P.), (Sundergarh); Bijayananda Pattnaik (Cong.), (Suruda); Pabiramohan Pradhan (Cong.), (Talehar); Nishahani Khuntia (P.S.P.), (Tirolo); Rajendra Narayan Singh Deo (G.P.), (Tilagarh); Achyutanand Mahanand (SO), (G.P.), (Tilagarh); Manmohan Tudu (ST), (Cong.), (Udaia (R)).

PONDICHERY STATE REPRESENTATIVE ASSEMBLY

The Assembly was dissolved in October 1958. Fresh elections have not taken place (June 1959).

PUNJAB LEGISLATIVE COUNCIL

Strength: 51.

An estimate of party strength: Congress 42; Independents 6; Jan Sangh 3.

Chairman: Sardar Kapoor Singh.

Dy. Chairman: Chand Singh.

Secretary: B. L. Niroia.

Asst. Secretary: Sukhendra Singh.

Private Secretary to Chairman: Kartar Singh Mann.

Ministers: Dr. Gopi Chand Bhargava (Legislative Assembly); Mohan Lal (Legislative Assembly); Captain Rao Birender Singh (Local Authorities).

Deputy Ministers: Professor Yashwant Rai (Nominated).

A. O. Bali (Legislative Assembly); Shrimati Balwant Kaur (Nominated); Balwant Rai

Ahluwalia (Legislative Assembly); Chaman Lal, M.A. (Teachers); Babu Shri Chand (Local Authorities); Chand Ram (Legislative Assembly); Darbari Lal Gupta (Local Authorities); Daya Krishan (Local Authorities); Des Raj (Legislative Assembly); Dr. Dina Nath Saggar (Local Authorities); Smt. Gian Kaur Vidyarthi (Nominated); Sardar Gulab Singh (Local Authorities); Sardar Gurbakhsh Singh (Local Authorities); Sardar Gurcharan Singh (Teachers); S. Gurdit Singh (Legislative Assembly); Hans Raj Kapur (Legislative Assembly); Major Sardar Harinder Singh (Legislative Assembly); Ch. Hari Singh (Local Authorities); Ch. Hakim Singh (Legislative Assembly); Mrs. Ila Bani Ahooja (Graduates); Chaudhri Kalayan Singh (Local Authorities); Chaudhri Kartar Singh (Legislative Assembly); Krishna Lal (Local Authorities); Kundan Lal Ahuja (Local Authorities); Milkhi Ram

(Legislative Assembly); Pt. Prem Chand Markanda (Teachers); S. Prem Singh Lalpur (Local Authorities); Premnath Dass (Local Authorities); Prithvi Singh Asad (Legislative Assembly); Mrs. Pritpal Kaur Wasu (Nominated); Raghuvir Saran Sharma (Local Authorities); Ram Chandra (Graduates); Pandit Ram Dhan Sharma (Nominated); S. Ranjit Singh, Sardar (Local Authorities); Chaudhri Sahib Ram, (Legislative Assembly); Chaudhry Sultan Singh (Legislative Assembly); Suraj Bhan (Graduates); Chaudhri Surja Ram (Nominated); Sardar Teja Singh Namdhari (Legislative Assembly); Tek Chand, (Local Authorities); Chandhri Ude Singh Mann (Teachers); Miss V. G. Bhan (Nominated); S. Umrao Singh, (Local Authorities); Virendra (Graduates); Yash (Legislative Assembly).

Vacant (Nominated) 1.

PUNJAB LEGISLATIVE ASSEMBLY

Constituencies: 121 (S.M. 88; D.M. 33). Seats: 154 (S.C. 33). Electorate: 92,08,926.

Speaker: Sardar Gurdial Singh Dhillon.

Dy. Speaker: Chaudhri Sarup Singh.

An estimate of party position is given below: Congress 117; Independent and Socialist Front 15; Communist Party of India 5; Bhartiya Jan Sangh 8; Scheduled Castes Federation (now Republican Party) 3; Independents 5; Vacant 1.

Chaudhri Sahi Ram Bhabnoi (J.S.), (Abohar); Sardar Achhar Singh Chhina (C.P.I.), (Ajala); Smt. Krishna Sethi (Cong.), (Amb); Dev Raj Anand (Cong.), (Ambala Cantonment); Khan Abdul Ghaflar Khan (Cong.), (Ambala City); Sardar Sarup Singh (Cong.), (Amritsar City Civil Lines); Dr. Baldev Parkash (J.S.), (Amritsar City East); Balramdas Tandon (J.S.), (Amritsar City West); Sardar Waryam Singh (Cong.), (Amritsar Sadar); Sardar Charan Singh (SC) (Cong.), (Amritsar Sadar (N)); Chaudhri B. B. Bant (Cong.), (Anandpur); Chaudhri Sri Chand (Cong.), (Bahadurgarh); Sardar Kartar Singh Diwana (Cong.), (Barnala); Gorakh Nath (Cong.), (Batala); Jathedar Sohan Singh Jalaluman (Cong.), (Beas); Sardar Gurnit Singh Mit (Cong.), (Bhagpurwala); Sardar Sohan Singh (SC) (Cong.), (Bhagpurwala (R)); Harbans Lal (Cong.), (Bhatinda); Ram Kumar Bidhat (Cong.), (Bhissani); Chaudhri Chambel Singh (Cong.), (Butana); Sardar Niranjan Singh Talib (Cong.), (Chandigarh); Attar Singh (J.S.), (Dadri); Sis Ram (SC) (J.S.), (Dadri (R)); Giani Kartar Singh (Cong.), (Dasuya); Sardar Waryam Singh (Cong.), (Dera Baba Nanak); Thakur Mehr Singh (Cong.), (Dera Gopipur); Chaudhry Hari Ram (Cong.), (Dharamsala); Sardar Harbans Singh (Cong.), (Dharsiwala); Sardar Jasdev Singh Handhu (Cong.), (Dhuri); Comrade Jagbir Singh (SC) (C.P.I.), (Dhuri (R)); Sardar Mehr Singh (Cong.), (Ferozkot); Mani Ram Godara (Cong.), (Fatehabad); Sardar Joginder Singh (Cong.), (Fatehgarh); Chaudhri Radha Krishan (Cong.), (Fazilka); Kundan Lal (Cong.), (Ferozepur); Chaudhri Mohammed Yasin Khan (Cong.), (Ferozepur Jhirka); Choudhary Lahri Singh (Cong.), (Ganauar); Dr. Bhag Singh (C.P.I.), (Garhsenkar); Ch. Dasvondha Singh (SC) (Cong.), (Garhsenkar (R)); Multan Singh (Cong.), (Gharunda); Ch. Bharat Singh (I.S.F.), (Gohana); Ch. Chajju Ram (SC) (I.S.F.), (Gohana (R)); Prabodh Chandra (Cong.), (Gurdaspur); Chaudhri Sunder Singh (SC) (Cong.), (Gurdaspur (R)); Rao Gajraj Singh (Cong.), (Gurgaon); Gyani Bhaktawar Singh Rai (Cong.), (Guru

Har Sahai); Smt. Sarla Devi Sharma (Cong.), (Hamirpur); Rup Singh Phul (SC) (I.S.F.), (Hamirpur (R)); Sardar Sarup Singh (Cong.), (Hansi); Dalbir Singh (SC) (Cong.), (Hansi (R)); Sumar Singh (Cong.), (Hassanpur); Balwant Rai Tayal* (Cong.), (Hisar City); Smt. Sneh Lata (Cong.), (Hisar Sadar); Chaudhri Balbir Singh (I.S.F.), (Hoshiarpur); Chaudhri Karam Chand Sidhu (SC) (S.C.F.), (Hoshiarpur (R)); Amar Nath Vidyalkar (Cong.), (Jagadhri); Ram Parkash (SC) (Cong.), (Jagadhri (R)); Smt. Bibi Har Parkash Kaur (Cong.), (Jagraon); Smt. K. Jagdish Kaur (I.S.F.), (Jaitu); Abhal Singh (Cong.), (Jatusana); Sher Singh (I.S.F.), (Jhajjar); Phul Singh (SC) (C.P.I.), (Jhajjar (R)); Inder Singh (S.C.F.), (Jind); Bhala Ram (SC), (R.C.F.), (Jind (R)); Lal Chand (J.S.), (Jullundur City); North-East; Jagat Narain Chopra (I.S.F.), (Jullundur City South-West); Smt. Om Prabha Jain (Cong.), (Kathal); Maester Nanhu Ram (Cong.), (Kalanauar); Amar Nath Sharma (Cong.), (Kangra); Bawa Harnam Singh (Cong.), (Kapurthala); Ram Piara (Cong.), (Karnal); Sardar Karam Singh 'Kirti' (Cong.), (Kartarpur); Sardar Gurbanta Singh (SC) (Cong.), (Kartarpur (R)); Sardar Gurwaryam Singh (Ind.), (Khair); Raja Raghib Singh (Cong.), (Kulu); Lala Jit Ram (Cong.), (Kulu (R)); Lala Lajpat Rai (J.S.), (Ludhiana City); Har Bhagwan Maudgil (Cong.), (Ludhiana North); Sardar Ram Dayal Singh (Cong.), (Ludhiana South); Smt. Dr. Parkash Kaur (Cong.), (Majitha); Sardar Chanda Singh (Cong.), (Malerkotla); Sardar Parkash Singh (Cong.), (Malout); Subedar Teja Singh (SC) (Cong.), (Malout (R)); Sardar Harohan Singh (Cong.), (Manasa); Gyani Kirpal Singh Shant (SC) (Cong.), (Manasa (R)); Sardar Jagraj Singh Gill (Cong.), (Moga); Sardar Nihal Singh (Cong.), (Mohindergarh); Rala Ram (Cong.), (Mukerian); Bhagat Guran Das Hans (SC) (Cong.), (Mukerian (R)); Sardar Harcharan Singh (Cong.), (Mukhtar); Sardar Balwant Singh (Cong.), (Nabha); Sardar Umrao Singh (Cong.), (Nakodar); Sant Ram (SC) (Cong.), (Nakodar (R)); Chaudhri Sadhu Ram (Cong.), (Naraingarh); Roohan Lal (SC) (Cong.), (Naraingarh (R)); Devki Nandan (I.S.F.), (Narnaul); Sardar Harguram Singh (Cong.), (Nawanshahr); Chaudhri Jagat Ram (SC) (Cong.), (Nawanshahr (R)); Maulvi Abdul Ghani Dar (Cong.),

(Nuh); Sardar Darbara Singh (Cong.), (Nurmahal); Comrade Ram Chandra (Cong.), (Nurpur); Jathedar Inder Singh Lehi (Cong.), (Pakka Kalan); Sardar Dhanna Singh Gulaban (SC) (Cong.), (Pakka Kalan (R)); Bakshi Partap Singh (Cong.), (Palampur); Gurudatt (Cong.), (Palwal); Chaudry Bhule Ram (SC) (Cong.), (Palwal (R)); Dr. Parma Nand (Cong.), (Panipat); Mohan Lal (Cong.), (Pataudi); Pandit Bhagrat Lal Shastri (Cong.), (Pathankot); Raja Bhalindra Singh (Ind.), (Patiala); Sardar Narain Singh (Cong.), (Patti); Jagdish Chand (Cong.), (Pehowa); Hans Raj Sharma (Cong.), (Phagwara); Sardar Udharn Singh (Cong.), (Phillaur); Ram Nath (Cong.), (Phul); Chaudhri Bhag Singh (I.S.F.), (Pundri); Comrade Hukam Singh (Ind.), (Rai); Sardar Pal Singh Broomi (Cong.), (Rai Kot); Sardar Bhag Singh (SC) (Cong.), (Rai Kot (R)); Vacant; (Rajaula); Sardar Prem Singh Prem (Cong.), (Rajpura); Rajkumari Sumitra Devi (Cong.), (Rawari); Mangal Sen (J.S.), (Rohak); Sant Sadhu Singh (Ind.), (Rupar); Master Pratap Singh (SC) (Cong.), (Rupar (R)); Dev Datt Puri (Cong.), (Sadhsaura); Sri Krishnan Shastri (Cong.), (Safidon); Sardar Bhupender Singh Mann (Cong.), (Samana); Sardar Harchand Singh (SC) (Cong.), (Samana (R)); Chaudhri Dharam Singh Rathi (I.S.F.), (Sambhalta); Suraj Bhan (I.S.F.), (Sampla); Sartar Jagir Singh (SC) (Cong.), (Samrala (R)); Sardar Ajmer Singh (Cong.), (Samrala); Sardar Rajinder Singh (Cong.), (Sangrur); Sardar Partap Singh Kalron (Cong.), (Sarhali); Comrade Muni Lal (I.S.F.), (Simla); Sardar Ghan Singh Rarewala (Cong.), (Sirhind); Sardar M. S. Gill (SC) (Cong.), (Sirhind (R)); Devall (Cong.), (Sira); Kewar Ram (SC) (Cong.), (Sira (R)); Pandit Ram Sharma (I.S.F.), (Sonapat); Sardar Gurbachan Singh Hajwa (Cong.), (Sri Gobindpur); Sardar Atma Singh (Cong.), (Sultampur); Raja Maheeh Indra Singh (Ind.), (Sunam); Sardar Pritam Singh Sahoke (SC) (Cong.), (Sunam (R)); Sardar Gurdial Singh Dhillon (Cong.), (Tarn Taran); Sardar Niranjan Singh (SC) (Cong.), (Tarn Taran (R)); Banarsi Dass Gupta (Cong.), (Thanesar); Ram Singh (SC) (Cong.), (Thanesar (R)); Ch. Suraj Mal (Cong.), (Tobana); Chaudhri Chander Bhan (Ind.), (Tosham); Pandit R. K. Bhargava (C.P.I.), (Una); Sardar Gurdit Singh (Cong.), (Zira); Smt. Jaawant Kaur (SC) (Cong.), (Zira (R)).

RAJASTHAN LEGISLATIVE ASSEMBLY

Constituencies: 136 (S.M. 96; D.M. 40); Seats: 176 (S.C. 28; S.T. 20). Electorate: 87,44,616.

Speaker: Ram Niwas Mirdha.

Dy. Speaker: Niranjanath Acharya.

Secretary: D. Parihar.

An estimate of party position is given below: Congress 121; Praja Socialist Party 2; Bhartiya Jan Sangh 11; Ram Rajya Parishad 8; Independents 5; Praja Pragritishul Dal 26; Socialist Party 3.

Dalpat Singh (R.E.P.), (Abu); Madho Singh (Cong.), (Aboar); Mahendra Singh Powar (P.P.D.), (Ajmer City East); Arjan Das (Ind.), (Ajmer City West); Bhairav Lal (ST), (Cong.), (Aklera); Sampatraj (Cong.), (Aklera); Chotu Singh (Cong.), (Akwar); Sahdeo (Cong.), (Amber); Hari Shanker Sidhant Shastri (SC), (Cong.), (Amber (R)); Jai Singh Ranawat (Cong.), (Asind); Bhogi Lal Pandya (Cong.), (Aspur); Nathuram (ST), (Cong.), (Bagidora); Mukti Lal Modi (Ind.), (Bairath); Dawa Ram Girasia (SC), (Cong.), (Bali (R)); Moti Baba Choudhary (P.P.D.), (Bali); Anope Singh (R.E.P.), (Bali); Rawat Ram Nahal (SC), (Cong.), (Baliotra); Bishambhar Nath Joshi (Cong.), (Bandi); Tej Mal Bapna (Cong.), (Banera); Badri Prasad Gupta (Cong.), (Bansur); Mogli Bhai (ST), (Soc.), (Banwara); Smt. Anandi Devi Jolia (SC), (Cong.), (Baran); Dalip Singh (Cong.), (Baran); Subedar Singh (Cong.), (Bari);

Tan Singh (R.E.P.), (Barmer); Goverdhan Singh Ken (SC), (Cong.), (Bayera); Sribhan Singh (Cong.), (Bayera); Brij Mohan Lal Sharma (Cong.), (Beawar); Sagan Chand Jain (Cong.), (Begun); Chander Singh (J.S.), (Behror); Hoti Lal (P.P.D.), (Bharatpur); Smt. Kamla Shrotria (Cong.), (Bhilwara); Fateh Singh (P.P.D.), (Bhim); Murlidhar Vyas (Soc.), (Bikaner City); Bhairon Singh (Cong.), (Bilera); Sajjan Singh (Cong.), (Bundi); Daya Krishna Vijal (J.S.), (Chhabra); Dhanna Lal Harit (SC), (Cong.), (Chhabra (R)); Lal Singh Saktawat (Cong.), (Chittorgarh); Wali Mohammed (Cong.), (Choktan); Mohar Singh (P.P.D.), (Churu); Rawat Ram (SC), (Cong.), (Churu (R)); Ramchandra (SC), (Cong.), (Dag); Harishchandra (Cong.), (Dag); Madan Singh (J.S.), (Danta Ramgarh); Gajja Patel (ST), (P.P.D.), (Dausa); Ram Dhan (P.P.D.), (Dausa); M. Chaudhry (Cong.), (Deodwana); Jugal Kishore Chaturvedi (Cong.), (Deeg); Smt. Gauri Puniya (Cong.), (Degana); Bahadur Singh (Cong.), (Dholpur); Narendra Singh (R.E.P.), (Dudu); Lodu Ram Sulaniya (SC), (J.S.), (Dudu); Daulat Ram Saran (Cong.), (Dungargarh); Balmukand (ST), (P.P.D.), (Dungarpur); Abdul Ghaflar Khan (Cong.), (Fatehpur); Prithi Raj (ST), (P.P.D.),

(Gangapur); Rishi Chand Pallwal (P.P.D.), (Gangapur); Dev Nath (Cong.), (Ganganagar); Harideo Joshi (Cong.), (Ghatol); Laxman Hirat (Cong.), (Gogunda); Shiv Nath Singh (Cong.), (Gudak); Ramdan (Cong.), (Guda Malani); Ramchandra Chowdhary (Cong.), (Hanumangarh); Ram Kishore Vyas (Cong.), (Hawamahal, Jaipur); Bhanwarlal (Cong.), (Hindoli); Modula (ST), (Cong.), (Hindoli (R)); Hukam Singh (R.E.P.), (Jaisalmer); Narpal Singh (R.E.P.), (Jalore); Amritlal Yadava (Cong.), (Jalore (R)); Doo-gari Dass (P.P.D.), (Jamwa Ramgarh); Ram Lal Bansiwal (SC), (Cong.), (Jamwa Ramgarh (R)); Manak Chand Kothari (Cong.), (Jaisal); Jayendra Singh (Cong.), (Jhalrapatan); Narottam Lal Joshi (Cong.), (Jhunjhunu); Anand Singh Kachwahia (Cong.), (Jodhpur City I); Barkutullah Khan (Cong.), (Jodhpur City II); Satish Chandra Agarwal (J.S.), (Johri Bazar, J); Nathi Singh (P.P.D.), (Kaman); Jai Chand (SC), (Cong.), (Kaparin (R)); Bhawani Shanker Nandwana (Cong.), (Kaparin); Smt. Satwant Kaur (Cong.), (Karnapur); Umedil Lal (SC), (Cong.), (Karsuk); Brijendrapal (P.P.D.), (Karsuk); Hari Bhai Upadhyaya (Cong.), (Ketri); Hazari Lal Bakolia (SC), (Cong.), (Ketri (R)); Manroop Ram Parihar (SC), (P.P.D.), (Kharoti (R)); Beena

* Election void.

Ram Gahlot (P.P.D.), (*Kharoti*); Shish Ram Ola (Cong.), (*Khetri*); Mahadeo Prasad Banka (SC), (Cong.), (*Khetri* (R)); Purshottam Lal Sharma (Cong.), (*Kishangarh*); Smt. Chandra Kala (Cong.), (*Kushampola, Jaipur*); Rameshwar Dayal (Cong.), (*Kotah*); Ram Karan Singh (J.S.), (*Kotputli*); Shri Manohar Kothari (Cong.), (*Kumbhalgarh*); Heera Bhai (ST), (Soc.), (*Kushalgarh* (R)); Gokul Chand (SC), (Cong.), (*Lachmangarh* (R)); Bhola Nath (Cong.), (*Lachmangarh*); Kishan Singh (Cong.), (*Lachmangarh*); Ram Niwas Mirdha (Cong.), (*Ladnu*); Nathu Lal Karol (ST), (P.P.D.), (*Lalsot* (R)); Prabhu Lal Purohit (P.P.D.), (*Lalsot*); Poonam Chand Vishnoi (Cong.), (*Luni*); Bhimsen (Cong.), (*Lunkaransar*); Gopi Sahai (ST), (Cong.), (*Mahwa* (R)); Bhorai Meena (Jan Sangh), (*Mahwa*); Damodar Lal Vyas (Cong.), (*Malpura*); Lachhu Ram (P.P.D.), (*Mandawa*); Kalu Ram (ST), (J.S.), (*Mandal* (R)); Shivcharan Dasa (J.S.), (*Mandal*); Ganpati Lal Verma (Cong.), (*Mandalgarh*); Narain Singh (Cong.), (*Masuda*); Janardan Rai Nagar (Cong.), (*Masuli*); Gopal Lal (Cong.), (*Merta*); Nathu Ram Mirdha (Cong.), (*Nagaur*); Jwala Prasad Sharma (Cong.), (*Nasirabad*); Kishan Lal Sharma (Cong.), (*Nathdwara*);

Sri Ram Basotia (P.P.D.), (*Nowalgarh*); Kishanlal Shah (Cong.), (*Nowan*); Jetha Mal (SC), (Cong.), (*Nowan* (R)); Gyan Chand Modi (Cong.), (*Nowan-Ka-Thana*); Narayan Lal (SC), (Cong.), (*Nowan-Ka-Thana* (R)); Niwas Sharda (Cong.), (*Nimbahera*); Dharampal Panwar (SC), (Cong.), (*Nohar* (R)); Ram Kishan Bhambhu (P.P.D.), (*Nohar*); Girdhari Lal (P.P.D.), (*Nokha*); Roopa Ram (SC), (P.P.D.), (*Nokha* (R)); Parah Ram (Cong.), (*Onian*); Mool Chand (Cong.), (*Pali*); Vidyaasagar (Cong.), (*Phalasia*); Kesari Singh (R.E.P.), (*Phalodi*); Suraj Mal (SC), (R.E.P.), (*Phalodi* (R)); P. K. Choudhary (Cong.), (*Phulera*); Smt. Sumitra (Cong.), (*Pilani*); Ram Narayan Verma (ST), (J.S.), (*Pipalda* (R)); Rikhab Chandh Dhariwal (Cong.), (*Pipalda*); Amra Meena Rawat (ST), (Cong.), (*Pratapgarh* (R)); Anrilal Payak (Cong.), (*Pratapgarh*); Smt. Prabha Mishra (Cong.), (*Pushkar*); Shanker Lal (Cong.), (*Raipur*); Chuni Lal (Cong.), (*Raisinghnagar*); Raghubir Singh (R.E.P.), (*Rajgarh*); Hari Kishan (ST), (Cong.), (*Rajgarh* (R)); Seth Mahendra Singh (P.P.D.), (*Rajkshera*); Niranjan Nath Acharya (Cong.), (*Rajsamand*); Smt. Ganga Devi Datta (Cong.), (*Ramgarh*); Mangal Singh (R.E.P.),

(*Raniwara*); Kishana Ram (P.P.D.), (*Ratanagar*); Bhockabhai (ST), (Cong.), (*Sagwara* (R)); Phoolu Bhai (ST), (Cong.), (*Salumber* (R)); Mohanlal Bhatnagar (Cong.), (*Salumber*); Lakshmi Chand (R.E.P.), (*Sanchole*); Devilal (Cong.), (*Sarada*); Chandan Mal Bald (Cong.), (*Sardar-Shahar*); Abid Ali (Cong.), (*Sawai Madhopur*); Mangi Lal (SC), (Cong.), (*Sawai Madhopur* (R)); Kana Begar (SC), (Cong.), (*Shahpura* (R)); Ram Prasad Ladha (Cong.), (*Shahpura*); Jagdish Prasad Mathur (J.S.), (*Sikar*); Ramdeo Singh (Cong.), (*Singrawar*); Mohabbatsingh (Cong.), (*Sirohi*); Veerka Ram (SC), (R.E.P.), (*Sirohi* (R)); Teja Ram Gahlot (Cong.), (*Sojat*); Bhairon Singh (J.S.), (*Sri Madhopur*); Kumari Shanno Devi Sharma (P.P.D.), (*Sujangarh*); Bajaram (Cong.), (*Suratgarh*); Ghasi Ram Yadav (Cong.), (*Tijara*); Sampat Ram (SC), (Cong.), (*Tijara* (R)); Narain Singh (Cong.), (*Tonk*); Laloo Ram (SC), (Cong.), (*Tonk* (R)); Mohanlal Sukhadia (Cong.), (*Udaipur*); Sardar Singh (R.E.P.), (*Umiera*); Gulabsingh (Cong.), (*Vallabhagar*); Hari Prasad Yadav (SC), (Cong.), (*Vallabhagar* (R)); Tej Pal (SC), (Cong.), (*Weir* (R)); Raja Mansingh (P.P.D.), (*Weir*).

TRIPURA TERRITORIAL COUNCIL

Constituencies : 30 ; Seats : 32.

Chairman, Sachindra Lal Singh.

Vice-Chairman, Tarit Mohan Das Gupta.

An estimate of party position is as follows : Congress 15 ; Communist party of India 15 ; Nominees 2.

Sachindra Lal Singh (*Agartala Sadar I*); Sonathan Sarkar (*Agartala Sadar II*); Sudan Chandra Deb Barma (*Agartala Sadar III*); Krishnadas Bhattacharjee (*Agartala Town I*); Tarit Mohan Das Gupta (*Agartala Town II*);

Upendra Kumar Roy (*Belonia*); Mahendra Deb Barma (*Birganj*); Sirajul Haque Choudhury (*Bishalgarh*); Aghore Deb Barma (*Cherilam Constituency*); Karunamoy Nath Choudhury (*Dharmanagar North*); Ganga Prasad Tribedi (*Dharmanagar South*); Padma Kumar Rangkhal (*Dumbarnagar*); Gokul Chuan Minha (*Fatikroy*); Manindra Lal Bhowmik (*Kailashahar*); Rabindra Chandra Deb Barma (*Kalyanpur*); Sunil Chandra Dutta (*Kamalgur*); Rai Prasad Choudhury (*Kanchanpur*); Nripendra Kumar Chakraborty (*Khowai*); Dharma Roy Deb

Barma (*Kulathour*); Mohammed Abdul Wasid (*Kurti*); Promode Ranjan Das Gupta (*Mohanpur*); Hura Aung Mag (*Mahuripur*); Hemanta Deb (*Old Agartala*); Kumud Bandhu Bhattacharyya (*Radhakishorepur*); Kalipada Banerjee (*Sabroom*); Ershad Ali Choudhury (*Saigari*); Atikul Islam (*Sonamura North*); Monohor Ali (*Sonamura South*); Bir Chandra Deb Barma (*Takrajala*); Ram Charan Deb Barma (*Tetamura*).

Smt. Basana Chakraborty (*Nominated*); Ghanashyam Dewan (*Nominated*).

UTTAR PRADESH LEGISLATIVE COUNCIL

Strength : 108.

Chairman, R. V. Dhulekar.

Dy. Chairman : Nizamuddin.

Secretary : P. S. Pachawri.

An estimate of party position is as follows :— Congress 78 ; P.S.P. 7 ; S.P.D. 9 ; Soc. 2 ; Ind. 7 ; Jan Sangh 3 ; Communist 1 ; Vacant 1.

Elected by Legislative Assembly

Bedri Prasad Kacker; Balak Ram Valish; Mahfus Ahmed Kidwai; Algu Rai Shastri; Kunwar Guru Narain; Kedar Nath Khetan; Khushal Singh; Krishna Chandra Joshi; Lalita Prasad Sonakar; Kunwar Mahabir Singh; Pratap Chandra Azad, M.A.; Purnan Chand Vidyalankar; Ram Narain Pande, M.A., LL.B.; Ram Nandan Singh; Uma Shanker Singh; Ishaq Sambhali; Ajay Kumar Basu; Smt. Shanti Devi Agarwal; Smt. Shanti Devi; Nizamuddin; Prithvi Nath; Smt. Savitri Shyam; Naurang Singh; Mohammad Sahid Fakhril; Abbas Salam Shah; Dr. A. J. Faridi; Maharaj Singh; Jagdish Prasad Dwivedi; Deep Narain Verma; Shankar Rao; Raja Ram Shastri; Ram Kumar Shastri; Ram Dhari Pandey; Smt. Vidya Vati Rathor; Smt. Shakuntala Srivastava; Shafiq Ahmad Khan; Shiva Narain; Smt. Shivarajwati Nehru; Har Govind Singh.

Graduates (West)

Dr. Ishwari Prasad, M.A., D. Litt.; Virendra Swarup; Joti Prasad Upadhyay; Chaudhri Shiva Nath Singh; Devendra Swarup.

Graduates (East)

Shiva Prasad Sinha; Pushkar Nath Bhatt; Nirmal Chandra Chaturvedi; Kripa Shankar Hajela.

Teachers (West)

Dr. Piere Lal Srivastava; Kanhaiya Lal Gupta; Laxmi Narayan Dixit; Madan Mohan.

Teachers (East)

Shiva Kumar Lal Srivastava; Hridaya Narayan Singh; Shyam Behari Viragi; Rameshwar Singh; Harikrishna Awasthi.

Meerut Local Authorities

Shugan Chand; Saktu Mal; Pitamber Das; Telu Ram; Madan Mohan Lal; Mahmood Aslam Khan.

Rohilkhand Local Authorities

Abdur Rauf; Onkar Singh; Keshav Datt; Pyare Lal; Indra Singh Nayal; Ram Ghulam; Babu Abdul Majid; Ram Lakhan.

Agra Local Authorities

Nawab Singh; Prm Chandra Sharma; (Hakim) Brij Lal Verma; Abdul Shakoor Najmi; Jagdish Chandra Verma.

Lucknow Local Authorities

Smt. Kudsia Begam; Kunwar Rananjaya Singh; Tej Narain Trivedi; Ram Nath; Jamilur Rahman Kidwai, B.Sc., LL.B.; Lal Suresh Singh; Ram Kishore Rastogi; Banahi Dhar Shukla.

Allahabad Local Authorities

Shiv Nath Katju; Raghnath Vinayak Dhulokar; Nawal Kishore; Chiranjil Lal Pallwal; Banwari Lal; Laloo Ram Dwivedi.

Varanasi Local Authorities

Jagranath Acharya; Girdhari Lal; Vacant; Jai Bahdur Singh; Ram Surat Singh; Madho Prasad Tripathi.

Nominated

Smt. Mahadevi Verma; Dr. B. B. Bhatia; Rai Uma Nath Bati; Jagdish Chandra Dikshit; Smt. Tara Agarwal; Syed Mohammad Naseer; Krishna Deva Prasad Gaur; Maharaj Kumar Dr. Vijay of Vistnagram, LL.D.; Hayatullah Ansari; Sardar Balwant Singh; M. J. Mukherjee, M.Sc., T. Dip. (Lond.); C. M. Sukhla.

UTTAR PRADESH LEGISLATIVE ASSEMBLY

Constituencies: 341 (S.M. 252; D.M. 89); Seats: 431 (inclusive of one nominated); (S.O. 89); Electorate: 3,47,66,866.

Speaker, A. G. Kher; Dy. Speaker, R. N. Tripathi.

An estimate of party position is given below:
Congress 287; Praja Socialist Party 45; Socialists 25; Communist Party of India 9; Bharatiya Jan Sangh 18; Independents 9; I.P.L.P. 36; Vacant 4.

Shiv Ram Singh (J.S.), (Aizalgarh); Jagbir Singh (P.S.P.), (Agola); Adi Ram Singhal (Cong.), (Agra City I); Ambresh Chhatrapati (SC) (Cong.), (Agra City II); Deokinandan Vibhav (Cong.), (Agra City II); R. N. Singh (Cong.), (Aizalgarh); Balwant Singh* (Ind.), (Akbarpur); Devi Prasad (Ind.), (Akbarpur); Smt. Ram Bati Devi (SC) (Cong.), (Akbarpur); Smt. Bhup Kishore (I.P.L.P.), (Aliganj); A. R. Verma (Cong.), (Aliganj); Kalyan Chandra Mohiley alias Chhunan Guru (P.S.P.), (Allahabad City South); Kailash Narain Gupta (Cong.), (Allahabad City North); Govind Singh (J.S.), (Almora); Rama Kant Singh (Cong.), (Amethi); R. K. V. Prabhakar (Ind.), (Amroha); Madan Gopal (Cong.), (Amin); D. D. Sharma (Cong.), (Anupahar); Dharam Singh (Cong.), (Anupahar); Nawal Kishore (Cong.), (Aonla); Smt. Amola Devi (Cong.), (Aptha); Nek Ram Sharma (Cong.), (Atrauli); Padmakar (P.S.P.), (Atrauli); Bhajan Lal (Soc.), (Auraiya); Shukh Lal (SC) (Cong.), (Auraiya); Viream Rai (P.S.P.), (Azamgarh); Ram Sanchi Bhartiya (Cong.), (Baberi); Chandrika Prasad (Cong.), (Bachhawan); Rameshwar Prasad (SC) (Cong.), (Bachhawan); G. S. Dimri (I.P.L.P.), (Badrinath); Raja Mahendra Ripudaman Singh (I.P.L.P.), (Bak); Raghubir Singh (Cong.), (Bagpat); Virendra Vikram Singh (I.P.L.P.), (Bahraich South); Zargham Halder (P.S.P.), (Bahraich North); Ram Murti (Cong.), (Baheri); Bhudi Singh (P.S.P.), (Bakoli); Gauri Shanker (P.S.P.), (Ballia); Din Dayal Karun (SC) (Cong.), (Bairampur); Daulath Prasad (SC) (J.S.), (Bairampur); Ch. Palawan Singh (Cong.), (Banda); Prabhoo Dayal (Cong.), (Banganaga West); Mohd. Sulaiman (Cong.), (Banganaga East); Obaidur Rahman (Cong.), (Bansi East); Sohan Lal Dhustiya (Cong.), (Bansi East); Ram Lakhan Misra (Cong.), (Bansi West); Ganesh Prasad (Cong.), (Banganaga); Shrimati Yashoda Devi (SC) (Cong.), (Banganaga); Sheo Mangal Singh (Cong.), (Bansidh West); Ram Lakshan (Cong.), (Bansidh East); R. G. Sharma (Cong.), (Bansidh); Mohammad Hussain (Cong.), (Bareilly Cantonment); Jagdish Narain Agarwal (Cong.), (Bareilly City); N. B. Rawat (SC) (Cong.), (Bareilly City); B. P. Verma (Soc.), (Bara Banki); Abdul Sami (Cong.), (Barasana); Depankar Acharya (I.P.L.P.), (Baraut); Udal Shankar (Cong.), (Basti); Tika Ram (Soc.), (Banda); Bhagwati Singh Visharad (P.S.P.), (Bhagwant Nagar); G. R. Jatav (SC) (Cong.), (Bharthana); Meharban Singh (Cong.), (Bharthana); B. P. Dubey (Cong.), (Bhavapur); Ghayoor Ali Khan (P.S.P.), (Bhawan); Vishal Singh (Cong.), (Bhikauli); R. N. Verma (Soc.), (Bhogtipur); G. C. Kachhi (Cong.), (Bhogaon); Awdhesh Chandra Singh (Cong.), (Bhojpur); Baboo Ram (Cong.), (Bhojpur); Gajendra Singh (P.S.P.), (Bidhuna); Smt. Chandrawati (Cong.), (Bijnor); Awadesh Pratap Singh (I.P.L.P.), (Bikapur East); Narain Das (SC) (Cong.), (Bikapur West); Brij Basi Lal (Cong.), (Bikapur West); Chandraras Misra (Cong.), (Bilgram); Abdul Rauf Lal (I.P.L.P.), (Binaikpur); Suresh Prakash Singh (Cong.), (Bikana); G. L. Ch. Vakli (SC) (Cong.), (Biswan); Jagdish Narain (Cong.), (Bilari); Mahi Lal (SC) (Cong.), (Bilari); Smt. Brij Rani Misra (Cong.), (Bilaur); M. D. Kureel (SC) (Cong.), (Bilaur); Kesho Ram (SC) (Cong.), (Bisauli); Shiv Raj S. Yadav (Cong.), (Bisauli); Behari Lal (SC) (P.S.P.), (Bisalpur); Munendra Pal Singh (P.S.P.), (Bishundhar); Ch. Raghuraj Singh (P.S.P.), (Bishundhar); Kamru (Cong.), (Budhana); Gokul Prasad (SC) (Cong.), (Chail); Syed Muzaffar Hasan (Cong.), (Chail); Kamalapati Tripathi (Cong.), (Chandauli); Ram Lakhan

(SC) (Cong.), (Chandauli); N. S. Dattayani (I.P.L.P.), (Chandauli); Hamid Ullah Khan (Cong.), (Chandauli); Ramhet Singh (Cong.), (Chhata); Kotwal Singh Bhadauriya (P.S.P.), (Chhata); Smt. Kallashwati (Cong.), (Chhata); R. K. Sharma (Cong.), (Chunar); Smt. Satyawati Devi Rawal (Cong.), (Dadri); Shiva Shankar Singh (I.P.L.P.), (Dadri); M. S. Mehta (Cong.), (Dangpur); Kr. Mahmood Ali Khan (Cong.), (Dangpur); Harish Chandra Singh (Cong.), (Dangpur); Shiva Ram (Cong.), (Dangpur); Yashpal Singh (I.P.L.P.), (Deoband); Hardev (SC) (Cong.), (Deoband); Brij Bhushan Saran (Cong.), (Dehra Dun); Smt. Vinay Laxmi Suman (Cong.), (Deoprayag); Mohammad Faruq Chisti (Cong.), (Deoria North); Deep Narain M. Tripathi (Cong.), (Deoria South); Himmat Singh (J.S.), (Deval); Khub Singh (Cong.), (Dhampur); Girdhari Lal (SC) (Cong.), (Dhampur); Jagannath Prasad (P.S.P.), (Dhampur); Balochwar Prasad Singh (I.P.L.P.), (Dumariyaganj South); Smt. Rajendra Kishori (Cong.), (Dumariyaganj North); Ram Nath Pathak (Cong.), (Dwaba); G. P. Varma (I.P.L.P.), (Etah); B. B. Sharma (J.S.), (Etawah); G. D. Jatav (SC) (Cong.), (Etawah); R. S. C. Vaidya (Soc.), (Etawah); M. Mohan (Cong.), (Faizabad); Mahadeo Prasad (Cong.), (Fakharpur); F. B. Singh (Ind.), (Fakharpur); D. P. Pandey (Cong.), (Farenda); G. R. Gupta (Cong.), (Farenda); Nathu Singh (Cong.), (Faridpur); Sunder Lal (SC) (Cong.), (Faridpur); R. K. Saraswat (Cong.), (Faridpur); Lakshmi Narain Pandey (Cong.), (Faridpur); Sheoraj Bali Singh (Cong.), (Faridpur); Smt. Sukhrani Devi (SC) (Cong.), (Faridpur); Vinodhwar Nand Swami (P.S.P.), (Faridpur); Jagannath Lahari (Ind.), (Firozabad); Jagmohan S. Negi (Cong.), (Firozabad); Shri Niwas (Cong.), (Gangotri); Lakshman Rao Kadam (Cong.), (Garolia); Nageshwar Prasad (Cong.), (Gauraha); Jwala Prasad (SC) (Cong.), (Ghatampur); Brij Behari Mehrotra (Cong.), (Ghatampur); Teja Singh (Cong.), (Ghaziabad); Pabbar Ram* (C.P.I.), (Ghaziabad); Jaldeo Singh (P.S.P.), (Ghior); Jharkhande Bai (C.P.I.), (Ghosi); Acharya J. Kishore (Cong.), (Gobardhan); Ram Abhilash (J.S.), (Gonda North); R. R. Pandey (I.P.L.P.), (Gonda South); Gangra Prasad (SC) (Cong.), (Gonda South); Rajendra Singh (J.S.), (Gondwa); M. N. Rai (Cong.), (Gopalpur); Istafa Hussain (Cong.), (Gorakhpur); Jamuna Singh (P.S.P.), (Gumaur); Bechan Ram Gupta (Cong.), (Gyanpur); Bechan Ram (SC) (Cong.), (Gyanpur); J. B. Verma (Soc.), (Haidergarh); Rajrang B. L. Rawat (SC) (Soc.), (Haidergarh); Surendra Dutt Bajpal (Cong.), (Hamirpur); Lutfi Ali Khan (Cong.), (Hapur); Veer Sen (SC) (Cong.), (Hapur); Bulak Ram (SC) (Cong.), (Hardoi); M. S. Vakli (Cong.), (Hardoi); Shanti Prapanna Sharma (Cong.), (Hardwar); Jal Gopal (Cong.), (Harora); Smt. Shikuntala Devi (SC) (Cong.), (Harora); Sita Ram Shukla (Cong.), (Harraya East); Ram Bahadur (Cong.), (Harraya West); Bhikha Lal (SC) (C.P.I.), (Hassanganj); Sajwan Lal (C.P.I.), (Hassanganj); Jagdish Prasad (Cong.), (Hassanganj); Sukkhan Lal (SC) (Cong.), (Hassanganj); S. H. Pandey (Cong.), (Hata); Nand Kumar Deo Vashista (Cong.), (Hathras); H. S. Piplal (SC) (Cong.), (Hathras); Dr. Bishamber Singh (Cong.), (Hathras); Lakhnan Singh (Ind.), (Igles); Raj Kishore (SC) (Cong.), (Ikarna); Sheo Saran Lal (Cong.), (Ikarna); Kailash Kumar Singh (Cong.), (Ikarna); Gaya Bux (J.S.), (Ikarna); Hardayal Singh (Soc.), (Jalalabad); Govind Narain Tiwari (P.S.P.), (Jalau); C. L. Jatav (SC) (Cong.), (Jalau); Raghuvir Singh (P.S.P.), (Jalau); R. N. Sharma (Cong.), (Jamaia); Dev Narain Bharti (Soc.), (Jamaia); Ahmad Baksh (Cong.), (Jamaia); Ram Das (SC) (Cong.), (Jamaia); R. S. Yadav (Cong.), (Jamaia); A. R. Yadav (Soc.), (Jamaia); Yadavendra Dutt Dube (J.S.), (Jamaia); Said Ahmad (Cong.), (Jamaia); Atma Ram Govind Kher (Cong.), (Jamaia); K. P. Pandey (Cong.), (Kadipur); Shankar Lal (SC) (Cong.),

(Kadipur); Sultan Alam Khan (Cong.), (Kadipur); Virendra Verma (Cong.), (Kadipur); H. S. Vison (Cong.), (Kadipur); Gharib Das (SC) (P.S.P.), (Kadipur); Virendra Shah (I.P.L.P.), (Kadipur); D. P. Dohre (SC) (P.S.P.), (Kadipur); H. L. Yadav (P.S.P.), (Kadipur); U. S. Shukla (Cong.), (Kadipur City I); Brahma Datt Dikshit (Cong.), (Kadipur City II); S. A. Hasan (Cong.), (Kadipur City III); S. G. Datta (Cong.), (Kadipur City IV); Dr. Jawahar Lal Rohatgi (Cong.), (Kadipur); M. L. Awasthy (Soc.), (Kadipur Rural); Jitendra Pratap Singh (Cong.), (Kadipur); Asis Inam (Cong.), (Kadipur); R. K. Jalwar (SC) (Cong.), (Kadipur); Vishva Nath Singh Gautam (Cong.), (Kadipur); Smt. Kamal Kumari Goidi (Cong.), (Kadipur); Nathu Singh (P.S.P.), (Kadipur); Ram Din (SC) (P.S.P.), (Kadipur); Jagat Singh (Cong.), (Kadipur); Smt. Sia Dulari (SC) (Cong.), (Kadipur); L. D. Bhatt (Cong.), (Kadipur); K. C. Agarwal (Cong.), (Kadipur); Raj Behari Singh (Cong.), (Kadipur); Raj Narain Singh (Soc.), (Kadipur); Lohath (Cong.), (Kadipur); Chittar Singh (Cong.), (Kadipur); N. S. Bhandari (Cong.), (Kadipur); Ram Samjhawan (SC) (Cong.), (Kadipur); Lal Bahadur Singh (Cong.), (Kadipur); Mahabir Prasad Shukla (Cong.), (Kadipur); Vasudeo Dixit (Cong.), (Kadipur); Tembreshwar Prasad Sahab (J.S.), (Kadipur); Sri Krishan Dutt Paliwal (I.P.L.P.), (Kadipur); Smt. Genda Devi (SC) (Cong.), (Kadipur); Raja Ram Sharma (Cong.), (Kadipur); Shabbir Hasan (Cong.), (Kadipur); Room Singh (Soc.), (Kadipur); Sheo Prasad Nagar (P.S.P.), (Kadipur); Gopal (SC) (Ind.), (Kadipur); Chatter Singh (SC), (Kadipur); Jagdishwar (SC) (Cong.), (Kadipur); R. S. Yadav (Cong.), (Kadipur); Hari Singh (SC) (Cong.), (Kadipur); Smt. Rharadha Devi (Cong.), (Kadipur); Ram Prasad Deshmukh (SC) (Cong.), (Kadipur); Mohan Lal Gantam (Cong.), (Kadipur); Udal (C.P.I.), (Kadipur); Rukn Uddin Khan (Cong.), (Kadipur); Mandhata (Cong.), (Kadipur); A. Latif Noman (Cong.), (Kadipur); Charan Singh (Cong.), (Kadipur); Gaya Prasad (SC) (Soc.), (Kadipur); Nand Ram (Soc.), (Kadipur); Pratap Khan Prakash Singh (I.P.L.P.), (Kadipur); Ramanath Khairi (I.P.L.P.), (Kadipur); Gajju Ram (SC) (Cong.), (Kadipur); Dhan Ram (SC) (Cong.), (Kadipur); Smt. Prabhawati Devi (Cong.), (Kadipur); R. P. Nautiyal (Cong.), (Kadipur); Basant Lal (SC) (Cong.), (Kadipur); Shyam Manohar Misra (Cong.), (Kadipur); Mahavir Prasad Srivastava (Cong.), (Kadipur); Triloki Singh (P.S.P.), (Kadipur City East); Syed Ali Zahir (Cong.), (Kadipur City West); Rauf Jafri (Cong.), (Kadipur); Keshabhai (Cong.), (Kadipur); Baldeo Singh (I.P.L.P.), (Kadipur); Kamta Prasad Vidyarthi (Cong.), (Kadipur); R. G. Saxena (Cong.), (Kadipur); Mohan Lal (SC) (Cong.), (Kadipur); A. N. Misra (I.P.L.P.), (Kadipur); Duryodhan (SC) (I.P.L.P.), (Kadipur); Murti Dhar (SC) (Cong.), (Kadipur); R. Yadav (Cong.), (Kadipur); D. D. Pandey (Cong.), (Kadipur); Malikhan Singh (J.S.), (Kadipur); Ram Pal Trivedi (Cong.), (Kadipur); Keshav Pandey (Cong.), (Kadipur); Jawahar Lal (SC) (Cong.), (Kadipur); Smt. Hemwati Nandan Bahuguna (Cong.), (Kadipur); Raghuvendra Pratap Singh (I.P.L.P.), (Kadipur); Lakshmi Raman Acharya (Cong.), (Kadipur); Shyam Lal (SC) (Cong.), (Kadipur); Sri Nath (Cong.), (Kadipur); Smt. Tara Devi (Cong.), (Kadipur); Sudama Prasad Goswami (Cong.), (Kadipur); Smt. Balmi Bai (SC) (Cong.), (Kadipur); Smt. Rajendra Kumari (P.S.P.), (Kadipur); Smt. Prakash Wati Sud (Cong.), (Kadipur); Kailash Prakash (Cong.), (Kadipur); Mangla Prasad (Cong.), (Kadipur); A. C. Pandey (Cong.), (Kadipur); Dr. Avdesh Kumar (Soc.), (Kadipur); Moolchand (SC) (Soc.), (Kadipur); Vishwa Narayan Sharma (Cong.), (Kadipur); Raghuvir Lal (Cong.), (Kadipur);

* Election void. Note: I.P.L.P.—Independent Progressive Legislature Party.

(C.P.I.), (Mohammadabad (R)); V. Shankar Singh (Cong.), (Mohammadabad); O. Yadav (C.P.I.), (Mohammadabad) (Gohna); Nath Ji (C.P.I.), (Mohammadabad) (Gohna (R)); Jagdish Narain Datta Singh (J.S.), (Mohammadabad); Manna Lal (S.C.), (Mohammadabad (R)); Khayali Ram (S.C.) (P.S.P.), (Mohammadabad (R)); Ram Saran Yadav (P.S.P.), (Mohammadabad); Hallmuddin (I.P.L.P.), (Mohammadabad Rural); Gulab Singh (I.P.L.P.), (Mussorie); Mahmud Ali Khan (Cong.), (Musaffarabad); Dwarka Prasad (Cong.), (Musaffarnagar); Gur Prasad Singh (Cong.), (Musaffarkhanna); Ram Bali (S.C.) (P.S.P.), (Musaffarkhanna (R)); Kripa Shankar (Cong.), (Nagar); Ram Lal (S.C.) (Cong.), (Nagar (R)); Govind Sahai (Cong.), (Nagtas); Narayan Datt Tewari (P.S.P.), (Nainital); Atiq-ur-Rahman (Cong.), (Najibabad); Ch. Datta Ram (Cong.), (Nakur); Budhi Lal (Cong.), (Nasipore); M. P. Pandey (Cong.), (Nasurgur); Gopi Krishna Asad (Cong.), (Narsain); B. S. Pandey (P.S.P.), (Nathpur); Sheora Bahadur (P.S.P.), (Navabganj); Vacant (Naribabad); Shamshul Islam (Cong.), (Nidhpur); Surath Bahadur Shah (P.S.P.), (Nighasan); Chandra Ball Brahmanchari (Cong.), (Nisarnabad); Chandradeo (Cong.), (Padrauna North); Genda Singh (P.S.P.) (Padrauna East); Ramayan Rai (P.S.P.), (Padrauna South); Brijnarain (P.S.P.), (Padrauna West); Laxmi Narain (I.P.L.P.), (Paharpur); Hari Har Bux Singh (Cong.), (Pati); Babu Lal Khashmeh (S.C.) (Cong.), (Paritaganj (R)); Smt. Vindumati Das (Cong.), (Paritaganj); Ram Kinkar (S.C.) (Cong.), (Pati (R)); Harkesh Bahadur (Cong.), (Patti); C. S. Rawat (Cong.), (Pauri); Gauri Ram (Cong.), (Pharenda West); Dwarka Prasad (Cong.), (Pharenda East); Sukhi Ram Bhartiya (S.C.) (Cong.), (Phulpur (R)); Shiv Murti (Cong.), (Phulpur); Kamlesh Chandra alias Kamaley (S.C.) (I.P.L.P.), (Pouyan (R)); Raj Kumar Surendra Singh (I.P.L.P.), (Pouyan); Niranjan Singh (Cong.), (Pitbit);

Achhaibai Singh (Cong.), (Piprick); B. S. Prasad (S.C.) (Cong.), (Piprick (R)); Khushi Ram (S.C.) (Cong.), (Pitobargh (R)); Narendra Singh (Cong.), (Pitobargh); Ram Adhar Tewari (Cong.), (Pratapgarh North); B. P. Shukla (Cong.), (Pratapgarh South); Parmeshwardin Verma (I.P.L.P.), (Purva); Yamuna Prasad Shukla (J.S.), (Rai Bareilly North); Aalam Khan (I.P.L.P.), (Rampur); Laxman Singh (Cong.), (Ranikhet South); H. Kandpal (Cong.), (Ranikhet North); Doogar Singh (Cong.), (Rath); Ram Lakhan (Cong.), (Rari); Ganga Prasad Singh (Cong.), (Raura); Ram Katan (S.C.) (Cong.), (Raura (R)); Vacant (Raura); Anand Brahma Shah (I.P.L.P.), (Robertganj); Shobh Nath (S.C.) (J.S.), (Robertganj (R)); Wasil Naqvi (Cong.), (Rokha); Din Dayal Shastri (Cong.), (Roorkhee); Mukut B. L. Agarwal (J.S.), (Rudauli); Tilka Ram (Soc.), (Sadabad); Raghuran Tej Bahadur Singh, alias Lal Sahab (I.P.L.P.), (Sadullahnagar); Mulla Prasad (S.C.) (C.P.I.), (Safipur (R)); R. G. Tiwari (I.P.L.P.), (Safipur); Indu Bhushan Gupta (I.P.L.P.), (Sagri); Mansurul Nabi (Cong.), (Saharsanpur); Ulfat Singh (Ind.), (Sahaswan); Tirmal Singh (Cong.), (Sahaswan); A. R. Pandey (Cong.), (Saidpur); Ugrasen (Ind.), (Salemur West); Sheo Bachan (Cong.), (Salemur South); Ayodhya Prasad Arya (Cong.), (Salemur East); Smt. Sunita Chauhan (Cong.), (Salon); Ram Prasad (S.C.) (Cong.), (Salon (R)); Mahmood Husein Khan (I.P.L.P.), (Sambhal); Mohan Lal Verma (P.S.P.), (Saudila); Shambhoo Dayal (S.C.) (P.S.P.), (Saudila (R)); Rana Fateh Singh (Cong.), (Saradhana); Kamli Lal Sahayak (S.C.) (Cong.), (Saradhana (R)); Gupta Singh (Cong.), (Sarni); Smt. Sarawati Devi Shukla (Cong.), (Sarni); Jamuna Singh (P.S.P.), (Shadiabad); Dev Ram (S.C.) (Cong.), (Shadiabad (R)); Kanhaiya Lal Balmiki (S.C.) (Cong.), (Shahabad (R)); Smt. Vidya Vati Bajpai (Cong.), (Shahabad); Baldeo Singh Arya (S.C.) (Cong.), (Shahabad (R)); Kalyan Rai (Cong.), (Shahabad); Kunwar Shripal (I.P.L.P.), (Shahganj); Mata

Prasad (S.C.) (Cong.), (Shahganj (R)); Darshan Singh (Ind.), (Shahjahanpur); Rajendra Singh Yadav (P.S.P.), (Shamsabad); Smt. Sajjan Devi Mahnot (Cong.), (Sheopur); Badam Singh (S.C.) (Cong.), (Shikarpur (R)); Rajendra Datta (Cong.), (Shikarpur); Ch. Layaq Singh (I.P.L.P.), (Shikohabad); Irtaza Hussain (Cong.), (Siana); Tarachand Maheshwari (Cong.), (Siddauli); Baiju Ram (S.C.) (Cong.), (Siddauli (R)); Raj Deo (Cong.), (Siddhwa Jona); Sheo Prasad (S.C.) (Cong.), (Siddhwa Jona (R)); Malkhan Singh (Cong.), (Sikandra Rao); Ram Chandra Vikal (Cong.), (Sikandra); Jagannath Chaoudhary (Cong.), (Sikandarpur); Ramji Sahai (Cong.), (Silhat); Dr. Sita Ram (S.C.) (Cong.), (Silhat (R)); Dharam Datt Vaidya (Cong.), (Sirauli); Chhotey Lal Paliwal (Cong.), (Sirhpura); H. O. Asthana (Cong.), (Sitapur); Chhedi Lal (S.C.) (P.S.P.), (Srinagar (R)); Banahi Dhar (P.S.P.), (Srinagar); Parmanand Sinha (Cong.), (Soron West); Rangram Singh (Cong.), (Soron East); Mahmood Ali Khan (Cong.), (Suar Tanda); K. K. Verma (Cong.), (Sultanpur); Ram Narain Tripathi (Soc.), (Surharpur); Deo Datt Singh (Cong.), (Tappal); Pratap Singh (P.S.P.), (Tanakpur); Jai Ram Varma (Cong.), (Tanda); Sukhram Das (S.C.) (Cong.), (Tanda (R)); Sita Prasad (Cong.), (Taraganj); R. C. Ramola (Cong.), (Tehri); Kishan Singh (Cong.), (Taharwar); Balak Ram (Soc.), (Tilhar); Madan Pandey (I.P.L.P.), (Tilpur); Dharampal Singh (J.S.), (Tulshipur); Sri Krishna Goei (Cong.), (Ujhari); Ch. Khazan Singh (P.S.P.), (Uman); Moharaj Ali Khan (Ind.), (Ushah); Ali Jarrar Jaffry (Cong.), (Utravali); P. L. Srivastava (P.S.P.), (Utravali); N. R. Sharma (Cong.), (Utravali); Dr. Sampurnanand (Cong.), (Varanasi City South); Mohammad Abdussamad (Cong.), (Varanasi City North); Basht Narain Sharma (P.S.P.), (Zamania).

Nominated (Anglo-Indian): A. C. Grice.

WEST BENGAL LEGISLATIVE COUNCIL

Strength : 75.

Chairman : Dr. Suniti Kumar Chatterji.

Dy. Chairman : Dr. Pratap Chandra Guha Ray.

Local Authorities' Constituencies (27)

B. S. Prasad (W. Bengal North); Sachindra Nath Misra (West Bengal North); Dharendra Nath Mitra (W. Bengal North); Nrisingha Prasad Sarkar (W. Bengal East); Nagendra Kumar Bhattacharyya (W. Bengal East); Sasanka Sekhar Sanyal (W. Bengal East); Satyendra Chandra Ghosh Moulik (W. Bengal East); Pashu Pati Jha (W. Bengal East); Kali Pada Mookerjee (W. Bengal South); Sarat Chandra Sawoo (West Bengal South); Janaki Vallabha Bhattacharyya (W. Bengal South); Harendra Nath Mazumdar (W. Bengal South); Devaprasad Chatterjee (W. Bengal South); Jogindralal Saha (W. Bengal South); Upendra Bandopadhyaya (W. Bengal South); Sudhindra Nath Mukherjee (W. Bengal Central); Rabindralal Sinha (W. Bengal Central); Kanailal Goswami (W. Bengal Central); Birendra Nath Choudhury (W. Bengal Central); Vall Charan Ghose (W. Bengal Central); Pashupati Nath Mallah (W. Bengal West); Pranabeswar Sarkar (W. Bengal

West); Biman Behari Lal Sinha (W. Bengal West); Gajendra Nath Hazra (W. Bengal West); Surendra Kumar Roy (W. Bengal West); Janab Md. Shahedullah (W. Bengal West); Basanta Kumar Das (W. Bengal West).

Graduates' Constituencies (6)

Nirmal Chandra Bhattacharyya (Calcutta); Gopal Chandra Halder (Calcutta); Tripurari Chakravarti (Calcutta); Dr. Suniti Kumar Chatterji (West Bengal); Dr. Charu Chandra Sanyal (West Bengal); Chittaranjan Roy (West Bengal).

Teachers' Constituencies (6)

Santosh Kumar Bhattacharyya (Calcutta); Sachindra Nath Banerjee (Calcutta); Bijay Bihari Basu (Calcutta); Monoranjan Sen Gupta (W. Bengal); Satya Priya Roy (W. Bengal); Anila Debi (W. Bengal).

Bengal Legislative Assembly (27)

Janab Abdul Halim; Ananda Prasad Choudhuri; Monoranjan Gupta; Krishna Kumar

Chatterjee; Dr. Monindra Mohan Chakrabarty; K. P. Chattopadhyay; Janab Mohammad Sayeed Mia; Dr. Pratap Chandra Guha Ray; Mohitosh Rai Choudhuri; Janab Mirza Abdur Rashid; Kamala Charan Mookerjee; Ram Kumar Bhattacharya; Kamada Kinkar Mukherjee; Rajendranath Choudhuri; Lakshman Pradhan; Hari Kumar Chakravarty; Asutosh Ghosh; Satish Chandra Pakrashi; Naren Das; Arobindo Bose; Smt. Abha Chatterjee; Biswanath Mukherjee; Ram Lagan Singh; Jimut Bahan Sen; Dr. Raghunandan Biswas; Syed Nausher Ali; Snehangshu Kanto Acharya.

Nominated by Governor (6)

Sambhu Nath Banerjee; Tara Sankar Banerjee; Gurugobinda Basu; Santi Das; Badri Prasad Poddar; Labanyapra Dutt; Janab Musharruf Hossain; Janab Shaikh Mohammad Jan; Pannalal Sarangi.

WEST BENGAL LEGISLATIVE ASSEMBLY

Constituencies: 195 (S.M. 138; D.M. 57); Seats: 252 (S.C. 45; S.T. 15). Electorate: 1,52,16,532.

Speaker, Vacant; Dy. Speaker, Asutosh Mukherjee.

An estimate of party position is given below:—

Congress 102; Praja Socialist Party 21; Communist Party of India 49; Forward Bloc (Marxist) 8; Independents 15.

Som Nath Lahiri (C.P.I.), (Alipore); Pijush Kanti Mukherjee (Cong.), (Akpur Duara); Gubinda Charan Maji (P.S.P.), (Ama East); Arabinda Roy (Cong.), (Ama West); Radhakrishna Pal (Cong.), (Arumbhat); Sagar Chandra Mahato (Ind.), (Araha); Shub Das Ghatak (Cong.), (Asansol); Kanailal Das (Cong.),

(Asagram); Md. Zia Ul-Huque (Cong.), (Baduria); Dr. R. G. Chowdhuri (Cong.), (Bagan); B. C. Mahato (Cong.), (Bakarsampur); Jnanendra Masumdar (C.P.I.), (Ballygunge); Dharendra Nath Banerjee (Ind.), (Ballygunge); Hakai Mard (S.T.) (Cong.), (Bakurhat (R)); Monilal Basu (Cong.), (Bally); Bijoy Krishna Modak (C.P.I.), (Bakarganj); Dr. Anath Bandhu Ray (Cong.), (Bansura); Shishuram Mondal (S.C.) (Cong.), (Bansura (R)); Iswar Das Jalan (Cong.), (Bora Bazar); Khagendra Kumar Roy Choudhuri (C.P.I.), (Baruipur); Gangadhar Maska:

(S.C.) (C.P.I.), (Baruipur (R)); Jyoti Bose (C.P.I.), (Baranagar); Chitto Basu (F.B.M.), (Baranagar); Profulla Nath Banerjee (Cong.), (Barishat); Rabindra Nath Mukhopadhyaya (C.P.I.), (Babala); Ramesh Shankar Prasad (S.C.) (C.P.I.), (Baliaghat (R)); Jagat Bose (C.P.I.), (Baliaghat); Ganesh Ghosh (C.P.I.), (Balgachia); Farman Ghosh (Cong.), (Baidanga); Bayaj Kumar Ghosh (Cong.), (Berhampore); Gopalband Trivedi (Cong.), (Bharatpur); Hafizur Rahaman Kazi (Cong.), (Bhagabanga); Bomkes Majumdar (Cong.), (Bhadraswar); Basanta Kumar Panda

- (P.S.F.), (*Bhagabangpur*); Bhikhari Mandal (SC) (Cong.), (*Bhagabangpur* (R)); Smt. Abhalata Kundu (Cong.), (*Bhatar*); Hem Chandra Naskar (Cong.), (*Bhangar*); Sitaram Gupta (C.P.I.), (*Bhatpara*); Siddarta Sankar Ray (Ind.), (*Bhowanipur*); Niranjan Sen Gupta (C.P.I.), (*Bijpur*); Sudhir Kumar Pandey (C.P.I.), (*Bisipur*); Jamadar Hasda (ST) (Cong.), (*Bisipur* (R)); Provasa Chandra Roy (C.P.I.), (*Bisnupur* (R)); Rabintra Nath Roy (SC) (C.P.I.), (*Bisnupur* (R)); Amarendra Nath Sarkar (Cong.), (*Bolpur*); Ajit Kumar Ganguli (C.P.I.), (*Bongson*); Manindra Bhushan Bhowas (SC) (Cong.), (*Bongson* (R)); Bidhan Chandra Roy (Cong.), (*Bow Bazar*); Bankim Mukherjee (C.P.I.), (*Budge Budge*); Benoy Krishna Chowdhury (C.P.I.), (*Burdwan*); Sudhir Chandra Ray Choudhuri (P.S.F.), (*Burula North*); Amarendra Nath Basu (C.P.I.), (*Burula South*); Abdus Shukur (Cong.), (*Canning*); Khagendra Nath Naskar (SC) (Cong.), (*Canning* (R)); Harendra Kumar Chattopadhyay (C.P.I.), (*Chanderdurg*); Suresh Chandra Banerjee (P.S.F.), (*Chakdih*); S. Ram Lochan Mukherjee (Cong.), (*Chhatna*); Kamalakanta Hemram (ST) (Cong.), (*Chhatna* (R)); Bhupati Majumdar (Cong.), (*Chinsurah*); Mohammad Afaque Chowdhury (Cong.), (*Chopra*); Bijoy Singh Nahar (Cong.), (*Chowringhee*); Natendra Nath Das (P.S.F.), (*Contai North*); Ras Behari Pal (Cong.), (*Contai South*); Masiruddin Ahmed (Cong.), (*Cooch Behar*); Satish Chandra Roy Singha (SC) (Cong.), (*Cooch Behar* (R)); Deben Sen (P.S.F.), (*Coost-pore*); Charu Chandra Mahanty (Cong.), (*Dantan*); Prakash Rau Deo (Ind.), (*Darjeeling*); Bhabanranjan Panja (Cong.), (*Daspur*); Mohini Mohan Pati (Cong.), (*Debra*); Dr. Basuddha Ahmed (Cong.), (*Degana*); Atul Krishna Roy (SC) (Cong.), (*Degana* (R)); Badha Nath Das (SC) (Cong.), (*Dhaniakhali* (R)); D. N. Mukherjee (Cong.), (*Dhaniakhali*); Bhawan Prasaanna Talukdar (Cong.), (*Dinkata*); Umesh Chandra Mandal (SC) (Cong.), (*Dinkata* (R)); Ramanuj Halder (P.S.F.), (*Diamond Harbour*); Tarapada De (C.P.I.), (*Domjur*); Pabitra Mohan Roy (P.S.F.), (*Dum Dum*); Bhuban Chandra Kar Mahapatra (P.S.F.), (*Dyga*); Narendra Nath Sen (Cong.), (*Ebbulpur*); Smt. Gopal Sen (Cong.), (*Englishbazar*); Abu Asad Md. Obaidul Ghani (C.P.I.), (*Entally*); Jagadananda Ray (P.S.F.), (*Falakata*); Khagendra Nath Das (Cong.), (*Falta*); Mohammad Glasuddin (Cong.), (*Farakka*); Smt. Matreyee Bose (Cong.), (*Fort*); Pramatha Nath Dhibar (SC) (F.B.M.), (*Galsi* (R)); Phakir Chandra Roy (Ind.), (*Galsi*); Satindra Nath Basu (Cong.), (*Gangarampur*); Lakshman Chandra Hasda (ST) (Cong.), (*Gangarampur* (R)); Shaikh Abdulla Farooque (C.P.I.), (*Garden Reach*); Saroj Roy (C.P.I.), (*Gabata*); Kumari Tusar Tudu (ST) (Cong.), (*Garhata* (R)); Harendra Nath Dolui (SC) (Cong.), (*Ghatat* (R)); Lakshman Chandra Sarkar (Cong.), (*Ghatat*); Musaffar Hussain (Cong.), (*Goalpokher*); Surendra Nath Mahata (Cong.), (*Gopiballavpore*); Jagatpati Hasda (ST) (Cong.), (*Gopiballavpore* (R)); Tarun Kanti Ghosh (Cong.), (*Hebra*); Elias Bazi (Ind.), (*Hariachandrapur*); Hazi A. Hameed (Cong.), (*Hariharpara*); Pramatha Ranjan Thakur (SC) (Cong.), (*Haringhata* (R)); Smarajit Bandyopadhyay (Cong.), (*Haringhata*); Jahangir Kabir (Cong.), (*Haros*); Hemanta Kumar Ghosal (C.P.I.), (*Harnabad*); Rajkrishna Mondal (SC) (Cong.), (*Harnabad* (R)); Taher Hossain (C.P.I.), (*Hirapur*); Samar Mukhopadhyay (C.P.I.), (*Howrah North*); Bankim Chandra Kar (Cong.), (*Howrah West*); Beni Chandra Dutta (Cong.), (*Howrah East*); Kanailal Bhattacharjee (F.B.M.), (*Howrah South*); Basanta Lal Chatterjee (C.P.I.), (*Itahar*); Bindabon Behari Basu (F.B.M.), (*Jagatballepur*); Golam Soleman (Cong.), (*Jalangi*); Khagendra Nath Das Gupta (Cong.), (*Jalpaiguri*); Barojendra Deb Baikus (SC) (Cong.), (*Jalpaiguri* (R)); Amarendra Mondal (SC) (P.S.F.), (*Jamuria*); Baidyanath Mondal (SC) (Cong.), (*Jamuria* (R)); Shyamapada Bhattacharjee (Cong.), (*Jangipur*); Kuber Chand Haldar (SC) (Cong.), (*Jangipur* (R)); Kanai Dey (Cong.), (*Jangipura*); Biswanath Saha (SC) (Cong.), (*Jangipura* (R)); Noyal Ray (Cong.), (*Jorabagan*); Debendra Nath Mahato (Cong.), (*Jhaldia*); Mahendra Mahata (Cong.), (*Jhargram*); Bhadra Bahadur Hamal (C.P.I.), (*Jorebunglow*); Anandilal Poddar (Cong.), (*Jorasanar*); Subodh Banerjee (Ind.), (*Joydagar*); Renupada Halder (SC) (Ind.), (*Joydagar* (R)); Smt. Maya Banerjee (Cong.), (*Kakdip*); Smt. Manikuntala Sen (C.P.I.), (*Kalighat*); Hare Krishna Konar (C.P.I.), (*Kalna*); Jamadar Majhi (ST) (C.P.I.), (*Kalna* (R)); Narbahadur Gurung (Cong.), (*Kalimpang*); Debendra Nath Brahmamanodai (ST) (Cong.), (*Kalekhet* (R)); Smt. Anima Hoare (Cong.), (*Kalkini*); Mahibur Rahaman Choudhury (Cong.), (*Kakichak*); Sudhir Mandal (SC) (Cong.), (*Kandi* (R)); Bimal Ch. Sinha (Cong.), (*Kandi*); Bijoylal Chattopadhyaya (Cong.), (*Karimpur*); Phanis Chandra Sinha (Cong.), (*Karundighi*); Lodu Majhi (ST) (Ind.), (*Kashipur*); Budhan Majhi (ST) (Cong.), (*Kashipur* (R)); Tarapada Choudhuri (Cong.), (*Katua*); Golam Yasdan (C.P.I.), (*Kharba*); Panchanan Dignat (SC) (Cong.), (*Khanakul* (R)); Prafulla Chandra Sen (Cong.), (*Khanakul*); Narayan Chobey (C.P.I.), (*Kharagpur*); Mrityunjay Jana (Cong.), (*Kharagpur Local*); Krishna Prasad Mandal (SC) (Cong.), (*Kharagpur Local* (R)); Saktari Mitra (P.S.F.), (*Kharda*); Abdus Sattar (Cong.), (*Katugram*); Sankar Das (SC) (Cong.), (*Katugram* (R)); Jagannath Koley (Cong.), (*Kotulpur*); Jagannath Majumder (Cong.), (*Krishnagar*); Benarashil Prosad Jha (P.S.F.), (*Kulsi*); Hansadhwaj Dhara (Cong.), (*Kulsi*); Radhanath Chatteraj (C.P.I.), (*Lalpur*); Byed Kasam Ali Meera (Cong.), (*Lalgola*); Ardendu Shekhar Naskar (SC) (Cong.), (*Magrahat* (R)); Abul Hashem (Cong.), (*Magrahat*); Sudhir Chandra Bhandari (C.P.I.), (*Maheshkole*); Prafulla Chandra Ghose (P.S.F.), (*Mahishadal*); Mahatab Chand Das (SC) (Cong.), (*Mahishadal* (R)); Jaineswar Ray (SC) (Cong.), (*Maimaguri* (R)); Nikunja Behari Gupta (Cong.), (*Maida*); Matia Murmu (ST) (Cong.), (*Maida* (R)); Budhu Bhagat (ST) (Cong.), (*Mai* (R)); Mangru Bhagat (ST) (C.P.I.), (*Mai*); Bhakta Chandra Roy (Ind.), (*Manikganj*); Ranendra Nath Sen (C.P.I.), (*Manicktola*); Chaitan Majhi (ST) (Ind.), (*Manbazar* (R)); Satya Kinkar Mahato (Cong.), (*Manbazar*); Brindaban Gayan (SC) (Cong.), (*Mathurapur* (R)); Bhushan Chandra Das (Cong.), (*Mathurapur*); Sarada Prasad Pramanik (SC) (Cong.), (*Mathabanga* (R)); Ananga Mohan Das (Cong.), (*Mayna*); Satyendra Prasanna Chattopadhyaya (Cong.), (*Mekliganj*); Smt. Anjali Khan (Cong.), (*Midnapur*); Jatindra Chandra Chakravorty (Ind.), (*Muchipara*); Durgapada Sinha (Cong.), (*Murshidabad*); Niranjan Modak (Cong.), (*Nabadwip*); Gopal Basu (C.P.I.), (*Naihati*); S. M. Faslur Rahman (Cong.), (*Nabakipara*); Mahananda Haidar (SC) (Cong.), (*Nabakipara* (R)); Mohammad Yeakub Hossain (Cong.), (*Nalhati*); Sisir Kumar Saha (SC) (Cong.), (*Nalhati* (R)); Bhupal Chandra Panda (C.P.I.), (*Nandigram South*); Subodh Chandra Maki (Cong.), (*Nandigram North*); Mohammad Israil (Cong.), (*Nanda*); Panchanan Bhattacharjee (P.S.F.), (*Nasipara*); Dhawajadhar Mondal (SC) (Cong.), (*Nandail*); Ananda Gopal Mukhopadhyaya (Cong.), (*Nandail*); Gokul Behari Das (Cong.), (*Nanda*); Ashutosh Mallick (SC) (Cong.), (*Nanda* (R)); Rajani Kanta Pramanik (Cong.), (*Panskura East*); Syamadas Bhattacharyya (Cong.), (*Panskura West*); Gurupada Khan (SC) (Cong.), (*Patrasayer* (R)); Bhattacharan Chakravarty (Cong.), (*Patrasayer*); Sisir Kumar Das (P.S.F.), (*Patashpore*); Bimalnanda Tarkatirtha (Cong.), (*Purbasthali*); Smt. Labanya Prava Ghosh (Ind.), (*Purulia*); Nakul Chandra Saha (SC) (Cong.), (*Purulia* (R)); Nepal Souri (SC) (Cong.), (*Raghunathpur* (R)); Shankar Narayan Singha Deo (Cong.), (*Raghunathpur*); Khagendra Nath Bandyopadhyay (Cong.), (*Rajnagar*); Nishapati Majhi (SC) (Cong.), (*Rajnagar* (R)); Hazi Badiruddin Ahmed (Cong.), (*Raiganj*); Syama Prasad Barman (SC) (Cong.), (*Raiganj* (R)); Smt. Sudharani Dutta (Cong.), (*Raipur*); Jadu Nath Murmu (ST) (Cong.), (*Raipur* (R)); Dasarathi Tah (P.S.F.), (*Raina*); Gobardhan Pakray (SC) (P.S.F.), (*Raina* (R)); Gobardhan Das (SC) (C.P.I.), (*Rampurhat* (R)); Durgapada Das (Ind.), (*Rampurhat*); Trailokyanath Prodhan (Cong.), (*Ramnagar*); Badruduha Syed (Ind.), (*Raniganj*); Binoy Kumar Chatterjee (Cong.), (*Raniganj*); Sunil Das (P.S.F.), (*Rashbehari Avenue*); Sourindra Mohan Mitra (Cong.), (*Ratusa*); Dhaneswar Saha (SC) (Cong.), (*Ratusa* (R)); Gopal Chandra Das Adhikari (Cong.), (*Sabong*); Shyama Prasanna Bhattacharjee (C.P.I.), (*Sankrail*); Apurba Lal Majumdar (SC) (F.B.M.), (*Sankrail* (R)); Haridas Dey (Cong.), (*Santipur*); Haran Chandra Mondal (SC) (Ind.), (*Sandesh-Khali* (R)); Panchugopal Bhaduri (C.P.I.), (*Serampore*); T. Wangdi (ST) (Cong.), (*Siliguri* (R)); Satyendra Narayan Masumdar (C.P.I.), (*Siliguri*); Provaskar Pal (Cong.), (*Singur*); Hemanta Kumar Bose (F.B.M.), (*Shampukur*); Monoranjan Mitra (Cong.), (*Sujapur*); Suhrid Mallik Chowdhury (C.P.I.), (*Sukeas Street*); Mihirlal Chatterji (P.S.F.), (*Swri*); Turku Hasda (ST) (C.P.I.), (*Swri* (R)); Lutfal Hoque (Cong.), (*Swri*); Mohammad Ishaque (Cong.), (*Swarupnagar*); Fasalindu Bera (F.B.M.), (*Syampur*); Dharendra Nath Dhar (C.P.I.), (*Takola*); Ajoy Kumar Mukherji (Cong.), (*Tamluk*); Farbat Chander Hara (Cong.), (*Tarakeswar*); Sankaradas Bandyopadhyay (Cong.), (*Takata*); Krishna Kumar Shukla (Cong.), (*Titagarh*); Haridas Mitra (P.S.F.), (*Tollygunge*); Jatindra Nath Sinha Sarkar (Cong.), (*Twanganj*); Abani Kumar Basu (Cong.), (*Uthuberia*); Bijoy Bhushan Mandal (SC) (F.B.M.), (*Uthuberia* (R)); Monoranjan Haza (C.P.I.), (*Uttarpara*); Dr. Narayan Chandra Roy (C.P.I.), (*Vidyasagar*); Smt. Purabi Mukhopadhyay (Cong.), (*Vishnupur*); Kinn Chandra Diger (SC) (Cong.), (*Vishnupur* (R)).

Nominated (Anglo-Indian representation):
R. E. Patel, C. Noronha, C. L. Blanche, Miss O. Pemantle.

ANDHRA PRADESH LEGISLATIVE COUNCIL

Strength :—90.

An estimate of party position is as follows :—
Cong. 52, C.P.I. 11, Soc. 2 and Ind. 25.

Chairman :—Madapati Hunumantha Rao ;
Dy. Chairman :—G. Subba Raju.

Local Authorities' Constituencies (31)

Appasani Appana Dora (Circars North);
Kommuru Appadu (Circars North); Tripurana
Raghava Das (Circars North); Pentakota
Venkata Ramana (Circars North); Vundavilli
Satyanarayana Murthy (Circars Central); Thum-
malapalli Veerabhadra Rao (Circars Central);
Rudraraju Ramalingaraju (Circars Central);
Sanku Appa Rao (Circars Central); Kolla
Venkalah (Circars South); Pelleti Venkata
Krishna Reddy (Circars South); Ponnaluru
Vera Raghava Reddy (Circars South); Bojja
Audinarayana Rao (Circars South); Shrimati
Manikonda Suryavathi (Circars South); Veni-
galla Satyanarayana Rao, T. (Circars South);
Adikesavulu Naidu, K. (Rayalaseema); Dappili
Panduranga Reddy (Rayalaseema); Narayana
Reddy, D. (Rayalaseema); Yeddula Eswara
Reddy (Rayalaseema); Raju Venkata Subba
Reddy (Rayalaseema); Sherfuddin (Rayalaseema);
Erram Satyanarayana (Telangana South); A.

Gurava Reddy (Telangana South); K. Rama-
chandra Reddy (Telangana South); Venkata
Narasimha Chari (Telangana South); Seelam
Sidda Reddy (Telangana South); K. Subra-
manyam Naidu (Telangana South); Raghobham
Reddy (Telangana North); Hanmantha Reddy
(Telangana North); Elpur Laxma Reddy (Tela-
ngana North); Mohammad Arif Khan (Telangana
North); B. Gangaram (Telangana North).

Graduates' Constituencies (8)

S. B. P. B. K. Satyanarayana Rao (Circars);
Avasarala Rama Rao (Circars); Mulukutla
Venkata Sastry (Circars); Nivarthi Venkata
Subbalah (Rayalaseema); Krishna Reddy, M. V.
(Rayalaseema); Ataur Rahman (Telangana);
Anandam, M. (Telangana); Shrimati Sittha-
mahalaxmi, J. (Telangana).

Teachers' Constituencies (8)

Reerama Murty, P. (Circars); Denaraju Satya
Subrahmanyam (Circars); Vempati Purusho-
tham (Circars); Gummalla Rangarao Naidu
(Circars); Singaraju Ramakrishnaiah (Rayala-
seema); Subba Sastry, D. V. (Rayalaseema);
K. Manohar Rao (Telangana); K. Narayan Rao
(Telangana).

Elected by the Legislative Assembly (31)

Abu Yusuf; Arutla Laxmi Narasimha Reddy;
Idukalu Sadasivan; Gunturu Bapanayya; Gutta
Raja Rao; Gottipati Brahmaya; Gorrepati
Butohi Appa Rao; Shrimati Gogineti Bharathi
Devi; Chinnu Siva Reddy; Chikati Parasuram
Naidu; Jagannatham, N. V.; Damarla Rama
Kantha Rao; Shrimati Dronamraju Lakshmi-
bayamma; Nagi Reddy, J. C.; Nathaniel Milari
Williams; Pyndah Venkatanarayana; Pratapa
Reddy, K. V.; Shrimati Faizunnisa; Basima
Subba Rao; Bendi Kurmanna; Berwada Papi
Reddy; Bhoj Reddy; Manthana Venkata Surya
Subba Raju; Maqdoom Mohiuddin; Madapati
Hanumantha Rao; Rao Acharya Rao; Ranuva
Seetharamaiah; Lingayya; Subba Reddy;
Suryanarayana Rao, Y.; Shaik Galib.

Nominated by the Governor (12)

S. Govindarajulu; B. N. Reddi; Kavalamrat
Viswanatha Satyanarayana; Bikkini Venka-
taram; G. Subba Raju, M. S. (Calif), F.A.F.P.E.
(U.S.A.); S. Sambhu Prasad; Pumaraju Venkata
Rao, B.A.; Shrimati K. Ramasubbamma;
Zain Yar Jung Hahadur; Ernest Gideon, B.A.
(Hons.) (Oxon); Haroon Khan Sherwani;
Srimati Illindula Sarawathi Devi.

RAJYA SABHA

Total no. of seats : 232.

Chairman : Dr. S. Radhakrishnan.

Dy. Chairman : S. V. Krishnamoorthy Rao.

Secretary : S. N. Mukerjee.

Dy. Secretary : B. N. Banerjee.

Under-Secretaries : P. N. Krishna Mani; I. Krishna; L. M. Dutt; M. A. Amladi; S. P. Ganguly; Kewal Krishna.

An estimate of the strength of some of the parties other than the Congress in the Rajya Sabha is as follows : Bharatiya Jana Sangh 1; C.P.I. 14; Peasant and Workers Party of India 2; P. S. P. 8; Republican Party of India 1.

ANDHRA PRADESH—10

Makkineni Basavapunnalah; B. Gopala
Reddi; Dr. Raj Bahadur (Hou); Akbar Ali Khan;
Shrimati Seeta Yadhuvir; Aluri Satyanarayana
Raju; Mudumala Henry Samuel; V. C. Kesava
Rao; Veeramachineni Prasad Rao; Adduru
Balaram Reddy; S. Channa Reddy; Narotham
Reddy; Naria Venkateswara Rao; J. V. K.
Vallabharao; K. L. Narasimham; Villuri
Venkataramana; A. Chakradhar; Shrimati
Yashoda Reddy.

ASSAM—7

S. C. Deb; Shrimati Bedavati Buragohain;
Shrimati Pushpalata Das; Purna Chandra
Sharma; Maulana M. Tayyebulla; Joy Bhadra
Hajjer; Lila Dhar Barooah.

BIHAR—22

R. G. Agarwala; Kazi Ahmad Hussain;
Theodore Bodra; M. John; Kishori Ram;
Shrimati Lakshmi N. Menon; Kailash Bihari
Lall; Mahesh Saran; Syed Masbar Imam;
Dr. Purna Chandra Mitra; Devendra Prasad
Singh; Braja Kishore Prasad Sinha; Ganga
Sharan Sinha; Rajendra Pratap Sinha; Kamta
Singh; Rama Bahadur Sinha; Prof. R. D.
Sinha Dinkar; Tajamul Hussain; Shah Mohd.
Umair; Sheel Bhadra Yajee; Awadheshwar
Prasad Sinha; Shrimati Jahanara Jaipal Singh.

BOMBAY—27

Abid Ali; P. N. Rajabhoj; Dr. Waman Sheodas
Berlingay; Babubhai M. Chinali; Rajabhai
Vilhalrao Dangre; Khandubhai Desai; T. R.
Doogirikar; Narasingrao Balbhaktrao Deshmukh;
Ramrao Madhavrao Deshmukh; Venkat Krishna
Dhage; Dr. M. D. D. Gilder; Rohit
Manubhanker Dave; Bhaurao Dewaji Kho-
baragade; Dabhyabhai Vallabhbhai Patel; G. R.
Kulkarni; Lavji Lakhamshi; Premji Tho-
bhanbhai Leuva; Deokinandan Narayan; Lalji
Pendse; Dhairyaashirao Yeshwantrao Pawar;
Prof. Dr. Raghu Vira; Sonusing Dhansing
Patil; Manilal Chaturbhai Shah; Jethalal
Harikrishna Joshi; Jadavji Keshavji Modi;
M. D. Tumpallwar; Dr. D. H. Variava.

KERALA—9

Shrimati K. Bharathi; K. Madhava Menon;
Dr. P. J. Thomas; Govindan Nair; K. P.
Madhavan Nair; Perath Narayan Nair; P. A.
Solomon; N. C. Sekhar, Dr. A. Subba Rao.

MADHYA PRADESH—16

Niranjan Singh; Mohammad Ali; Banarsi
Das (Chaturvedi); Dr. R. P. Dubey; Shrimati
Krishna Kumari; Ratnala Kishorilal Malviya;
Dayaldas Kurr; Trimbak Damodar Pustake;
Dr. Raghunir Singh; Ram Bahai; Shrimati
Rukmani Bai; Vishnu Vinayak Sarwate;
Dr. Shrimati Seeta Parmanand; Captain Awa-
dhesh Pratap Singh; Thakur Bhanu Pratap
Singh; Gopi Krishna Vijalvargiya.

MADRAS—17

Shrimati Ammu Swaminadhan; T. S. Awa-
shilingam Chettiar; T. V. Kamalawamy; S.
Chattannatha Karayalar; Dr. A. Ramaswami
Mudaliar; P. S. Rajagopal Naidu; Shrimati
T. Nallamuthu Ramamurti; N. M. Lingam;
Abdul Rahim; N. Ramakrishna Iyer; G.
Rajagopalan; H. D. Rajah; T. Bhaskara Rao;
T. S. Pattabiraman; B. Parameswaran; S.
Venkataraman; Dawood Ali Mirza.

MYSORE—12

B. C. Nanjundalya; Janardhan Rao Desai;
Shrimati Annapurna Devi Thimmarreddy; Mulka
Govinda Reddy; Dr. N. S. Hardiker; Bagha-
venderarao; S. V. Krishnamoorthy Rao; M.
Govinda Reddy; B. Shiva Rao; B. P. Basappa
Shetty; Mohamed Vallulla; Shrimati Violet
Alva.

ORISSA—10

Ghasiram Sandil; Harihar Patel;
Biswanath Das; Dibakar Patnaik; Bibu-
dhendra Misra; Bhagratil Mahapatra; Mahes-
war Naik; Swapnanda Panigrahi; Abhi-
manyu Rath; Govind Chandra Misra.

PUNJAB—11

Dr. Anup Singh; Diwan Chaman Lall; Madho
Ram Sharma; Sardar Darshan Singh Pheruman;
Jagan Nath Kaulah; Jathedar Udharn Singh
Nagoke; M. H. S. Nihal Singh; Sardar Baghbir
Singh Panjhasari; Rajkumari Amrit Kaur;
Giani Zail Singh; Jugai Kishore.

RAJASTHAN—10

Maulana Abdul Shakoor; Adityendra; Swami
Keshvanand; Jai Narain Vyas; Tika Ram
Paliwal; Shrimati Sharda Bhargava; Dr. K. L.
Shrimall; Jaswant Singh; Vijay Singh; Sadiq Ali.

UTTAR PRADESH—34

Amar Nath Agrawal; Jagannath Prasad
Agrawal; Akhtar Husain; Amolakh Chand;
Jashud Singh Bhoit; Shrimati Chandravati
Lakhanapal; Jogesh Chandra Chatterji; Nawab
Singh Chauhan; A. Dharam Das; Maulana
Mohammad Faruqi; R. C. Gupta; Faridul Haq
Ansari; Jaspat Roy Kapoor; Ahmed Said Khan;
Dr. Hriday Nath Kunzru; Purushottam Das
Tandon; Shyam Dhar Misra; Raja Ajit Pratap
Singh; Tarkeshwar Pande; Govind Balbhai Pant;
Har Prasad Saksena; P. N. Sapru; Shrimati
Savitry Devi Nigam; Braj Bihari Sharma; Babu
Gopinath Singh; Ram Kripal Singh; Hira
Vallabha Tripathi; Dr. Dharam Prakash;
Pandit Sham Sunder Narain Tankha; Dr. Z. A.
Ahmad; M. P. Bhargava; Pandit Balkrishna
Sharma; Hafiz Mohammad Ibrahim.

WEST BENGAL—16

Ansaruddin Ahmad; Dr. Nihar Ranjan Ray;
C. C. Biswas; Rajpat Singh Duogor; Dr. Wali-
nakahta Dutt; Santosh Kumar Basu; Bhupesh
Gupta; P. D. Himatsingka; Prof. Humayun
Kabir; Abdur Rezaq Khan; Shrimati Maya
Devi Chetty; Dr. Atindra Nath Bose;
Satyendra Prasad Ray; Mriganka Mohan Sur;
Surendra Mohan Ghose; Mehr Chand Khanna.

JAMMU AND KASHMIR—4

Sardar Budh Singh; Trilochan Dutta; Aga
Syed Mohammad Jalali; Pir Mohammed Khan.

DELHI—3

S. K. Dey; Onkar Nath; Mirza Ahmed Ali.

HIMACHAL PRADESH—2

Anand Chand; Shrimati Lila Devi.

MANIPUR—1

Lalmayum Lalit Madhob Sharma.

TRIPURA—1

Abdul Latif.

NOMINATED BY THE PRESIDENT—12

Satyendranath Bose; Maithilisharan Gupta;
Kakasaheb Kalelkar; Dr. P. V. Kane; Prithvira
Kapoor; Naraindas Bhattannal Malkani; Dr. A. N.
Khosla; Shrimati Rukmini Devi Arundale;
M. Satyanarayana; Prof. A. R. Wadia; B. V.
(Mama) Warerkar; Dr. Tara Chand.

LOK SABHA

Constituencies: 403 (S.M. 312; D.M. 91); No. of seats reserved for S.C. 76; No. of seats reserved for S.T. 31; Total no. of members: 505.

Speaker, M. Ananthasayanam Ayyangar. Dy. Speaker, Sardar Hukum Singh. Secretary, M. N. Kaul.

An estimate of party strength is as follows: Congress 374, Praja Socialist Party 19, Communist Party of India 30, Bhartiya Jan Sangh 4, Peoples' Democratic Front (Andhra) 2, Jharkhand (Bihar) 6, Chota Nagpur Santhal Parganas Janata Party (C.N.S.J.P.) (Bihar) 3, Peasants and Workers Party 5, Hindu Mahasabha 1, Ganatantra Parishad (Orissa) 7, Forward Bloc (Marxist) (West Bengal) 2, Independents 39, Republican Party of India 9.

ANDHRA—43

K. Ashanna (Cong.), (Adilabad); Pendekanti Venkatasubbiah (Cong.), (Adoni); T. Nagi Reddy (C.P.I.), (Anantapur); M. Ananthasayanam Ayyangar (Cong.), (Chittoor); M. V. Gangadharasiva (SC) (Cong.), (Chittoor (R)); V. Hani Reddi (Cong.), (Cuddapah); Kumari Mothey Vedakumari (Cong.), (Eluru); Missula Suryanarayanamurti (Cong.), (Golugonda); Kankipati Veeranna Padalu (ST) (Cong.), (Golugonda (R)); D. Balarama Krishniah (Cong.), (Jundavada); K. Raghuramiah (Cong.), (Guntur); K. V. Ramakrishna Reddy (Cong.), (Hyderabad); Vinayak Rao K. Koratkar (Cong.), (Hyderabad); M. Thirumala Rao (Cong.), (Kakinada); B. S. Murthy (SC) (Cong.), (Kakinada (R)); S. Ranga Rao (Cong.), (Karimnagar); M. B. Krishna (SC) (Cong.), (Karimnagar (R)); T. B. Vittal Rao (P.D.F.), (Khammam); S. Osman Ali Khan (Cong.), (Kurnool); E. Madhusudan Rao (Cong.), (Mahabubabad); J. Rameshwar Rao (Cong.), (Mahabubnagar); Pulli Ramaswamy (SC) (Cong.), (Mahabubnagar (R)); Chigireddi Ball Reddy (Cong.), (Markapur); Mandali Venkata Krishna Rao (Cong.), (Masulipatnam); P. Hanumanth Rao (Cong.), (Medak); D. Venkateswar Rao (P.D.F.), (Nalgonda); Devanapalli Rajiah (SC) (Cong.), (Nalgonda (R)); Uddaraju Raman (C.P.I.), (Narsapur); H. C. Ueda (Cong.), (Nizamatbad); Rebala Lakshmi Narasa Reddi (Cong.), (Nellore); B. Anjanappa (SC) (Cong.), (Nellore (R)); R. Narappa Reddy (Cong.), (Ongole); Dippala Suridora (ST) (Ind.), (Parvathipuram); B. Satyanarayana (ST) (Cong.), (Parvathipuram (R)); T. N. Viswanatha Reddi (Cong.), (Rajampet); D. Satyanarayana Raju (Cong.), (Rajahmundry); Ahmed Mohiuddin (Cong.), (Secunderabad); B. Rajagopala Rao (Cong.), (Srikakulam); N. G. Ranga (Cong.), (Tenali); Smt. Sangam Laxmibai (Cong.), (Vicarabad); Dr. Kommaraju Achamma (Cong.), (Vijayawada); Vijayaram Raju (Ind.), (Visakhapatnam); Nadath Ali Khan (Cong.), (Warangal).

ASSAM—13

Hoover Hynniewta (ST) (Ind.), (Autonomous Districts (R)); Dwarika Nath Tewari (Cong.), (Cachar); Nibaran Chandra Laskar (SC) (Cong.), (Cachar (R)); B. Bhagwati (Cong.), (Darrang); Jogendra Nath Hazarika (Cong.), (Dibrugarh); Amjad Ali* (P.S.P.), (Dhubri); Hem Barua (P.S.P.), (Gauhati); Rani Manjula Devi (Cong.), (Goalpara); Dharanidhar Basumatari (ST) (Cong.), (Goalpara (R)); Smt. Madfa Ahmed (Cong.), (Jorhat); Lladhar Kotoki (Cong.), (Nongong); Profulla Chandra Borooah (Cong.), (Sibsagar).

Chowkhamoon Gohain (N.E.F.A.), Nominated by President to represent Part B Tribal areas of Assam.

BIHAR—63

Satyendra Narayan Singh (Cong.), (Aurangabad); Bibhuti Mishra (Cong.), (Bagaha); Smt. Shakuntala Devi (Cong.), (Banksa); Smt. Tarakeshwari Sinha (Cong.), (Banka); Mathura Prasad Mishra (Cong.), (Begusarai); Banarasi Prasad Jhunjhunwala (Cong.), (Bhagalpur); Kamal Singh (Ind.), (Buxar); Bopin Behari Varma (Cong.), (Champaran); Bhoja Bant (SC) (Cong.), (Champaran (R)); Rajendra Singh

(P.S.P.), (Chhapra); Kunwarani Vijaya Raju (Janata), (Chauri); Shree Narayan Das (Cong.), (Darbhanga); Rameshwar Sahu (SC) (Cong.), (Darbhanga (R)); Prabhat Chandra Bose (Cong.), (Dhond); Surech Chandra Choudhury (Jharkhand), (Dumka); Debi Soren (ST) (Jharkhand), (Dumka (R)); Brajeshwar Prasad (Cong.), (Gaya); S. A. Matin (Janata), (Giridih); Dr. Syed Mahmud (Cong.), (Gopalganj); Rajeshwar Patel (Cong.), (Hajipur); Chandramani Lal Chaudhry (SC) (Cong.), (Hajipur (R)); Smt. Lalita Rajya Laxmi (Janata), (Hazaribagh); Shyam Nandan Mishra (Cong.), (Jainagar); Monindra Kumar Ghosh (Cong.), (Jamshedpur); B. N. Bhowas (Cong.), (Katihar); D. N. Tiwari (Cong.), (Kasaria); Jijalal Mandal (Cong.), (Kharagpur); Mohammad Tahir (Cong.), (Kishanganj); Ignace Beck (ST) (Jharkhand), (Lohardaga (R)); Anirudha Sinha (Cong.), (Madhubani); Mahendra Nath Singh (Cong.), (Maharajganj); Banarasi Prasad Sinha (Cong.), (Monghyr); Nayananta Das (SC) (Cong.), (Monghyr (R)); Asoka Mehta (P.S.P.), (Muzaffarpur); Kallash Pati Sinha (Cong.), (Nalanda); Smt. Satyabhama Devi (Cong.), (Nawada); Ramdhani Das (SC) (Cong.), (Nawada (R)); Gajendra Prasad Sinha (Cong.), (Palamau); Sarangadhar Singh (Cong.), (Patna); Digvijaya Narain Singh (Cong.), (Purbi); Phani Gopal Sen (Cong.), (Purnea); Paika Murmu (ST), (Cong.), (Rajmahal (R)); M. B. Masani (Jharkhand), (Ranchi East); Jaipal Singh (ST) (Jharkhand), (Ranchi West (R)); Lalit Narayan Mishra (Cong.), (Saharsa); Bhola Sardar (SC) (Cong.), (Saharsa (R)); Satya Narain Sinha (Cong.), (Samastipur); Ram Subhag Singh (Cong.), (Sasaram); Jagjitwan Ram (SC) (Cong.), (Sasaram (R)); B. B. Bhagat (Cong.), (Shahabad); Shambhu Charan Goddora (ST) (Jharkhand), (Singbhum (R)); Acharya J. B. Kripalani (P.S.P.), (Sitamarhi); Jhulan Sinha (Cong.), (Siwan).

BOMBAY—66

Indulal Kanaylal Yagnik (Ind.), (Ahmedabad); Karamdas Parmar (SC) (B.P.I.), (Ahmedabad (R)); Raghunath Keshav Khedlikar (Ind.), (Ahmednagar); Gopalrao Bajirao Khedkar (Cong.), (Akola); Laxman Shrawanji Bhatkar (SC) (Cong.), (Akola (R)); Dr. Panjabrao Shamrao Deshmukh (Cong.), (Amravati); Smt. Maniben Vallabhbhai Patel (Cong.), (Anand); Swami Ramanand Tirtha (Cong.), (Aurangabad); Akbarbhai Chavda (Cong.), (Banaskantha); Keshavrao Marutirao Jedhe (Cong.), (Baroda); Fatehsinhrao Pratapsinhrao Gaskwad (Cong.), (Baroda); Ramchandra Martand Hajarnavis (Cong.), (Bhandara); Balkrishna Ramchandra Wamlik (SC) (Cong.), (Bhandara (R)); B. D. Patil (Cong.), (Bhir); Shripad Amrit Dange (C.P.I.), (Bombay City Central); Gopal Kaluji Manay (SC) (B.P.I.), (Bombay City Central (R)); V. K. Krishna Menon (Cong.), (Bombay City North); Sadashib Kanaji Patil (Cong.), (Bombay City South); Chandrasankar Manibhanker Bhatt (Cong.), (Broach); Shivram Ranga Bane (Cong.), (Buldana); Manubhai Nishabhai Patel (ST) (Cong.), (Bulsar (R)); V. N. Swami (Cong.), (Chanda); Uttamrao Laxman Patil (J.S.), (Dhule); Jalibhai Koyabhai Dindod (ST) (Cong.), (Dohad (R)); Natushir Bharucha (Ind.), (East Khandesh); Smt. Jayaben Vajubhai Shah (Cong.), (Girnar); Balvantray Gopalji Mehta (Cong.), (Gokulwad); Balakhal Lakshankar Hathi (Cong.), (Hajer); A. V. Ghare (Ind.), (Jalna); Thakorabhi Fatehsinhji Ghodasra (Ind.), (Karsa); Dalisabhai Ramrao Chavan (P.W.P.), (Karsa); Balasabhai D. Salunke (B.P.I.), (Khed); Rajaram Balkrishna Raut (P.W.P.), (Kolaba); Bhausaheb Raosaheb Mehagonkar (P.W.P.), (Kolhapur); Shankarrao Khanderao Dige (SC) (B.P.I.), (Kolhapur (R)); Bhawanji Arjan Khimji (Cong.), (Kutch); B. C. Kamble (B.P.I.), (Kop-

gaon); Manubhai Shah (Cong.), (Madhya Sourashtra); Yadav Narayan Jadhav (P.S.P.), (Malegaon); Chhaganlal M. Kedaria (ST) (Cong.), (Mandvi (R)); Purushottamdas R. Patel (Ind.), (Mehsana); Balwant alias Balasabhai Patil (P.W.P.), (Miraj); Dr. M. S. Aney (Cong.), (Nagpur); Harihar Rao Sonule (B.P.I.), (Nanded); Deorao Namdevrao Kamble (SC) (Cong.), (Nanded (R)); Bhaurao Krishnarao Galkwad (B.P.I.), (Nasik); V. S. Naldurgker (Cong.), (Osmanabad); Maneklal Mangalal Gandhi (Cong.), (Panchmahals); N. K. Pangarkar (Cong.), (Parbhani); Motisinh Bahadursinh Thakore (Ind.), (Patan); Narayan Ganesh Goray (P.S.P.), (Poona); Nath Bapu Patil (P.S.P.), (Rajapur); K. G. Deshmukh (Cong.), (Rambhik); Premji B. Assar (J.S.), (Ratnagiri); Gulzarilal Nanda (Cong.), (Sabarkantha); Nana Patil (C.P.I.), (Salara); Jayawant G. More (Ind.), (Sholapur); Tayappa Hari Sonavane (SC) (Cong.), (Sholapur (R)); Narendrabhai Nathwani (Cong.), (Sorath); Morarji Desai (Cong.), (Surat); Shamrao Vishnu Parulekar (C.P.I.), (Thane); Laxman Mahadu Matara (ST) (C.P.I.), (Thane (R)); Kamalnayan Jammalal Bajaj (Cong.), (Wardha); Laxman Vedu Valvi (ST) (P.S.P.), (West Khandesh (R)); Deorao Yeshwantrao Gohokar (Cong.), (Yavatmal); Ghanshyamlal Oza (Cong.), (Zalawad).

JAMMU AND KASHMIR—6†

Bakhshi Abdul Rashid; Vacant; Smt. Krishna Mehta; Maulana Abdur Rahman; Sheikh Mohammad Akbar; A. M. Tariq.

KERALA—18

P. T. Punnoose (C.P.I.), (Ambalapuzha); Dr. K. B. Menon (P.S.P.), (Bhadagra); M. K. Kumaran (C.P.I.), (Chirayinkeezh); A. M. Thomas (Cong.), (Ernakulam); A. K. Gopalan (C.P.I.), (Kasaragod); Mathew Manianganadan (Cong.), (Kottayam); K. P. Kuttikrishnan Nair (Cong.), (Kottode); B. Porker (Ind.), (Manjeri); George Thomas Kottukapally (Cong.), (Muvattupuzha); T. O. N. Menon (C.P.I.), (Mukundapuram); P. Kunhan (SC) (C.P.I.), (Palghat (R)); V. Eacharan (Cong.), (Palghat); V. P. Nayar (C.P.I.), (Quilon); P. K. Kodiyann (SC) (C.P.I.), (Quilon (R)); M. K. Jina Chandran (Cong.), (Tellicherry); P. K. Vasudevan Nair (C.P.I.), (Thiruvalla); K. K. Warriar (C.P.I.), (Trichur); S. Easwara Iyer (Ind.), (Trivandrum).

MADHYA PRADESH—36

O. D. Gautam (Cong.), (Balaghat); Vidya-charan Shukla (Cong.), (Baloda Bazar); Smt. Minimata Agamdas Guri (SC) (Cong.), (Baloda Bazar (R)); Suri Kistalya (ST) (Cong.), (Bastar (R)); Smt. Maimoona Sultan (Cong.), (Bhopal); B. L. Jangde (Cong.), (Bilaspur); B. L. Chandak (Cong.), (Chhindwara); N. M. Wadiwa (ST) (Cong.), (Chhindwara (R)); Mohanlal Bakliwal (Cong.), (Durg); H. H. Maharani Vijaya Raju Scindia of Gwalior (Cong.), (Guna); Radha Charan Sharma (Cong.), (Gwalior); Sooraj Prasad alias Surya Prasad (SC) (Cong.), (Gwalior (R)); B. S. Kalidhar (Cong.), (Hoshangabad); K. Khadiwala (Cong.), (Indore); Seth Govinddas (Cong.), (Jabalpur); Amar Singh Saigal (Cong.), (Jaspur); Amar Singh Damar (ST) (Cong.), (Jhabua (R)); B. S. Tiwari (Cong.), (Kajuraho (R)); Motilal Mulviya (SC) (Cong.), (Kajuraho (R)); M. G. Ulkey (ST) (Cong.), (Mandla (R)); Manakbhai Agrawal (Cong.), (Mandsaur); Ramaling B. Varma (Cong.), (Nimar); Baboolal Tiwari (Cong.), (Nimar, Khandwa); Raja Bhendra Bahadur Singh (Cong.), (Raipur); Smt. Keskar Kumari Devi (ST) (Cong.), (Raipur (R)); Shiv Datt Upadhyaya (Cong.), (Rewa); Pt. Jwala Prasad Jyotishi (Cong.), (Sagar); Smt. Sahodra Bai Rai (SC) (Cong.), (Sagar (R)); Anand Chandra Joshi (Cong.), (Shahdol); Kamal

† Nominated by the President. * Unseated by Election Tribunal. Appeal pending in High Court. Note.—B. P. I. = Republican Party of India.

Narayan Singh (ST) (Cong.), (Shahdol (R));
Laladhar Joshi (Cong.), (Shajapur); K. B. Malvia
(SC) (Cong.), (Shajapur (R)); Pt. Braj Narayan
(H.M.), (Shajapur); Chandikeshwar Sharan
Singh Ja Deo (Cong.), (Surajpur); Babunath
Singh (ST) (Cong.), (Surajpur (R)); Radheial
Vyas (Cong.), (Ujjain).

MADRAS-41

R. Kanagasabai (Cong.), (Chidambaram);
L. Klayaperumal (SC) (Cong.), (Chidambaram
(R)); Dr. A. Krishnaswamy (Ind.), (Chingleput);
N. Siva Raj (SC) (B.P.I.), (Chingleput (R)); Smt.
Parvathi Krishnan (C.P.I.), (Coimbatore);
T. D. Muthukumarasami Naidu (Ind.), (Cudda-
lore); M. Gulam Mohideen (Cong.), (Dindigul);
S. C. Balakrishnan (SC) (Cong.), (Dindigul (R));
K. S. Ramasami (Cong.), (Gobichettipalayam);
K. Periaswami Gounder (Cong.), (Kerur);
Vacant (Krishnagiri); C. R. Fattabhiraman
(Cong.), (Kumbakonam); S. C. C. Anthony
Pillai (Ind.), (Madras North); T. T. Krishnama-
chari (Cong.), (Madras South); K. T. K.
Tangamani (C.P.I.), (Madurai); K. R. Sam-
bandam (Cong.), (Nagapattinam); M. Ayya-
kannu (SC) (Cong.), (Nagapattinam (R));
Thanulingom Nadar (Cong.), (Nagercoil);
B. V. K. Sampath (Ind.), (Namakkal); S. R.
Arumugham (SC) (Cong.), (Namakkal (R));
C. Nanjappa (Cong.), (Nilgiris); M. Palanid-
anday (Cong.), (Perambalur); R. Narayanaswamy
(Cong.), (Periyakulam); P. R. Ramakrishnan
(Cong.), (Pollachi); R. Ramanathan Gounder
(Cong.), (Pudukottai); P. Subbiah Ambalam
(Cong.), (Ramanathapuram); S. V. Ramaswami
(Cong.), (Salem); U. Muthuramalinga Thevar
(Ind.), (Sivakaliputhur); B. S. Arumugam (SC)
(Cong.), (Sivakaliputhur (R)); A. Vairavan (Cong.),
(Tanjore); M. Bankarapandian (Cong.), (Tenkasi);
N. P. S. Gounder (Ind.), (Tindivanam); T. Gana-
pathy (Cong.), (Tiruvallur); Dr. P. Subbarayan
(Cong.), (Tiruchengode); M. K. M. Abdul Salam
(Cong.), (Tiruchirappalli); P. T. Thanu Pillai
(Cong.), (Tirunelveli); A. Duraiswamy Gounder
(Cong.), (Tirupattur); R. Govindarajulu Naidu
(Cong.), (Tiruvallur); B. Dharmalingam (Ind.),
(Tiruvannamalai); N. B. M. Swamy (Cong.),
(Vellore); M. Muthukrishnan (SC) (Cong.),
(Vellore (R)).

MYSORE-26

H. C. Dasappa (Cong.), (Bangalore); N.
Keshava (Cong.), (Bangalore (W)); B. N.
Datar (Cong.), (Belgaum); T. Subraman-
yam (Cong.), (Bellary); M. S. Suganathi (Ind.),
(Bijapur North); Ramappa Balappa Bidari
(Cong.), (Bijapur South); Datta Appa Katti
(B.P.I.), (Chikodi); J. M. Mohamed Inam
(P.S.P.), (Chitaldurga); D. P. Karmarkar
(Cong.), (Dharwad North); Thimmappa Rudappa
Neewi (Cong.), (Dharwad South); Maha-
devappa Rampure (Cong.), (Gubargur); Shankar
Deo (SC) (Cong.), (Gubargur (R)); H. Siddanaja-
ppa (Cong.), (Hassan); Joseph Alva (Cong.),
(Kannara); K. C. Heddy (Cong.), (Kolar);
Doddappa Thimmaiah (SC) (Cong.), (Kolar (R));
S. A. Agadi (Cong.), (Koppal); M. K. Shiva-
nanajappa (Cong.), (Mandya); K. R. Achar
(Cong.), (Mangalore); M. Shankaralya (Cong.),
(Mysore); S. M. Siddiah (SC) (Cong.), (Mysore
(R)); G. S. Melkote (Cong.), (Raichur); K. G.
Wodeyar (Cong.), (Shimoga); C. R. Basappa
(Cong.), (Tiptur); M. V. Krishnappa (Cong.),
(Tumkur); U. Srinivasa Malliah (Cong.), (Udipi).

ORISSA-20

B. P. G. Deb Barma (G.P.), (Angul);
Bhagabat Sahu (Cong.), (Balasore); Kanhu
Charan Jena (SC) (Cong.), (Balasore (R));
N. C. Samantasinghar (Cong.), (Bhubaneswar);
Nityanand Kanungo (Cong.), (Cuttack);
Surendra Mahanty (G.P.), (Dhenkanal);
Uma Charan Patnaik (Ind.), (Ganjam); Mohan
Nayak (SC) (Cong.), (Ganjam (R)); H. H. Maha-
raja Pratap Keshari Deo (G.P.), (Kalahandi);
Bijaya Chandrasekhara Pradhan (ST) (G.P.),
(Kalahandi (R)); Surendranath Dwivedi (P.S.P.),
(Kendrapara); Balakrishna Charan Mullick (SC)
(P.S.P.), (Kendrapara (R)); Laxminarayana
Shana Deo (Ind.), (Keonjhar); Jagannatha
Rao (Cong.), (Koraput); T. Sanganna (ST)

(Cong.), (Koraput (R)); Ram Chandra Majhi
(ST) (Ind.), (Mayurbhanj (R)); Chintamani
Panigrahi (C.P.I.), (Puri); Sadhakhar Supakar
(G.P.), (Sambalpur); Banamali Kumbhar (SC)
(G.P.), (Sambalpur (R)); Chandramani Kalo
(ST) (G.P.), (Sundergarh (R)).

PUNJAB-22

Smt. Subhadra Joshi (Cong.), (Ambala);
Chuni Lal (SC) (Cong.), (Ambala (R)); Sardar
Gurmukh Singh Musaar (Cong.), (Amritsar);
Sardar Hukam Singh (Cong.), (Bhatinda);
Sardar Ajit Singh (SC) (Cong.), (Bhatinda (R));
Sardar Iqbal Singh (Cong.), (Ferozepur); Prof.
Diwan Chand Sharma (Cong.), (Gurdaspur);
Prakash Vir Shastri (Ind.), (Gurgaon); Thakur-
das Bhargava (Cong.), (Hissar); Sardar Baldev
Singh (Cong.), (Hoshiarpur); Partap Singh
Daulta (C.P.I.), (Jalga); Sardar Swarn Singh
(Cong.), (Jullundur); Sadhu Ram (SC) (Cong.),
(Jullundur (R)); Mool Chand Jain (Cong.),
(Kailash); Hem Raj (Cong.), (Kangra); Daljit
Singh (ST) (Kangra (R)); Sardar Ajit Singh
Narhadi (Cong.), (Ludhiana); Bahadur Singh
(SC) (Cong.), (Ludhiana (R)); Ram Krishan
(Cong.), (Mohinderparh); Lala Achint Ram
(Cong.), (Patiala); Ranbir Singh Chaudhuri
(Cong.), (Rohak); Sardar Surjit Singh Majithia
(Cong.), (Tarn-Taran).

RAJASTHAN-22

Mukat Behari Lal Bhargava (Cong.), (Ajmer);
Shobha Ram (Cong.), (Alwar); P. B. Rhogji Bhai
(NT) (Cong.), (Banswara (R)); H. H. Maharaja
Baghunath Singh (Ind.), (Barmer); Raj Bahadur
(Cong.), (Bharatpur); Ramesh Chandra Vyas
(Cong.), (Bhilwara); H. H. Maharaja Karni
Singh (Ind.), (Bikaner); Panna Lal Barupal
(SC) (Cong.), (Bikaner (R)); G. D. Somanli
(Cong.), (Dausa); H. C. Sharma (Ind.),
(Jaipur); Suraj Ratan Damani (Cong.), (Jalore);
Radheashyam R. Morarka (Cong.), (Jhunjhunu);
Jaswant Raj Mehta (Cong.), (Jodhpur); Nemi
Chandra Kasilwal (Cong.), (Kotah); Onkarial
(SC) (Cong.), (Kotah (R)); Mathuradas Mathur
(Cong.), (Nagaur); Harish Chandra Mathur
(Cong.), (Pal); Hiralal Shastri (Cong.), (Sawai
Madhopur); J. N. P. Pahadia (SC) (Cong.),
(Sawai Madhopur (R)); Rameshwar Tanti
(Cong.), (Sikar); Manikya Lal Varma (Cong.),
(Udaipur); Deen Bandhu Parmar (ST) (Cong.),
(Udaipur (R)).

UTTAR PRADESH-26

Seth Achal Singh (Cong.), (Agra); Lal Bahadur
Shastri (Cong.), (Allahabad); Jamal Khwaja
(Cong.), (Aligarh); Nardoo Snatak (SC) (Cong.),
(Aligarh (R)); J. B. S. Bist (Cong.), (Almora);
Hifzur Rahman (Cong.), (Amroha); Kalika Singh
(Cong.), (Azamgarh); Vishwanath Prasad (SC)
(Cong.), (Azamgarh (R)); Jogendra Singh (Cong.),
(Bahraich); Atal Behari Vajpayee (J.S.),
(Balrampur); Dinesh Singh (Cong.), (Banda);
Ram Sewak Yadav (Ind.), (Bera Banki); Swami
Ramanand Shastri (SC) (Cong.), (Bera Banki (R));
Radha Mohan Singh (Cong.), (Ballia); Satish
Chandra (Cong.), (Barilly); Keshava Deva
Malaviya (Cong.), (Basti); Ram Garib (SC)
(Ind.), (Basti (R)); Jagdish Awasthi (Ind.),
(Bilhar); Abdul Lateef (Cong.), (Bijnor);
Chaudhary Badan Singh (Cong.), (Bisauli);
Raghubir Sahal (Cong.), (Budaun); Raghubar
Dayal Mishra (Cong.), (Bulandshahr); Kanahya
Lal Balmiki (SC) (Cong.), (Bulandshahr (R));
P. N. Singh (Soc.), (Chandauli); Mahavir
Tyagi (Cong.), (Dehra Dun); Ramji Verma
(P.S.P.), (Deoria); Ram Shankar Lal
(Cong.), (Domariaganj); Rohan Lal Chaturvedi
(Cong.), (Etah); Arjun Singh Bhadauria (Ind.),
(Etah); Tula Ram (SC) (Cong.), (Etah);
(R); R. R. Misra (Cong.), (Faizabad); Panna
Lal (SC) (Cong.), (Faizabad (R)); Moolchand
Dube (Cong.), (Farrukhabad); Anwar Harvani
(Cong.), (Fatehpur); Braj Raj Singh (Ind.),
(Firozabad); Bhakta Darshan (Cong.), (Gorakhpur);
Har Prasad Singh (Cong.), (Gorakhpur); Umrao
Singh (Cong.), (Ghosi); Sinhasar Singh (Cong.),
(Gorakhpur); Mahadeo Prasad (SC) (Cong.),
(Gorakhpur (R)); Dinesh Pratap Singh (Cong.),
(Gonda); M. L. Dwivedi (Cong.), (Hamirpur);
Lachchi Ram (SC) (Cong.), (Hamirpur (R));

Krishna Chandra Sharma (Cong.), (Hapur);
Chheda Lal Gupta (Cong.), (Hardoi); Shivadeen
Drohar (SC) (J.S.), (Hardoi (R)); Kashinath
Pandey (Cong.), (Hata); Krishna Chandra
(Cong.), (Jalesar); Birbal Singh (Cong.), (Jau-
pur); Ganapati Ram (SC) (Cong.), (Jampur
(R)); Dr. Sushila Nayak (Cong.), (Jhansi);
S. M. Banerjee (Ind.), (Kampur); B. D. Misra
(Cong.), (Kaisarganj); Khushwaqt Rai alias
Bhalyalal (P.S.P.), (Kheri); Pulin Behari
Banerjee (Cong.), (Lucknow); Prof. Shibban
Lal Saxena (Ind.), (Macharaganj); Banal Das
Dhanagar (P.S.P.), (Mainpuri); Raja Mahendra
Pratap (Ind.), (Mathura); Shah Nawaz Khan
(Cong.), (Meerut); J. N. Wilson (Cong.), (Mirza-
pur); Rup Narain (SC) (Cong.), (Mirzapur (R));
Ram Saran (Cong.), (Moradabad); Dr. B.
V. Keekar (Cong.), (Muzaffarkhan); Sumat Prasad
(Cong.), (Muzaffarnagar); C. D. Pande (Cong.),
(Naini Tal); Jawaharlal Nehru (Cong.),
(Phulpur); Masuriya Din (SC) (Cong.),
(Phulpur (R)); Mohan Swarup (P.S.P.),
(Pilibhit); Pt. Munishwar Dutt Upadhyay
(Cong.), (Pratapgarh); Feroze Gandhi (Cong.),
(Rai Bareilly); Baljath Kureel (SC) (Cong.),
(Rai Bareilly (R)); S. Ahmad Mehdi (Cong.),
(Rampur); Sarju Pandey (C.P.I.), (Rasra);
Ajit Prasad Jain (Cong.), (Saharanpur); Sunder
Lal (SC) (Cong.), (Saharanpur (R)); Bishwanath
Roy (Cong.), (Salempur); Vahnu Sharan Dubliash
(Cong.), (Sardhana); Rishan Chander Seth
(Ind.), (Shahjahanpur); Narain Din (SC) (Cong.),
(Shahjahanpur (R)); Smt. Uma Nehru (Cong.),
(Sitapur); Parag Lal (SC) (Cong.), (Sitapur
(R)); Pt. Govind Malvia (Cong.), (Sultanpur);
H. H. Maharaja Manabendra Shah (Cong.),
(Tehri Garhwal); V. D. Tripathi (Cong.), (Unnao);
Smt. Ganga Devi (SC) (Cong.), (Unnao (R));
Baghunath Singh (Cong.), (Varanasi).

WEST BENGAL-26

Atulya Ghosh (Cong.), (Asansol); Mono Mohon
Das (SC) (Cong.), (Asansol (R)); Dr. R. G.
Bannerji (Cong.), (Bankura); Dr. Paahu-
pati Mandal (SC) (Cong.), (Bankura (R));
Arun Chandra Guha (Cong.), (Barasat); Bimal
Comar Ghose (P.S.P.), (Barasat); Smt. Renu
Chakravarty (G.P.I.), (Barishat); Farosh Nath
Kaya (SC) (Cong.), (Barishat (R)); Tridib
K. Chaudhuri (Ind.), (Berhampore); Anil K.
Chanda (Cong.), (Birbhum); Kamal Krishna
Das (SC) (Cong.), (Birbhum (R)); Subiman
Ghosh (F.B. (M)), (Burdwan); Harendra Nath
Mukherjee (C.P.I.), (Calcutta Central); Sadhan
Chandra Gupta (C.P.I.), (Calcutta East); Asoke
Kumar Sen (Cong.), (Calcutta North-West);
Biren Roy* (Ind.), (Calcutta South-West);
Pranathanath Banerjee (P.S.P.), (Contai);
Nalini Ranjan Ghosh (Cong.), (Cooch Behar);
Upendranath Barman (SC) (Cong.), (Cooch
Behar (R)); T. Manaan (Cong.), (Darjeeling);
Purnendu Sekhar Naskar (SC) (Cong.), (Diamond
Harbour); Kansari Hakter (SC) (C.P.I.), (Diamond
Harbour (R)); Nikunja Behari Maity (Cong.),
(Ghatol); Muhammed Elias (C.P.I.), (Howrah);
Prabhat Kar (C.P.I.), (Hooghly); Smt. Renuka
Ray (Cong.), (Malda); Narasingha Malla Deb
(Cong.), (Midnapur); Subodh Hansda (ST)
(Cong.), (Midnapur (R)); Muhammed Khuda
Bukhan (Cong.), (Murshidabad); Smt. Ila Pal
Chowdhury (Cong.), (Nabadaip); Bibhuti
Bhushan Dasgupta (Ind.), (Purulia); Jitendra
Nath Lahiri (Cong.), (Serampore); Satish Chandra
Samanta (Cong.), (Tamluk); Aurobindo Ghosal
(F.B. (M)), (Uttarpara); Chapalakanta Bhat-
tacharyya (Cong.), (West Dinajpur); Mirdi
Selku (ST) (Cong.), (West Dinajpur (R)).

ANDAMANS

Lachhman Singh (Nominated).

DELHI-5

Smt. Sucheta Kripalani (Cong.), (New Delhi);
Radha Raman (Cong.), (Chandni Chowk);
Choudhury Brahm Perkhak (Cong.), (Delhi
Sadar); C. Krishnan Nair (Cong.), (Outer
Delhi); Naval Prabhakar (SC) (Cong.), (Outer
Delhi (R)).

HIMACHAL PRADESH—4

S. Ramaul (Cong.) (*Mahasu*); N. R. Negi (Cong.) (*Mahasu (R)*); Joginder Sen-Mandi (Cong.) (*Mandi*); Padam Dev (Cong.) (*Chamba*).

LACCADIVES

Koyilat Nallakoya (Nominated).

MANIPUR—2

Lalsram Achaw Singh (Ind.) (*Inner Manipur*); Bungsung Suisa (ST) (Cong.) (*Outer Manipur (R)*).

TRIPURA—2

Dasaratha Deb (C.P.I.) (*Tripura*); Bangali Thakur (ST) (Cong.) (*Tripura (R)*).

ANGLO-INDIANS—2*

Frank Anthony; A. E. T. Barrow.

ESTIMATES COMMITTEE (1958-59)

H. C. Dasappa (*Chairman*), Dr. Sushila Nayar, T. N. Viswanatha Reddy, N. R. Ghosh, Mathuradas Mathur, Shrimati Madida Ahmed, S. A. Matin, Narendrabhai Nathwani, Rajeshwar Patel, Surendranath Dwivedy, Shrimati Renu Chakravarty, M. Sankarapandian, Jhulan Sinha, Hem Barua, C. R. Basappa, H. H. Maharaja Pratap Keshari Deo, D. A. Katti, Bhausaheb Ramesh Mahagaonkar, M. Muthukrishnan, K. P. Kuttikrishnan Nair, T. Nagi Reddy, Vutukuru Rami Reddy, Sardar Amar

Singh Sialal, Dinesh Singh, Sardar Iqbal Singh, Raghubar Singh, Tayappa Hari Sonavane, Sunder Lal, A. M. Tariq, M. G. Ulkey.

PUBLIC ACCOUNTS COMMITTEE (1958-59)

Dr. P. Subbarayan (*Chairman*), T. Manan, Maneklal Maganlal Gandhi, Pandit Jwala Prasad Jyotishi, Sharmarao Vishnu Parulekar, Radha Raman, Rameshwar Nahu, T. R. Neewi, Raghubar Dayal Misra, T. Nanganna, Vinayak Rao K. Koratkar, Jalpal Singh, Aurobindo Ghosal, Yadav Narayan Jadhav, Shradhdhakar Supakar, Amolekh Chaud, Rajkumari Amrit Kaur, Rohit Manushankar Dave, T. R. Drogirkar, Surendra Mohan Ghose, Jaswant Singh, S. Venkataraman.

AKHIL BHARAT HINDU MAHASABHA†

(Hindu Mahasabha Bhawan, Reading Road, New Delhi.)

President: Prof. Ram Singh.

Vice-Presidents: Mahant Digvijaynath; Hishan Chand Seth, M.P., Niranjan Varma; Nitya Narayan Banerjee.

General Secretary: V. G. Deshpande.

Organising Secretary: Braj Narayan Brajesh, M.P.

Secretary: Devendra Kamal.

Treasurer: Bhagirath Mohita.

Total membership of Party: 4,50,000.

Strength in the Lok Sabha: 8.

AIMS AND OBJECTS

The aim of the Hindu Mahasabha is the protection and promotion of all that contributes to the advancement, strength and glory of Hindu Rashtra, Hindu culture and Hindu polity, and as a means to that end, to achieve Hindu Raj and re-establish the integrity of the State of Bharat by constitutional means.

Besides the establishment of 'Akhand Hindustan' the aims and objects of the Hindu Mahasabha are defined as follows:

The creation of a new social order in which all nationals will enjoy equal rights and opportunities and share equal responsibilities;

The assurance to each national of the dignity of human values and full freedom of thought, expression, association and worship; Adoption of (Sanskrit-Nishta) Hindi as the national language and Devanagiri as the national script of India;

Removal of all forms of social inequalities and disabilities;

Reclamation of all those who have left the Hindu fold and welcoming of others into the community;

Ending of gross inequalities in the distribution of wealth, assurance of a decent standard of living to each national, and securing for workers and peasants their rightful share in the economy of the country;

Promotion of cow protection and abolition of cow slaughter;

The present Constitution of India is borrowed from the Constitutions of America; England, France and other Western countries and is not suited to the genius of the people. The Hindu Mahasabha would undertake the task of amending the Constitution so that it may be in consonance with the tradition and culture of the land and make Bharat a truly democratic Hindu State.

The Hindu Mahasabha wants to discourage all separatist tendencies and hence would amend the Constitution so that Bharat may be a well-knit homogeneous State with a strong centre and not a loose combination of autonomous States. Bharat itself would be a State and the units would be provinces and not States.

The Hindu Mahasabha will make military education compulsory for all young men between the ages of 18 and 25, who are physically fit and special attention will be paid to industries connected with war machines and materials of all types.

The Hindu Mahasabha will relax the rigours of the Arms Act and issue licences liberally to the inhabitants in border areas.

The Hindu Mahasabha recognises the sanctity of private property and guarantees its possession and inheritance to its owners.

All key industries such as electricity, railway, coal and steel mines and industries dealing with war materials and weapons will be owned and controlled by the State. The remaining industries will remain open for private enterprise. In running these industries the Mahasabha assures all investors full facilities to start new industries with State aid and partial exemption from taxation in the initial stages.

The Hindu Mahasabha is convinced that controls, without guaranteeing adequate supply of controlled commodities to the public, are only a nuisance and also often actually lead to blackmarketing and corruption.

The Hindu Mahasabha will give priority to rehabilitation of refugees and would even levy a special tax, if necessary, for the purpose. The Hindu Mahasabha guarantees compensation to all evacuees who have lost their property in Pakistan and will settle the problem of evacuees' properties at Government level speedily. The Hindu Mahasabha also declares that the refugees will become full-fledged citizens of Bharat. The Hindu Mahasabha will take effective steps to recover abducted women from Pakistan.

The Party lays special stress on the reconversion of those who had left Hinduism. It believes that the activities of non-Indian missionaries are harmful to the country. The Party, therefore, demands a ban on foreign missions and the nationalisation of Christian churches.

ALL INDIA FORWARD BLOC

(Central Avenue Road, Nagpur.)

Up-to-date details about constitution, policy were not available when the book went to press. A fuller note appears in the 1958-59 edition.

ALL JAMMU & KASHMIR DEMOCRATIC NATIONAL CONFERENCE

Central Office—Srinagar; Provincial Office for Kashmir Province—Srinagar; Provincial Office for Jammu Province—Jammu.

Chairman: G. M. Sadiq.

Up-to-date details about constitution, policy were not available when the book went to press. A fuller note appears in the 1958-59 edition.

ALL JAMMU & KASHMIR NATIONAL CONFERENCE

(See under article on Jammu and Kashmir.)

BHARATIYA JAN SANGH

(Ajmere Gate, Delhi.)

AIMS AND OBJECTS

The party has put forward the following programme:

Opposition to copying U.S.A. or U.S.S.R. systems.

Promotion of private enterprise with adequate checks against concentration of power. The present trends will lead to State capitalism.

Top priority to food, defence, unemployment. Country should be self-sufficient in defence equipment and producer and consumer goods.

Right to work should be a fundamental right. Unemployment benefits.

Is opposed to the mechanization of agriculture. Economic power should be decentralized.

Spheres of small-scale and large-scale industry should be clearly demarcated. Will promote small-scale industry by reserving markets, encouraging co-operative industries, giving protection to handloom industry.

Nationalisation of basic industries and defence industries. Other industries subject to supervision and regulation. Is opposed to nationalisation of banking and road transport. The present trend in the nationalisation of industry will destroy democracy.

President, Principal Deva Prasad Ghosh. *General Secretary*, Deendayal Upadhyaya. *Secretaries*, Atalbehari Vajpayee, M.P.; Jagannathrao Joshi; Sunder Singh Bhandari. *Office Secretary*, J. P. Mathur.

Total membership of party in country, 600,000.

Strength in the Lok Sabha: 4.

Strength in Rajya Sabha: 1.

Total strength in State Legislatures: 68.

No. of votes polled in elections to Lok Sabha: Over 72 lakhs.

Has branches in all the States. The Praja Parishad of Kashmir is affiliated to it.

* Nominated by the President.

† The articles in this section are based on the material provided by the parties themselves.

Indianization of foreign-owned industries (e.g. tea, coffee and rubber plantations). In others, two-thirds of investment and staff should be Indian. A ceiling on the profit which can be remitted abroad.

Co-sharing and Co-partnership in industry. Adequate representation of labour on boards of management. Encouragement of labour unions and automatic recognition. A permanent Wage Board. Periodic revision of scales of pay. Rs. 100 as the minimum wage at present. Social security legislation. Special allowance for hazardous jobs. Abolition of the employees' contribution to the Employees' State Insurance scheme. Equal pay for equal work.

Rs. 2,000 as maximum expendable income for individual—to be brought about through taxation and compulsory loans and investment.

Restriction on import of consumer goods and luxury goods. Encouragement of swadeshi. Only swadeshi goods to be used in Government offices.

Generally opposed to indirect taxation. Abolition of Sales Tax and excise duty on the necessities of life such as cloth.

Parity in price between agricultural and industrial goods. Upholds abolition of zamindari and distribution of land to the landless. Rehabilitation grants. Co-operative banks and insurance of villagers and cattle.

Compulsory military training. Establishment of defence industries. Abolition of untouchability and fighting caste feeling to bring about unity in Hindu society. Nationalise non-Hindus by inculcating Bharatiya culture. Will implement recommendations of the Niyogi Committee.

Stands for unitary rather than federal conceptions.

Part of land revenue to Panchayats.

Will abolish Legislative Councils and repeal the Preventive Detention Act and the Public Safety Acts and amend Sections 107, 108, 109 and 144 of the Criminal Procedure Code and Sections 124A and 153 of the I.P.C. to protect civil liberty.

Rs. 500 a month as a Minister's salary. Will separate judiciary from executive, abolish honorary magistrates and preserve the system of benches of High Courts.

Strict reciprocity towards Pakistan.

Will press for decent treatment of minorities in Pakistan.

Will press for full compensation for property left by refugees in Pakistan, and no concession in the matter of loans or canal dues.

Kashmir an integral part of India.

No plebiscite in Kashmir; and no special position to Kashmir in the Indian Union: same status as other States.

Non-involvement in foreign affairs. Friendly relations with all. Opposition to colonialism and Communist expansion.

Co-operation with U.N.O. Amendment of the Charter to make U.N.O. truly representative of the people. Permanent seat for India in the Security Council. Full support for people in revolt against Western Colonialism or Russian imperialism.

All steps including police action to liberate Goa.

On the question of displaced persons, stands for (i) immediate payment of small claims, (ii) Revaluation of shops and houses, (iii) Crediting rents realised towards prices of the tenements, (iv) Realisation of values of properties in easy instalments spread over thirty years, (v) No recovery of amounts up to Rs. 2,000 given as help. Recommends demanding territory from Pakistan for resettling the refugees.

Is opposed to the extension in the fifteen-year limit laid down for the replacement of English by Hindi. Will have a five-year plan for the development of Hindi and other Bharatiya languages. Stands for the inclusion of Sindhi in the list of Bharatiya languages.

Stands for giving Hindi its rightful place in the State of Jammu and Kashmir.

Stands for (1) primary education through the mother tongue, (2) secondary and higher education through the regional language and Hindi as compulsory subject, (3) making learning of one regional language compulsory for Hindi-speaking students, (4) compulsory course of Sanskrit studies, (5) recognition of graduates of Hindland of other recognised Indian languages as on par with English, (6) autonomy of educational institutions and universities.

Free and compulsory education at the primary and secondary stages. Free education to poor but deserving students at the higher stages.

Co-operative Farming—The party is opposed to co-operative farming as it will not maximise agricultural production and employment. It will restrict the scope of the peasants' freedom as producer and ultimately his political right to a free vote. It would lead to bureaucratic domination and ultimately to collectives.

The Jan Sangh stands for peasant proprietorship and supports service co-operatives which should not be manned by officials or party cadres

It suggests the following procedure: Immediate ceiling on future acquisition; Tenants are to be given fixity of tenure and fair rents are to be fixed. A scheme is to be put in operation to assist landless peasants to buy the additional lands required for an economic holding and to acquire full rights over the land; Fair wages are to be fixed for agricultural labourers; Ceiling at thirty acres or equivalent thereof, yielding a minimum of Rs. 6,000 should be fixed. Owners of land are to be allowed a period of three years to sell their surplus land to peasants. The price is to be paid in instalments. There should be a comprehensive scheme for the consolidation of landholdings and the development of agriculture.

State Trading in Food Grains—The Jan Sangh feels that the decision has been taken to cover Government failure to maintain stability in prices, that it will inevitably lead to compulsory procurement and rationing which is undesirable. It suggests that the State may come in as purchaser when prices are falling and as seller when prices are rising. Sufficient buffer stocks should be built with responsibility on State Governments. There should be a permanent system of fair price shops in deficit areas. Long term agreements should be entered into with surplus countries like Burma, Indo-China and Thailand for the supply of the basic minimum quantity. The zonal system for foodgrains should be revised along lines of natural trade.

Third Plan—The party feels the need for a basic change in outlook. Planning should be viewed against the background of the country's cultural, social and political objectives. The party feels that a Socialist economy, invariably leads to concentration of power in the State and is not compatible with democratic ideals. The aim of planning should be mainly to create conditions for people to have more and more initiative and facilities for engaging themselves in gainful economic activities. The party proposes the Plan should aim at providing full employment. Top priority should be given to agricultural production. Stress should be laid on mechanised small-scale industries. The public sector should pay more attention to consolidation than expansion. Emphasis should be shifted from big projects to small schemes. Greater attention should be given to the education and training of personnel required for a growing economy.

U.S. Military Aid—The Jan Sangh thinks that the U.S. Military Aid to Pakistan is a great potential danger to India and also to peace in Asia. The increasingly truculent attitude of Pakistan is a direct result of the Aid. Continued help and agreement to aid Pakistan even after the abolition of democracy there, is looked upon in Bharat as an unfriendly act. The wording of the recent agreement between the U.S.A. and Pakistan seems to be deliberately ambiguous. The Jan Sangh feels that the U.S.A. is jeopardising in India—now practically the only bastion of democracy in the East—the very cause which she professes to have so much at heart. Accordingly the Jan Sangh considers the policy of the U.S.A. as extremely ill-advised.

Tibet—According to the Jan Sangh Tibet has stronger cultural, religious and political ties with India than with China. China's suzerainty over Tibet has never been more than a myth. It was a blunder to have accepted Chinese suzerainty over Tibet four years ago.

Tibet's autonomy must be fully honoured, and the Dalai Lama should be reinstated with full rights and honours as before. The Jan Sangh feels that a stronger and bolder stand on the Tibetan issue vis-a-vis China alone will lay the foundations of an honourable and lasting friendship between two equals. Chinese domination over Tibet will result in a permanent danger to India's security and world peace. The Jan Sangh recommends that the Dalai Lama should be afforded all facilities to guide and direct the liberation fight against Chinese imperialists.

COMMUNIST PARTY OF INDIA

(7/4, Asaf Ali Road, New Delhi.)

Members of the Secretariat are:

Ajoy Ghosh (General Secretary), S. A. Dange, M. Basavpunniah, B. T. Ranadive, P. C. Joshi, Dr. Z. A. Ahmad, Bhupesh Gupta and A. K. Gopalan.

Membership of the Party: 250,500 at end of Dec., 1958.

Members in the Lok Sabha: 30 (including one independent).

Members in the Rajya Sabha: 14.

Total Number in the State Assemblies: about 210. In addition, there are 9 Independents elected with the support of the Communist Party (5 of these in Kerala).

Number of votes secured in the general elections of 1957: Lok Sabha 12,746,056 (including the votes secured by Independents supported by the Party). Assemblies 10,433,032 (including the votes for party-supported Independents).

The Party emerged as the strongest after the Congress both in terms of seats won and the votes polled.

The number of seats that the Party and its allies held in the various State Assemblies was as follows: Andhra 39; Assam 4; Bihar 7; Bombay 21; Kerala 65; Madhya Pradesh 2; Madras 4; Mysore 2; Orissa 8; Punjab 6;

Rajasthan 2; U.P. 8; West Bengal 49; Tripura 15; Manipur 4.

In Kerala, the Communist Party which was the most numerous single party and also the majority party is now the Government.

The Policy:

INDUSTRY

(1) Priority to development of heavy and basic industries, which includes iron and steel, machine-making, including fabrication of steel plants, heavy chemicals, oil, coal, minerals and power, which should be in the State sector.

(2) Protection to national industries against foreign competition.

(3) Location of industries should be so arranged that while taking into account natural advantages, balanced development of various regions is provided for. In backward States where private capital cannot be mobilised even for large-scale light industries, these should be undertaken by the State.

(4) Development of armaments, aircraft and ship-building industries by the State with a view to strengthening national independence.

(5) Pending the development of heavy and basic industries, increased consumer demands should be met, as far as possible, by maximum utilisation of existing capacities in organised industries and by encouragement of small-scale and village industries.

RESOURCES

(6) In order to augment the resources for national reconstruction, certain industries and undertakings should be nationalised. To begin with, banking, general insurance, coal-mining as a whole, aluminium industry, manganese, copper, iron and gold-mining as well as British-controlled jute mills and plantations, should be immediately nationalised.

(7) Impose a ceiling on export of profits, and take over profits in excess of the ceiling as compulsory loan.

(8) Impose a ceiling on profits of all big industries and commercial undertakings, and take over profits in excess as compulsory loan.

(9) These, together with the reserves of large companies to form a National Development Pool, to be invested in the State and private sectors in accordance with national needs.

(10) State monopoly of foreign trade in the principal commodities. This would give the State the profits from such trade. It also enables it to diversify our foreign trade and develop it on the basis of mutual advantage.

Further promotion of State trading in the internal market.

(11) Heavier taxation on corporation profits, tax on personal wealth and tax on capital gains. Steeply graded income-tax, and fixation of ceilings on personal and family incomes.

(12) Postponement of payment of compensation to big landlords.

(13) Cancellation of Privy Purses to Princes.

(14) Requisition of the hoarded wealth of the Princes as compulsory loans.

(15) Reduction of the salaries and allowances of highly-paid officials.

PEASANTS

(16) Immediate carrying out of urgent agrarian reforms and substantial reduction of the burden of the rents and usurious interests.

(17) Immediate fixation of ceiling on landholdings and distribution, without any payment, of the land in excess to the agricultural labour and peasants.

(18) Setting up agricultural labour and peasant committees to implement land reforms.

(19) Planned free distribution of all Government cultivable waste-land to poor peasants and agricultural labourers within a period of three years and State aid for bringing these under cultivation.

(20) Substantial scaling down of debts owed by peasants to landlords and money-lenders by cancellation of unconscionable debts. Arrangements for the liquidation of remaining debts in easy instalments spread over a number of years. Setting up of Debt Conciliation Boards for this purpose.

(21) Wide extension of co-operatives for rural credit, marketing of produce as well as for supply of agricultural machinery and implements, fertilisers, etc. The existing co-operative law to be drastically amended in a democratic direction, by drastically curtailing the powers of the bureaucratic officials of the co-operative department.

(22) Fixation of minimum wage for agricultural labour, and its enforcement by encouraging the organisations of agricultural labourers.

Cancellation of debts owed by agricultural labourers to landlords and moneylenders.

(23) Guaranteeing of a fair price to the peasants for their produce.

Only criterion of irrigation works should be the degree of benefit conferred on the peasant not any economic return.

Cost of installation of tube-wells should be borne by Government.

Water-rates should be low enough so that they are within the capacity of the peasant to pay.

WORKING CLASS

(24) The present rationalisation drive in major industries like jute and cotton textiles, in the name of stepping up exports, should be stopped.

(25) The present policy of wage-freeze should be given up. A national minimum wage should be fixed, and workers should be assisted in securing fair wages which should be above the minimum.

(26) Pending such fixation, an immediate increase by 25 per cent to all workers' wages in view of the increased productivity of labour. The dearness allowance should be amalgamated with basic wages.

(27) Social insurance schemes to be rapidly extended to cover all industries and types of benefits and not merely confined to health. The benefit of the present health insurance scheme should be extended to the workers' family members.

(28) Provision for unemployment benefits and bonus.

EDUCATION

(29) Free and compulsory elementary education up to the age of 14 years.

(30) Adequate provision for technical and scientific education on a large scale should be made.

(31) Education at all levels including the University standards should be in the regional language or languages.

The study of Hindi should be encouraged as the language of the Union Government and for communications between Governments and people of different States.

Provision should be made to teach minorities where they are in considerable number in their mother tongue up to the end of secondary stage.

Adequate safeguards for the Urdu language and script and provision for imparting education in Urdu for Urdu-speaking population.

(32) Ensuring academic and democratic rights for students and teachers.

(33) Adequate salaries for all teachers.

(34) Adequate medical service and maternity homes both in the cities and the country-side.

(35) Arrangement for supply of drinking water to all localities.

DEMOCRACY

It is necessary to:

(36) Abolish Upper Houses in the Legislatures; introduce proportional representation in all elections, right of recall, secret ballot even for Panchayat elections; and officials at various levels to be under the control of elected local bodies.

Union territories, as long as they continue, must have a democratic set-up and not be administered by Commissioners with nominated Advisory Councils.

(37) Ensure the right to organise, hold meetings and demonstrations and for this purpose repeal all repressive laws and measures.

(38) Drastically revise the Police Code, curtailing the powers of the police to arrest, shoot, lathi-charge and ban meetings and processions.

(39) Repeal the Dramatic Performances Act of 1876, and police censorship of plays, restrictions on renting of halls, etc.

(40) Repeal of legislation which encourages regimentation; active encouragement to trade unions to unite and form one trade union in each industry or undertaking on the basis of internal trade union democracy.

No imposition of regimented trade unions on the workers.

(41) Assure trade union rights to all workers. The National Security and Safeguarding Rules under which workers in Government undertakings and departments are arbitrarily and summarily dismissed, must be repealed. Declaration of areas like Chittaranjan and Hirakud as prohibited areas must be rescinded.

(42) Give workers and employees an effective voice in the management and direction of industrial enterprises. Committees of elected representatives of workers and employees should be recognised on an equal footing with the administration.

(43) Entrust trade unions with the management and administration of Employees' State Insurance and other social amenity schemes.

(44) Associate, with an effective voice, in rural areas the kisan sabhas and organisations of agricultural labour, in the implementation of agrarian reforms, in the execution of local development schemes.

(45) Vest the local organs of the people like Village Panchayats, Local Boards and Municipalities with powers to discharge their responsibilities. The power of Government officials should be curtailed so that they function as the servants of the elected representatives of the people in the local boards.

(46) Entrust all local developmental work, such as Community Project Scheme, etc., to the Panchayats and reduce the present high administrative cost.

(47) Equal rights to women—in the matter of inheritance, right to own land, equal pay for equal work, maternity leave, benefits.

(48) Provide refugees with gainful employment.

(49) Separation of judiciary from the executive.

Land Reform: The Central Executive Committee of the Communist Party which concluded a five-day session in New Delhi in Feb. 1959, adopted important resolutions demanding expeditious implementation of land reforms and an extension and strengthening of the public sector.

Putting forward a seven-point programme for the speedy and faithful implementation of these reforms, the Committee demanded that ordinances should immediately be promulgated in all States banning *mala fide* and fictitious transfers and partition of land, eviction of tenants and reinstatement of those who were dispossessed of their lands after 1952.

The other proposals put forward by the Committee demanded full security for tenants, reduction of rents, fixation of ceilings, distribution of surplus land among poor peasants through popular committees, encouragement to form co-operative societies and completion of all legal formalities within a year.

The Committee was against granting exemption from ceiling to agricultural land that was not under tea, coffee, rubber or cinchona.

The Committee, which thought that the Nagpur resolution of the Congress on land reforms was a "rebuff" to landlords, was of the view that opponents of these reforms still occupied key positions in the Congress and were doing everything to sabotage them.

To illustrate its point, the Committee said that the legislation passed in some of the States had miserably failed to give adequate relief to the kisans and to develop agriculture appreciably. Tenants continued to be evicted en masse and high rents continued to prevail.

In many States, the Committee pointed out, laws for imposing ceilings on land holdings had not been passed and even in those states where such laws had been passed, surplus land disappeared and the Governments concerned failed to acquire such land.

Tibet—The Central Executive expressed its deep concern over the sharp deterioration in Sino-Indian relations over the question of Tibet.

The Union Government or its spokesmen should not do anything which might directly or indirectly lend support to the "rebels" against a friendly country.

The friendship between the two countries should not be allowed to weaken on account of a few Tibetans.

Tibet should be treated as an internal affair of China.

The presence of a large number of Tibetan refugees in India and their possible indulgence in activities against China would create still more complications.

DRAVIDA MUNNETRA KAZHAGAM

(Arivaham, Suryanarayana Chetty Street, Royapuram, Madras).

General Secretary, R. Neduncheslian.

Asst. General Secretary, N. V. Natarajan.

Executive Committee, C. N. Annadural, K. Karunanidhi, E. V. K. Sampath, K. A. Mathiyazhagan, Mrs. Sathiyavaniimuthu, A. V. P. A-salthambi.

Leader, Legislature Party, C. N. Annadural, *Dy. Leader*, K. Aulashagam,

AIMS AND OBJECTS

The attainment of a sovereign independent socialist republic of Dravidanad, comprising the four linguistic States of Tamilnad, Andhra, Karnatak and Kerala. The four linguistic units will have full internal autonomy in the federal structure and the right to secede.

This State will have an independent foreign and defence policy.

India is not a nation. It is a sub-continent consisting of many nations.

English should be retained as an official language for all-India purposes. Regional languages should be the State languages in the States.

Hindi is not a national language. It is only one of many regional languages. There should therefore be no compulsory teaching of Hindi in schools in South India.

The membership of the party is over 2,00,000 and the number of branches over 2,000, in Madras State. There are also branches in Kerala, Mysore and Andhra.

It polled more than 17 lakhs of votes in the second general elections and returned 15 members to the Madras Assembly and two members to the Lok Sabha.

GANATANTRA PARISHAD

(Cuttack 1, Orissa.)

President : Rajballabh Misra, M.L.A.

General Secretary : Pandit Raghunath Misra.

At the annual conference of the party in May 1958 it was decided to make the party an all-India party.

The aims and objects are :

Safeguarding the civil, political and cultural rights of minorities and backward areas and classes;

Abolition of land revenue and the introduction of graduated progressive taxation on agricultural income with a view to achieving a ceiling on income from agricultural resources at Rs. 4,800;

Secure minimum holding to the cultivating tenants and for the purpose exempt from taxation agricultural holding yielding income upto Rs. 1,600;

Increased production, adequate and proper wages to agricultural labour, soil preservation, reclamation of cultivable waste land, flood control, provision for rural credit, establishment of multipurpose co-operatives and improvement of fodder crops;

Nationalisation of the industries which have been established mostly through Government aid; nationalisation of mines to be worked in future; nationalisation of industries in which

competition between the State and individuals will not be conducive to public benefit; nationalisation of industries which can be run more efficiently and produce more cheaply under Government management;

Adoption of the principle of co-management and profit-sharing by capital and labour; encouraging trade unionism to ensure better wages; checking monopolistic tendencies in industry; extension of industrial aid to deserving enterprises;

Safeguarding the interests of the middle class; reduction of taxation; tax relief by tapping the natural resources of the State; social security services for the people; economic and social uplift of the scheduled castes and scheduled tribes; separation of the executive and the judiciary; free and compulsory primary education; abolition of the Kendu Leaf Control Order; abolition of monopolies in minor forest products and the supply of bamboo, coal and timber, etc. from the forests to the people in time of need;

Restoration of Seraikella and Kharswan to Orissa and the integration of the outlying Oriya tracts with Orissa; shifting cultivation; conversion of Bhogra land into roayati; adequate compensation to the people for land acquisition, etc.

The party lays special emphasis on :

The removal of regional disparity in the Five-Year Plans; uniform per capita income in the constituent States; the rural and agricultural sector of the economy; greater autonomy freedom to the constituent States; anti-corruption measures and character building on a mass scale.

Co-operative Farming :—The party is in favour of co-operative farming, but only, on a voluntary basis. There should be no compulsion on the landowners. It should be gradually introduced after the Government is convinced about its merits, and on the principle of co-ownership and profit sharing.

The party is also in favour of State trading in food grains. It is essential that the producers should get a fair price.

On the question of planning the party has on the whole supported the Plans though it was not altogether satisfied with the implementation.

On Tibet the policy of the party is the same as that of the Government of India: the security of India, friendly relations with China and sympathy for the Tibetan people.

On American aid to Pakistan also the policy is identical with that of the Government—that it makes friendly relations between India and Pakistan more difficult and that it is a threat to peace in this part of the world.

INDIAN NATIONAL CONGRESS

(7, Jantar Mantar Road, New Delhi.)

President : Mrs. Indira Gandhi.

General Secretaries : A. Satyanarayana Raju; Sadig Ali, Takhtmal Jain, Mrs. Sucheta Kripalani.

Working Committee : Mrs. Indira Gandhi, U. N. Dhebar, Pandit Govind Ballabh Pant, Dr. Bidhan Chandra Roy, Jagjivan Ram, Morarji Desai, Kamraj Nadar, Hafiz Md. Ibrahim, Y. B. Chavan, A. Satyanarayana Raju, Sardar Pratap Singh Kairon, Sadig Ali, B. P. Chaliha, S. Nijalingappa, Mrs. Sucheta Kripalani, Brijesh Chandra Sen, Takhtmal Jain, Abdul Qayum Ansari, Mrs. T. S. S. Ramachandran.

Presidents of Congress Committees :

P. Banga Reddy (Andhra), M. M. Chaudhury (Assam), Abdul Qayum Ansari (Bihar), Thakorebhai Desai (Bombay), Shiv Charan Gupta (Delhi), Maganbhai Shankarbhai Patel (Gujarat), S. N. Ramaul (Himachal Pradesh),

R. Manker (Kerala), M. Nalk Nimbalkar (Maharashtra), M. Lakshmi Narayan Das (Madhya Pradesh), H. K. Veeranna Gowda (Mysore), Gopikatal Kannamwar (Nagpur), Sardar Darbara Singh (Punjab), Hariail Singh (Rajasthan), Raja Ram Naidu (Tamilnad), Rajakrushna Bose (Utkal), Chaturbhuj Sharma (Uttar Pradesh), Dr. J. N. Korpe (Vidarbha), J. N. Panja (West Bengal), Baba Saheb Sawenakar (Marathwada), K. K. Shah (Bombay Regional).

Central Parliamentary Board : Mrs. Indira Gandhi, U. N. Dhebar, Govind Ballabh Pant, Jagjivan Ram, Hafiz Md. Ibrahim, K. Kamraj Nadar.

Central Disciplinary Action Committee : Morarji Desai, Lal Bahadur Shastri, Jagjivan Ram, Balwantray Mehta, Mrs. Sucheta Kripalani.

Leader Congress Party, Parliament, Jawaharlal Nehru, *Deputy Leader*, Pandit Govind Ballabh Pant.

Secretaries, Pandit Munishwar Dutt Upadhyay, H. C. Heda, Mrs. Sharda Bhargava.

Treasurer, Kamalnayan Rajaj.

Total membership of Party in country : 4,600,000 (active members : 68,000).

Strength in Lok Sabha : 374.

Strength in Rajya Sabha : 179 (estimate).

Total strength in State Legislatures : 2,056 (Oct. 1958) (Part A States).

Total number of votes polled in the General Election : Lok Sabha : 5,74,32,821; State Assemblies : 5,15,29,890.

The Indian National Congress includes the following bodies :

The All-India Congress Committee, the Working Committee, Pradesh Congress Committees, District Congress Committees, General Assembly of the Mandal Congress Committees, Mandal Congress Committees, Committees above or below the Mandal Committees and subordinate to the District Committee.

There are 15 Pradesh Congress Committees: Andhra, Assam, Bihar, Bombay, Delhi, Himachal, Kerala, Madhya Pradesh, Mysore, Punjab, Rajasthan, Tamilnad, Utkal, Uttar Pradesh, and West Bengal.

There are six Regional Committees all in Bombay:

Gujarat, Maharashtra, Nagpur, Vidarbha, Marathwad, Bombay.

The Mandal Congress Committee, on which the organization is finally based, covers an area having a population of round about 20,000, and is made up of members elected by primary members of the Congress—at the rate of one for about 2,000 members—and of co-opted members, the elected members always having a majority.

There are about 18,000 Mandal Committees.

The General Assembly of the Mandal consists of the primary members enrolled within the area covered by the Mandal.

The All-India Congress Committee at its session in Aug.-Sept. 1957 approved of certain changes in the constitution of the Congress party, which then came into immediate effect.

These changes concerned mainly three points: indirect election to the higher bodies, functional representation on them for trade unionists, kisan and youth workers, and thirdly the conception of a Mandal Committee as a means of keeping in close touch with the general mass of the people.

The District and Pradesh Committees, for example, are elected by the elected members of the Mandal Committees. Also there will be on them representatives of certain organizations or institutions working in the area in accordance with certain rules.

The A.I.C.C. will also have on it representatives of allied institutions and organizations.

There are two kinds of members—Primary and Active. The latter has greater rights and obligations. For example, it is obligatory on him to do social work. And he alone can become a member of any Congress Committee, above a Mandal Committee, and of Mandal Committees he alone can be an office-bearer or member of the executive.

AIMS AND OBJECTS

The ideology, outlook and policy may be described as follows:

The object of the Indian National Congress is the well-being and advancement of the people of India and the establishment in India by peaceful and legitimate means of a Socialist, Co-operative Commonwealth based on equality of opportunity and of political, economic and social rights, aiming at world peace and fellowship.

The provision of the basic needs of food, clothing and shelter, and of opportunity for cultural growth for all people.

With a view to achieving the above objects planning should take place with a view to the establishment of a socialistic pattern of society where the principal means of production are under social ownership or control and there is equitable distribution of national wealth.

Full employment should be achieved in ten years.

The State should initiate and operate large-scale schemes, providing services such as power, transport; have over-all control of resources, social purposes and trends; maintain strategic controls; prevent private trusts and cartels; maintain standards of labour and production; the public sector must progressively play a greater part particularly in the establishment of basic industries; the private sector should function in terms of the national plan.

Organisation of industry, commerce, agriculture on a co-operative basis.

Participation of workers in management of industry.

Perspective planning; flexible short-term plans in the context of a long-term plan.

Backward areas and regions should be specially helped to develop themselves.

The per capita income should be doubled in fifteen years.

Belief in a secular state; all citizens to have equal rights; removal of barriers which divide people on the basis of religion, caste, class or region.

Land Reform

Abolition of old and out-dated agrarian systems of tenure; security of tenure and fair rents for tenants and tillers of the soil.

Land reform should be effected quickly, agricultural prices stabilised at a reasonable level and facilities for rural credit greatly enlarged. The Government would play its part through the nationalization of the Imperial Bank.

There should be a ceiling on holdings.

Co-operative farming; the village as the unit of co-operative management.

Local administration through Panchayats.

Promotion of small-scale and cottage industries as supplier of consumer goods and source of employment; organization of cottage industries in industrial co-operatives.

State trading should be undertaken whenever the balance of advantages lies in favour of such a course.

Control of distribution is essential in times of scarcity.

Redirection of public expenditure, imposition of estate duties and of tax on wealth and spending for the removal of inequalities and the provision of resources for the Second Plan.

There should be a reasonable relationship of maximum and minimum incomes.

Better housing for workers.

Effective machinery to commend good work and condemn bad work in the public services.

Summary method to deal with corruption.

Education

Basic education would provide the future pattern of primary as well as secondary education. Primary Schools will be converted to the Basic type in a well-planned manner within ten years.

Multi-purpose schools will be established.

Manual work as part of curriculum of higher education; no degree or diploma without manual work.

The medium of instruction at the primary stage must be the mother tongue. Where the mother tongue of a child is not identical with the regional language instruction in the mother tongue should be made available, provided there is a reasonable number of persons demanding such instruction.

At the secondary stage instruction should ordinarily be in the regional language, though other languages could be used if there is a large enough demand.

At the university stage, the regional language should be the medium, though Hindi and even English could be used as this will facilitate inter-provincial cultural intercourse.

In the teaching of scientific and technical subjects the transition from English to Hindi or the regional language should be gradual.

Hindi should be a compulsory second language at the Secondary stage.

The study of English should be taken up at the secondary school stage and continued at the university.

Progressively, examinations for the all-India services should be held in English, Hindi and the regional languages. Candidates who have chosen Hindi or a regional language should pass separately in English.

Successful non-Hindi candidates should take a test in Hindi at an early stage.

Hindi Prachar Sabhas in the headquarters of every Taluka in the south.

It is necessary for people in Hindi-speaking areas to learn at least one regional language.

Proper representation to minorities in legislatures and other public bodies.

Social and legal disabilities hindering the progress of women should be removed and women should be placed on a footing of equality in the matter of marriage, property, inheritance and divorce through a series of Hindu law reform bills.

Provinces on a linguistic basis where there is a demand representing the agreed views of the people of the area: economic, administrative and financial considerations must be taken into account.

The Congress is committed to prohibition.

Unilingual States may exist where this is considered desirable. But unilingualism cannot be made a fetish.

It is also desirable to encourage where feasible the formation of bilingual States with regional councils for each linguistic area. In this sense any union of two States is specially welcome.

Formation of regions within a State may be necessary for the full development of a language or culture.

On the whole, it is best not to have relatively small units.

Foreign Policy

Independent line in foreign policy; friendly relations with all countries.

India's relations with foreign countries will be governed by the Pancha Shil. They should also be the basis of the relations between all nations.

Regional military pacts which happen to serve specific interests of the Great Powers will not promote the cause of peace.

India will not be aligned to any power bloc, and will not take part in other people's wars.

China must be admitted to the United Nations. Membership should, in fact, be universal.

Only peaceful methods will be used for the liberation of Goa.

In general, people under colonial rule should be free.

Racialism should end.

The Kashmir dispute must be settled in accordance with the wishes of the people of Kashmir.

1959 SESSION

The annual Congress Session held at Abhyankar Nagar, Nagpur on Jan. 9, 10 and 11, passed a number of resolutions on some of the immediate problems before the country.

On planning, it asserted that the Second Plan was not over-ambitious and that the Third Plan would have to be even more ambitious if the country was not to run into difficulties.

The main resolution however was on the agrarian question. Here the resolution emphasised the need for ceilings on agrarian holdings, the formation of service co-operatives to be followed by co-operative farming, the vesting of surplus land in panchayats managed by co-operatives consisting of landless persons. Land reform legislation should be completed by the end of 1959.

Parts of the main resolutions are reproduced below.

Planning

Eight years ago, India embarked on a planned development of her resources with a view to increasing the pace of economic development, raising the standards of living of the people, progressively reducing social inequalities, and establishing a socialist pattern of society.

More information and statistical data were available for the Second Five-Year Plan. This was on a larger scale than the First and, in fact, visualised a doubling of investment. It sought to lay emphasis on industrialisation, especially steel, coal, power and transport, and therefore, required foreign exchange resources of a much larger volume than the First Plan.

In the light of the country's requirements, the Second Five-Year Plan was certainly not over-ambitious in size or in pattern of investment, nor should it be beyond the capacity of the country to achieve it if an adequate effort is made to that end.

A rapid increase in agricultural production is essential in order to put an end to the necessity for importing foodgrains and to increase the resources of the country for industrial growth. While the agriculturist must be ensured a reasonable return for his labour, prices of foodgrains should not be allowed to rise.

It is essential from the point of view of planning that the prices of certain essential commodities, such as foodgrains, cloth and some others, should be kept within reasonable bounds.

The remaining years of the Second Five-Year Plan should be utilised for intensive campaigns to mobilise domestic savings and to fulfil the targets of the Plan.

An important factor to be constantly kept in mind is the rate of growth of population. Planning must take into account this population growth. Efforts should be made to reduce this rate of increase in population by suitable methods of birth control and family planning. A lasting solution of the problem of population is to be found in raising standards of living, education, particularly of women, and changes in attitudes and outlook.

Measures for mobilisation of resources and for economy should include the following:—

(i) Public enterprises and State trading should be conducted so as to yield additional resources for public purposes.

(ii) Imports should be strictly controlled and non-essential goods should not be imported. Import duties should be raised wherever possible. Imports and exports should be co-ordinated to prevent accumulation of commitments which lead to undue pressure on foreign exchange.

(iii) Expansion of life insurance and other institutions engaged in stimulating and collecting savings.

(iv) Patterns of production should be so adjusted as to supply the essential needs of the people.

(v) Wages and salaries should be increasingly dependent on work done and on production. Profits in the private sector should also be controlled.

(vi) The construction of large or expensive buildings, whether for public or private purposes, should be discouraged except for such public structures as are considered absolutely essential for the Plan. Equipment for these buildings should also avoid items of luxury. The specifications laid down for public buildings should be simpler.

(vii) While steps should be taken to see that prices do not rise any further, it is necessary that agricultural incomes do not fall with an increase in output.

Steps should be taken to utilise the vast man-power resources in the country, especially in the rural areas, for direct capital formation. Village and cottage industries, soil conservation and reclamation, digging of irrigation channels, tanks and wells, bunding, afforestation, housing and road construction offer fruitful opportunities for the utilisation of unused man-power.

Planning is a continuous process. It has to be dynamic and progressive, and there can be no standing still or slowing down in this process, as otherwise difficulties and problems will increase. Therefore, it is essential that the Third Five-Year Plan should be so conceived as to lead to more rapid growth.

The creation of a democratic and socialist society should be clearly and unambiguously placed before the nation as the objective of planning, and all the implications of socialism, in terms of individual and co-operative effort it requires, should be clearly explained to the people. The stress should be not only on individual and social demands and needs, but equally on duties and obligations and the work that is necessary for meeting these needs.

Agrarian Pattern

The organisation of the village should be based on village panchayats and village co-operatives, both of which should have adequate powers and resources to discharge the functions allotted to them. All permanent residents of the village, whether owning land or not, should be eligible for membership of the village co-operative which should promote the welfare of its members by introducing progressive farming

methods and improved techniques of cultivation, developing animal husbandry and fishery and encouraging cottage industries. In addition to providing credit and discharging other servicing functions, it will arrange for pooling and marketing the agricultural produce of the farmers and for storage and godown facilities for them.

The future agrarian pattern should be that of co-operative joint farming, in which the land will be pooled for joint cultivation, the farmers continuing to retain their property rights, and getting a share from the net produce in proportion to their land. Further, those who actually work on the land, whether they own the land or not, will get a share in proportion to the work put in by them on the joint farm.

As a first step, prior to the institution of joint farming, service co-operatives should be organised throughout the country. This stage should be completed within a period of three years. Even within this period, however, wherever possible and generally agreed to by the farmers, joint cultivation may be started.

In order to remove uncertainty regarding land reforms and give stability to the farmer, ceilings should be fixed on existing and future holdings and legislation to this effect, as well as for the abolition of intermediaries, should be completed in all States by the end of 1959.

This does not mean any ceiling on income, as it is expected that by intensive cultivation as well as by additional occupations rural incomes will rise.

Such surplus land should vest in the panchayats and should be managed through co-operatives consisting of landless labourers.

With a view to assuring a fair return to the tiller, a minimum or floor price should be fixed reasonably in advance of the sowing season with respect to each crop, and arrangements should be made to purchase directly, whenever necessary, the crops produced.

The introduction of State trading in wholesale trade in foodgrains is welcomed and should be fully given effect to.

CONGRESS SOCIALIST FORUM

Towards the end of December, 1958 about 35 Congress Members of Parliament and others met in New Delhi and decided to constitute themselves into a sort of ginger group within the Party. Later they gave themselves the name Congress Socialist Forum. The members not only believed in socialism but would carry the Party's programme down to the rank and file and the people at large.

(For details see 1958-59 Directory.)

MAHAGUJARAT JANATA PARISHAD

(Mission Road, Bhadra, Ahmedabad.)

President, Indulal K. Yagnik, M.P.

Vice-Presidents, Dahyabhai V. Patel, M.P., Ahmediya S. Shukh, Funderkrai Nathi.

Secretaries, Harihar Khambholje, Dhanvant Shroff, Brahmakumar Blati, Dr. Vasudev Tripathi.

Office Secretary, Chimanlal A. Bhagat.

Treasurer, Dr. Ganpatram Patel.

The Mahagujarat Janata Parishad was founded in the wake of the announcement of the formation of bilingual Bombay State, with the aim of "taking all possible peaceful, non-violent and democratic measures for the establishment of a separate State for Gujarati-speaking people, co-equal in status with other linguistic States".

The Constitution of the Parishad was adopted on December 30, 1956 by some 600 delegates from Gujarat, Saurashtra and Kutch.

Mr. Indulal Yagnik was elected the first President, and again a second time.

Under the constitution, the Parishad will be independent of other political parties, and its members will have to uphold the actions and decisions of the Parishad in cases where these are not consistent with the resolutions or principles of other parties.

Zilla Samities exist in the following Districts: Ahmedabad, Kaira, Broach, Surat, Mehsana, Sabarkantha, Banaskantha, Baroda, Panchmahals, Kutch and Saurashtra.

The Party had on its rolls over 1,75,000 members during 1956-57.

In the 1957 general elections, the Parishad contested 16 of the 22 Lok Sabha seats allotted to Gujarat, Saurashtra and Kutch, and 85 of the

132 seats in the State Assembly and extended support to nine P.S.P. nominees.

Of these the Parishad captured 5 Lok Sabha seats, 30 State Assembly seats while three Parishad-supported P.S.P. were returned to the Assembly.

In terms of votes cast, the Parishad secured 15,74,006 votes in Gujarat and Saurashtra in the Assembly elections, while in the Lok Sabha elections it secured 18,55,251 votes.

Subsequently the Parishad returned one nominee to the Rajya Sabha.

The Election Commission has recognised the Parishad as a regional political party and also accepted its election symbol: the rock.

On State basis, the Parishad claimed 9.17 per cent of votes cast, in the 1957 general elections in Bombay.

PEASANTS AND WORKERS PARTY OF INDIA

(Koliwadi, Fanaswady, Bombay 2)

General Secretary : D. B. Desai.

AIMS AND OBJECTS

To promote international relations on the basis of equality and mutual co-operation and strengthen the forces of peace.

To oppose imperialism and all kind of domination by one country of another and to support the movements for national independence and against racial discrimination, all over the world.

To establish People's Democracy as a first step towards the realisation of the final goal of a socialist society in this country.

To nationalise all key and basic industries and control the industries in the private sector to ensure their management in the interests of the country.

To nationalise Banks and the remaining sectors of the insurance business.

To industrialise the country rapidly and ensure labour participation in management.

To abolish unemployment by rapid industrialisation, decentralisation of industries, balanced industrial development of different regions, provision of technical training, promotion of the growth of small-scale and village industries and by increasing the capacity of the existing industries.

To abolish all kind of feudal relationships in agriculture and introduce co-operative farming.

To ensure reasonable prices to the farmers and to entrust the selling, purchasing, processing and warehousing functions to the co-operative societies.

To guarantee minimum wage to agricultural labour and to distribute surplus and Government lands among them.

To guarantee the right of work and a minimum wage to everybody.

To introduce free and compulsory education upto the age of 14 and to subsidise increasingly secondary and higher education. To provide free technical education.

To abolish untouchability by the economic improvement of the Scheduled Castes and Tribes and other backward communities.

Equal rights to women and the enforcement of the principle of equal pay for equal work.

To decentralise the administration and make it responsive to the people's needs and criticism.

To form unilingual States and draw the boundaries of the States on linguistic basis.

Total Membership : As a Marxist Party the membership of the Party is strictly restricted to those who are active workers and devote a major part of their time to party work. The rest are put in the class of sympathisers.

Both classes of members together number about 10,000.

Strength in Lok Sabha : 4.

Strength in Rajya Sabha : 2.

Total strength in State Legislatures : 35 (Bombay Assembly 28, Bombay Council 4, Mysore Assembly 3).

PRAJA SOCIALIST PARTY

(18, Windsor Place, New Delhi.)

Chairman : Ganga Sharan Sinha, M.P.
Deputy Chairman, Surendranath Dwivedy, M.P.
General Secretary : N. G. Goray, M.P.
Treasurer : Asoka Mehta, M.P.
Jt. Secretaries : Prem Bhasin, K. K. Menon.

National Executive : Asoka Mehta, M.P., Ganga Sharan Sinha, M.P., Dr. Prafulla Chandra Ghosh, M.L.A., Surendranath Dwivedy, M.P., P. S. Chitra Durai, M.L.A., H. V. Kamat, K. R. Karant, Tripti Singh, M.L.A., Dr. K. B. Menon, M.P., Prem Bhasin, Harehwar Goswami, M.L.A., Pattom Thanu Pillai, M.L.A., Basawan Sinha, M.L.A., Mir Mushtaq Ahmed, Mukut Behari Lal, Ishwarlal Desai, Suresh Chandra Bannerjee, M.L.A., M. N. Gurupadswamy, Nath Pal, M.P., R. N. Reddy, Genda Singh, M.L.A., Shakuntala Shrivastava, M.L.C., Murlidhar Vyas, M.L.A., N. G. Goray, M.P., Ajit Roy.

There are 18 provincial branches. The number of organized constituency branches would be about 2,000.

The 18 provincial branches are: Andhra, Assam, Bihar, Delhi, Gujarat, H.P., Kashmir, Karnataka, Kerala, M.P., Maharashtra, Punjab, Rajasthan, Tamilnad, Tripura, Utkal, U.P., W. Bengal.

The Party also functions through three different fronts: the peasants (Hind Kisan Panchayat), labour (Hind Mazdoor Sabha), youth (Samajwadi Yuvak Sabha).

The P.S.P. supports the Hind Mazdoor Sabha, which has also the affiliations of unions organized by other parties. The P.S.P. believes that a trade union should be free of all outside influence. The strength of the H.M.S. would be about 4 lakhs. The P.S.P. also functions in a number of smaller unions which are not affiliated to any of the national unions—especially in the railways, posts and telegraphs, banks, insurance and defence industries.

The official organ of the Party is the *Janata*, an English weekly (8, Tulloch Road, Apollo Bunder, Bombay 1). Provincial branches have journals of their own published in the regional languages.

These are :

Janata (Hindi : Patna), *Krishak* (Oriya : Cuttack), *Janavani* (Marathi : Poona), *Socialist* (Urdu : Jullundur), *Pudu Vashvu* (Tamil : Madras), *Chetana* (Gujarati : Surat).

The central office has a publications department which brings out pamphlets, brochures, etc. on relevant subjects.

There is an International Affairs Committee of the Party which keeps liaison with socialist parties in other countries and concerns itself with international affairs.

The P.S.P. is a member of the Asian Socialist Conference. The P.S.P. maintains an observer status with the Socialist International.

Total membership of Party, 1,41,661 (Year 1957-58).

Strength in the Lok Sabha, 19.

Strength in the Rajya Sabha, 8.

Total strength in State Legislatures, 206.

Andhra 1, Assam 6, West Bengal 21, Bihar 33, Bombay 38, Madras 2, Mysore 23, Uttar Pradesh 47, Orissa 11, Madhya Pradesh 12, Rajasthan 1, Punjab 2, Kerala 9.

Total strength in Councils, 25. U.P. 8, Bombay 8, W. Bengal 3, Bihar 2, Mysore 4.

Total number of votes polled in General Elections :
Lok Sabha, 1,16,59,225.

State Assemblies, 1,13,92,500.

Lok Sabha Leader, Acharya Kripalani;
Dy. Leader, Asoka Mehta; **Secretary,** Surendranath Dwivedy; **Whip,** Nath Pal.

Rajya Sabha Leader, Ganga Sharan Sinha.

AIMS AND OBJECTS

The Party believes the reconstruction of the country can best be achieved on the basis of an equalitarian social order free from political and economic exploitation and ensuring personal freedom.

The yearnings of the people for clean and efficient administration and expanding an equitable economy can be realised only through decentralisation in administration and economy.

Village or a group of small villages should be the unit of both administration and economy. Inside the village there has to be full democratic functioning.

Local governments based on the elective principle will be the chief instruments of change in the rural set-up. Local bodies will be endowed with legislative and administrative power, and power over welfare and development departments. Such of those as qualify for it will also be in control of the police except special armed constabularies. After five years of Socialist rule the office of district collector and deputy

commissioner will be abolished. This type of functionary would thereafter work under a panchayat. The local authority will have a share of the revenue amounting to about a fourth of the revenue of the State.

To vitalise rural economy, land must belong to the tiller of the soil. It must be redistributed in economic holdings.

Redistribution will be completed in a five-year period by a Socialist Government; a family of five persons will be left with a maximum of three times the unit of land that a family can cultivate without employing hired labour or mechanical tools.

The Party will foster and encourage co-operative farming and distribution.

There will be co-operatives of various kinds and degrees, operated primarily through the village panchayat.

To bring undeveloped land under cultivation a food army of a million persons will be raised. It will be clothed and housed by the State and a modest salary will also be permitted. After two years when the reclamation is over the food army will have turned into farmers of model villages. There will be an additional production of four million tons of food, and a trained technical personnel of over 10,000 persons.

About irrigation, the main emphasis will be on minor irrigation, particularly earth works. These will be constructed by the voluntary labour of almost the entire adult population who will give an hour's free work.

The Socialist Government will try and implement a policy of parity between agricultural and industrial prices.

The Government will also make efforts to replace land revenue whenever possible by a graded income-tax.

Economic development should be effected mainly with the help of local resources in men, material and skill.

To this end the Party advocates decentralisation of industry.

It also envisages the development of a new technology based on small machines operated by power, capable of distribution in small units.

As regards key industries, foreign trade and the sectors of economy where capital tends to accumulate and power concentrate the policy of the Party will be one of nationalisation.

To enable democratic checks and participation, nationalisation will generally be worked out through autonomous corporations in whose control and conduct the workers, technicians, consumers and other allied interests are represented.

The Party stands for a free trade union movement, that is, trade unionism free from the control of government, employers and political parties.

All incomes must be subject to a ceiling. This will be imposed at Rs. 2,000 at the present level of prices. Other incomes will be adjusted. This may be brought about either through taxation or straight-forward fixation.

Fulllest realisation of civil liberties is one of the major objectives of the Party.

The office of Governor will be abolished. The second chambers in States will also go. Territorial adjustments are to be on a basis of language, economic viability and good administration.

Economic equality and social mobility with democratic functioning are the ultimate guiding principles.

In foreign policy, the party favours a policy of neutrality and non-involvement and co-operation with like-minded forces in other countries.

The tiller of the soil should be the owner of the land and there should be intensive cultivation, parity of price between industry and agriculture, minimum wages for agricultural labour.

Two unilingual States—Maharashtra with Bombay city and Gujarat—should be created in the place of the present bilingual Bombay.

On Kashmir, the policy should be one of firmness combined with friendliness towards Pakistan. Kashmir being an integral part of India there is no question of a plebiscite. On the canal waters, the World Bank award is accepted. But there is a time-limit for Pakistan's acceptance, beyond which India cannot postpone

her development programme. On all other questions like border firing, minorities, India's rights must be fully protected.

Tibet—The National Executive of the Praja Socialist Party feels gravely concerned over the recent developments in Tibet. What was for the last four years simmering under the surface has suddenly erupted into a people's revolution against efforts to liquidate Tibet's distinctive personality—gentle, self-contained and non-aggressive. Between us and the people of Tibet close ties have existed over centuries.

The Executive looks upon the recent events in Tibet as a warning to all who cherish the right of a people to shape their own destiny.

The Executive extends respectful welcome to the Dalai Lama.

The Executive recognises the Tibetans' right to self-determination and extends to them its support.

The Executive is anxious to maintain and strengthen friendly relations between China and India. The Executive further realises that reconciliation between Tibet and China is essential for the growth of trust and peaceful reconstruction in the South, South-East and East Asia.

The Executive is confident that Tibetans needing asylum will be welcome in India.

Land Reforms—The Congress Party seems to rely on the initiative and enthusiasm of local Congress leaders to assume the responsibility for implementation. Even if service co-operatives are immediately organised and ceilings on land are imposed it would mean the beginning of the end of vested interests in the rural areas; and it is difficult to imagine that local Congress leaders would be enthusiastic for such a development. The same can be said about a sole reliance on administrative machinery. It is therefore necessary to entrust the work of organising these co-operatives to agencies wherein all the people interested in co-operatives could work on equal terms.

The Executive is confident that if such a machinery is brought into being and if ceiling on land holdings is immediately imposed with a view to create significant surpluses of land for distribution a suitable climate for these reforms will be created.

Service co-operatives can be organised on a large scale in the immediate future.

Some experimentation on joint co-operative farming can also be tried where circumstances are favourable for it. Where land ceilings are imposed some land is bound to be declared surplus. The landless agriculturists and farmers with uneconomic holdings can be offered the surplus lands, provided they agree to work co-operatively. The response will be considerable if the Government provides assistance in developing cultivation.

Likewise, for the extensive cultivable wastelands which would require considerable investment, co-operative cultivation holds good.

A third sector in which the experiment may be tried with advantage is the areas where cash crops are raised. If these experiments are carried on by people with vision and competence and the principle of voluntary co-operation is strictly adhered to, a new step forward in the organisation of our rural economy will have been taken and conditions created where peasant proprietors might agree to joint cultivation with or without pooling lands.

The Executive recognises the urgency of quickened change and the fostering of co-operative spirit in the country and would welcome an opportunity to put its shoulder to the task.

The Executive also welcomes the decision to socialize the wholesale trade in foodgrains.

The Executive said that a Corporation should be set up to handle the wholesale trade. Steps should also be taken to build up a co-operative structure from the village level upwards to assume the responsibility for the wholesale trade in foodgrains and other essential commodities.

THE REPUBLICAN PARTY OF INDIA

(Gandhi Road, Chanda, Vidarbha.)

President, R. B. N. Shivaraj, M.P.
General Secretary, B. D. Khoharagade, M.P.
The members of the executive are:—M. Krishnaswami, Channa Ram, B. P. Moriya,

Jala Haribhchandra, Chopada, E. Vadapalli, Mrs. Iswaribai, G. K. Maney, M.P., Yashvant Rao Ambedkar, R. D. Bhandari, B. C. Kamble, B. K. Gaikwad, M.P., B. D. Khoharagade, M.P.,

D. A. Katti, M.P., J. C. Admoolam, G. T. Parmar and B. S. More.

Up-to-date details about policy, constitution were not available when the book went to press.

REVOLUTIONARY SOCIALIST PARTY

(780, Ballimaran, Delhi 6.)

General Secretary, Tridib Kumar Chaudhuri, M.P.

Secretaries, N. Shreekanan Nair, Sushil Bhattacharya, Pratul Chaudhuri.

Aims and Objects: To abolish exploitation of man by man, of class by class and to abolish all classes and establish a socialist organization of

society on the basis of the dictatorship of the proletariat. The immediate political objective is the establishment of a union of Socialist Republics in India.

The party is a Marxist Leninist Party and relies on mass and class action. It is organized on the principle of democratic centralism.

Members in the Lok Sabha: one.

Total number of members in the State Assemblies: four.

Total membership of party: 23,193.

The party has branches in Assam, West Bengal, Bihar, Uttar Pradesh, Delhi, Rajasthan, Bombay, Madras and Kerala.

SAMYUKTA MAHARASHTRA SAMITI

(54, Budhwar Peth, Kaka Kuwa Mansion, Laxmi Road, Poona-2.)

General Secretary: S. M. Joshi.

Joint Secretaries: Shivaji Patil, Mrs. Kamal Bhagwat, Haril Bhaskar Bhide.

Chairman of the Parliamentary Board: S. A. Dange.

Treasurers: R. K. Khadilkar, Datta Deshmukh.

AIMS AND OBJECTS:

To establish a unilingual State of all contiguous Marathi speaking areas as a constituent of the Indian Union on the basis of the principle of the linguistic reorganisation of States.

To reorganise the economic, cultural and social life of Maharashtra on the co-operative basis.

NUMBER OF REPRESENTATIVES OF THE SAMITI IN:

Rajya Sabha	3
Lok Sabha	25
Vidhan Sabhas	132
Vidhan Parishads	21

TOTAL NUMBER OF VOTES SECURED BY THE SAMITI IN THE GENERAL ELECTIONS (1957) FOR:

Lok Sabha	50,65,078 (more than 50 %)
Vidhan Sabha	53,23,158

Five Members from Belgaum and 2 from Marathawada are elected to the Mysore State Assembly on the Samiti's ticket.

Two members from Burhanpur are elected to the Madhya Pradesh State Assembly on the Samiti's ticket.

The Samiti has secured an absolute majority in the Municipal Corporations of Bombay and Poona and in the municipalities of Kolhapur, Malegaon, Thana, Manmad, Nashik Road, Dhule, Kalyan, Panvel, Sholapur, Pandharpur, Satara, Kolhapur, Ichalkaranji, Miraj, Jaysingpur, Sawantwadi, Malvan, Bhore, Yevale, Amalner, Hingangaht, Nipani, Belgaum and Ratnagiri.

The Samiti has also secured a majority in the District Local Board of Poona, Sholapur, Thana, Nashik, North Satara, Kolaba, Ahmednagar and Ratnagiri, Usmanabad and Aurangabad.

THE SIKHS

Broadly speaking there are three groups among the Sikhs. One group forming the main body of the Shiromani Akali Dal is led by Master Tara Singh who is also its President. It is in favour of maintaining the separate identity of the Sikh community.

However, at a meeting in Amritsar on 24th Nov. 1956, the Akali Dal adopted by an overwhelming majority four amendments to its constitution by which members were enabled to join the Congress and exclude politics from the Dal's domain.

The Akalis and Sikhs in general accepted the new Punjab of the States Reorganization Act (Pre-reorganization Punjab and Pepsu) and the regional formula with a zonal council for the Hindi and Punjabi speaking areas. The Sikhs are in a majority in the Punjabi-speaking zone, where the court language is Punjabi in the Gurmukhi script. It is estimated that the Sikhs form about 57 per cent of the population of the Punjab zone.

The Akalis are represented in the Congress Government in the Punjab.

But the relations between the Tara Singh group and the rest have always been liable to be disturbed.

In the general elections that followed though one group led by Giani Kartar Singh supported Congress candidates, another group led by Master Tara Singh opposed some though not all Congress candidates.

Besides the Akalis, there is a large body of Sikhs who belong to the Congress. They do not believe that Sikhs as Sikhs should have a separate political identity.

In the elections held in Nov. 1958, a Sikh belonging to the Giani Kartar Singh group, namely Mr. S. Prem Singh Lalpura was elected President of the Shiromani Gurdwara Prabandhak Committee.

The Sikh Gurdwaras (Amendment) Bill which was passed by the Assembly on 31st Dec. 1958 and by the Council on 4th Jan. 1959 was the centre of the controversy among the two groups of the Akalis themselves and the Tara Singh group and the Government.

The Bill seeks to provide for the election of 35 representatives of the Pepsu Gurdwaras to the S.G.P.C. It also empowers the S.G.P.C. to exercise administrative control over selected Sikh shrines in the Pepsu territory.

It is Master Tara Singh's contention that this would make the S.G.P.C. a packed body and open the way to Government interference in Sikh religious affairs.

Actually, undeterred by Master Tara Singh's threats of agitation the Government decided three months later to further amend the Gurdwara Act and published the amending bill in the Gazette of April 3. This Bill seeks to provide for the formation of constituencies and the stipulation of qualifications of candidates and voters for election to the local committees of various Sikh shrines in the State. It allows the carrying of and minor corrections in the schedule of Gurdwaras falling within the preview of the Act.

The differences between the two groups among the Akalis—that of Giani Kartar Singh who is a Minister in the Government, and of Master Tara Singh—and also between Master Tara Singh and the Congress were widening all through the latter half of 1958.

According to Tara Singh this could be ascribed to: The alleged interference in the Gurdwara affairs which led to the defeat of Master Tara Singh in the S.G.P.C. elections, the alleged encouragement given to Giani Kartar Singh to divide the Sikhs, the Congress refusal to redistribute the boundaries of the Punjab on a linguistic basis, the half-hearted implementation of the regional plan embodying the Sachar language formula, the inadequate representation of Sikhs in the services and the alleged corruption and nepotism in the administration.

These, broadly speaking were Master Tara Singh's charges against the Congress.

Though the demand for the Punjabi Suba was revived the main charge was Government interference in the religious affairs of the Sikhs.

In the middle of Feb. 1959 the Shiromani Akali Dal decided to abrogate the Congress-Akali Pact and revive political activity.

On March 12 Master Tara Singh was arrested at Amritsar under the Preventive Detention Act and was taken to Dharamsala. Two days later he wrote a letter to Mr. Nehru which carried a plea for the appointment of an arbitrator to enquire into the charge that the new Gurdwara Act made interference in the religious affairs of Sikhs possible. On 19th March he wrote again to say that unless he got a reply to his letter by 24th March he would go on a fast unto death. On 21st March he was released from Yole camp and driven to Amritsar.

On 6th April he wrote to the Prime Minister informing him of his decision to fast unto death—the fast to commence on 16th April in New Delhi.

A meeting then took place between the Prime Minister and Master Tara Singh at which an agreement was arrived at on the question of religious interference.

Previously the Prime Minister had rejected a demand for the appointment of an arbitrator to determine alleged Government interference. Master Tara Singh had mentioned that any one of the following would be acceptable to the Akalis as arbitrator: Vinoba Bhave, Mr. Rajagopalachari, Mr. Jaysaprakash Narayan.

Following the talks between Mr. Nehru and Master Tara Singh on April 12 a statement was issued. It said that it was common ground that there should be no interference. Since however complaints had been made some machinery should be devised to ensure the implementation of the policy of non-interference in Gurdwara management and to consider any complaints of such interference. A committee would be constituted for this purpose. The Committee would consist of two persons nominated by the Government and two by the President of the Akali Dal. It will consider allegations of interference and suggest remedial action where possible. Where there is disagreement the matter would be referred to the Governor of the Punjab.

Any amendments to the Gurdwaras Act should be undertaken only after obtaining the approval of the general committee of the S.G.P.C. A convention may be established that such approval would be by a two-thirds majority. The general elections to the S.G.P.C. should be held as early as possible.

If any difficulty arises in the implementation of the above proposals Mr. Nehru would help.

Almost immediately the Prime Minister wrote to the Governor of the Punjab to take early steps to give effect to the Nehru-Tara Singh agreement in the matter of the nomination of two members to the Committee.

Master Tara Singh claimed this as a victory for the Akali Dal and asserted that the agreement had in effect shelved the proposals of his 'opponents' to hand over the management of the Sikh shrines to a trust and dissolve the S.G.P.C.

The mass hunger strike and hartal which were to have been observed by Akali Sikhs were abandoned and Master Tara Singh also announced his decision not to go on a fast unto death on 16th April as originally decided.

But the Kartar Singh group which was in control of the S.G.P.C. came out with a flat condemnation of the agreement. In a statement issued on 14th April in Amritsar Mr. Prem Singh Lalpura the President of the S.G.P.C. and Mr. Amar Singh Dossanj the General Secretary in a joint statement described the agreement as a 'an open, unequivocal and naked interference by the Government in Gurdwara affairs'. According to the Sikh religion disputed religious matters were to be referred to the five Playaras sitting under the auspices of the Holy Akal Takt, the highest seat of Sikh religious authority. The S.G.P.C. officials, however, welcomed the part of the agreement by which Gurdwara legislation would not be amended without the S.G.P.C.'s approval. But this, they said, was an old convention accepted by all.

Opposition, however, hardened when three days later the General Secretary of the S.G.P.C. declared that the S.G.P.C. was opposed to the setting up of the four-man committee and indeed did not feel bound by the Nehru-Tara Singh agreement. The official threw out a hint that the S.G.P.C. might boycott the four-man committee.

On April 23 the S.G.P.C. at its general meeting in Amritsar adopted a resolution by an overwhelming majority condemning the Nehru-Tara Singh agreement in regard to the S.G.P.C. as a direct attack on the religious freedom of the S.G.P.C. No individual or organization had any right to do anything on behalf of the S.G.P.C. The S.G.P.C. would not be bound by any opinion or decision of the proposed four-man committee.

Meanwhile a development which might mark a turning-point in Punjab politics took place. This is an agreement between the Akali Dal and the Praja Socialist Party to work jointly for 'uprooting corruption, ending nepotism and solving the problems of the Punjab peasantry.' This was announced in a joint statement issued after a meeting attended by Master Tara Singh and Mr. Ganga Sharan Sinha the Chairman of the P.S.P. The two organizations would for the present maintain their separate identities but joint working may result in something new. Work among the peasantry might be carried on through the P.-S.P. sponsored Kisan Panchayat or some other organization might be set up.

It was believed that the agreement would have far-reaching repercussions. In the rural areas there would be a joint front against the Communists whose growing strength manifested itself in the anti-betterment levy agitation. It might also weaken the Congress-Akali alliance and Master Tara Singh might soon give a call to Akali workers to resign from the Congress and join the P.S.P.

SOCIALIST PARTY

(Central Office : 3-6-19, Himayatnagar, Hyderabad.)

Chairman : Bhupendra Narain Mandal.
General Secretary : R. M. Manakalath.
National Committee :

O. N. Dorai Babu (Tamil Nad), Ajit Kumar Sharma (Assam), Bera Thakur Shastri (Manipur), Ram Kishan (Rajasthan), Ram Sewak Yadav (Uttar Pradesh), Dinesh Das Gupta (West Bengal), Maniram Shrawat (Punjab), Jagdeo Prasad (Bihar), Ram Lakhan Chandapuri (Bihar), Upendra Nath Verma (Bihar), Mukund Singh (Uttar Pradesh), Shaqiq Ahmed Tatar (M.L.C.—U.P.), Kumari S. Saraswati Ammal (West Bengal), Mulchand (M.L.A.—U.P.), Ram Piyare Sharma (Gujarat), Arjun Singh Bhadoria (U.P.), Abdul Subhan (Andhra), Baleshwar Nayal (Madhya Pradesh), Chotey Lal Bhardwaj (Madhya Pradesh), Mrs. Shanti Nayak (Bombay), Ravi Roy (Orissa) and Gopal Gowda (Mysore).

AIMS AND OBJECTS

National : To establish a socialist society through a democratic and peaceful revolution.

International : To end inequality among the nations and establish a World Parliament and a socialist world.

It accepts large-scale industry wherever necessary and power driven small industry wherever possible.

The Socialist Party will take measures to narrow down existing differences of incomes aiming at a ratio of 1 : 10.

Will democratise the constitution as well as the administration in the directions both of decentralisation and people's control.

The police will not be allowed to open fire on the people except in the event of armed insurrection or killing by the crowd.

Believes that people's right to civil disobedience must be recognised as much as Government's right to arrest and imprison under due processes of law.

All Government employees except the army and armed police will have unfettered political rights.

Private ownership of land about 3 times the size of the minimum holding, that is a holding which a family of five can cultivate without employing hired labour or heavy mechanisation, will be permitted. All land in excess of these will be distributed among poor peasants and landless labourers. Common lands which have been usurped by private individuals will be returned to the village. Land tax on profitless agriculture and uneconomic holdings will be abolished.

Agricultural labourers will have a guaranteed fair wage. Ejectments will be banned.

Will nationalise all main industries like iron and steel, engineering, sugar, textiles, cement, mines, electric power and chemicals. All foreign capital invested in the country will be nationalised.

Rejects the concept of property compensation, and accepts instead the concept of rehabilitation compensation.

In the nationalised sector workers will have adequate and effective representation in the State Corporations. In the private sector too representation will be provided in the management, but this would not in any way affect the right to strike or other rights inherent in collective bargaining.

Will meet the challenge of unemployment adequately, and until then the Party will agitate for payment of reasonable unemployment relief to the unemployed.

English must be eliminated forthwith from all Government and public use.

The medical profession will be progressively socialised and the Socialist Government will provide for free medical treatment to large sections of the population.

Aims at India's dissociation from the Commonwealth.

Will enact legislation providing the right of recall.

The Socialist legislator or successful candidate pledges to wipe out illiteracy in his constituency under a phased 10 year programme.

He will equip his constituency with regularly functioning manure pits and Wardha latrines.

He will organise minor earth-works, particularly for irrigation, wherever possible and they will also help set up small-unit industry preferably run on power.

State Trading :—Mere State trading is no substitute for a comprehensive food policy. The immediate need is to regulate the prices of foodgrains so that : (1) the peasant gets an adequate price for his produce and (2) the price of foodgrains does not increase between two harvests by more than one anna per seer. State trading will merely replace the wholesale private dealers by Government bureaucrats. The common man's plight will remain the same.

Tibet :—The mistake in the Tibet policy was really committed nine years ago, when India acquiesced in the Chinese aggression on Tibet. That was the time when the rights of India and China, should have been abrogated, and Tibet made an independent state, like Nepal, with guarantees from both countries. Today the Indian Government's protest merely reflects the shift in its foreign policy : its neutrality is gradually being tilted in favour of the Atlantic block as for sometime in the past, it was pro-Soviet.

U.S. Arms Aid to Pakistan :—would further worsen the prospect of Indo-Pak amity. However, it is time that the whole Indo-Pak question should be viewed from a comprehensive angle. The people in both the countries should mentally accept partition as a settled fact and make federative approaches.

SWATANTRA PARTY

(19, Race Course Road, Bangalore)

The Swatantra Party was established in Madras on June 4, 1959, at a meeting convened by the All India Agriculturists' Federation, with Mr. C. Rajagopalachari in the Chair.

It was also decided at the time that a preparatory convention to take steps towards the formation of the Party should be convened on August 1 and 2 and that a final convention should be convened in December 1959.

For the interregnum the following provisional office-bearers were nominated to look after the affairs of the party :

Chairman : Professor N. G. Ranga.
General Secretaries : V. P. Menon, Jinaraja Hegde.
Treasurers : Sir Homi Mody, B. V. Narayana Reddy.

The following Statement of Principles was adopted at the meeting :

We are of opinion that social justice and welfare can be reached more certainly and properly in other ways than through the techniques of so-called socialism.

We hold that social justice and welfare should not be sought to be brought about by violence or State compulsion with all their necessary accompaniments of injustice, expropriation, and repudiation of obligations but must be brought into being by the spread of the doctrine of trusteeship adumbrated by Gandhiji.

We stand for every effort being made to preserve what is good in our culture and to replace by spiritual values the materialistic philosophy of life that has resulted from the efforts merely to raise what is called the standard of life.

We believe that all the educational activities of the Government, direct and indirect, should be such as to emphasise the moral obligation of those who possess wealth to hold it in trust for society, and a doctrine of life based on that

moral obligation as distinguished from seeking to establish a socialistic structure based on legislative sanctions, involving expropriation and loss of incentive for the individual to work, and increasing dependence on the State and its officials in every walk of life.

We are opposed to all those policies and forecasts of future Governmental action which have created an all-pervading and deep sense of uncertainty, drying up all interest in land and factory alike.

In agriculture, we recognise the paramount need for increasing food production, but believe that it is best attained through the continuance of the self-employed peasant-proprietor who stands for initiative and freedom and is interested in obtaining the highest yields from the land.

We believe in an intensive programme of agricultural improvement without disturbing the harmony of rural life amongst the elements that compose it, but by promoting the material and psychological inducements for more production.

We should in special seek to introduce a more intensive programme than is now being followed in respect of the supply of material, implements and credit to the farmer without in any way interfering with the cultivator's rights of ownership, management and cultivation of the land.

We believe in the need for every kind of servicing for agriculture, but are opposed to cultivation through organisations which are a loose kind of multiple ownership, certain to sap the incentive of the farmer, reduce farm output, and end in a collective economy and bureaucratic management.

We believe that the level of life of the farmer can be raised by taking steps to maintain a reasonable and fair price for his produce.

In industry, we believe in the encouragement of the incentives for higher production and expansion which are promoted by competitive

enterprise, with adequate safeguards against excessive and unreasonable prices, profits and dividends where the competition itself does not secure these ends.

We stand for the restriction of State enterprise to heavy industries to supplement private enterprise in that field, such national services as railways, and the starting of pioneer industries where private initiative is difficult.

We believe that taxation should be kept at such levels that it does not interfere with reasonable living standards for the people, both rural and urban, and which, while being necessary and sufficient for the carrying on of administration, nation-building and social services, is yet not so high and exacting or so ubiquitous as to prevent capital-formation and investment by individuals.

We are opposed to urgent and lop-sided development based on heavy taxation, deficit financing and foreign loans out of all proportion to economic repayment-capacity.

We are opposed to policies which lead to excessive and immediate inflation.

We hold that the guarantees specified in the original Constitution in respect of freedom of property, trade, employment and just compensation for any property acquired for public purposes should be restored.

We are against the expansion of bureaucratic services which involves the bringing into being of "Statism" with a hierarchy of officials made to do work which is best done privately and independently and an unproductive waste of national resources.

We believe that the State will best serve its citizens by giving facilities for a proper decentralised distribution of industry and limiting its regulatory function to the prevention and punishment of financial activities whenever called for.

SOME WOMEN'S ASSOCIATIONS

ALL-INDIA WOMEN'S CONFERENCE

Address : 6, Bhagwandas Road, New Delhi.

Office bearers (1959-60) :

President : Smt. Raksha Saran.

Vice-Presidents : Smt. Saraswathy Giri, Smt. B. Tarabai, Smt. Jayashri Rajji, Smt. M. S. H. Jhabwala, Smt. Vijayaraja Meludla, Smt. Indira Devi Deodhar.

Hon. Gen. Secretary : Smt. Sarojini Varadappan, 15, Warren Road, Madras 4.

Honorary Treasurer : Smt. Kunti Sondhi, 5, Atta-Ul-Rehman Lane, Underhill Road, Delhi.

Hon. Secretary, A.I.W.E.F. Association : Smt. Pushpa Mehta.

Hon. Gen. Secretary, Village Mobile Health Van Committee (A.I.W.C. SKIPPO) : Smt. Gulab Dalal.

Members-in-charge, Departments :

Legislation : Smt. Shyamkumari Khan.

International Relations : Smt. Mithan J. Lam.

Asian African Conference : Smt. Avabai Wadia.

Handicrafts : Begum Husain Ali Khan.

Constitution : Smt. Urmila Mehta.

Editor, 'Roshni' (English) : Smt. Tapati Mukerjee.

Education : Smt. Kusum C. Shah.

Socio-Economics : Smt. Phulrenu Guha.

Sarojini Naidu Margaret Cousins Memorial Fund : Smt. Vijayaraja Meludla.

Margaret Cousins Memorial Library : Smt. Dr. Bina Roy.

Executive Committee : Smt. B. Tarabai, Convener.

The Conference was started in 1926 and is the oldest women's welfare organization in the country.

It publishes a monthly journal in English and Hindi called *Roshni*.

There are 39 branches in :

Ajmer, Andhra, Assam, Baroda, Bengal Central, Bengal West, Berar, Bhavnagar, Bhopal, Bihar, Bombay, Calcutta, M.P. North, M.P. South, Cochin, Delhi, Gujarat, Gwalior, Hyderabad, Indore, Jath, Junagadh, Karnatak, Kolhapur, Konkani, Madras, Maharashtra, Malabar, Mysore, Orissa, Phaltan, East Punjab, Patiala, Rajasthan, Rangli, Tamilnad, U.P., Agra and Kashmir with about 275 constituent branches and 54,600 membership.

BOMBAY STATE WOMEN'S COUNCIL

Address : Town Hall, Bombay 1.

Office bearers :

President : Mrs. Gulestan R. Billimoria.

Vice-President : Mrs. Sushila D. Joshi.

Hon. Treasurer : Mrs. Padmavati B. Saraiya.

Executive Secretary : Mrs. Hilla D. Dadina.

There are branches in Ahmedabad and Poona.

Thirty-four societies are affiliated to the B.S.W.C.

There are committees for :

Rescue, Home, Women's Home, Industries Depot, Labour, Parliamentary Affairs, Education, Children's Library, Health, Haj, Funds Collecting, Child Welfare, Social Education, Children's Films, Small Savings, Bapnu Ghar, Beggar Problem and Children's Recreation. There is also an *ad hoc* milk distribution committee.

B.S.W.C. has 1,263 members.

FEDERATION OF UNIVERSITY WOMEN IN INDIA

Affiliated to the International Federation of University Women, with headquarters in London.

Address : 14/1, IV Street, Abhiramapuram, Madras 18.

There are branches (organized on University basis) in :

Bombay, Madras, Poona, Nagpur, Delhi, Lucknow, and Allahabad. Sub-Branch : Kodalkanal.

One of the chief aims of the Indian Federation is to promote friendship and understanding among the University women of different nationalities. Number of University women in India is about 40,000.

NATIONAL COUNCIL FOR WOMEN IN INDIA

Founded in 1925.

Affiliated to the International Council of Women.

Head Quarters Office :

Ground Floor, Kashmir House, 94, Nepean Sea Road, Bombay 6.

Present Office Bearers :—

President : Smt. Saraladevi Sarabhai; Vice-Presidents : Smt. Taraben M. Premchand; Smt. Nitroji B. Shome; Miss S. B. Das; Smt. Vimla Virmani Hon. Gen. Secy. : Smt. Leela-hai Phadke; Hon. Treasurer : Lady Vasulabai Chandavarkar.

Affiliated State Councils : Bombay State Women's Council, Bombay; West Bengal Council of Women, Calcutta; N.C.W., Lucknow; National Council of Women in India (U.P. Branch), Allahabad; National Council of Women in India, Nagpur; National Council of Women in India, Jamshedpur; Orissa Nari Seva Sangha, Cuttack; National Council of Women in India, Simla; Delhi State Council of Women, Delhi; Assam Provincial Mahila Samiti, Gauhati; Bihar Council of Women, Patna.

Affiliated Societies : Trained Nurses Association of India, Delhi; Young Women's Christian Association of India, New Delhi; Association for Moral & Social Hygiene in India, New Delhi.

Standing Sectional Committees on : (Conveners) :

Legislation : Smt. Sarojini Mehta, Bombay; Education : Smt. S. Bhandarkar, Poona; Bulletin and Editor of the Bulletin : Smt. Vimla Virmani, Delhi; Child Welfare : Smt. Anila Dey, New Delhi; Village Welfare : Smt. Anila Dey, New Delhi; Health & Hygiene : Dr. (Smt.) M. J. Wadia, Bombay; Prison Reforms : Smt. Shudha Masumdar, Calcutta; Handloom & Small Scale Industries : Smt. Kety Shroff, New Delhi; Welfare work for Harijans and Backward & Scheduled Classes : Smt. Usha Bahl, New Delhi; Welfare work for Adolescents : Smt. J. Jaipal Singh, New Delhi; Small Savings Scheme : Smt. S. Ram Lall, New Delhi; Khadi & Village Industries : Smt. Tarabai Premchand, Bombay; Co-operation with Bharat Narak Samaj : Smt. Priyadarshini Atal, New Delhi; Co-operation with UNESCO : Madame Sophia Wadia, Bombay; Women's Co-operatives : Smt. Lilavati Banker, Bombay;

Trades & Professions : Smt. Malini Khan, Poona; Delinquency & Rehabilitation : Smt. Tarunica Dehejia, Bombay; Moral & Social Hygiene : Smt. Malinibai Paranjpe, Poona.

SIR RATAN TATA INDUSTRIAL INSTITUTE

Address : Hughes Road, Bombay 7.

Office bearers :

President : Lady Navajbai Ratan Tata.

Vice-President : Lady Jerbai S. Billimoria.

Hon. Gen. Secy. : Mrs. Dinbai F. S. Patuck.

Hon. Treasurer : Mrs. Shirin S. Talati.

The Sir Ratan Tata Industrial Institute founded in 1928 by the Trustees of Sir Ratan Tata is a unique centre raised to the memory of an illustrious member of the famous House of Tatas.

For 31 years, this Institute has helped to partially solve the problem of poverty and distress among Parsi families from the lower income groups, by encouraging girls and women to earn a living through suitable industries.

The average number of women employed during 1958 was 241 and the wages paid Rs. 2,46,158.

The amenities provided were : towards meals, Rs. 47,950; towards conveyance, Rs. 5,861; prize distribution, Rs. 750; bonus, Rs. 19,621.

The departments run by the Institute are Catering, confectionery, laundry, dyeing, hand embroidery, machine embroidery, bambino and sewing.

The Institute started a perfumery department in October 1954.

Total sales during 1958 amounted to Rs. 11,06,043 which included Catering; Confectionery Rs. 3,49,474; Hand Embroidery Rs. 67,953; Sewing Rs. 24,001; Laundry Rs. 9,375; and Dyeing Rs. 11,091; Machine Embroidery Rs. 38,658 and Card department Rs. 249.

YOUNG WOMEN'S CHRISTIAN ASSOCIATION

This is a Christian Association with membership and programme participation open to all women irrespective of race, class or creed. It is linked to similar organisations in 66 countries through affiliation to the World Y.W.C.A.

Address : Parliament Street, New Delhi.

Office bearers :

President : Mrs. Achamma Matthai.

Vice-Presidents : Rani Maharaj Singh; Raj Kumari Anurit Kaur; Mrs. L. Pithavadian; Mrs. Tharyan Verghese; Mrs. R. K. Sirkar; Mrs. V. V. Joshi.

National Gen. Secy. : Miss Ivy Khan.

There are branches in all the large towns and cities. In addition there are Youth groups known as "Y-Deepas."

Holiday Homes are to be found in the hill stations of Ootacamund, Coonoor, Darjeeling, Mussoorie, Naini Tal and Simla.

Hostels are maintained in 20 centres.

The programme is varied to meet the needs and interests of all members and the community. Welfare work has always been promoted in rural areas, vocational training classes and employment bureaux are special features of the programme in local centres as well as recreation and Health education.

WHO'S WHO IN INDIA

ABDULLAH, Shafiq Mohamed, ex-Prime Minister, Jammu and Kashmir. b. 1908, in Soura, near Srinagar; *Educ.*: Srinagar; Jammu; graduated with distinction from Lahore; M.Sc., Aligarh Univ.; while at Kashmir College he formed a Students' Union. 1927. Was a science teacher in the State High School; initiated a regular campaign for responsible Government, crystallising in the formation of the Kashmir Muslim Conference; created political consciousness among the people and took the opportunity of converting the Muslim Conference into the National Conference in 1938; launched the 'Quit Kashmir' movement, 1946, which aimed at complete democratisation of Kashmir; was put in prison; elected Pres., All-India States Peoples Conference; released, 1947; organised a Peace Brigade to maintain communal harmony in the State; organised national defence against the tribal raiders; was invited by the Maharaja of Kashmir to be the Head of the Emergency Administration at the time of the signing of the Instrument of Accession; member, Kashmir Delegation from India to the U.N.O.; M.P. for Kashmir till 1952; was detained for 44 years from Aug. 9, 1953; released, Jan. 8, 1958; detained again, May 1, 1958 under the Preventive Detention Act. *Address*: C/o Soura, P.O. Noushera, Srinagar.

ABID AH, Deputy Minister for Labour, Govt. of India. b. 1900. Started life when 13 as Mill Mazdoor and hawker, Kanpur Mills, 1913-16; Govt. service at Wardha, 1916-20; resigned to join non-co-operation movement, and Khilafat organisations, 1921; Secy.: Wardha Khilafat and Congress Ctees.: C.P.P.C.C., 1923; organised and conducted National Flag Satyagraha Ctee., 1923; became its Secy.; sentenced 22½ months; Secy., Indian Assoc., Singapore, 1927-28; deported from Singapore and Malaya for anti-Govt. activities, 1927-28; joined Bardoli struggle, 1928; General Secy.: B.P.C.C., 1929-34; Congress Reception Ctee., Bombay, 1934; member: A.I.C.C., for several years now; Bombay Legislative Council, 1949-52; organised and conducted Salt Satyagraha in the freedom movement; participated in all national struggles; arrested about a dozen times; was opposed to the formation of Pakistan; organised Bihar earthquake relief on behalf of Bombay, 1934; Trade Unionist since the age of 13; among founders of the I.N.T.U.C., 1917; its Vice-Pres.; Founder and also Office-bearer of large number of Trade Union Organisations; Pres., Bombay Prov. N.T.U.C., 1948-51; represented Indian workers in International Conferences thrice; Leader, Indian Delegation to I.L.O. conference, Geneva, 1953 and Asian Reg. Conf., Tokyo, 1953, Delhi, 1957; widely travelled; believes in Gandhian ideology. *Address*: Secretariat, New Delhi.

ACHARYA, Bejoy Krishna, B.A. (Hons.) (Econ.) (Calcutta), Indian Ambassador in Czechoslovakia and Rumania, since May 1959; b. May 1, 1912; *Educ.*: Calcutta and London Universities. Entered I.C.S., 1936; held charge of several important Bengal districts like Howrah, 24 Parganas, Bakarganj & Darjeeling; served as Dewan of Tripura & Dy. Chief Commissioner, Himachal Pradesh; Deputy High Commissioner for India at Dacca; Indian Minister in Cambodia; Jt. Secy., Ministry of External Affairs. *Recreations*: Motoring; Photography. *Club*: Delhi Gymkhana Club. *Address*: C/o External Affairs Ministry, New Delhi.

ADANI, Ratanbhai Mulshankar, Minister for Prohibition, Village Panchayat and Cottage Industries, Govt. of Bombay, since Nov. 1, 1956. b. at Bhanwad in Halar Dist. Left studies early in 1930 to join Satyagraha Movement; courted imprisonment several times; started

constructive work at Tarawada after his release from jail in 1934; went underground in 1942 and was active in the Quit India movement; was C.-in-C., Azadi Hakumat organised in 1947 to liberate Junagadh from Pakistan; elected member, Saurashtra Leg. Assembly in 1951 from Keshod (Constituency and appointed Minister for Development and Planning, 1951. *Address*: Sachivalaya, Fort, Bombay 1.

ADARKAR, Bhaskar Namdeo, M.A. (Cantab.), B.A. (Bombay Univ.), M.B.E. (1946), Executive Director, International Monetary Fund, Washington, since June 1957 and Indian Minister in Washington since Oct. 1958. b. May 18, 1910; *Educ.*: Wilson Coll., Bombay; Gonville and Caius Coll., Cambridge. Agent, Bank of India, Ltd., Bombay, 1938; Research Officer to the Economic Adviser to the Govt. of India, 1938-40; Chief Research Officer, 1940-41; Under-Secy. to the Govt. of India, Commerce Dept., 1941-43; Asstt. Economic Adviser to the Govt. of India, 1943-45; Dy. Economic Adviser to the Govt. of India, 1945-49; Member, Indian Tariff Board, June-Nov. 1949 and May 1950-Jan. 1952; Member, Indian Tariff Commission, January 1952 to March 1957; Officer on Special Duty, Ministry of Finance, April June, 1957; Secy., Reconstruction Ctees., 1941-43; Govt. of India's Delegate to Preparatory Ctee. on Trade and Employment; Drafting Ctee. of that Ctee., Havana Conference on Trade and Employment, E.C.A.F.E. Sessions and meetings of the I.T.O. *Publications*: *Indian Tariff Policy*; *Devaluation of the Rupee*; *The Gold Problem*; *History of the Indian Tariff*; and several official publications. *Address*: I.M.F., Washington

ADVANI, Pritamdas Bhojraj, M.Sc. Tech. (Mech.), M.I.E. (India), Consulting Engineer and Industrial Adviser; Director: New



India Fisheries Ltd.; Bharat Barrel and Drum Mfg. Co. Ltd.; Automobile Products of India Ltd. b. May 21, 1891; *Educ.*: Hyderabad, Sind & Manch. Univ. Engr., Metropolitan Vickers in their Manchester Works and Bombay till end of 1921 and thereafter Manager, Bombay Region till Aug. 1928; Director of Industries, Govt. of Bombay from August 1928 to January 1944; Chairman, Board of Direction for Technical Education and Industrial Training, Bombay till Oct. 1944; Chairman, Board of Trustees, Victoria Jubilee Technical Institute, Bombay, 1938-48; member, Bombay Legislative Council, 1932-36; on special duty in U.S.A., 1939 in connection with proposal for the establishment of the automobile industry in Bombay; Member of Senate, Bombay University, 1931 to 1945; Member, Central Board of Irrigation and Power; Electrical Commr., Govt. of Bombay, 1944-51. *Address*: "Oceana," Netaji Subhas Road, Bombay.

ADVANI, Tilumal Menghraj, M.A., LL.B., Principal, Jai Hind College, Bombay, since June 1948 and Vice-Chancellor, Univ. of Bombay, since March 1957. b. March 26, 1888; *Educ.*: Navalrao Hiranand Academy, Hyderabad (Sind); D. J. Sind College, Karachi; B.A. in 1908 in High Second Class; M.A., 1909 with Languages and Literature (English and Persian); LL.B., 1911; Bakhshia Fellow, D. J. Sind Coll., Karachi, 1908-09. Prof. of English: D. A. V. Coll., Lahore, 1912-14; S. P. Coll., Srinagar, March 1914; D. J. Sind Coll., Karachi, 1914-17; Principal, D. J. Sind Coll., Karachi, 1947-48; Member of the Senate, Univ. of Bombay from 1930; Univ. Delegate

to the Conference of English Teachers in Lucknow and in Allahabad and presided at the latter; visited U.K., France, Germany, Italy, Switzerland and Holland, 1951 and again, 1954; as Official Guest of the British Council, saw all the important Univs. in the U.K., 1954; also saw the Univ. of Sarbonne (Paris), Heidelberg (Germany), Milan (Italy), and Geneva (Switzerland); attended the quinquennial Congress of the Assoc. of the Vice-Chancellors of the British Commonwealth, Montreal and Toronto (Canada) and visited several Canadian and American Univs., Aug.-Sept. 1958. *Publications*: Commentaries on several English Classics. *Recreations*: Swimming; Gardening. *Club*: Willington Sports Club. *Address*: Jai Hind College, Bombay 1.

AGARWALA, Jagdish Prasad, M.A., B.Com., Banker, Landlord and Millowner. b. July 1913, in Uttar Pradesh; *Educ.*: St. John's Coll. Entered business at an early age; Managing Proprietor, Educational Press, Agra; Partner in the Managing Agency of Oriental Publishers (Agra) Private Ltd.; Partner: Gaya Prasad & Sons, Booksellers and Publishers; National Press; Central Manufacturing Co.; Univ. Book Depot; Prasad Bros.; Popular Book Depot, Jaipur; Mitra Prakashan; Director and Treasurer, National Chamber of Commerce and Industries; member: League of Help; International Fellowship; Rotary Club of Agra; Hony. Secy., U.P. Automobile Association; sponsored the All India Seth Gaya Prasad Memorial Cricket Tournament; President, Publishers' Assoc.; Vice-Pres.: Agra Athletic Assoc.; Agarwala Panchayat; St. John's Coll. Old Boys' Assoc.; Rotary Club; Joint Secy., Akhil Bharati Seva Samiti, Agra Branch; Trustee, Victoria Higher Secondary School. *Publications*: Several Hindi and Economic books including *Rashtra Nirmita*, life sketch of Indian leaders, *Elementary Economics in Hindi for Beginners*, books on Co-operation, Statistics and Transport for M.A. students. *Recreations*: Music, Cricket and Sight-seeing. *Clubs*: Agra Rotary Club; Agra Club Ltd. *Address*: Gaya Kunj, Bankoy Villas, Agra.



AGARWALA, Bhagwati Prasad, Business man mainly in Coal Mining and Refractory Manufacturing. b. July 12, 1910; *Educ.*: St. Xavier's Coll., Calcutta. Carried on family business after the death of his father, 1928; subsequently added Jharla Firebricks and Pottery Works and a few Coal Mines; has agency business also; has been Pres.: Indian Colliery Owners' Assoc.; Bihar Chamber of Commerce, The Geological Mining and Metallurgical Society of India; attended several I.L.O. conferences in U.S.A. and Europe as employers' representative from India, 1948-53. *Publications*: Various articles contributed to Newspapers and Journals on Coal Industry. *Recreations*: Travelling; Painting. *Clubs*: Rotary Club, Dhanbad; Sindri Club, Sindri. *Address*: P.O. Jharla (Bihar).

AGARWALA, Nursing Das, Industrialist. b. Feb. 8, 1905; *Educ.*: At home. Joined the business of Nursing & Co., 1922. Commenced industrial career in 1925 by establishing Tatanagar Foundry Co., Ltd., Tatanagar to manufacture C. I. Casting for Railway; established National Iron & Steel Co., Ltd. at Belur to manufacture rods and round bars—ferrous and non-ferrous, 1935; established National Screw & Wire Products at Belur, 1941 and Airways (India) Ltd., 1946; acquired the Managing Agency of Britannia Building & Iron Co., Ltd., 1948; is connected with

many other industrial concerns; takes active interest in social service; is associated with Barabazar Central Mahalla (Tree, and several other social organisations; the Delhi Univ. annual award for the best Bengali book of the year is donated by him. *Publications*: *Hindu Muslim Question: India and the World*; *Gram*; *Simplified Income-Tax*; *Bharati Ek Jalak*. *Recreations*: Travelling, Reading. *Clubs*: Rotary Club, Calcutta; P.E.N.; Hindusthan Club. *Address*: 280, Lower Circular Road, Calcutta.

KORAWALA, Dr. Vasudeva S., Ph.D., D.Litt., Hindi Writer; Professor, Banaras Hindu University. *b.* 1904; *Educ.*: Banaras Hindu Univ. (1923-27); Lucknow Univ. (1927-31); took Ph.D. 1941 and D. Litt., 1946. Curator, Mathura Museum (1931-39); Curator, Lucknow Museum (1940-46); Supdt., Museums Branch of the Archaeological Survey, Govt. of India, New Delhi (1946-51); (on deputation) Professor, Art and Architecture, Banaras Hindu Univ. (1951-56); Editor, *Glory of India Series*, Literature Place, Lucknow; General Editor, *Prakrit Text-Society Series*, Publications: *Catalogue of the Mathura Museum*; *India as Known to Panini*; *Harshacharita—A Cultural Commentary*; *Jayasi Padmarata—A Commentary*; *Bharata-Savitri—A Running Cultural Commentary on the Mahabharata*; *Kadambari—A Cultural Commentary*; *Markandeya Purana—A Study*. *Address*: Professor, Banaras Hindu University, Banaras 5.

KEMAD, Mr. Justice Khaleel, B.Sc., LL.B., Bar-at-Law, Judge, Patna High Court. *b.* April 4, 1907; *Educ.*: Patna, Aligarh and U.K. Practised first in the Dist. Court, Patna and then at the Patna High Court; raised to the Bench, 1951. *Recreations*: Golf, bridge. *Clubs*: The Bankipore Club, Patna. *Address*: 3, King George Avenue, Patna 1.

KEMAD, Musaffar, Member, National Council of Communist Party of India; member of the Secretariat, West Bengal State Committee, C.P.I. *b.* 1889; *Educ.*: Noakhali Zilla School and Bangabasi Coll., Calcutta. Member, Communist Party of India since its inception, 1921; Editor of Bengali daily *Nayag*, 1920; also edited Bengali weekly *Ganapati* (1928-28); convicted in Cawnpore Communist Conspiracy Case, 1924; convicted in Meerut Communist Conspiracy Case for transportation for life, but reduced to three years' R.I. by Allahabad High Court. *Publications*: *A Treatise on Agrarian Question in India*, 1937; contributes articles to papers. *Address*: 64A, Lower Circular Road, Calcutta 16.

KEMAD, Syed Maqbool, B.A. (Cal.), B.L. (Pat.), Minister for P.W.D., Local Self-Govt., Public Health and Housing, Bihar State. *b.* 1907; *Educ.*: Calcutta and Patna; B.A. from St. Paul Coll., Calcutta; B.L. from Patna Univ. Participated in the non-cooperation movement while a student in Calcutta under the leadership of Maulana Abul Kalam Azad and joined the National Vidyapith and Nadakat Ashram at Patna; elected to the Bihar Legislative Assembly from the Colgong double-member constituency in Bhagalpur Dist.; was a successful lawyer on the criminal side; has represented his constituency in the Bihar Assembly from 1946. *Address*: 10, Circular Road, Patna.

KEMAD, Dr. Rafiquddin, D.D.S. (Iowa, U.S.A.), F.D.S., Royal Coll. of Surgeons of England, Minister of Agriculture & Animal Husbandry, Govt. of West Bengal. *b.* Dec. 24, 1880; *Educ.*: Calcutta Univ.; State Univ. of Iowa, U.S.A. Founder & Principal, Calcutta Dental Coll. and Hospital; Councillor and Alderman, Calcutta Corporation; member, West Bengal Leg. Assembly. *Publications*: Author of *Students' Handbook of Operative Dentistry*. *Recreation*: Swimming. *Clubs*: Calcutta Club. *Address*: 103, Ballygunge Place, Calcutta 19.

KIYAR, Bangalore Subba Iyer Deswamy, M.A., B.Sc. (Hons.), D.I.L.Sc. (Tech.), A.M.I.E., Master of the Mint. *b.* July 9, 1914; *Educ.*: Mysore and Annamalai Univs.; Indian Institute of Science; foreign training with Messrs. Henry Wiggins Ltd. and other reputed firms dealing in non-ferrous metallurgy. Joined the Hindustan Aircraft Factory as an Engineer, 1941 and subsequently took service with the Defence Dept. in their ordnance factories as Electrical Engineer for Planning, Aug. 1941—Feb. 1947; was Technical Officer in charge of Communications Installations, Civil Aviation Directorate, Ministry of Communications; joined the Ministry of Finance as Asst. Mint Master, Aug. 1947; was assigned the 1st rank on an All India basis selection by the U.P.S.C. *Recreations*: Billiards, Tennis, etc. *Address*: Master of the Mint, Fort, Bombay-1.

KIWANI, Lal Singh Hazarisingh, M.A., Ellis Scholar and Gandhian Scholar, Sindhi Writer; Principal and Professor of English, D. & H. National and W. A. Science Coll., Bandra. *b.* July 17, 1899; *Educ.*: D. J. Sind Coll., Karachi; Univ. of Bombay; first class first at B.A. in English, 1919. Professor of English for over thirty-nine years at several colleges; Chairman, Board of Studies in English Literature, Univ. of Bombay; Convenor, Sindhi Advisory Board, Sahitya Akademi, Delhi. *Publications*: *Immortal India*; and Sindhi books *Vihar*, *Umag*, etc. *Address*: D. & H. National and W. A. Science College, College Road, Bandra, Bombay 20.

KILANDAM, P. V. alias Akilan, Tamil Novelist and Short Story Writer. *b.* Feb. 7, 1923; *Educ.*: Maharajah's Coll., Pudukkottai. Participated in the freedom movement, 1941-44; took to writing; takes active part in social uplift; attends college meetings as a speaker, etc.; broadcasts on radio; his novels and stories are being filmed for the Tamil screen; awarded first prize for his novel by the Tamil Academy on behalf of the Madras Govt. *Publications*: 20 books (short stories, novels, literary articles, plays and translations); contributes short stories and serial novels to *Kalamagal*, *Kalki* and other leading journals in Tamil Nad; writes screen scripts for the motion pictures. *Recreations*: Reading. *Address*: 1164, Lloyds Road, Madras 14.

KL, Vallappa, Writer of children's books in Tamil; Special Officer for Children's books, Southern Languages Book Trust, Madras; Pres., 'Children's Writers' Assoc., Madras. *b.* Nov. 7, 1922; *Educ.*: Pudukkottai, Madras State. Some time Editor, *Poonjolei*, a monthly Tamil magazine for boys and girls; has been working for the growth of children's literature for the past 15 years. *Publications*: *Malarum Ullam*, a collection of 135 poems for children; got the Central Govt. award and also the Madras State award 1957; got the Madras State award for his story book for children *Nalla Nandabul*, 1955; Biographies: *Periyar Vazharile*, *Chinnanchiru Vayadil*, 1958. *Address*: 10, Vaidyaramier Street, Madras 17.

ALBUQUERQUE, Colonel V. M., L.R.C.P. (Lond.), M.R.C.S. (Eng.), F.R.C.S. (Eng.), M.B.E. (Military Division) (1937), Director-General, Employees' State Insurance Corporation, since Dec. 1953. *b.* Jan. 5, 1901; *Educ.*: St. Xavier's High School, Bombay; St. Joseph's Coll., Naini Tal; King's Coll. Hospital, London. Principal Medical Officer, Bikaner; commissioned I.M.S., 1933, Surgical Specialist; Mohmand operations, 1933 and 1935; Waziristan operations; mentioned in despatches 1937-38; World War II O.C., Indian Military Hospital, Alipore; Officer I/C Surgical Division, Indian War Base Hospitals at Moradabad and Lucknow; Adviser in Surgery, Central Command; Medical Planning Officer and Deputy Surgeon General, Bengal, 1945-47; Additional Deputy Director-General of Health Services (Social Insurance), 1947-49; Medical Commissioner, Employees' State Insurance Corporation, 1949-50; Professor of

Surgery, Armed Forces Medical Coll., Poona; 1951-53. *Recreations*: Tennis. *Clubs*: Delhi Gymkhana; 'National Overseas'. *Address*: Grindlays Bank Ltd., New Delhi; 14, Teen Murti Lane, New Delhi.

ALENCAR, His Excellency Jose Cochrane de, LL.B. (Lond.), Member of the Royal Economic Society, O.B.E., Ambassador Extraordinary & Plenipotentiary of Brazil to India, since Oct. 1, 1956. *b.* Nov. 19, 1898 at Rio de Janeiro; *Educ.*: Germany, Switzerland and England. Second Secy., Oslo, July 1923-Feb. 1938; First Secy., Feb. 1938—April 1946; Consul General, San Francisco, April 1946—Aug. 1948; Envoy Extraordinary & Minister Plenipotentiary, New Delhi, Aug. 1948—Nov. 1949; Canberra, Nov. 1949—Oct. 1954; Stockholm, Oct. 1954—March 1956; Ambassador Extraordinary & Plenipotentiary, Karachi (Pakistan), March to Oct. 1956; recipient of many decorations amongst which is the Grand Cross of the Order of Malta. *Clubs*: St. James Club, London; Jockey Club, Rio de Janeiro; Delhi Golf Club, New Delhi. *Address*: Brazilian Embassy, 8, Aurangzeb Road, New Delhi.

ALI, Sadiq, B.A.; M.P., Genl. Secy., Indian National Congress, since 1958. *b.* 1911; *Educ.*: Allahabad Univ., Permanent Secy., All India Congress Ctee., 1938-48; Member, Indian Parliament, 1950; takes keen interest in social service. *Publications*: *Know Your Country*; *Congress Ideology and Programme*; *Culture of India*. *Address*: 7, Jantar Mantar Road, New Delhi.

ALI, Sir Saif-ud-Din, Kt. (Jan. 1941), Padma Vibhushan (Jan. 26, 1956), B.A. (Allahabad), Bar-at-Law, LL.D. (Honoris Causa) (Muslim Univ., Aligarh), Governor of Assam, since May 15, 1956. *b.* September 19, 1886; *Educ.*: London Mission School, Banaras; Queen's College, Banaras; Muir Central College, Allahabad; Middle Temple, London. Practised as a Barrister at Chapra and Patna; appointed Judge of the Patna High Court, April 1928; acted as Chief Justice, 1938; deputed by the Govt. of Bihar to settle certain industrial disputes at Jamshedpur; appointed permanent Chief Justice, January 1943; appointed Chairman, R.I.N. Mutiny Enquiry Commission, April 1946; appointed Member, Calcutta Disturbances Enquiry Commission, Sept. 1946; went as Delegate for India to the 2nd Session of the U.N. General Assembly at New York in Sept. 1947 and elected Chairman of the Fifth Committee of the Assembly during that session; Judge, Federal Court of India, 1947-Jan. 1950; Judge, Supreme Court of India, 1950-52; Governor of Orissa, 1952-54; Chairman, States Reorganisation Commission, 1954-55. *Address*: Bank Road, Patna; Shillong, Assam.

ALI, Mr. Justice Syed Murtaza Faiz, B.A. (Hons.), B.L., Judge, High Court, Jammu and Kashmir State, since April 8, 1956. *b.* Dec. 20, 1920. *Educ.*: St. Joseph's Convent, Patna; Patna Univ., Patna; Muslim Univ., Aligarh; B.A. (Hons.), 1940; B.L. (1st Class), 1943. Enrolled as an Advocate, Patna High Court, Nov. 7, 1944, and Federal Court, Dec. 1949; worked on the panel of lawyers for the State of Bihar in the Patna High Court from 1950; conducted important cases in the High Court and Supreme Court on civil, criminal, constitutional and revenue side. *Publications*: *Ten Years' Questions and Answers of the Patna University on Hindu Law*, Mohammadan Law, Contract Act, Torts and Criminal Law; Article on Sec. 342, Cr. P.C. published in 1957, Cr. L.J. (Nov. issue). *Recreations*: Reading of books; composition of Urdu Poems. *Clubs*: Amar Singh Club, Srinagar and Jammu; Patna New Club, Patna. *Address*: 2, Silk Factory Road, Srinagar.

ALI YAVAR JUNG BHADUR, Dr. Nawab (Mirza Ali Yar Khan), B.A., Hon. (Oxford), Padma Bhushan (1959), Ambassador of India to Yugoslavia and Greece and Minister Plenipotentiary to Bulgaria. b. Feb. 18, 1906; Educ.: Nizam Coll., Hyderabad-Dn.; Queen's College, Oxford. Professor of History, Osmania University, 1927-34; Director of Information, Hyderabad Govt., 1934-36; Secy. to Govt., Constitutional Affairs, 1936-42; Secy. to Govt., Constitutional Affairs, and Home, 1942-45; Vice-Chancellor, Osmania Univ., 1945-46; Minister for Constitutional Affairs, Local Govt., Health and Education, 1946-47; resigned from Service, Aug. 1947; delegate to U.N., 1946, 1950, 1952 and 1953 and Deputy Chairman of the Indian Delegation to the 1954, 1955, 1956 and 1957 Sessions; Vice-Chancellor, Osmania University, Hyderabad-Dn., 1948-52; Leader of the Indian Delegation to the Economic and Social Council, 1953; Indian Ambassador to Argentina and Minister Plenipotentiary to Chile, 1952-54; Chairman, U.N. Ad Hoc Cttee. for SUNFRD, 1956; Doctor of Laws Honoris Causa, Osmania Univ., 1956; Ambassador to Egypt, and Minister Plenipotentiary to Lebanon 1954-58. Publications: *Hyderabad in Retrospect*. Address: Indian Embassy, Belgrade.

ALTEKAR, Dr. Anant Sadashiv, M.A., LL.B., D. Litt., Director, K. P. Jaysawal Research Institute, Patna. b. August 30, 1898; Educ.: Deccan College, Poona. Chairman, Numismatic Society of India since 1951; President, All-India Oriental Conference, 1957; Visiting lecturer, Yale University, America, 1954; deputed by Indian Govt. to Br. West Indies to lecture on Indian culture, 1954; Professor of Ancient Indian History and Culture, Patna University, 1949-57; at Hindu University, Banaras, 1930-49; member, West German Govt. Guest Delegation, 1957. Publications: *History of Village Communities in Western India*, 1927; *Education in Ancient India*, 5th Ed., 1957; *Rashtrakutas and their Times*, 1932; *Position of Women in Hindu Civilisation*, 1938, 1956; *The Age of Vakatakas and Guptas*, 1946, 1954; *State and Government in Ancient India*, 1949, 1955, 1958; *Sources of Hindu Dharma*, 1953; *Cut of Bayana Hoard of Gupta Gold Coins*, 1954; *Corrupt of the Coins of the Gupta Empire*, 1957. Club: Staff Club, Patna University. Address: Ranighat, Patna 6.

ALUWISARE, H. E. Sir Richard, K.C.M.G., C.B.E., High Commissioner for Ceylon in India, since June 1957. b. 1895; Educ.: Received his early education at Trinity Coll., Kandy. Went to France joining the Royal Fusiliers, Public Schools Battalion, 1915; was wounded while on active service in France and after convalescing in England returned to France as Welfare Officer with the Indian Army; returned to Ceylon and was appointed to Ceylon Civil Service, 1919; held several high administrative posts; Inspector-General of Police, 1947-56; while holding the post of Inspector-General of Police, was on several occasions acting Permanent Secretary to the Ministry of Defence and External Affairs; was also Chairman, Ceylon Arts Council; after retirement appointed Chairman, Ceylon Prohibition Commission. Address: 224, Jor Bagh, New Delhi.

ALVA, Shrimati Violet, M.A., LL.B., M.P. (Rajya Sabha), Deputy Minister for Home Affairs, Govt. of India, since April 1957. b. April 24, 1908; Educ.: St. Xavier's Coll.; Govt. Law Coll., Bombay; holds Diploma of Social Service League, Servants of India Society. Hon. Prof. of English, Indian Women's Univ. (1936-37); Hon. Presidency Magistrate, J.P. Jail visitor etc.; Vice-Pres. All-India Christian Conference (1944-47); jailed with her five months old son in the "Quit India" campaign (1943); first woman Advocate in India or Pakistan to have argued out

successfully a case before any Full Bench of any High Court (1944); Founder Editor of now defunct *Begum*, later known as *Indian Women*; first Indian woman to be deputed abroad—on the Indian Press Delegation to Egypt (1950); Founder and Pres., Agripada Bahlwasi Seva Mandal (a labour centre in Bombay) (1946-52); elected unopposed to the Bombay Municipal Corporation (1946); M.L.C., Bombay (1947-52); first woman member elected to the standing Cttee. of the All-India Newspaper Editors' Conference (1952); elected to the Ex.-Cttee. of the Congress Party in Parliament (1953 and 1956); member: Central Board of Film Censors (1954-57); Public Accounts Cttee., Indian Parliament (1954-56); Secy., Indian Women's Cultural Delegation to Soviet Union (1954); Vice-Pres. for India of the International Federation of Women Lawyers, from 1953; Observer on behalf of the International Federation of Women Lawyers for the UNESCO Ninth Session at New Delhi, 1956 and International Labour Organisation. Subjects in Parliament: Defence and Foreign Affairs. Address: 2, Khatau Mansion, Cooperage, Bombay 1; 3, Asoka Road, New Delhi.

ALVAREZ, His Excellency Manuel A., Ambassador of the Philippines to India. b. Jan. 1, 1896, in Cervantes, Ilocos Sur; Educ.: Philippine Coll. of Commerce; Philippine Law School, Manila. Member, Philippine Bar; enrolled in the U.S. Supreme Court and Dist. Court of Columbia, Washington; Philippine Consul-General to: Australia and New Zealand, 1947-48; Hawaiian Islands and Guam, 1948-51; First Secy. and Charge d' Affaires, Philippine Legation, Italy, 1951-52; Career Minister, Italy, 1953-54; Env. Ext. and Min. Plen. to Italy, 1954-56; concurrently accredited to Austria, 1955-56; Amb. to Italy, 1956; Amb. and delegate to the 11th Session of the U.N. General Assembly, 1956-57; Amb. Ext. & Plen. to Pakistan, Oct. 18, 1957; attended several international conferences like U.N. Rice Conference, Tri-vandrum, 1947; Conference of Italo-Asiatic Trade Relations, 1952; 7th Session, F.A.O. Conference (Chief delegate), 1953; 9th International Congress on Agricultural Industries (Chairman, Philippine delegation), 1952; Conference of the International Civil Aviation Organization (Chairman), 1952, etc.; Chairman, Cttee. on Foreign Relations of the National Assembly, 1955-61; awarded the "Gran Croce Dell'—Ordine Al Merito Della Repubblica Italiana", Oct. 24, 1956. Address: 210-11, Claridge's Hotel, New Delhi.

AMRETIWALLA, Gulamhussein Aliibhai, Justice of the Peace, Partner, A. G. Bookwala; Book Manufacturer, b. March 21, 1906; Educ.: Bombay. After leaving school, started business in book manufacturing; takes keen interest and active part in the Bahai movement; is Pres., National Bahai Assembly of India and Burma; Pres. of its local branch; has travelled all over India to teach Bahai Faith; went on pilgrimage to Haifa (Israel) to the tomb of Bahaullah and his son Abdul-Baha, 1952; toured Germany, Switzerland, Italy and Israel, 1953; visited the U.K., 1957; Pres., Book Manufacturers' Assoc., Bombay; member: W.I.A.A. Publications: Many poems in Gujarati magazines under the pen-name *Mitra*; has contributed articles to Gujarati papers *Be-Gadi, Mouj* and *Watan* on various subjects. Address: 9, Mirza Street, Bombay 3.

AMRIT KAU, Rajkumari, M.P. (Rajya Sabha), Ex-Minister, Govt. of India. b. Feb. 2, 1899, at Kapurthala Palace, Lucknow; Educ.: in England. Foundation Member, All India Women's Conference and All India Women's Education Fund Association, and

working Chairman of latter for many years; Member, Advisory Board of Education, Govt. of India for many years; Secretary to Gandhiji for 16 years; served on Board of All India Spinners' Association and Hindustani Talimi Rangh during Gandhiji's life-time; Deputy Leader of Indian Delegation to UNESCO Meetings in 1945 and 1946 in London and Paris; Leader of Indian Delegation to WHO Annual Meetings in 1948, 1949, 1951 and 1953; President of the World Health Assembly in 1950; President, All India Conference of Social Work, 1948-49; Union Minister of Health 1947-57; held additional charge of Communications Portfolio, 1951-52; Chairman, Indian Red Cross Society; Vice-President and Vice-Chairman, International Red Cross and League of Red Cross Societies respectively; Chief Commissioner, St. John Ambulance Brigade in India; Pres.: Indian Council of Child Welfare since inception; National Sports Club of India since inception; Chairman, Rajkumari Sports Coaching Committee; Pres.: All India Lawn Tennis Association; Tuberculosis Association of India; Hind Kushi Nivaran Sangh since inception; Trustee, Gandhi Smarak Nidhi; Trustee: Jallianwalabagh National Memorial Trust; Guru Nanak Memorial Trust; Member, Governing Body, Council of Scientific and Industrial Research; President: Delhi Music Society; Table Tennis Federation of India; All-India Institute of Medical Science; Hon. Fellow, American Public Health Assoc.; Minister of Health, Government of India, 1947-57; awarded Count Folke Bernadotte Medal of the League of Red Cross Societies, Nov. 1957. A lover of sports and keen tennis player having won many tennis championships. Loves children and flowers. Strict vegetarian. Permanent Address: "Manorville", Summer Hill, Simla-West.

ANAND, K. R., Industrialist and business man. b. Jan. 5, 1908, at Khanpur (N.W.F.P., Pakistan); Educ.: Peshawar. Came to Bombay, 1934; extensively toured the whole of India, Burma, Ceylon and Afghanistan to study the markets closely; entered manufacturing business, 1937; for the first time in India, developed and designed his own plant for the manufacture of the Lead Storage Batteries without the aid of foreign technicians; produced complicated electrical equipment for the Indian Railways and also Water Distilling Still, Battery Chargers, Lead Melting Industrial Furnaces, Ignition Parts, and other electrical appliances of utility; went to Germany as a delegate of the Indian Standards Institution, Govt. of India, to attend the meetings of the International Electro-Technical Commission, 1956; thereafter went round the world to gain knowledge and experience; designs and develops his own tools, plant and jigs for anything he decides to manufacture; is always busy carrying out research or experiments; Founder Chairman, Himco (India) Private Ltd., Bombay, Delhi and Madras; is also Director, New Famous Litho Works Pvt. Ltd. Address: Jacob Circle, Bombay 11.

ANAND, Mukh Raj, B.A. (Hon.), Ph.D., Author, Novelist and Critic; Editor, *Mary Magazine*. b. December 12, 1908; Educ.: Punjab University, Universities of London and Cambridge. Lecturer in Literature and philosophy to the London County Council adult education schools, 1939-42; Editor of various magazines; Leverhulme Fellow for research in Hindustani literature, 1940-42. member: National Book Trust of India; Sahitya Akademi. Publications: *Novels: Private Life of An Indian Prince, Seven Summers, The Big Heart, The Sword and the Stilet, Across The Black Waters, The Village, Two Leaves And A Bud, Ooble*,



Untouchable, Tractor and the Corn Goddess, The Barber's Trade Union. Essays: Apology for Herodotus, Lines Written to an Indian Air, Hindu View of Art, Persian Painting, etc. Address: 25, Cuffe Parade, Colaba, Bombay.

ANANT, Ganeshram, M.A., LL.B., Minister for Social Welfare, Co-operation, Local Self-Govt. (Rural), Madhya Pradesh, since April 15, 1957, b. Sept. 22, 1923; *Educ.*: Matriculated from Govt. High School, Bilaspur, 1942; graduated from S.B.R. Arts Coll., Bilaspur, 1948; M.A. in Economics from Morris Coll., Nagpur, 1950; LL.B. from Univ. Coll. of Law, Nagpur, 1950; Secy., Students' Congress, Bilaspur, 1944; Pres., Harijan Students' Union, Mahakoshal, 1947; Bhartiya Depressed Classes League, Mahakoshal, since 1955; member, Executive of Harijan Education Society, M.P., since 1954; acted as Chairman, Reception Ctee., All-India Harijan Convention, 1952; Chairman, Swastik High School, Nagpur, 1956; elected M.L.A., Madhya Pradesh on Congress ticket from Janjgir-Pamgarh Constituency, 1951; Dy. Minister for Agriculture, 1951-56; Minister for Social Welfare, new M.P., Nov. 1, 1956-57; returned unopposed to M.P. State Assembly from Masuri Constituency, March 1957; re-appointed Minister, M.P. Publications: Has written for *Sahitya Sandesh* of Agra; *Saket Sant*; *Chhayarad Aur Rahasyarad*, etc. *Recreations*: Bridge, Music, etc. Address: Minister for Social Welfare, Polo Bungalow, Bhopal.

ANANTANI, Biharlal Narayanji, B.A., D Litt., Bar-at-Law, ex-Dewan, former Jawhar State b. June 22, 1892, at Kutch-Bhuj; *Educ.*: Alfred High School, Kutch-Bhuj, and



Middle Temple, London; called to the Bar in 1937. Started career in Zanzibar, as interpreter in H.B.M.'s High Court; was Head Master, Indian School, for 10 years and journalist for 35 years; Proprietor and Editor, *The Zanzibar Voice*, a well known Weekly; was Mysore Govt. Trade Agent in East and South Africa and also acted as Trade Cor-respondent for the Government of India for a number of years; as leader of the Indian Community, led deputations to London and Geneva on several occasions on behalf of Indians in East Africa; practised law in Bombay High Court on the Original side and is still on the roll of Advocates; was Commerce Member in Nawanagar State for four years; acted as Advocate-General in Nawanagar State and Famine Relief Commissioner during the famine of 1939-40 and won the appreciation of the Maharaja Jamnabhai Bahadur and the public for his strenuous work; Controller of Prices, Agent to the Custodian of Enemy Property and President, Central Board, War Efforts Committee; was Pres., Stores Purchase Ctee., Nawanagar State; an active Rotarian and a Mason; Pres.: Kutch Bar Assoc.; Rotary Club of Bhuj-Kutch for 1953-54; Pres., Kutch Sahitya and Sanskar Mandal; Editor, *Nawarjan*, monthly magazine. Publications: Gujarati translation in verse of *Karma* by Shalikh Saadi, Great Persian Poet and Writer, *Functions of Post-War Journalism* and *Genesis of Indian Struggle in East Africa*. Address: "Narayan Nivas", Nagar Chaklow, Bhuj, Kutch.

ANCHAL, Rameshwar Shukla, M.A. (Nagpur), Hindi Poet; Reader in Hindi, Institute of Languages and Research, Jabalpur, since Nov. 1956; Head of the Dept. of Studies in Hindi, Univ. of Jabalpur. b. May 1, 1915; *Educ.*: Lucknow Univ. and K. K. Inter Coll., Lucknow. Lecturer in Hindi, Robertson Coll., Jabalpur, 1945-52; Asstt. Prof. of Hindi, Robertson Coll., 1952-56. Publications: Seven collections of poems, two

collections of short stories, four novels one history of Hindi literature and two collections of critical essays and research papers; member, Mahakoshal Board of Secondary Education, M.P. and its Exec. Ctee. *Recreations*: Walking, Reading and Writing. Address: Shiva Kutee, Napier Town, Jabalpur.

ANEY, Dr. Madhava Shrihari, B.A., B.L., M.P., Ex-Governor of Bihar. b. August 29, 1880; *Educ.*: Morris Coll., Nagpur. Teacher, Kashibai Private High School, Amraoti, 1904-07; joined Bar, 1908 at Yeotmal; Vice-Pres., Indian Home Rule League; Pres., Berar Provincial Congress Ctee., 1921-30; joined Civil Disobedience Movement; Ag. Pres., Indian National Congress, 1933; M.L.A. for Berar, 1924-26, 1927-30 and 1935; member, Congress Working Ctee., 1924-25 and 1931-34; founded Yeotmal District Assoc., 1916; member, Nehru Ctee.; Vice-Pres., Responsivist Party; General Secy., Congress Nationalist Assembly Party, 1935; General Secy., Anti-Communal Award Conference Working Ctee., 1935; member, Viceroy's Executive Council (Indians Overseas), 1941-43; Representative of the Govt. of India in Ceylon, Aug. 1943-July 1947; Pres., Valde Sanshodhan Mandal, Poona, 1944; Member, Constituent Assembly of India, July 1947-Jan. 1949; Governor of Bihar, 1948-June 1952. Publications: Collection of writings and speeches in Marathi and English. Address: 39/1, Civil Lines, Nagpur 1.

ANJARIA, Jashwantrai Jayantilal, M.A. (Bombay), M.Sc. (Econ.) (Lond.), Chief Economic Advisor, Government of India Ministry of Finance and Adviser, Planning Commission. b. July 15, 1908; *Educ.*: Bombay and London. Prof. of Economics, Wilson Coll., 1938-39; Reader in Economics, School of Economics and Sociology, Bombay, 1939-46; Asstt. Chief, International Monetary Fund, 1946-48; Director of Monetary Research, Reserve Bank of India, Bombay, 1948-50; Pres., annual conference of the Indian Society of Agricultural Economics, 1955. Publications: *Grounds of Political Obligation in the Hindu State*; *Indian Rural Problem*; *Price Control and Food Supply in India*; *Essay on Gandhian Economics*; *War and the Middle Class in India*. Address: C/o Ministry of Finance, Govt. of India, New Delhi.

ANJARI, Mr. Justice Mohd. Ahmed, B.A. (Hons.) (Oxon.), B.C.L. (Oxon.), of Lincoln's Inn; Barrister-at-Law, Judge, High Court, Hyderabad, since 1946. b. Nov. 26, 1901; *Educ.*: St. George's Grammar School, Hyderabad; Wadham Coll., Oxford; called to the Bar, Lincoln's Inn, 1927. Practised in Allahabad, 1928-35; practised in Hyderabad, 1935-46. Address: High Court, Hyderabad.

ANTHONY, Frank Reginald, B.A. (Nagpur Univ.), M.P. and Pres., Anglo-Indian Assoc.; Viceroy's Gold Medalist in English, Univ. Prizeman and Scholar, Bar-at-Law of the Inner Temple, London. b. Sept. 25, 1908; *Educ.*: Nagpur Univ. and at the Inner Temple, London. Leading criminal lawyer in Madhya Pradesh; elected President-in-Chief of the Anglo-Indian and Domiled European Association, All-India & Burma, in 1942, in succession to the late Col. Sir Henry Gidney; nominated to the Central Legislature in 1942; renominated in 1946; member of the Viceroy's National Defence Council; member, Sapru Conciliation Ctee., etc.; member, Central Pay Commission; one of India's Delegates to the General Assembly of the United Nations in 1946; one of India's representatives to the Commonwealth Parliamentary Conference held in 1948; member of the Constituent Assembly of India; nominated to the Lok Sabha under special provision in the Constitution for the Anglo-Indian Community, March 1952, again April 1957; represented India at the Commonwealth Parliamentary Conference, New Delhi, Dec., 1957. Address: New Delhi and Jabalpur.

APTE, Narhar Gangadhar, B.A.G., Jala-Shastra Parangata (M.Sc.), Maharashtra Vidyapitha, Fruit Preservation and Location of Underground Water Currents. b. Sept. 25, 1899; *Educ.*: David High School, Wal; Nutan Marathi Vidyalyaya, Poona; New Poona Coll., Poona; College of Agriculture, Poona. Entered Govt. service as a temporary Asstt.; worked with Mr. G. K. Devadhar in the Rural Uplift Movement; started the Business of Water-Finding independently; was a Representative of the Indian National Defence League; started the Rural Products Company; was Secy., Democratic Swarajya Party; initiated the Lokamanyu Swadeshi Samiti; held an exhibition of Maharashtra goods and subsequently started a permanent exhibition in Poona; elected Representative, Federation of Indian Chambers of Commerce and Industry; on the Governing Body of the Imperial (now Indian) Council of Agriculture, 1942 and subsequently on two more occasions upto 1950; reorganised the Maharashtra Manufacturers' Assoc.; was its Secy. and later Pres.; organised the Maharashtra Food Production Conference and helped in organising the Samyukta Maharashtra Vyapar and Karkhandar Parishad; worked in organising the first three Rural Uplift Conferences under the guidance of Mr. G. K. Devadhar; was Hon. Underground Water-supply Consultant to the Govt. of Bombay for a year and trained 100 assistants in the technique of water-finding; has made a study of the tendency of boys of 13/14 age group. Publications: *Maharashtrati Pani Purnavatha, Rural Reconstruction; Thoughts & Work about Villages; Food Problem of Maharashtra; Food Position of the Contiguous Marathi Speaking Area of India; Mumbai Pranti Sarwanudharan Mahiti; Bhima Valley* about thirty pamphlets on economic and rural problems as well as water-finding; has commenced compilation of *Maharashtra Grama Kashi*. Address: 754, Shukrawar, Poona, P. H. No. 533; 82 b, Madashiv, Poona 2 (Office).



ARA, Krishnaji Howlaji, Artist. b. 1914; *Educ.*: Self. Came to Bombay from Bolarum (near Secunderabad), 1920; struggled hard to become a painter, first exhibited at the Bombay Art Society, 1935; won a silver medal; has held several one-man exhibitions; paintings are in private and public collections in India and abroad, was on the managing Ctees of various important art societies; Founder-member: Progressive Artists' Group (now the Bombay Group); Artists' Aid Fund Centre, Bombay; winner of many gold and silver medals, cash prizes in art exhibitions in India. *Recreations*: Writing verse, music. Clubs: The Artists' Aid Centre. Address: Sital Rang, 64, Walkeshwar Road, Bombay-6.

ARMSTRONG, James Ridley, A.M.I. Mech. E., General Manager, Richardson & Cruddas Ltd., Engineers, Bombay and Madras, since 1950. b. June 18, 1902, at Bosworth, Leicestershire; *Educ.*: Latymer Upper School, London; Kilmarnock Technical Coll., Ayrshire; Heriot Watt Coll., Edinburgh; Pupil with The Kilmarnock Engineering Co. Ltd., Kilmarnock, Scotland. Joined Richardson & Cruddas and came to India, 1925; became Partner, 1946; Officer in Royal Artillery A.F. (I), 1926-30; Officer



Commanding, Royal Engineers A.F. (I), Bombay, 1939-40. Clubs: Royal Bombay Yacht Club; Bombay Gymkhana Ltd. Address:—Residence: B-8, Mafatal Park, Warden Road, Bombay 26; Office: Byculla Ironworks, Bombay 8.

ASERAPPA, Major-General Richard Edwin, M.A. (Cantab.), M.I.E., Engineer-in-Chief, Indian Army, since Oct. 1955. b. Dec. 27, 1910; Educ.: St. Paul's School, London; Royal Military Academy, Woolwich; School of Military Engineering, Chatham; Cambridge Univ. 15 Fd. Coy., N.W.F.P., April 1935-July 1938; A.G.R., Rasmak, Aug. 1938-July 1940; 108 C.B.E. Works, Adj., July 1940-Feb. 1942; HQ. BT. Iraq, SORM II (G), Feb.-Aug. 1942; HQ. Tenth Army, G.S.O. II, Aug. 1942-Aug. 1943; G.H.Q. Palestine, G.S.O. II, Aug. 1943-May 1944; 3 & 6 Engr. Depots, Lahore, May 1944-Sept. 1945; 7 Engr. Bn. Italy, CO, Nov. 1945-Feb. 1946; 2 Engr. Bn. Burma, CO, Feb.-Oct. 1946; 14 Engr. Bn. Malaya, CO, Oct.-Nov. 1946; D.C.R., Peshawar, SORM I Works, Nov. 1946-Aug. 1947; E-In-C's Br., SORM I, G.H.Q. (I), Aug. 1947; E-In-C's Br., Army HQ., BHS, Aug. 1947-Sept. 1949; Chief Engr., Eastern Comd., Ranchi, Sept. 1949-Sept. 1952; Chief Engr., W.C., Simla, Sept. 1952-Oct. 1955. *Clubs:* Delhi Gymkhana Club, New Delhi. *Address:* 8, Akbar Road, New Delhi.

ATREYA, Dr. Bhikhan Lal, M.A., D. Litt., Padma Bhushan (1957), Knight Commander (Italy, 1949), etc., Philosopher and writer; Hon. Director, Indian Institute of Human Relations, Delhi. b. Sept. 24, 1897; Educ.: Town School, Saharanpur; Govt. High School, Musaffarnagar; Banaras Hindu Univ.; Coll. of Science, Calcutta Univ.; had a brilliant academic career, winning several prizes. Asstt. Prof. of Philosophy, Banaras Hindu Univ., 1923-36; Prof. of Philosophy, B.N.U., 1936-47; Univ. Prof. of Philosophy and Head of the Deptt. of Philosophy, Psychology, Indian Philosophy and Religion, 1947-57; as Birla Visiting Prof. of Indian Philosophy and Culture, visited Thailand, China, U.S.A., England, Poland and several other countries, 1948, 1951, 1952 and 1954; presided over the Religion and Philosophy section of the All India Oriental Conference, 1940; Indian Philosophical Congress, 1958 and several others; member: International Institute of Philosophy, Paris; Editorial Board, Great English Indian Dictionary, etc.; Indian delegate to: World Congress of Faiths, Paris, 1952; World Religion Conference, Shimizu City, Japan, 1954. *Publications:* *Shankara's Doctrine of Maya* (Hindi); *Sri Varaha Darshanam* (Sanskrit); *The Spirit of Indian Culture*, etc. *Recreations:* Reading; Travelling. *Clubs:* Jitaneu Mandal, Varanasi. *Address:* Atreya Niwas, P.O. Hindu University, Varanasi 5.

AUGUSTI, K. Joseph, Managing Director, Palal Central Bank Ltd., Palal. b. Dec. 1, 1884, in a family with long commercial traditions. Took to business early in life; is a pioneer in joint-stock enterprise in



Travancore; was one of the first to introduce motor transport in the State; is a landholder and businessman; has travelled extensively in Europe; founded the Palal Central Bank Ltd., of South India; has been Managing Director of the Bank from the beginning. *Address:* Palal, S.I.

AYYANGAR, M. Ananthasayanam, B.A., B.L. (Madras), Speaker, Lok Sabha, since March 8, 1956; Advocate. b. Feb. 4, 1891 at Thiruchanoor, Chittoor Dist.; Educ.: Devasthanam High School, Tirupati; Pachaiyappa's Coll. and Law Coll., Madras. Mathematics Teacher, 1912-13; is interested in Harijan uplift and spread of Hindu culture; member: Municipal Council, Chittoor; Fiscal Commission; Constituent Assembly of India; Steering Office of Indian Constituent Assembly; Andhra P.O.C.; A.I.C.C.; Central Ad-

visory Board of Education; Director, Co-operative Dist. Bank, Chittoor; Dy. Speaker, Lok Sabha; Chairman: Criminal Tribes Enquiry Cttee.; Estimates Cttee., 1950-54. Railway Convention Cttee., 1954; Pres.: Harijan Sevak Sangh; D.C.C., Chittoor; Renaissance Society of India; Bar Assoc., Chittoor; Indian Assoc. for a World Federal Govt.; Vice-Pres., Ram Vilas Sabha and Dramatic Assoc.; Secy., Constitution Club; non-co-operated, 1921; suspended practice for a year; offered individual satyagraha and was jailed for 8 months, 1940; detained at Vellore and Amraoti Jails in Quit India Movement, Aug. 1942-Dec. 1944; Delegate, Commonwealth Parliamentary Conference, Ottawa, 1952; conferred "Doctorate of Literature" by Shri Valaknava Theological Univ., Brindavan, 1954; Leader, Parliamentary Delegation to China, 1956; re-elected Speaker, May 1957. Elected Chairman, Commonwealth Parliamentary Association, 1957. *Publications:* *Our Parliament*; Edited a Telugu Weekly *Shri Venkatesa Patrika*; *Special interests:* Study and propagation of Sanskrit and Indian culture; social welfare work; music. *Address:* Tirupati, Andhra.

AYYAR, G. Venkateswara, B.A. (Hons.), I.C.S., Chairman, Madras Port Trust, since Sept. 1, 1951. b. Feb. 19, 1905; Educ.: C.M.S. Coll., Kottayam; Maharajah's Coll., Trivandrum; London Univ. Joined I.C.S., 1930; (Chief Presidency Magistrate, Madras, 1941-44; Secy., Board of Revenue, Madras, 1944-46; Joint Secy., Revenue Deptt., Madras, 1946-47; Secy., 1947-48; Special Officer, June to July 1948; Secy., 1948-49; Administrative Officer, Cochin Port, 1949-51. *Clubs:* Gymkhana Club, Madras; Madras Race Club, Madras. *Address:* Harbour House, Madras 1.

AYYAR, Marayana Padmanabha, B.A. (Madras), B.E. (Madras), M.I.E. (Ind.), Director (Civil Engineering), Hindustan Steel (P) Ltd., since Sept. 1957. b. Aug. 10, 1899; Educ.: Travancore, upto R.A. Degree (1919); Madras Engineering Degree (1923). Appointed to the Indian Service of Engineers and Allotted to Madras P.W.D., 1924; retired after serving in various capacities as executive Engineer, Superintending Engineer and Chief Engineer, 1955; as Administrative and Technical head of the P.W.D., was responsible to the Govt. for the implementation of the activities in the P.W.D. under the First Five Year Plan—under major and minor irrigation, public health, buildings, etc.; joined the Ministry of Iron and Steel as Civil Engineering Adviser in connection with the construction of the three Steel Plants at Rourkela, Bilal and Durgapur, 1955. *Recreations:* Tennis, Billiards and Music. *Club:* The Mylapore Club, Madras. *Address:* 59, Kaka Nagar, New Delhi.

BACHCHAN, Harbans Rai, M.A. (Alid.), Ph.D. (Cantab.), Officer on Special Duty (Hindi), Ministry of External Affairs, New Delhi, since Dec. 1955. b. Nov. 27, 1907; Educ.: Allahabad, Benares and Cambridge. Lecturer in English, Univ. of Allahabad, 1942-52; Research student at the Univ. of Cambridge (U.K.), 1952-54; Producer, All India Radio (Allahabad), 1955; is a popular Hindi poet; has been writing since 1929. *Publications:* Author of about 20 books some of which are *Madhusala* (1935) (which has been translated into English as *House of Wine* by Marjorie Boulton); *Nahani mantran* (1939) (collection of songs); *Bengal Ka Kal* (1943) (which has been translated into Bengali by Bhupendra Nath Das); *Khandi Ke Phul* (1948) (Tributes to Mahatma Gandhi); *Milan Yamini* (1950); *Maabreh* (1957) (Hindi translation in blank verse); *Arvi Aur Angare* (1958), (both collection of Lyrics); *Jan-Uta* (Translation of *The Gita* into Avadhi—Dohas—*Chaupai*) 1958; *Buddha-Aur-Nachgar* (Collection of poems in free verse) 1958. *Address:* 219 D/1, Diplomatic Enclave, New Delhi 3.

BADHWAR, Fateh Chand, M.A. (Cantab.), M.B.E. (1941), O.B.E. (1946), Padma Bhushan (1955), Managing Director, Bird & Co. (Private) Ltd., Calcutta, since Aug. 1955. b. Sept. 29, 1900; Educ.: Woodstock College, Mussoorie; Sherwood College, Naini Tal; Christ College, Cambridge. After 2 years of varied experience on ships, docks, bridges, canals and railways in Europe and America, was posted to the E.I. Rly., 1925; commissioned into the Corps of Indian Engineers in Sept. 1941 and commanded No. 6, Tech. Training Group until Dec. 1943; appointed Secy., Railway Board, April 1944; General Manager, O. T. Rly., Jan. 1947; Chairman and Member, Engineering, Rly. Board and Ex-Officio Secy., Rly. Ministry, Govt. of India; granted Hon. rank of Lieut.-Col. in Territorial Army, Nov. 1952; Chairman, Customs Reorganisation Cttee., appointed in Feb. 1957. *Recreations:* Shooting, fishing, riding and racing; keen on trekking in the Himalayas and natural history in all its aspects. *Club:* Delhi Gymkhana. *Address:* C/o Bird & Co. (Private) Ltd., 74, Janpath, New Delhi.

BADKAS, Mr. Justice Ganpati Balkram, M.A., LL.B., Judge, Bombay High Court, since July 14, 1957. Vice-Chancellor, Nagpur Univ. b. Aug. 14, 1901; Educ.: Nagpur. Started practice at Wardha, 1925; appointed Public Prosecutor, 1938; resigned, 1942; shifted to Nagpur for practice in the High Court, 1950; Part-time lecturer in law, Univ. Coll. of Law, Nagpur, 1951-54; Principal, Law Coll., 1954-56. *Recreations:* Tennis; Bridge. *Club:* Gondwana Club, Nagpur. *Address:* Ramdaspath, Nagpur; High Court, Bombay.

BAGLE, Lala Rameshwar Prasad, Business man. b. May 18, 1904; Educ.: Privately under the training and guidance of his father. Took to business at a very early age and enlarged his father's business considerably; Director: Maheshwari Devi Jute Mills Ltd.; India United Mills Ltd., Bombay; Muir Mills Co., Ltd., Kanpur; New Pralad Mills Ltd.; Amrit Banaspati Ltd., etc.; Proprietor, Messrs. Gangadhar Hajinath, Kanpur; Partner, Agarwal & Co., Managing Agents of the India United Mills Ltd.; has travelled widely in Europe; Hony. Secretary, I.P. Chamber of Commerce, 1931-40 and its President, 1940-45; Member, Executive Committee, Federation of Indian Chambers of Commerce and Upper India Chamber of Commerce for several years; Member, Central Assembly 1930-34; Member: Employers' Delegation to the International Labour Conference at Geneva in 1931; Employers' Delegate to the Second Session of I.L.O. Textile Committee held in Geneva in 1948; tendered evidence before the Whitley Commission, Lothian Committee, and Joint Parliamentary Committee; Rai Bahadur, 1934; has endowed in revered memory of his parents, the Dinanath Parvati Bagla Infectious Diseases Hospital. *Address:* Bagla Cottage, Shrimati Parvati Bagla Road, Kanpur.

BANADUR, Raj, Minister of Shipping, Transport and Communications, Ministry of since April 1957. b. August 21, 1912; Educ.: Sadar High School, Bharatpur; Maharaja's Coll., Jalpur; Agra Coll., and St. John's Coll., Agra. Started practice at Bharatpur and then at Rajasthan High Court; later enrolled as Advocate, Supreme Court; took active part in the freedom movement and imprisoned twice; elected Municipal Commissioner, Bharatpur on Praja Parishad ticket, 1941; elected to State Representative Assembly, 1943; Secy., Assembly Praja Parishad Party, 1943-48; Vice-Pres., Bharatpur Dist. Congress Cttee.; Pres., Bharatpur Bar Assoc., 1948-51; elected to the Indian Constituent Assembly, 1948; has been an M.P. since then; Secy., Congress Party in Parliament, 1951-52; member: Rajasthan P.C.C.; A.I.C.C.; Executive of the Congress Party in Parliament; Dy.

Minister for Communications, 1951-56; Minister in the Ministry of Communications, Feb. 14-Dec. 7, 1956; Minister for Communications, Dec. 7, 1956-April 16, 1957; re-elected M.P., 1957. Address: 9, Akbar Road, New Delhi.

BAIG, Mirza Rashid Ali, Jt. Secy. Ministry of External Affairs, Govt. of India. b. March 25, 1908; Educ.: (Clifton Coll., England; Royal Military Coll., Sandhurst. Commissioned, 1924 and posted to 16th Light Cavalry; resigned after six years' service to enter business; Pres., Indian Progressive Group, 1939; Sheriff of Bombay, 1942; Consul at Goa, 1946; Consul-General in French Establishments and Portuguese Possessions in India, stationed in Pondicherry, Sept. 1947-Dec. 1949; was First Secy., Indian Embassy in Indonesia for a brief period from Dec. 1949; was with the Central Govt. till April 1952; Indian Minister to the Philippines, 1952-55; Chief of Protocol, Govt. of India, 1955-58. Address: Ministry of External Affairs, New Delhi.

BAIJAL, Dharam Chand, B.Sc., C.E. (Hons.), Hony. Major (1946), Burma Star, 1939-45 Star and War Medal, General Manager, North-East Frontier Railway, since Jan. 1958. b. Aug. 8, 1906; Educ.: Univ. of Allahabad; Thomason Coll. of Civil Engg., Roorkee. Joined the Indian Rly. Service of Engineers, 1930; posted to the Eastern Bengal Rly.; commissioned in the Defence of India Corps (Rlys.), 1942; Dy. Director (Projects), Rly. Board, 1946-47; Jt. Dir. (Civil Engg., 1947-52; appointed Secy., Ganga Bridge Enquiry Cttee., 1952; resumed duty as Jt. Director, Civil Engg.; Divisional Supdt., N. Rly., 1952-55; Director, Civil Engg. Rly. Board, 1955-56; Secy., Rly. Board, Jan. 19 to Oct. 1957; on special duty in connection with the setting up of a new railway zone at Pandu, 1957-58. Recreations: Tennis, Gardening. Clubs: Gauhati Club. Address: North-East Frontier Railway, Pandu.

BAJAJ, Kamalayan, Economics Tripos Pt. I (Cambridge Univ.), Hindi Visharad, Prayag, M.P., business man and industrialist. b. Jan. 23, 1915; Educ.: Babarnati Ashram, Gujarat Vidyaapeeth, Ahmedabad, Satyagraha Ashram, Wardha, under Mahatma Gandhi and Acharya Vinoba Bhave; later at Colombo and Cambridge Univ. (England). Entered the family business concern of Bachhraj & Co. Private Ltd. and other allied concerns popularly known as the Bachhraj group of industries; Chairman, Mukand Iron & Steel Works Ltd.; Radio Lamp Works Ltd.; Managing Director, Bachhraj & Co. Private Ltd.; Director in several sugar, cement, banking and insurance companies, etc.; Trustee, Gandhi Smarak Nidhi, etc.; Mg. Cttee. Member: Federation of Indian Chambers of Commerce and Industry, New Delhi; Indian Merchants' Chamber, Bombay; Rajasthan Chamber of Commerce & Industry, Jaipur; several educational, social and cultural institutions and assoc.; elected member, Lok Sabha from Wardha on Congress ticket, 1957; Treasurer, Congress Parliamentary Party. Recreations: Travelling, Sports, Bridge, etc. Clubs: Willingdon Sports Club; C.C.I.; Chelmsford Club, Delhi; R. W. I. Turf Club, etc. Address: 51, Mahatma Gandhi Road, Bombay 1.

BAKHE, Kamalakar Chintaman, B.Sc. (Hons.) (Eng.), London, Member of Institute of Transport, Member of Institution of Engineers (India), Fellow of the Permanent Way Institution; Director, Tata Industries Ltd. b. Nov. 17, 1898; Educ.: Dulwich College, University College, London. Joined G.I.F. Railway as Assistant Engineer, March 1, 1924; retired as Chief Commissioner of Railways, Govt. of India, June 30, 1951; Director, Tata Hydro-Electric Agencies Ltd. Clubs: Willingdon Sports and Cricket Club of India, Bombay; Delhi Gymkhana Club, New Delhi. Address: Bombay House, Bruce Street, Bombay 1.

BAKSHI, Ghulam Mohammed, Prime Minister, Jammu and Kashmir, since Aug. 9, 1953.



b. July 1907. Began life as a school teacher; served with the Local Branch of the All India Spinners' Assoc.; courted imprisonment four times during the freedom movement in the State; jailed for 16 months, 1934; worked underground during the movement for Responsible Govt. in Kashmir, 1938; took a prominent part in mobilising Indian opinion from outside the State during the "Quit Kashmir" movement; organised the Peace Brigades and Border Scouts in Kashmir and Jammu during the tribal raids of 1947; Deputy Prime Minister in charge of Police, Militia, Transport, Supplies and P.W.D., Emporia in the Sheikh Abdullah Cabinet till Aug. 8, 1953; re-elected Leader, National Conference Parliamentary Party, July 1957 after the General Elections in the State. Address: Srinagar.

BALEMANT Emma, Shreemati N., Writer. b. July 19, 1909; Educ.: Privately. Only literary career. Publications: *Mother* and twelve other volumes of poems. Recreation: Reading. Address: "Sarvodaya", Punnayurkulam P.O., Kerala.

BAM, Arvind Shankar, B.Sc. (Bombay), B.Sc. (Hons.) (London), I.C.S., Iron and Steel Controller, Govt. of India, since April 1957. b. March 12, 1918. Educ.: B.Sc. from Fergusson Coll., Poona, 1939; B.Sc. (Hons.) from King's Coll., London, 1941. Entered Indian Civil Service, 1941; Asstt. Collector, Dharwar, 1942-March 1944; Special Officer, Civil Supplies, Darjeeling, 1944-45; Dist. Controller of Civil Supplies, Jalpaiguri, 1945-46; Asstt. Collector, Broach, July 1946-April 1947; Under Secy., Home Dept., Govt. of Bombay, April-Aug. 1947; Deputy Secy., Aug. 1947-Aug. 1949; First Collector and District Magistrate, Kolhapur, Aug. 1949-Dec. 1952; Dy. Secy., Govt. of India, Ministry of Rehabilitation, Calcutta, Dec. 1952-March 1957. Recreations: Tennis, Golf, Bridge. Clubs: National Sports Club of India, Royal Calcutta Golf Club, etc. Address: 33, Netaji Subhas Road, Calcutta 1.

BANERJEE, Mr. Justice Binayaknath, M.A., LL.B., Judge, High Court, Calcutta, since 1957. b. June 1906; Educ.: Presidency Coll., Scottish Church Coll., Univ. Law Coll., and Post Graduate in Arts, Univ. of Calcutta; B.A. with Honours, 1928; M.A. (Univ. Gold Medalist), 1930; LL.B., 1931. Enrolled as an Advocate of the Calcutta High Court, 1933; Lecturer, Univ. Coll. of Commerce, 1949-57. Recreations: Sanskrit & historical studies. Address: 6/1, Williams Lane, Calcutta 9.

BANERJEE, Hindra Kumar, M.Sc. (Gold Medalist), D.Sc., F.R.I.C. (Lond.), F.I.C., Director, Central Drugs Laboratory, Ministry of Health, Govt. of India, since 1958. b. March 1, 1904; Educ.: Univ. of Dacca; Univ. of Calcutta. Asstt. Agricultural Chemist, Govt. of Bengal, 1926-27; Senior Research Fellow in Biochemistry, Bose Research Institute, Calcutta, under Sir J. C. Bose, F.R.S., 1927-48; Research Chemist under Directorate of Scientific and Industrial Res. under Sir S. S. Bhatnagar, Univ. of Delhi, 1940-42; Industrial Planning Officer, Directorate General of Indian Medical Service, Bombay, 1942-46; Works Manager and Director, Smith Stanistreet & Co. Ltd., Calcutta (British India Corporation), 1946-51; Deputy Director, Central Drugs Laboratory, Calcutta, 1951-58. Publications: Forty original papers published in India and abroad. Recreations: Badminton; Tennis. Clubs: Tennis Club, South Calcutta. Address: 21/1, Ballygunge Place, Calcutta 19.

BANERJI, S. K., I.C.S., Indian High Commissioner in Malaya, since June 1958. b. Oct. 21, 1913; Educ.: Allahabad Univ. and New College, Oxford. Joined the Indian Civil Service, 1937 and served in Madhya Pradesh as Asstt. Commissioner; Deputy Commissioner at Khandwa, Balaghat, Nagpur and Akola, 1942-1946 and Secretary to Govt., 1946; selected for the Indian Foreign Service, 1947 and served in the Embassy of India, Teheran, as First Secy., and later as Charge d'Affaires; was Deputy Secy. to the Govt. of India in the Ministry of External Affairs, March 1949 to May 1951; Dy. High Commissioner for India in Pakistan, Lahore, May 1951-April 1954; Consul General in San Francisco, Aug. 1954-March 1956; Chairman, U.N. Visiting Mission to British and French Togoland (West Africa), 1955; Minister to Syria, June 1956-March 1957; Ambassador to Syria 1957-58; Address: C/o External Affairs Ministry, New Delhi.

BANERJEE, Ghamandi Lal, M.A., LL.B., Secretary-General, Federation of Indian Chambers of Commerce and Industry; Director, Central Board of the State Bank of India. b. Dec. 2, 1914; Educ.: A. V. Mission School, Ranikhet; Govt. Coll., Almora; Lucknow Univ. Represented International Chamber of Commerce at 5th Session of ECAFE; attended International Labour Conference, Geneva, 1950 and 1951; toured U.S.A. as Leader Specialist on American Govt. invitation; elected member of Parliament on Congress ticket from Jhajjar-Bewari constituency, 1952-57; was member, Govt. Delegation to GATT, 1953; attended the 12th Session of ECAFE as Govt. of India's delegate; member, Indian Industrial Delegation to Europe and America, 1957. Publications: *India and Pakistan—An analysis of economic, mineral and agricultural resources.* Recreations: Painting; Gardening. Club: National Sports Club of India. Address: 28, Ferozshah Road, New Delhi.

BANTWILL, Seth Champalal, Partner of Messrs. Hamirmull Champalal, 2, Rajawoodmunt Street, Calcutta. b. Dec. 15, 1902. Has considerable interest in the concerns of Kaseels Ltd., Matchwell Electricals (India) Ltd., Delhi, the Rampuria Ice Factory Ltd., Bikaner, and Bikaner Gypsums Ltd.; Director in all the above concerns; has huge landed property at his native town of Bhinnsar and in Bikaner; Ex-President, Municipal Board, Bhinnsar; Ex-Honorary Magistrate; member of former Bikaner State Legislative Assembly; had received many high honours from the Government of His Highness the Maharaja of Bikaner, like hereditary right to wear Gold Anklet, KAIFYAT (CHHARI), Chapras and Public Service Medal; has been playing a prominent part in the social field; initiated a big campaign in 1943 for the prevention of minors being made sadhus and received good support from all the leading political, social and religious leaders of India; was recently the recipient of a Gold Medal for meritorious service rendered to the Jain Samaj of Bikaner; Ex-President, All-India Swetambar Shthanakvasi Jain Conference. Address: Bhinnsar (Bikaner).



BAPNA, Mr. Justice Kanwarlal, B.A., LL.B. (Allahabad), Judge, Rajasthan High Court, Jodhpur. b. Jan. 4, 1900; Educ.: Jaswant Coll., Jodhpur; Agra Coll., Agra; B.A. in 1919 and LL.B. in 1923. Munshi, Jaipur City, Jaipur State, Oct. 8, 1925-Feb. 21, 1927; Govt. Advocate, Feb. 22, 1927-Oct. 2, 1935; Dy. Administrator, Sikar Estate (Jaipur State), Oct. 2, 1935-July 31, 1938; Govt. Advocate, Dec. 14, 1938-May 31, 1939; Advocate General, Jaipur State, Nov. 21, 1943-April 10, 1946; Judge, High Court, Jaipur, April 11, 1946-Aug. 23, 1949; Judge,

High Court, Rajasthan, since Aug. 29, 1949. *Recreation*: Horticulture. *Clubs*: Ashoka Club, Jaipur; Sardar Club, Jodhpur. *Address*: 31, Railway Road, Jodhpur.

BHAKSHAN, Mr. Justice Satyabhanu, B.A. (Hons.) (Hon. & Pol. Science), Barrister-at-Law, Judge, Orissa High Court, Cuttack, since 1958. *b.* May 1, 1907; *Educ.*: Mitra Institution, Bhowanipur, Calcutta; Presidency Coll., Univ. Coll. and Law Coll., Calcutta; King's Coll. & Birkbeck Coll., London; Lincoln's Inn, London; called to the Bar (1932). Research in the treatment of young criminals in London with particular reference to the English Borstal system under the aegis of the Home Office in London (1932-34); Delegate to the International Conference of Agricultural Economists in Germany (1932); Advocate, Calcutta High Court (1935); worked in the Chambers of Mr. S. R. Das, now Chief Justice of India (1935-42); Chairman, Cttee. of Enquiry into the working of the House of Detention and the Central Children Court, Calcutta, appointed by West Bengal Govt. (1948); appeared before the Judicial Reforms Cttee. for the State of West Bengal making suggestions for reforms (1950); Advocate, Supreme Court (1953); practised in Calcutta High Court (1955-58). *Publications*: *The English Borstal System*; Report on the results of enquiry into the House of Detention and the Central Children Court, Calcutta. *Recreations*: Reading, Games. *Clubs*: Cuttack Club. *Address*: No. 1, Cantonment Road, Cuttack.

BARTOS, John Frank, Managing Director, Bata Shoe Co., Private Ltd., Calcutta, and Far East Regional Head of Western Bata Organisation; also Director in other Bata Companies in Far East.



b. November 21, 1900 in Zlin, Czechoslovakia; *British subject*; *Educ.*: in Czechoslovakia and U.S.A. Started his career in Bata organisation in Zlin, came to India in 1933 and assumed charge of Bata organisation here; built up Batanagar, an industrial town 13 miles south of Calcutta; connected with various public bodies and organisations; Past Pres., Rotary Club of Calcutta; ex-Chairman, Institution of Rubber Calcutta; Chairman, Institution of Rubber Industry (London), Indian Section; member, Calcutta Club, etc.; Vice-President, Bengal Olympic Association; member, Governing Body, Calcutta Blind School; Patron: Indian Schools Sports Assoc., Bengal; South Calcutta Bharat Scouts and Guides, etc. *Publications*: *Evolution of Indian Shoemaking*—an outline of the history of shoemaking in India. *Address*: 5, Mayfair, Calcutta 19.

BARUA, Dr. Birinchi Kumar, M.A., B.L., Ph.D. (Lond.), Writer in Assamese and English; Professor and Dean of the Faculty of Arts, Gauhati University. *b.* Nov. 20, 1910; *Educ.*: Calcutta, London, Oxford, Upsala (Sweden); member, Official Language Commn. Govt. of India, appointed in 1955. *Publications*: *Assamese Literature* (P.R.N. publication); *A Cultural History of Assam*; *Studies in Early Assamese Literature*; *Jibonir Batol* (a novel in Assamese); *Purnai Katha Sakhya*; *Sakhya Aru Abhyojanana*; *Aghori Beti*; *Pai Parivartan*; *Ankya-Nai* (edited); *Baudha Dharma Aru Sakhya*; *Early Geography of Assam*; *Mahamoka Kavya* (edited); *Assamiya Bhaska Aru Samakriti*; *Modern Assamese Literature*. *Address*: Gauhati, Assam.

BARVAPUNNAIAH, Mahammad, Communist Leader, member, Secretariat; M.P. *b.* Dec. 14, 1914; *Educ.*: Noble Coll., Masulipatam; A. C. Coll., Gunbar; studied upto B.A. Class. Secy., Gunter Dist. Communist Cttee., 1939-43; Secy., Andhra Prov. Students' Federation, 1937-39; Secretariat member,

Andhra Communist Cttee., 1942-56; Secy., Andhra Provincial Cttee., 1957-58; member, Central Cttee., C.P.I., 1948-58. *Publications*: A number of political pamphlets. *Recreations*: Swimming, Horticulture and Game. *Address*: No. 4, Windsor Place, New Delhi.

BASHER, Shethk Mohammed, Managing Director, Juggilal Kamlat Iron and Steel Co., Ltd.; Partner, Indian National Tannery and Proprietor, Auto Service Garage, Kanpur. *b.* September 1902; *Educ.*: B.Sc., Allahabad; B.Com. (Lond.), F.R.E.S., Bar-at-Law (Middle Temple). Ex-Member, Municipal Board and Ex-Member, Kanpur Development Board; Ex-Director, Reserve Bank of India (Northern Delhi area); Member, Iron and Steel Panels (both Major and Minor) of Govt. of India for Post-War Development; Founder member and Ex-President, Rotary Club of Kanpur and Merchants' Chamber of U.P.; was Honorary Magistrate; Captain, Indian Gymkhana Club in London, 1924 and 1928. *Recreations*: Shooting, Cricket and Tennis. *Address*: Bashir Lodge, Kanpur.



BASU, Jyoti, B.A., Bar-at-Law, Communist leader, M.L.A. (West Bengal); Leader of the Opposition, West Bengal Leg. Assembly. *b.* July 8, 1914; *Educ.*: St. Xavier's Coll. and Presidency Coll., Calcutta. Barrister, Calcutta High Court; member: Communist Party of India, since 1940; Central Exe. Cttee. and National Council, C.P.I.; member and Secy., West Bengal Cttee., C.P.I.; detained without trial and imprisoned as undesirable on several occasions since 1948. *Address*: 55, Hindusthan Park, Calcutta 29.

BASU, Saradindu, M.Sc., F.N.I., F.N.A.Sc., F.I.P.S., Director-General of Observatories, India Meteorological Deptt. *b.* Oct. 23, 1903; *Educ.*: Govt. High School, Basti, U.P. (1914-19); Govt. High School, Gorakhpur, U.P. (1919-20); Muir Central Coll., Allahabad, Univ., 1920-27. Joined Indian Meteorological Service, 1927; held various offices in the India Meteorological Deptt.; Indian Representative to the International Meteorological Conferences at Hongkong, 1937, at Paris, 1946 and 1951 and at Geneva, 1955; elected Vice-Pres., Climatological Commission of the World Meteorological Organisation (W.M.O.); is now India's member, Commissions for Synoptic Meteorology and for Aeronautical Meteorology of the W.M.O.; Permanent Representative of India to the W.M.O. since 1954; Pres. of its Regional Assoc. II (Asia); is also member, Special Cttee. of the International Union of Geodesy and Geophysics for the International Geophysical Year, 1957-58; Chairman, Standing Advisory Board for Astronomy of India; Member: Physical Research Cttee., Council of Scientific & Industrial Research, Govt. of India and National Cttee. of India for the International Geophysical Year, 1957-58. *Publications*: 10 Papers on meteorological and scientific subjects in various journals. *Recreations*: Gardening, Music, Literary pursuits. *Address*: Meteorological Office, Lodi Road, New Delhi 8.

BATRA, Ratan, Artist. *b.* Sept. 14, 1912 in Amritsar; *Educ.*: in Lahore and later in the Mayo School of Art; was one of the six art students to work on the frescoes (Mughal Style) in the domes above the main entrances of the south block of the Indian Secretariat, Delhi; recipient of a merit scholarship and John Lawrence scholarship for 8 years; won a prize of the Punjab Fine Art Society. Joined the "Times of India," Art Department, 1933; passed meritiously the Advance Painting Examination of the Sir J. J. School of Art; worked on his own and established Studio Ratan Batra, 1936; later, founded Nanjhi

Sales and Publicity Ltd.; was associated with the Art & Industry Movement, 1945-48; Life member, Art Society of India, Bombay Art Society, All-India Arts and Crafts Society, New Delhi; member, All-India Board of Technical Studies in Applied Art, Ministry of Education, Govt. of India; Indian Society of Oriental Art, Calcutta; Promoter, Commercial Artists' Guild and Society of Advertising Practitioners. *Address*: Ilaco House, 518 Pithorabhai Mehta Road, Fort, Bombay.

BAYLIE, Clifford Henry, B.A. (Oxon.), United Kingdom Trade Commissioner in charge at Bombay since March 24, 1955. *b.* March 20, 1915; *Educ.*: Alcester Grammar School; Keble Coll., Oxford; 1st Class Hon. in Modern History, 1937. Harrods Ltd., 1937-40; service in H.M. Forces (R.A.S.C.), 1940-46. Board of Trade, London (1947-55). *Clubs*: Willingdon Club; Royal Bombay Yacht Club; Oriental Club, London. *Address*: Office: Mercantile Bank Buildings, Mahatma Gandhi Road, Bombay 1; *Residence*: 1st Fl. "Madhu Kunj", Narayan Dabholkar Road, Malabar Hill, Bombay 6.

BEDI, Rajinder Singh, Author, Producer (Films) and Screenplay-Wright. *b.* Sept. 1, 1915; *Educ.*: D. A. V. Coll., Lahore. Clerk in Post Office, 1933-40; Playwright with A.I.R., Lahore; Programmes Asst. with A.I.R., Lahore, 1941-44; I/C, Far Eastern Broadcasts—N. India Languages in G.H.Q. G.S.I.Q., Delhi, 1945-46; Mg. Director, Sangam Publishers Ltd., Lahore, 1946-47; Station Director, Jammu & Kashmir Broadcasting Service, 1947-48; produced "Garm Coat"; "Lal Battli"; written "Badi Behen", "Aaram", "Daag", "Badnam", "Bahu Beti", "Mirza Ghalib", "Barati", "Milap", "Dev Das", "Baant Bahar", "Madhu Mati", "Musafir", "Dhake Ki Mummul", "Garm Coat" and 10 others. *Publications*: *Dana-o-Dam*; *Graham*; *Kokh-Jali* (short stories); *Bejan Chosen*; *Saat Khat* (Plays). *Address*: 18, Society Building, Opp. Don Bosco School Ground, Matunga, Bombay 19.

BEG, Mr. Justice Nasir Ullah, B.A. (Madras), M.A. (Cantab.), Judge, High Court, Allahabad, since June 1951. *b.* June 4, 1908; *Educ.*: Passed S.L.C. Exam. in the first class with distinction in Science, 1919; Intermediate Exam. from Nizam Coll., Hyderabad in the first class with distinction in Ancient History and Logic, 1921; awarded Lord Pentland Gold Medal for Muslim student who was first in the Univ.; B.A. from Presidency Coll., Madras with first class in Philosophy, 1923; awarded Scott Elocution Prize from the Presidency Coll.; B.A. (Hons.) in Law from Trinity Coll., Cambridge with 1st class in Qualifying Exam. in Law; took M.A. degree from Trinity Coll., Cambridge; called to the Bar from Gray's Inn, Jan. 1929. Asst. Govt. Advocate, Chief Court of Avadh, 1941-46; Govt. Advocate, Chief Court of Avadh, 1946-48; Govt. Advocate, High Court at Allahabad, 1948-51. *Recreation*: Golf. *Address*: High Court, Allahabad.

BELVALKAR, Sharada Krishna, M.A., Ph.D. (Harvard Univ.), I.E.S. (Retd.), F.R.A.S. (Lond.), Indologist. *b.* Dec. 12, 1880; *Educ.*: Rajaram Coll., Kolhapur and Deccan Coll., Poona and at Harvard. Prof. of Sanskrit, Deccan Coll., 1914-34; Gujarat Coll., Ahmedabad, 1935; Univ. Prof. of Sanskrit, Banaras Hindu Univ., 1935-38; Banu Malik Lecturer on Vedanta Philosophy (Calcutta Univ., 1935); one of the principal founders of the Bhandarkar Oriental Research Institute, Poona, and its Hon. Secy., 1916-18 and 1927-33; General Editor of the B.O.E. Institute's critical edition of the Mahabharata, since April 1943; Editor, *Bhahmaparvan* (pub. 1947), *Shantiparvan* (4 vols., 1949-50) and the concluding four Parvans (1957-59); President, All-India Oriental Conference, Twelfth (1943, Banaras) Session, and of the Asiatic Society of Bombay.

Publications: *Systems of Sanskrit Grammar*; Edition and translation of Bhavabhuti's *Later History of Rame* in the Harvard Or. Series; *Kalidasa's Shakuntala* for the Sahitya Academy, New Delhi; English translation of Kavyadarasa; critical editions with notes and translation of the Bhagavadgita, and Brahmasutrabhashya; and (in collaboration with Prof. Banerji) *History of Indian Philosophy*, Vols. 2 and 7; besides, over 250 papers on various aspects of Indology published in Oriental Journals of India and outside. **Address:** "Bilvakunja," Poona No. 4.

BENDRE, Dattatreya Ramachandra, B.A. (Bom.), M.A. (Bom.), Kannada Writer; Advisor, A.I.R., Dharwar, 6 Jan. 31, 1936; **Educ.:** Dharwar and Poona. Life member, K. E. Society, Dharwar, 1918-21; one of the founders, Rashitreyya Mahavidyalaya, Dharwar; Teacher, V. H. School, till 1932; in jail and on parole under suspension clause, 1931-32; Editor, *Svadharmas, Jayakarnataka* and *Jeevan*, cultural magazines; cultural activities of *Tejavar Gumpu*; Pres., All Karnataka Sahitya Sammelan, Shimoga, 1943; Professor of Kannada; B. M. Coll. of Commerce and D. A. V. Coll., Sholapur, 1942-56; Producer, Spoken Word and Literary Adviser, A.I.R., Dharwar, 1956; member, Kannada Advisory Board Sahitya Akademi; member on the Executive Board, Sahitya Akademi, 1958. **Publications:** *Gari* and thirteen volumes of poems, 2 volumes of plays, 4 volumes of literary criticism and other works. **Address:** Sadhaukeri, Dharwar.

BENDRE, Narayan Shridhar, B.A. (Agra Univ.), U.D. Art (Bombay), Painter; Professor and Head of the Dept. of Painting, Faculty of Fine Arts, Maharaja Sayajirao Univ. of Baroda, since 1950. 6 Aug. 21, 1910; **Educ.:** Holkar Coll., Indore; formal training at School of Art, Indore, under the guidance of Sri D. D. Deolalikar; training in Graphic Arts at Art Students' League, New York, U.S.A. and in Ceramic art at Y.W.C.A., New York, 1947. Artist-cum-Journalist at Visitors' Bureau, Kashmir, 1936-39; Free lance artist at Bombay, 1939-50; has travelled abroad visiting U.K., Middle European countries, and U.S.A., 1947-48 and Middle East countries in 1958; member, First Govt. of India's Cultural Delegation to China, 1952; member, General Council and Executive Board, Lalit Kala Akademi; Pres. Art Society of India, Bombay, 1957; has won numerous prizes at major Art Centres in India; paintings collected at various museums in this country and some private collections abroad; held one man shows at Bombay, 1943, 1950 and 1957. **Address:** Baroda University, Baroda.

SHARMA, C. H., M.A., B.Com., J.P., Vice-Chairman, Central Bank of India Ltd., and Oriental Assurance Co. Ltd., etc. Ex-Chairman, Eastern Shipping Corporation, 6 July 22, 1910;



Educ.: St. Xavier's College and Sydenham College of Commerce, Bombay; Fellow of St. Xavier's College (1932-34); Fellow and Lecturer in Banking Law and Practice, Sydenham College of Commerce, Bombay (1932-33); Justice of Peace; Commerce Member, Interim Government of India, September, 1946; Member, Works,

Mines & Power, Government of India, Nov. 1946; Commerce Minister, Govt. of India, 15th August 1947; resigned, April 1948; Leader of the Indian Delegation to World Trade Conference, Havana, November 1947; Vice-Chairman, Rural Banking Enquiry Ctee.; elected Vice-President, International World Trade Conference, Havana, November 1947. **Publications:** Contributions to Journals and Newspapers on Banking and Commercial topics. **Hobbies:** Riding, Swimming, Photography. **Address:** Construction House, Ballard Estate, Bombay 1.

SHARMA, Dr. Homi Jehangir, B.A. (Cantab.), 1930, Ph.D. (Cantab.), 1934, D.Sc. Honoris Causa (Patna), 1944, (Lucknow), 1949, (Banaras), 1950, (Agra), 1952, (Perth), 1954, F.R.S., 1941, Padma Bhushan, 1954, Director and Professor of Theoretical Physics, Tata Institute of Fundamental Research, Bombay; Secretary to the Govt. of India, Department of Atomic Energy; Chairman, Atomic Energy Commission, India; and Director, Atomic Energy Establishment, Trombay, Bombay. 6 Oct. 30, 1909; **Educ.:** Cathedral and John Connon High School, Elphinstone Coll., and Royal Institute of Science, Bombay; Gonville and Caius College, Cambridge; in Cambridge he had Rouse Ball Travelling Studentship in Mathematics in 1932, and Isaac Newton Studentship from 1934; held the Senior Studentship of the Exhibition of 1931 from 1936. Became special Reader in Theoretical Physics in 1940 at the Indian Institute of Science, Bangalore; Adams Prize, 1942; Professor, Cosmic Ray Research Unit, Indian Institute of Science, 1942-45; Hopkins Prize, 1948; Pres., Indian Science Congress, 1951; Pres., International Conference on the Peaceful Uses of Atomic Energy, Geneva, Aug. 1955; Hon. Fellow, Gonville & Caius Colleges, Cambridge, 1957; Hon. Fellow Royal Society of Edinburgh, 1957; member, Scientific Advisory Ctee., International Atomic Energy Council. **Publications:** On quantum theory, elementary physical particles, cosmic radiation. **Address:** 12, Little Gibbs Road, Bombay 6.

SHAGAT, Dhanraj, Incharge, Sculpture Section, Delhi Polytechnic, Delhi, 6 Dec. 20, 1917; Educ.: Lahore (West Pakistan). Apart from many Silver Medals and Cash prizes, won Governor's Gold Medal at Akademi of Fine Art, Calcutta; exhibited all over India and abroad; visited U.S.A. on Rockefeller fellowship and toured throughout the continent and England; executed several works for Govt. and semi-Govt. buildings; held many group shows and four one man shows of sculpture; works and review published in most of the important Art Journals in India and abroad; competed in an international competition for unknown political prisoners; his works are in the Modern Gallery of Indian Art, Baroda Museum and other private collections in India and abroad; some important works have been acquired by the Prime Minister of India. **Address:** Art Deptt., Delhi Polytechnic, Kashmiri Gate, Delhi.

SHAGAT, Pheroomal Ghanashamdas, B.Sc. (Glasgow), A.M.I.C.E., M.I.E. (India), General Manager, Coal Washeries, Hindustan Steel Private Ltd. 6 Sept. 19, 1900; **Educ.:** Karachi and Glasgow. Served for 24 years with the Govt. of India in the India Store Dept. and retired as Director General, India Store Dept., London; General Manager, Turner Hoare & Co., Ltd., Bombay for five and a half years. **Club:** Delhi Gymkhana Club. **Address:** Hindustan Steel Private Ltd., 2, Fairlie Place, Calcutta.

SHAGAVANTAM, Dr. S., M.Sc. (Madras) (Hon.), D.Sc. (Andhra), Director, Indian Institute of Science, Bangalore since March 1957. 6 Oct 14, 1909; **Educ.:** Nizam Coll., Hyderabad; Indian Assoc. for the Cultivation of Science, Calcutta. Professor of Physics and Principal, Andhra Univ., Waltair, 1932-48; Indian Scientific Liaison Officer, B.C.S.O., London, 1948-49; Director, Physical Laboratories, Osmania Univ., Hyderabad, 1949-52; Pres., Physics Section, Indian Science Congress, 1946; Convener, General Education Team appointed by the Govt. of India to visit U.S.A. and U.K., 1956. Vice-Chancellor, Osmania University 1952-57. **Publications:** Several scientific papers and two books, viz. *Scattering of Light and Raman Effect* and *Theory of Groups and Its Application to Physical Problems*. **Address:** Indian Institute of Science, Bangalore.

SHAGAVADACHARYA, Panditaraj Swami, Sanskrit Poet and Philosopher; is the disciple of Swami Rama Manohara Prasada Acharya, Ayodhya. 6. 1890 at Sialkot; **Educ.:** Ayodhya, Kasi, Mithila. Is a Sanyasi of the Shri Ramanand Sampradaya; was initiated into the order by the great Acharya Swami Shri Rama Manohara Prasadaji of the Shri Bindugadi of Ayodhya; was responsible for convincing the people and proving with the authority of scriptures during the Kumbha Mela in Ujjain in the Vikram year 1978 that Shri Ramanand Sampradaya was an independent Shri Sampradaya and not merely a sect of one of the pupils of the Ramanuja Sampradaya. **Publications:** about 100 in various languages and include authoritative writings on the Vedas, Upanishads, Vedants, etc. and epics in Sanskrit language like *Rharataparjatan, Parjatapaharsh, Parjata Saurabham* and *Ramananda Digvijayam, Sama Samakara Bhashyam* on Samaveda; *Vaidic Bhashyam* on Brahmanandrum of Vyas; *Bhagavad-bhashyam* of Bhagavadgita. **Recreations:** Pursuit of knowledge and search for truth, **Address:** Rajnagar Society, Ellis Bridge, Ahmedabad 7.

SHAGAVANTHE RAO, Enagani, M.A., J.J.B. Minister for Endowments and Small Scale Industries, Andhra Pradesh, Hyderabad, since Dec. 25, 1957. 6 July 1, 1923; **Educ.:** Graduated from Andhra Christian Coll., Guntur, 1946; M.A., L.L.B., from Nagpur Univ., 1947-49. Joined Bar, 1951; elected to Andhra State Legislative Assembly, 1955; Pres., Backward Classes Assoc., Andhra State, 1955-56. **Address:** Minister for Endowments, Andhra Pradesh, Hyderabad; **Permanent Address:** Rajale, Guntur Dist., Andhra Pradesh.

SHAGVAT, Kumari Durga Narayan, M.A., Marathi Writer; Professor of Sociology, Gokhale Institute, Poona. 6 Feb. 10, 1910; **Educ.:** Bombay, Poona, Ahmednagar, Dharwar and Nasik; B.A. in Sanskrit with first class, 1932; M.A. by submitting thesis on Buddhist Jurisprudence, 1935. Fellow, St. Xavier's Coll., Bombay, 1932-34; Research Fellow, School of Economics and Sociology, 1937-40; started independent career in Anthropology, Sociology, Philology and folklore, 1942; has specialised in literary essays and cultural stories in Marathi; awarded first prize for her Marathi treatise, an outline of Indian folklore and for her literary essays viz. *Bhutchakra* or the cycle of seasons. **Publications:** English: *Early Buddhist Jurisprudence; A Primer of Anthropology; An Outline of Indian Folklore*, and three others; Marathi: *Purusa; Rutuchakra; Rajaram Shastri Bhagwat Yancha Charitra; Tulshichra; Lagna*, and five others. **Recreations:** Sewing, Reading, Cooking. **Address:** Javeri Villa, Glider Lane, Bombay 8; Gokhale Institute, Poona 4.

SHAGWATI, Mr. Justice Natwarlal Hardial, M.A., L.L.B., Judge, Supreme Court of India, New Delhi, since Sept. 8, 1952. 6 August 7, 1894; **Educ.:** Baroda Coll., Elphinstone Coll. and Govt. Law Coll., Bombay. Senior Daxina Fellow, Elphinstone Coll., Bombay. Advocate (O.S.), High Court, Bombay; sometime Professor, Government Law Coll., Bombay; sometime member of the Bar Council; Vice-Chancellor, Univ. of Bombay, 1949-51; Judge, Bombay High Court, 1944-52. **Publications:** Translation into Gujarati of V. L. Mehta's *Co-operative Movement*, for the Gujarat Vernacular Society; Edited *Mulla's Law of Insolvency in India*. **Address:** Supreme Court, New Delhi.

SHAKTAVATELUM, M., Minister for Agriculture, Home, Courts and Prisons, Prohibition, Govt. of Madras. 6. 1897. Gave up practice at the Bar, 1927; was connected with "India" a Tamil daily; Deputy Mayor, Madras Corporation, 1936; was member and Vice-President, Chingleput District Board for 6 years from 1932; Vice-President, Tamil Nad

Congress Committee, 1935; acted as Secretary, Tamil Nad Congress Committee for a number of years; member, All-India Congress Committee; Parliamentary Secretary to the Minister for Local Administration in the first Congress Ministry, 1937; Public Works Minister, Madras, 1946-51; Convener, Bharat Sevak Samaj (Tamil Nad Branch); Minister for Agriculture and Community Projects, Madras, 1953-54. Address: "Mallika", Myslapore, Madras.

SHAN, Pandit Durga Prasad, Oriental Astrologer and Director, Bhrihu Institute of Scientific Astrological Research. b. Aug. 13, 1910, of an ancient family of Jagirdars, Gwalior; Educ.: Victoria Coll., Gwalior, 1927-30. Has been conducting research on scientific lines in Astrology, Numerology, Mole Science, Physiognomy and Palmistry; is a pioneer in the field of astrology; many of his predictions of national importance have come true; work commended by leading men in India and abroad; as Director,



Bhrihu Institute of Scientific Astrological Research, is actively engaged in raising the science of astrology to higher standards of perfection. Publications: *Can heavenly stars influence your destiny? Is Astrology a perfect Science? How to predict about a man, a nation and the world as a whole? What are the inner secrets of the nine Planets of the Astral World? Recreations*: Reading books on other worlds written in Sanskrit by the Great Rishis of ancient India. Address: A-131, Vinaynagar, New Delhi 8.

SHANDARI, Chief Justice Amar Nath, B.A. (Hons.), Bar-at-Law, Chief Justice, High Court, Punjab (India), since 1952. b. November 21, 1899; Educ.: Punjab and Oxford Universities. Entered Indian Civil Service, Oct. 1924; Dy. Commissioner, Gujrat, Sialkot & Karnal (1929-32); Sessions Judge, Montgomery and Delhi (1933-39); Dy. Secy. and Secy. to Govt., Punjab Legislative Dept. (1939-44); Judge, High Court, Lahore, 1944-47 and East Punjab High Court, 1947-52; Fellow of the Punjab Univ.; Recreations: Gardening and Travelling. Clubs: Simla Amateur Dramatic Club; Annandale Gymkhana Club (President); Delhi Gymkhana Club; Gulmarg Club; Chandigarh Club (President). Address: Punjab High Court, Chandigarh.

SHANDARI, Mr. Justice Doulat Mal, M.A., LL.B., Judge, Rajasthan High Court, since July 26, 1955. b. Dec. 16, 1907; Educ.: Maharaja Coll., Jaipur; Canning Coll., Lucknow. Started practice in Jaipur City, 1930; took part in Independence movement of 1942; elected member, Leg. Council of the former Jaipur State, 1945; elected leader of the Praja Mandal Party in the Council; Development Minister, former Jaipur State, 1947-49; nominated member, All-India Bar Ctee.; elected member of the Lok Sabha, 1952. Address: 2, Museum Road, Jaipur; Ship-house, Jodhpur.

SHANDARI, S. N., Jain Ratna, Industrialist and Banker of Indore. b. 1904. Chairman, Board of Directors: Nandlal Bhandari Mill Ltd.; The Central India Insurance Co., Ltd.; Nandlal Bhandari & Sons (Private) Ltd.; Member: Aid-to-Industries Board and Cotton Ctee. of the State; Roberts Nursing Home Managing Ctee.; Working Ctee., Madhya Pradesh Millowners' Assoc., Indore and Indore Labour Housing Ctee.; Local Advisory Ctee. of the Regional Centre at Indore of the Ahmedabad Textile Industry's Research Assoc. and Indian Merchants' Chamber, Bombay; Dir., Madhya Pradesh Financial



Corporation and Bank of Indore Ltd.; Patron, Rifle Club, Daly Coll., Indore; Vice-Pres., Madhya Bharat Chamber of Commerce, Indore; Ex-Chairman, Working Ctee., All-India Industrial-cum-Agricultural Exhibition, held at Indore in 1951; recipient of high honours of Gold Anklet from Udaipur Durbar; has liberally donated for social, educational, medical and religious advancement; runs a Boarding House at Rampura and the Nandlal Bhandari High School at Indore, imparting vocational training; has provided ample amenities for mill workers; takes keen interest in economic and industrial development of the country; visited Japan, America and the Continent on an industrial tour and acquired deep knowledge of the textile industry there. Address: Nandanwan, 19, Tukoganj, Indore.

SHARDWAJ, Manohar Lal, B.A. (Hons.) (Economics), Registrar of Newspapers for India, Govt. of India, Ministry of Information & Broadcasting, since July 1, 1956. b. July 27, 1913; Educ.: D. A. V. High School, Lahore, 1929-29; Forman Christian Coll., Lahore, 1929-34; Punjab Univ. Worked for seven years on the editorial staff of the "C. & M. Gazette", Lahore as Reporter, Special Representative and Political Correspondent; Information Officer, Press Information Bureau, Oct. 1941-June 1945; appointed Dy. Principal Information Officer, incharge of Regional Office P.I.B., Lahore, June 1945, and immediately after partition acted as Public Relations Officer to the first Indian High Commissioner in Pakistan and later appointed Director, Information & Publicity, Ministry of Relief and Rehabilitation; Director, Indian Information Services, Ministry of External Affairs, 1948-49; Deputy Principal Information Officer, Ministry of Defence, Sept. 1953-March 1954; Principal Information Officer to the Govt. of India, March 1954-Oct. 1955; Officer on Special Duty, Ministry of Information and Broadcasting, Govt. of India, Oct. 1955-June 30, 1956; represented India at the Colombo Plan Information Officers' Conference, Singapore, Sept. 1956. Club: Delhi Gymkhana Club, New Delhi. Address: Ministry of Information and Broadcasting, Govt. of India, New Delhi.

SHARGAVA, Dr. Gopi Chand, Minister for Finance and Planning, Punjab. b. March 1890 at Sirsa; Educ.: In his home town, Hisar and D. A. V. and Medical Colleges in Lahore. Practised as a doctor; entered the political arena under the leadership of the late Lala Lajpat Rai; was elected member, Municipal Ctee. and Pres., Lahore Congress Ctee.; chosen as member, old Punjab Legislative Council, 1927; resigned in 1929 as a protest against the repressive policy of the Govt.; was General Secy., Reception Ctee. of session of Congress at Lahore; gave up practice in 1935 to concentrate on politics; arrested during non-co-operation movement in 1921 and in 1923; detained twice during C. D. movement of 1940 and 1942; released in 1943; elected to the Punjab Legislative Assembly, 1937 and was elected as leader of the Opposition; is essentially a constructive worker; was returned to the Assembly, 1946; elected leader of the Congress Assembly Party in the East Punjab. Premier, East Punjab, August 15, 1947-June 1951. Address: Amrit Nivas, Nicholson Road, Ambala Cantt.

SHARGAVA, Kalra Prasad, M.A. (Allahabad), I.C.S., Chairman, Inter-State Transport Commission, since July 1958. b. July 15, 1908; Educ.: Agra Coll., Agra; Allahabad Univ.; Emmanuel Coll., Cambridge. Passed the I.C.S. Exam. in India, 1931; spent the probationary period at Cambridge; allotted to the U.P. Cadre of the Service; Food Commissioner, U.P., April 1951-Feb. 1953; Chief Secy., U.P., March 1953-Aug. 1954; Chief Commr., Bhopal, Dec. 1954-Oct. 1956; Chief Commissioner, Tripura, Nov. 1956-July 1958. Recreations: Photography, Gardening. Club: Moham-

mad Bagh Club, Lucknow. Address: C/o Ministry of Transport, Govt. of India, New Delhi.

SHARGAVA, Krishna Dayal, M.A., Director of Archives, Govt. of India. b. Oct. 3, 1912; Educ.: Govt. Coll., Ajmer, Allahabad Univ.; Served as Lecturer in History, Govt. Coll., Ajmer; joined the National Archives of India as a Senior Technical Asst., 1942; Narrator, Historical Section, Ministry of Defence, 1948-50; Dy. Director, Research and Reference Division and Dy. Director (Editorial), Publications Division (till the close of 1955). Publications: *The Re-conquest of Burma*, Vol. I (Partly); *The Teachings of the Buddha* (1956). Recreations: Cricket, Contract Bridge. Address: 84M, Connaught Circus, New Delhi.

SHARGAVA, Manmohan Prasad, M.Sc., B.Com., Additional Co-operation Commissioner, Ministry of Food and Agriculture. b. Dec. 24, 1913; Educ.: Univ. of Minnesota, U.S.A.; S. D. Coll. and D. A. V. Coll., Kanpur. Inspector, Co-operative Societies, Madhya Pradesh, 1936-48; Assistant Registrar, Co-operative Societies, M.P.; Asstt. Economic and Statistical Adviser, Ministry of Food and Agriculture, 1948-50; Asstt. Chief of the Food and Agriculture Division, Planning Commission, 1950-51; Chief, Food and Agriculture Division, Planning Commission, 1951-55; Secy., Co-operative Law Ctee.; Secy., Co-operative Delegation to China; member, Working group on Industrial Co-operatives. Address: C/o Ministry of Food and Agriculture, New Delhi.

SHARGAVA, Shyam Behari Lal, Managing Director, Rajasthan Financial Corporation. b. 1903, of an ancient family of scholars in Jaipur; Educ.: B.Com. from the Hyderabad Coll. of Commerce and Economics, Bombay, 1928. Joined the Accounts Office of the former Jaipur Govt. early in 1927; served in various responsible posts in that office; services lent to the Bank of Jaipur Ltd. on its inception, 1943; became Manager, Head Office and Controller of all Rajasthan Branches; organized the Rajasthan Financial Corporation from the very beginning, 1955; appointed its first Managing Director; is Chairman, Jaipur Co-operative Stores Ltd.; member, Exec. Ctee., Rajasthan Chamber of Commerce and Industry; Jaipur Chamber of Commerce and Industry; Vice-Pres., All-India Bhargava Sabha, State Treasurer, Bharat Scouts and Guides, Rajasthan; Takes active interest in other social activities. Address: Krishna Bhawan, Amer Road, Jaipur.



SHARGAVA, Mr. Justice Vashishtha, B.Sc. (Hons.), M.Sc. (Allahabad), Judge, High Court of Judicature at Allahabad, since 1949. b. Feb. 5, 1906; Educ.: Govt. High School, Meerut; Govt. High School, Pratapgarh; Rwing Christian Coll., Allahabad; Univ. of Allahabad. Joined the Indian Civil Service, 1930; Joint Magistrate and Asstt. Collector, U.P., 1930-35; Civil and Sessions Judge, U.P., 1935-37; Dist. and Sessions Judge, U.P., 1937-47; Addl. Commissioner, Food & Civil Supplies, U.P., 1947-48; Judicial Secy. and Legal Remembrancer, U.P. Govt., 1948-49. Recreation: Golf. Club: Allahabad Golf Club. Address: 5, Ashok Road, Allahabad (U.P.).

SHARGAVA, Mr. Justice Vinhan Datta, B.A., LL.B., Judge, High Court, Allahabad, since March 1955. b. April 30, 1901; Educ.: C. A. Intermediate Coll., Allahabad; Muz Central Coll., Allahabad; Allahabad Univ.; took LL.B., 1927. Started career as a Senior Partner, Naini Glass Works, Naini, where he worked till 1925; took to business in the name of Messrs. V. R. Bhargavas, and later in the

name of Bhargava Engineering House; started practice as Vakil, High Court, Allahabad, 1927; enrolled as Advocate, 1929; for some time Govt. Legal Adviser to trade unions; had been connected with social and educational institutions from the very beginning; was member, Arya Kumar Sammelan while he was below the age of 10; ex-Secy., Deaf and Dumb Institute; Founder Secy., Allahabad Milk Co-operative Union, Allahabad; was Manager-Secy., Arya Kanya Int. Coll.; is Pres., Allahabad Orphanage and Benevolent Institute & Annie Besant School; one of the Vice-Presidents, Allahabad Educational Society and C.A.V. Int. Coll.; Vice-Pres., Allahabad Cricket Assoc.; Secy., Shiva Sharma Sanskrit Pathshala; Gen. Secy., All India Bhargava Sabha; Pres., All India Bhargava Sammelan (1955). *Recreations:* Collecting stamps, coins, ores, conch shells, picture post-cards, animal cards, invitation cards, toys, etc. *Club:* Hind Provincial Flying Club, Ltd. (one of the Presidents and its Director). *Address:* 15, Stanley Road, Allahabad.

BHARMAL, Badredin Musaji, Partner, National Hardware & Stores Supply Co. & ("ABCO") Associated Business Corporation, Bombay. 3. 6. Feb. 10, 1915; *Educ.:* Primary education at Amrell (Saurashtra) and later at Bombay. After education joined Commercial firms in Bombay like Messrs. Lookmanji Moosaji, B.A. Husain & Co., and C. A. Gallakotwala & Co. Ltd., to acquire business experience; established the firm National Hardware & Stores Supply Co., 1940, and ("ABCO") Associated Business Corporation, 1956;



member: Govt. & Rly. Contractors' Assoc.; Islam Gymkhana; Abbas Society; Pres., Bombay Hardware Merchants' Assoc. (1956-59). *Recreations:* Commercial subjects and Literature. *Address:* 30, Sarang Street, Bombay 3; *Grams:* "Moonmouth".

BHARIN, Prem, M.A. (Political Science) (Lahore), Joint Secretary, Praja Socialist Party. 6. Dec. 27, 1917, at Rawalpindi; *Educ.:* D.A.V. School and College, Rawalpindi; and M.A. from Dyal Singh Coll., Lahore, 1939. Vice-Pres., Lahore Students Union, 1936-37; joined the Congress Socialist Party, 1937; arrested in June 1941 and detained as Security Prisoner at Lahore Fort, Montgomery Central Jail and Special Jail, Gujrat; released Feb. 1944; Joint Secy., Punjab C.S.P., 1946-47; elected to the National Executive, Socialist Party of India, 1947; Joint Secy., Socialist Party of India, 1948-52; Joint Secy., Praja Socialist Party, October, 1952; Representative of the Socialist and subsequently the Praja Socialist Party on the Preparatory Ctee., Asian Socialist Conference, Rangoon (Burma), July 1952-Jan. 1953; Secy., First Asian Socialist Conference, Rangoon, Jan. 1953; member, Fraternal Delegation of the Asian Socialist Conference to Stockholm Congress of the Socialist International, July 1953; toured Sweden, Norway, Denmark, United Kingdom, France, Switzerland, West Germany, Austria, Yugoslavia, Italy, Israel and Pakistan, July-Oct. 1953; Representative of the P.S.P. on the Asian Socialist Conference Bureau, 1956-57; arrested at New Delhi in May 1949 for defying Sec. 144 and sentenced to six months; arrested at Hissar (Punjab) in Jan. 1954, for leading Kisan satyagraha and sentenced to six months. *Publications:* *Pakistan and its Implications*—1947, Lahore. *Address:* 18, Windsor Place, New Delhi.

BHAT, Atmanand Rasoji, M.Com., M.L.C., Editor, "Sampada", Marathi Commercial monthly, Poona. 6. 1905; *Educ.:* Sydenham Coll. of Commerce and Economics, Bombay. Joined the "Kesari-Mahratta" office, 1929; retired as its Business Manager, 1952; founded the Mahratta Chamber of Commerce and In-

dustries, Poona, 1934; its Honorary Secy. since then; Pres.: Indian Languages Newspapers' Assoc., since 1949; member: Bombay Leg. Council, since 1952; Press Commission, 1953-54; Textile Enquiry Ctee., 1952-54; Textile Mills Inv. Ctee., 1957-58; Small Scale Industries Board, 1957-58 and Import Advisory Council, Govt. of India, since 1952; Bombay State Labour Laws Forms Consolidation Ctee., 1953-54; State Transport Authority, 1952-57; State Industries Advisory Council, since 1950; the Communications Board, Bombay State, 1952-56; Bombay State Apprenticeship Ctee., since 1957; Chairman, Minimum Wages (Printing Industry) Ctee., 1955; Minimum Wages (Shop or Com. Establishment) Ctee., 1958-59 and Sales Tax Enquiry Ctee., 1957-58, Bombay State; Delegate to first World Congress of Press Assoc., San Paulo (Brasil), Nov. 1954; member: Wage Board of Working Journalists, 1956-57; Faculty of Moral, Material and Social Sciences, 1954-57 and Employment Bureau, Univ. of Poona, since 1955. *Address:* 250, Sadashiv, Poona 2.

BHATTAGAR, Kalka Prasad, M.A., LL.B., Vice-Chancellor, Agra Univ., since Jan. 1, 1956. 6. May 24, 1896; *Educ.:* Agra Coll., Agra, 1912-1914; M.A.O. College, Aligarh, 1914-1919; M.A. in 1918 and LL.B. in 1919, Professor of Economics and Warden of Hostel, D.A.V. Coll., Kanpur, July 1919 to June 1940; Principal, D.A.V. Coll., Kanpur, July 1940 to Dec. 1955. *Publications:* *A History of Economic Thought; Transport in Modern India; Rural Economy of India; Co-operation in India & Abroad; In Hindi: Principles of Economics; Indian Economics; Banking, Currency and Foreign Trade.* *Address:* Vice-Chancellor, Agra University, Agra.

BHATT, Jyotindra Man Shanker, Post-Diploma in Painting, President's Gold Plaque (1956), Painter. 6. March 12, 1934; *Educ.:* Fine Arts Coll.; M.S. Univ. of Baroda, Baroda; Diploma in Painting, 1954 and Post-Diploma (Specialization), 1956; has been a painter; awarded President's Gold Plaque under the auspices of the Lalit Kala Akademi, 1956; recipient of a Cultural Scholarship of Govt. of India in Painting (1957-59) under the guidance of Prof. N. S. Bendre at Baroda; Secy. Baroda Group of Artists. *Address:* 507, Nishuvihar, Bhavnagar (Gohilwad Dist.); Fine Arts College, Baroda 2.

BHATT, Ravishanker Santeekham, B.A. (Bombay), B.A. (Hons.) (Lond.), M.A. (Lond.), Member, Barif Commission, Govt. of India, since May 1957. 6. Dec. 13, 1909; *Educ.:* Samaldas Coll., Bhavnagar; Bombay School of Economics and Sociology; B.A. (Hons.), 1932 and M.A., 1936 from London School of Economics and Political Science, London. Secy., Industrial Investment Trust, 1936-40; Secy., Diwan's Office, Bhavnagar and subsequently Nayab Diwan (Finance and Railway), 1940-47; Finance Officer, Oriental Govt. Security Life Assurance Co., 1948-53; Managing Director, Bombay State Financial Corporation, Nov. 1953-May 1957. *Publications:* Literary essays and special studies on Economics and financial subjects in various journals. *Recreations:* Cricket; Tennis. *Clubs:* Rotary Club, Bombay; University of Bombay Club. *Address:* Ewart House, Bruce Street, Bombay 1.

BHATT, Dr. Suryakant Jethalal, M.B.B.S. (Bom.), J.P. and Hon. Presidency Magistrate, Medical Practitioner; Ex-Pres., Malad Dist. Municipality. 6. Sept. 29, 1913;

Educ.: Radhanpur High School; Baroda Coll. and Grant Medical Coll., Bombay; took M.B.B.S., 1938. Worked as House Surgeon, J. J. Hospital for 1½ years; started independent practice at Malad, 1940; was Medical Officer, Choksey Charitable Dispensary, Malad and Goregaon and Manori Local Board Dispensaries; Divisional Medical Officer, A.R.F., Malad Divn., during World

War II; Life Member, St. John's Ambulance Assoc.; Secy., St. John's Ambulance Assoc., Malad Centre; member, Managing Ctee., Bombay West Suburban Branch of Indian Medical Assoc.; elected the first Pres., Malad Dist. Municipality, 1951; Pres., Shree Baj Khedawal Samaj, Bombay; Chief Medical Officer, Bombay Talkies Ltd., Malad, 1944-53; Chairman, Advisory Board of the Fatimadevi English High School, Malad; Life Member, Malad Kandivies Education Society, Malad; Hon. Treasurer, Bombay Baj Khedawal Educational Society, Bombay. *Address:* *Dispensary:* Krishna Baug, Station Road, Malad; *Residence:* Podar Estate, Block No. 21, Dastari Road, Malad.

BHATTACHARYA, Dr. Bhabani, B.A. (Hons.) (Lond.), Ph.D. (Lond.), Author and Journalist. 6. Oct. 22, 1906; *Educ.:* Patna and Londn. Since leaving Univ., engaged in historical research, journalism and literary work; was Press Attache at the Embassy of India in Washington, 1949-50; Asst. Editor, "The Illustrated Weekly of India," Bombay, 1950-52; member, Sahitya Akademi's Board for English Publications; *Some Memorable Yesterdays; Indian Cavalcade; The Golden Boat; No Many Hungers; Music for Mohini; He Who Rides a Tiger; A Goddess Named Gold.* Translations in 16 foreign languages. *Address:* "Godhull", Beson Bagh, Nagpur.

BHATTACHARYA, Mr. Justice Bimal Kumar, B.A. (Hons.) (History), M.A., LL.B., Ph.D. (Lond.), Barrister-at-Law, Judge, High Court, Calcutta, since Dec. 1957. 6. Sept. 10, 1902. *Educ.:* Presidency Coll., Calcutta; Krishnath Coll., Berhampore; Univ. Post-Graduate; Law Coll.; London School of Economics; Gray's Inn, London; First Class first in History Honours, 1923; M.A. First Class, 1925; LL.B., 1928; Ph.D. (Lond.), 1950; Lecturer in History, T. N. Jubilee Coll., Bhagalpur, (1927); Prof. of History, Diocesan Coll., Calcutta (1928-29); recipient of the Calcutta Univ. Gold Medal for Best Physique (1928); entered Judicial Service (1929); Special Magistrate (1940-42); Food Exec. Officer, Calcutta (1943); Special Officer and Dy. Controller of Rationing, Calcutta (1943-45); Addl. Chief Presidency Magte., Calcutta; Spl. Officer, Anti-corruption, W. Bengal (1949); Ghoosh Travelling Fellow, Calcutta Univ. (1949-50); Chief Presidency Magte., Calcutta (1952); Registrar, High Court, Calcutta (1952-55); Judge, Industrial Tribunal, Calcutta; Dy. Election Commissioner of India, New Delhi (1956-57). *Publications:* *Insanity and Criminal Law; Prisons, Recreations: Studies in Sociology and Law;* big game hunting. *Address:* C/o Grindlay's Bank Limited, 6, Church Lane, Calcutta-1.

BHATTACHARYA, Chalapakanta, M.A., B.L., M.P. (Lok Sabha), Editor, *The Ananda Bazar Patrika*. 6. January 1901; *Educ.:* Orthodox Sanskrit Schools; the Calcutta Aryan Institution, now the Saradacharan Aryan Institution; Presidency Coll., Calcutta Univ. Advocate, Calcutta High Court; was Secy., Bengal Bankers' Federation and Editor of its Journal; edited an English weekly "The New Era"; editorial staff of "Forward" of late Deshbandhu C. R. Das; Congress worker since 1920; member, Provincial Ctee. and the All-India Congress Committee; joined the Unity Conference at Allahabad, 1932 on invitation of Pt. Madan Mohan Malaviya and also the Congress Nationalist Party founded by him; Secretary of the Party in Bengal; member, Indian Association; member, International Press Institute, Indian Cultural Academy, International Sanskrit Institute; Secy., Dept. of Journalism; member, Senate and Syndicate, Calcutta Univ.; Secy., Sanskrit Sahitya Parishad, Bengal Akhil Bharat Devabhasa Parishad. *Publications:* *Congress in Evolution; Radcliffe Award—a case for Revision in English; and several works in Bengali.* *Address:* 24A, Hemendra Sen Street Calcutta 6.

SHATTACHARYA, Paras Chandra, M.A., Chairman, Board of Directors, State Bank of India, since March 1, 1957. b. March 1, 1903; Educ.: Univ. of Calcutta and Dacca. Joined the Indian Audit and Accounts Service, 1923; was in the Railway Accounts Dept. upto 1939; served in the Ministry of Finance, Government of India, in different capacities, 1939-52; Financial Commissioner, Railways, 1952-55; Secretary, Ministry of Finance, Govt. of India, Nov. 1955-Feb. 1957. Address: State Bank of India, Bombay.

SHATTACHARYA, Sunil, B.A. (Cal.), Secretary, the Revolutionary Socialist Party of India. b. Nov. 15, 1908; Educ.: Graduated from the Cal. Univ. while in detention in Dholi camp jail, 1933. Joined the secret revolutionary movement while a student; arrested and jailed, 1937-38; joined Congress Socialist Party as doctrinal adherent to the fundamental tenets of Marxism-Leninism, 1939; was its Organising Secy. at Delhi; broke away from the party on the question of attitude towards the Pant Resolution in the Tripuri Session of the Indian National Congress; joined the R.S.P., 1940; arrested at Allahabad as organiser of the R.S.P., 1941; figured prominently in the Lucknow-Barabanki conspiracy case; released, May 1946. Publications: Hindi Book on R.S.P. *Hi Kyun*; articles in *The Call* and *Mahatma* (Hindi weekly). Recreations: Reading of novels depicting real life of different nations; chit-chat with workers; Tennis; Volley-ball. Address: 780, Ballimaran, Delhi 6.

SHAVE, Moharya Vinoba, Social Worker. b. Sept. 11, 1895, in a Brahmin family of Gogoda village near Pn, Kolaba Dist. in Maharashtra; Educ.: Primary education in Gogoda; Baroda Coll., Baroda. At the age of 10, took a vow of celibacy and dedicated his life to the service of the country; at the age of 19, gave up studies and left home; went to Varanasi to study Sanskrit; heard of Gandhiji's historic speech at Varanasi Univ. and contacted him. Joined the Sabarmati Ashram, 1916; took a prominent part in all the activities of the Ashram; was made the head of the new Ashram at Wardha; started another hermitage at Panar on the banks of the river Dham, six miles from Wardha; was named by Gandhiji as his first representative in the individual C. D. movement, started against the Br. Govt.'s policy of involving India in the World War II, 1940; was Director, Mahila Ashram, Wardha for a long time; imprisoned in the Freedom movement; staunch advocate of a new order of Society based on non-exploitation and non-violence; originator of the Bhoodan Yagna and the Sampatidan Movement; travelled over Telangana and successfully persuaded the landlords to donate land, and made it over to the landless poor; has been on a constant walking tour since Sept. 1951 through many States to promote the cause of Bhoodan which has now reached the phase of Gramdan and Gram Rajya; has made a study of all religions; is a linguist, knows Marathi, Hindi, Gujarati, Persian, Arabic, English, Bengali, Assamese, Oriya, Tamil, Telugu, Malayalam and Kanarese; is an effective speaker. Publications: several Marathi and Hindi Books of deep scholarly nature. *Gita*, Marathi translation of Bhagavat Gita. Address: Sarva Seva Sangh, Golhar, Varanasi P.O. (U.P.).

SHAVNAGAR, Commodore His Highness Maharaja Rani Sri Sri Krishnakumarsinhji Bhavsinhji, K.O.S.I. (1938), Maharaja of. Was First Class Ruling Prince in Kathiwar. b. May 19, 1912; Educ.: at home under Major Lantaigne and A. P. Pattani; joined the Rajkumar Coll., Rajkot, 1923; proceeded to England for further studies in 1925 and joined the Rev. Brayer's School in Essex and then was admitted to Harrow; returned from England in 1928 and attended lectures in History, Politics, English, etc., at the Samaldas Coll., Bhavnagar. Lieutenant in 1927; Colonel in 1945; Hon. Commodore in the I.N. in 1947; attended meetings of the R.T.C.; toured

various parts of India, England and America; invested with ruling powers on 18th April, 1931; granted responsible government to his State, Jan. 1948; Uparajpramukh of Saurashtra Union, Feb. 1948; Acting Rajpramukh, June 1948; Governor of Madras, 1948-52. Recreations: Riding, Hunting, Raquets, Tennis, Polo, Golf, Rowing, Fishing, Farming and Cricket. Address: Nilambag Palace, Bhavnagar.

SHIDE, M. R., B.Sc. (Nagpur), B.A. (Cantab.), I.C.S., Adviser on Programme Administration, Planning Commission. b. Dec. 6, 1907; Educ.: Nagpur and Cambridge; Indian Civil Service, Jt. Secy., Dept. of Economic Affairs, Govt. of India, Dec. 1955-June 1957; Jt. Secy., Planning Comm., Govt. of India. Publications: *Marketing of Sugarcane in United Provinces*. Recreations: Cricket, Tennis and Bridge. Clubs: Cricket Club of India; Delhi Gymkhana; Roohana Club. Address: 5B, York Place, New Delhi.

SHIMASANKARAM, Mr. Justice Kanda, M.A., B.L., Judge, High Court of Andhra Pradesh, since 1956. b. Sept. 23, 1900 Educ.: Madras Christian Coll. and Law Coll., Madras, joined the Bar, 1926; elected member, Madras Bar Council, 1950; appointed Judge, Andhra High Court, 1954. Recreations: Reading. Address: 16-11-578, Gaddi Annaram, Hyderabad 2.

SHOGHALL, Pratap, M.A., Business man, b. Oct. 25, 1916; Educ.: Deccan Coll., Poona; Kiphinstone Coll., Bombay; School of Economics, Bombay. Director: Shree Ram Mills Ltd.; Bhogilal Menghraj & Co. Private Ltd., Bombay; Bhogilal Leherchand Private Ltd., Bombay, proprietors of: Batlibol & Co., Bombay including all their branches and Bhogilal Leherchand (Bombay); Batlibol Private Ltd., Bangalore; Batlibol & Co. (Hyderabad) Private Ltd., Secunderabad; Bombay Cotton Private Ltd.; Partner, Inditalia Mercantile and Industrial Corp., Bombay, Bhogilal Leherchand & Sons, Bombay, S. J. Jhaveri & Co., Bombay; and Director, South India Insee. Co. Ltd., Bombay. The New Great Insurance Company of India Ltd., Bombay; Amar Dye-Chem. Ltd., Bombay; Radio Lamp Works Ltd., Bombay; Indian Overseas Shipping Co. Ltd., Bombay. Recreations: Swimming, Clubs: C.C.I.; Willingdon Club. Address: 26, Ridge Road, Bombay 6.

SHOOTELLINGAM, Sabramanya, M.A. (Cantab.), I.C.S., O.B.E. (Jan. 1945), Secretary to the Govt. of India, Ministry of Steel, Mines & Fuel (Dept. of Iron & Steel), since 1955. b. Feb. 22, 1909; Educ.: Calcutta Coll., Cambridge. Joined I.C.S., Oct. 14, 1931; posted to Madras; served in various capacities till 1938; Officer in Charge, Agricultural Credit, Reserve Bank, Dec. 1938-40; Under Secy., Dept. of Supply, Govt. of India, Jan. 1940; served as Deputy Secy., Joint Secy., Special Secy. and Secy., Govt. of India in the Ministries of Industry & Supply and Commerce & Industry till June 1955; Collector & District Magistrate in Madras State, May to Nov. 1946; Chairman, Hindustan Steel, Aug. 1955 to April 1958; Director, Tata Iron, Indian Iron, National Industrial Development Corporation and National Coal Development Corporation; Leader of the Steel Delegation to U.K. and the Continent, 1956 and 1957-58. Clubs: Delhi Gymkhana Club. Address: 25, Tughlak Road, New Delhi 2.

SHOLE, Shikhandi Mirzala Raja, Deputy Minister for Education, Bombay, since Nov. 1956. b. Dec. 1, 1917; Educ.: Baroda and Bombay. Joined the Congress as an active working member after the merger of Akalkot State, 1948; was elected M.L.A., Bombay from North Sholapur constituency, 1952; appointed Hon. Parliamentary Secy. to the Chief Minister of Bombay, Sept. 1952; took over the Chairmanship of the Sholapur City Social Education Ctte., 1953; has been Chairman, Bombay Labour

Welfare Board, since July 1953; member of the Bombay State Bharat Scouts and Guides State Executive Ctte. and the Working Ctte. of the Bombay Art Society; is State Commissioner (Guides), Bombay State Bharat Scouts & Guides. Recreations: Reading, gardening, poultry keeping, tennis, riding, badminton, swimming, painting and Indian classical music Club: Cricket Club of India. Address: 8/A, Foreshore Road, Opp. Sachivalaya, Bombay 1; Shobha Nagar, Sholapur.

SHURAN, Vidya, G. D. Art (Bombay), Diploma in Mosaic and Fresco (Belgrade), Head of Painting Dept., Govt. Coll. of Fine Arts, Hyderabad. b. June 18, 1923; Educ.: Udgir (Dist. Bidar), former Hyderabad State; took G. D. Art (Bombay), 1944 and Diploma in Mosaic and Fresco (Belgrade), 1955. Won several prizes in A. I. art competitions, took first class in Diploma exam; held one man shows in Hyderabad and Delhi; did Murals for Niram's; also, Delhi; did several life size portraits for Govt. Buildings in Hyderabad and Delhi; won Gold Medal in Hyderabad, 1942; was free lance artist till 1952; had been to Europe for higher training, 1954-55; won President's Gold Plaque in the National Exhibition of Art at Delhi, 1957; won Silver medal in the International Exhibition of Art in Moscow, July 1957; was a Kathak dancer; member, Music and Dance Academy; Active member, Hyderabad Art Society; is an active worker in cultural affairs in Hyderabad. Address: Gagan Mahal Co-operative Colony, Hyderabad-Dn.

SIDKAR, Dattatray Malhar, Social Worker. b. March 19, 1910; Educ.: New English School, Poona; Nizam Coll., Hyderabad Left Coll. to join the C.D. movement, 1930; took up village reconstruction work; started uplift work among Adivasis, 1937; member, Gandhi Seva Sangh, 1935-40; M.L.A., Bombay, 1947-51; Sanchalak, Gandhi Smarak Nidhi, Maharashtra, 1953-57; Life worker of All India Cadre of Bhartiya Adimjati Sevak Sangh, Delhi; Pres., Dang Seva Mandal, Nasik and other Institutions engaged in constructive work. Publications: *Economic Survey of the Adivasis of Maharashtra*, in Marathi and a number of articles on Adivasis in papers. Recreations: Swimming, touring in forests, reading novels, and cinema. Address: Dang Seva Mandal, Nasik.

SUKANER, His Highness Maharaja Sri Karam Singhji Bahadur, R.A. (Hons.), M.P., Maharaja of b. April 21, 1924; Succeeded: Sept. 28, 1950; *Her Apparent*: Maharaja Kumar Narendra Singhji, b. Jan 13, 1946; Educ.: St. Stephen's Coll., Delhi; St. Xavier's Coll., Bombay; passed B.A. (Hons.) in History and Politics; conducts post-graduate research in Medieval Indian History for Doctorate of Philosophy. Visited the Middle East War Front in Nov. 1941 with his grandfather General His late Highness Maharaja Sri Ganga Singhji Bahadur, G.C.S.I., G.C.I.E., etc.; was awarded the Africa Star War Medal, Indian Service Medal; also visited Switzerland, France, England, Norway, Sweden and Egypt; elected to the first Indian Parliament as Member of Lok Sabha as an Independent by an overwhelming majority of votes, 1952; again elected to the Lok Sabha as an Independent by a margin of about 99,000 votes, 1957. Recreations: Tennis, Golf, Cricket, Mechanics, Photography, Shooting, Social Service and Flying; has qualified for Private Pilot's Licence. Clubs: Willingdon Sports Club, Bombay; Cricket Club of India, Bombay; Bombay Flying; Bombay Presidency Golf (Bombay); Western India Automobile Association (Bombay); Roohana, Delhi; Delhi Flying (Delhi); Rajputana (Ahu), etc.; member, Asiatic Society of India. Address: Lalgarh Palace, Bikaner, Rajasthan.



BILIMORIA, (Mrs.) Gulestan Rustom (née Gulestan Bahadur), M.A., Licentiate, Trinity College of Music, London; Sheriff of Bombay (1967), obtained various University and College Scholarships, was for a number of years



Fellow and Syndic of the Bombay University; her paintings have won prizes at Art Exhibitions all over India and one has been bought by and hangs in the Prince of Wales Museum; Chairman, Junior Red Cross; Chairman, United Women's Organizations Ctee.; Pres., Bombay State Women's Council; Hon. Secretary, All-India Conference of Social Work, 1949-56; Asst. Treasurer, International Conference of Social Work; Chairman, Bombay State Advisory Board for Women's Small Savings Scheme; Treasurer, Bombay State Social Welfare Advisory Board, 1954-56 and Bombay State Council on Blind Welfare; is actively connected with various other associations; has travelled widely in Europe and America and led delegations to International Conferences; gave evidence before Government Commission on Education, the University Commission; takes keen interest in her husband's Bel-Air Sanatorium at Panchgani for consumptives; contributes articles to various papers; awarded Kaiser-i-Hind Silver Medal. *Publications*: Joint Author of *Governance of India* and also of *Constitution, Functions and Finance of Indian Municipalities*, a book favourably reviewed by the Press, including the *London Times Literary Supplement*. *Address*: Thoburn House, Apollo Bunder, Bombay.

BIRLA, B. M., Industrialist. b. 1904, at Pilani, Rajasthan. One of the founders, Indian Chamber of Commerce; Pres.: Indian Chamber of Commerce, 1936 and 1944, Federation of Indian Chambers of Commerce & Industry, 1954; Founder and Pres.: Indian Sugar Mills Assoc.; Indian Paper Mills Assoc.; member, Fiscal Commission, Govt. of India; Director, Central Board of the Reserve Bank of India; Chairman: Local Board, Reserve Bank of India, Eastern Area; West Bengal Financial Corporation; Hindustan Motors Ltd.; Ruby General Insurance Co., Ltd.; India Exchange Ltd.; Managing Director, Birla Brothers Ltd.; Director: Atul Products Ltd.; Hukumchand Jute Mills and various other concerns. *Address*: 8, India Exchange Place, Calcutta 1.

BIRLA, Chamskyandas, Padma Vibhushan (1957). b. 1894. Managing Director of Birla Brothers, Ltd.; Chairman, Rehabilitation Industries Corporation; member, 2nd Indian Legislative Assembly; resigned in 1930 as a protest against legislation for Imperial Preference; President: Indian Chamber of Commerce, Calcutta, 1924; Federation of Indian Chambers of Commerce and Industry, 1929; has been responsible for the founding and maintenance of a large number of educational and other public institutions in various parts of the country; member: Indian Fiscal Commission; Bengal Legislative Council; Royal Commission on Labour; Delegate, Labour Conference at Geneva, 1927; member, 2nd Round Table Conference, 1930. Unofficial Advisor to Government of India for Indo-British Trade Negotiations, 1936-37; President, All-India Harijan Sevak Sangh. *Address*: 8, Royal Exchange Place, Calcutta.

BIRLA, Lakshminivas, Industrialist. b. 1909, at Pilani, Rajasthan; *Educ.*: at College, 1924-27. Broker, Jute and Gunny, 1926-29; Dir. in charge of Cotton Mills, Jute Mills and Engg. Industries, etc.; member, Utilisation Br., Geol Survey of India, 1944-47; Employers' delegate, 27th International Labour

Conference, 1945; Managing Director, Birla Brothers Pvt. Ltd. controlling various industries; Chairman, Bd., Industries, Govt. of West Bengal, 1953-56; member: Industrial Advisory Council, Rajasthan; War Risks Advisory Ctee., Govt. of India; Pres., Indian Chamber of Commerce, 1951-52; member, Ctee. of the Federation of Indian Chambers of Commerce & Industry. *Recreations*: Gardening; Expansion of education and learning. *Address*: Residence: Birla Niket, Raja Santosh Road, Calcutta; *Office*: 8, India Exchange Place, Calcutta.

BIRLA, Rameshwandas, Industrialist and Business man. b. May 1892; Director: Birla Bros. Private Ltd., The Cotton Agents Private Ltd. *Address*: Industry House, 159, Churchgate Reclamation, Bombay 1.

BISHOP, Major-General William Henry Alexander, C.B. (1948), O.B.E. (1941), Commander of Order of St. John of Jerusalem (1951), Deputy High Commissioner for the U.K. in India, Calcutta. b. June 20, 1887; *Educ.*: Plymouth Coll.; Royal Military Coll., Sandhurst. Served in First World War with 3rd Indian Division in Mesopotamia and Palestine, 1916-19; served in India, 1919-25; served in War Office, 1933-35; and Colonial Office, 1937-39; served in East Africa, North Africa and West Africa in Second World War, 1939-44; Regional Commissioner, North Rhine/Westphalia, 1948-50; Principal Staff Officer to Secretary of State for Commonwealth Relations, 1951-57. *Recreations*: Farming. *Clubs*: Travellers, Army and Navy, United Hunts, Bengal, Calcutta, Tollygunge. *Address*: Office of the Deputy High Commissioner for U.K., 1, Harrington Street, Calcutta 16.

BISWAS, Chera Chandra, M.A., LL.B. (Cal.), M.P., Ex-Minister for Law and Minority Affairs, Govt. of India; was Minister of State for Implementation of Prime Minister's Agreement dated 8th April 1950 and 1950-52. b. April 21, 1888, at Calcutta; *Educ.*: Hindu School and Presidency Coll., Calcutta; Ripon Law Coll., Calcutta. Enrolled Advocate, Calcutta High Court, 1910; Fellow and member, Syndicate, Calcutta Univ., 1917-22 and 1926-52; Commr. and Councillor, Calcutta Corp., 1921-37; Delegate to H.M.G.'s Ctee. in London on Reserve Bank and Statutory Rly. Board in India, 1933; Alternate Delegate to General Assembly of the League of Nations, Geneva, 1936; member: Calcutta Improvement Trust, 1926-37; Indian Leg. Assembly, 1930-37; Madcliffe Commr. for Demarcation of Boundaries of East and West Bengal and Assam, 1947; Judge, Calcutta High Court, 1937-48; Chairman, Calcutta Corp. Investigation Comm., 1948-50; Vice-Chancellor, Calcutta Univ., 1949-50; Dean, Faculty of Law, Calcutta Univ., 1938-50; Pres., China Aid Ctee., 1942; is specially interested in cultural advancement, civic welfare and politics; elected member, Rajya Sabha, since 1952; Minister for Law, Govt. of India upto April 1957. *Publications*: Occasional contributions to newspapers and periodicals. *Hobby*: Journalism. *Club*: Calcutta Club. *Address*: 58, Puddopukur Road, Elgin Road P.O., Calcutta 20.

BONERJEE, Karamchandra, M.R.S.L., (Consul for El Salvador, since 1947; ex-member, Viava-Bharati, etc.; poet and Novelist; b. Oct. 11, 1911; *Educ.*: Calcutta Univ. Entered Consular service as Chancellor of several Consulates in Calcutta; has been associated with many literary and educational institutions of Calcutta, London, Edinburgh and Paris; was associated with the Indian Red Cross Society; Pres. of several Literary and Philosophical societies. *Publications*: Contributes to journals in Bengali, Hindi, English and Spanish. *Address*: 12, P.K. Tagore Street, Calcutta 6.

BORKER, Shankar Keshav, M.Sc. (Bombay), A.R.I.C., Drugs Controller, Govt. of India, since Dec. 1956. b. Jan. 28, 1909; *Educ.*: Wilson Coll., Bombay. Govt. Medical Stores Factory, Bombay, up to 1942; Manager, Govt. Medical Stores Factory, Chheharta, Amritsar, 1942-43; associated with the erection of the factory; Addl. Officer, Medical Stores Depot, Bombay, 1943-47; Asst. Drugs Controller, Govt. of India, 1947-51, Advisory Chemist, Directorate General of Health Services, New Delhi, 1951-56; Deputy Drugs Controller, Govt. of India, May-Dec. 1956; visited the U.S.A. and Canada to study Drug Control Administration and laboratory methods of drug standardisation, 1954-55; also visited pharmaceutical manufacturing establishments in the U.S.A., England, West Germany and Switzerland; member, Indian Pharmaceutical Delegation which visited Russia, Italy and Germany in 1956 to study pharmaceutical industry in those countries; Member-Secy.: Drugs Technical Advisory Board; Indian Pharmacopoeia Ctee.; member: Development Council for Drugs, Dyes & Intermediates; Scientific Advisory Board of the Central Drug Research Institute, Lucknow; Director: Hindustan Antibiotics (Private) Ltd.; Chairman, Drugs Consultative Ctee. under the Drugs Act; Industrial Adviser, Drugs and Pharmaceuticals. *Address*: Residence: 56, Wellesly Road, New Delhi; *Office*: Directorate General of Health Services, New Delhi.

BOSE, Buddhadeva, M.A. (English), Writer in Bengali and English; Professor and Head of the Dept. of Comparative Literature, Jadavpur Univ., Calcutta, since Aug. 1956. b. Nov. 30, 1908; *Educ.*: Dacca Collegiate School and Dacca Univ. Lecturer in English, Ripon Coll. (now Surendranath Coll.), Calcutta, 1934-45; Adviser, UNESC's Seminar for Adult Education, Delhi and Mysore, 1952-53; Visiting Professor of English Literature at Pennsylvania Coll. for Women, Pittsburgh, U.S.A., 1953-54; Founder-editor of *Kavita* (Poetry), a Bengali quarterly of poetry & criticism. *Publications*: About 100 titles in Bengali; English: *An Acre of Green Grass*. *Recreations*: Reading and Conversation. *Club*: P.M.N. *Address*: Kavittabhavan, 202, Rashbehari Avenue, Calcutta 29.

BOSE, Debaki Kumar, Padma Shri (1958), Motion Picture Producer and Director, b. Nov. 25, 1898; *Educ.*: Metropolitan Institution, Central Coll. and Vidyasagar Coll., Calcutta. Joined the non-co-operation movement while taking B.A. degree examination; managed and edited a nationalist weekly for some time; came to films as a story-writer, then turned actor and director; directed his first film "Blind God" produced in 1929; has so far directed 42 pictures; floated his own producing company, 1948. *Address*: 5, Dr. Satyananda Roy Road, Calcutta 29.

BOSE, Debendra Mohan, M.A., B.Sc., Ph.D., F.N.I., Director, Bose Institute, Calcutta, since 1938. b. Nov. 26, 1885; *Educ.*: Calcutta, Cambridge, London, Berlin. Ghosh Professor of Physics, Calcutta Univ., 1914-35; Pall Prof. of Physics, Calcutta Univ., 1935-38; General Pres., Indian Science Congress, 1953; Pres., Asiatic Society, Calcutta, 1955-57. *Address*: 92/3, Upper Circular Road, Calcutta 9.

BOSE, Mr. Justice Himansu Kumar, M.A., B.L. (Calcutta), Bar-at-Law (Lond.), Judge, High Court, Calcutta, since Dec. 8, 1949. b. March 1, 1904; *Educ.*: Univ. of Calcutta; called to the Bar from Lincoln's Inn, London, June 1929. Practised as Barrister in the Calcutta High Court from Sept. 1929. *Club*: Calcutta Club, Calcutta. *Address*: 9/4, Middleton Row, Calcutta 16.

BOSE, Nandlal, D.Lit., Deshikottama, Padma Vibhushan (Jan. 26, 1958), Painter. b. Dec. 3, 1883, at Kharagpur in Monghyr (Bihar); *Educ.*: Matriculation from Calcutta, 1902; went to College; left after two years; joined Govt. Art School, Calcutta and completed the course; was thereafter a student of Abanindranath Tagore. Was Principal, School of Arts of the Oriental Society, Calcutta; joined Kala Bhavana, the school of Arts at Santiniketan as its Director, 1922; travelled in China and Japan, with poet Rabindranath Tagore, 1924; helped Mrs. Heringham and executed along with other artists copies of Ajanta Frescoes, 1909; painted frescoes in Sir J. C. Bose's Science Institute, 1919; co-operated with other artists in making copies of Bagh caves frescoes, 1921; organised exhibitions and decorated pandals at the All India Congress sessions at Lucknow, Faislpur and Haripura at the call of Mahatma Gandhi; commissioned by the Baroda Darbar, executed frescoes in the Kirti Mandir, 1939; was conferred Doctorate by the Benaras Hindu Univ., Dec. 20, 1950 and the title of Deshikottama by the Visva-Bharati Univ., Dec. 28, 1952. Emeritus Professor, Visva-Bharati Univ., Santiniketan; is an outstanding representative exponent of Indian Arts. *Publications*: *Ruparati, Ornamental arts; Silpakatha*, etc. *Address*: Santiniketan.

BOSE, Rajsekhar, M.A. (Science), B.L., D. Litt., Padma Bhushan (1956), Director, Bengal Chemical and Pharmaceutical Works Ltd., Calcutta. b. March 1880; *Educ.*: Patna and Calcutta; took his M.A. degree, 1900 and B.L., 1902; awarded Sarojini Gold Medal and Jagatnarini Gold Medal by Calcutta Univ. Manager, Bengal Chemical and Pharmaceutical Works Ltd., 1904-32; was Chairman, Univ. Cttee. for technical terms and W. Bengal Govt. Cttee. for official terms; awarded Rabindra Memorial Prize (West Bengal Govt.), 1955; awarded Padma Bhushan by the Govt. of India, 1956. *Publications*: Several collections of short stories in Bengali; A Bengali Dictionary; Translations of Ramayana and Mahabharata. *Address*: 72, Bakulbagan Road, Calcutta 25.

BOSE, Satyendra Nath, M.Sc., F.N.I., D.Sc. (Hony.) (Jadavpur), Padma Vibhushan, (M.P. Rajya Sabha), National Professor, since Oct. 1958. b. Jan. 1, 1894; *Educ.*: Presidency Coll. and Univ., Calcutta; took M.Sc. degree, 1916; worked with Madame Curie, 1924-25 and with Albert Einstein, 1925-26. Lecturer, Calcutta Univ., 1916-21; Reader, Dacca Univ., 1921-24; Professor, Dacca Univ., 1926-45; Professor, Calcutta Univ., 1945-56; Vice-Chancellor, Visva-Bharati Univ., 1956-58. *Address*: 22, Iswar Mill Lane, Calcutta 6.

BOSE, Suddi Kumar, Scholar-musician, West Bengal; Asst. Station Director in charge, A.I.R., Nagpur. b. June 23, 1914. Graduated from Calcutta Univ., 1936; Post-Graduate studies for two years; studied music under the gurus, Hanganitacharya Girija Shanker Chakravarty, Chhote Khan and Ustad Mushtaq Hussain and others; won the Calcutta Univ. Music Championship as also the Best Man's Gold Medal, and All India Music Championship (Gold Medal) organised by the Benares Hindu Univ. in 1953; represented Bengal in almost all the All India Music Conferences held in the country between 1934-38; recorded his voice in His Master's Voice, Hindusthan, Megaphone and Broadcast (Bombay) Recording Companies; Music Director in some Bengali films in Calcutta, 1933-35; member, Curriculum Cttee. for the Degree Course of Music of the Univ. of Baroda, 1950; Examiner, B. Mus. exams., Calcutta Univ.; Member, Board of Studies (Music), Nagpur Univ. 1957-58; joined All India Radio, 1939; invented one music instrument while in Dacca and named it 'Ballaki'. *Publications*: Several articles and Rotary lectures published in India and abroad in different languages. *Address*: Asst. Station Director in Charge, All India Radio, Nagpur.

BRAR, Major Sirdar Harbans Singh, Bar-at-Law, Joint Secretary and Industrial Relations Adviser to the Northern India Mercantile Chamber of Commerce, Lucknow, and the Western U.P. Chamber of Commerce, Meerut, and many other individual and large groups of industrial undertakings; landowner in Ferozepore and Hissar Districts (Punjab). b. Sept. 1904; *Educ.*: F. C. Coll., Lahore, Edinburgh Univ. and Middle Temple, London; called to the Bar in 1927; M.B.A.S. (1925), F.B.I.S.



(1926) and Governor, Royal Agricultural Society of England (1927); took training in Railway Traffic on L.M.S. (England). Has travelled extensively in almost all parts of India and has visited Europe twice; Pres., Khalsa Jatha (Assoc.), British Isles (1926-27); Joint Secy., Indian Majlis, London (1925-26); Ex-Vice-Pres., Bhupindra High School, Moga; member: Central Gurdwara Board, Punjab (1930-36); Sirhind Canal Advisory Committee (1932-37), Dist. Board, Ferozepore, 1930-52 and as Senior Vice-Chairman, held charge of the Departments of P.W.D., Public Health, Medical, Fairs and Ferries; was Chairman of the following Committees of Board: Rural Reconstruction, Development, Mass Female Education (1934-37); elected member of the Indian Leg. Assembly, 1930-34; member, Standing Finance Cttee., Govt. of India (1931-34); Standing Finance Cttee. for Railways (1932-34); Central Advisory Council for Railways and Assembly House Cttee. (1932-34); in 1934 was elected by the Indian Legislative Assembly, a member of the Court of Delhi Univ.; practised as an Advocate in Ferozepore (1927-32); appointed Judge, High Court, Patiala State, in April 1932; Chief Justice and Judicial Minister, Malerkotla State, 1936-42; in-charge of the Departments of Law and Justice, Jails, Municipalities and P.W.D.; was invested with powers of Iltias-i-Khas (1938-42); held charge of Education and Medical (1936-40); was also Pres., Claims and Advances Committees, and State Scout Commissioner, 1938-42; resigned office in Malerkotla State to join the Army for the duration of the war and served as Dy. Asstt. Welfare General and Dy. Asstt. Adjutant-General in the Indian Army from 1945-47; Head of the Labour Deptt. Indian Sugar Syndicate Ltd., Kanpur (a combine of all sugar factories in U.P. and Bihar), 1947-50; Secy. and Labour Adviser, Industrial and Power Alcohol Distillers' Assoc., 1950-52 and U.P. Sugar Mills Assoc., 1950-56. *Recreations*: Riding, Gardening and Tennis. *Address*: C/o Rajinder Narain & Co. Advocates, Connaught Place, New Delhi; Swiss Hotel, Delhi.

BROKER, Gulabdas Harjivandas, B.A. (Hons.), Gujarati Playwright and Short Story Writer; author and share broker. b. Sept. 20, 1909; *Educ.*: Forbunder High School, Bharda New High School, Bombay and Elphinstone Coll., Bombay; graduated in English literature, 1930. Joined the Satyagraha Movement; jailed in 1932 for 16 months; member, B.P.C.C. and its Executive Cttees., till 1936; began writing while in jail; won gold medal in 1943 from Sahitya Parishad in Gujarati; won first prize for best drama written during 1947-54 from Government of Bombay in 1954; several other prizes in literature; member: Advisory Board for Gujarati of Sahitya Akademi, Delhi; Executive of Sahitya Parishad, Gujarat; Jt. Secy., Gujarat Lekhak Milan and Bombay Lekhak Milan; writes criticism and poetry also. *Publications*: About a dozen and a quarter books of short stories and Plays. *Recreations*: Walking, Talking and Reading. *Clubs*: Literary Associations; Life Member and member, Executive Committee of P.E.N., India. *Address*: 26, Ghodbunder Road, Vile Parle West, Bombay 24.

BUNKER, His Excellency Ellsworth, A.B. (Yale), American Ambassador to India. b. May 11, 1894; *Educ.*: Yale University; took A.B., 1916. Business (1916-50) included interests in sugar producing and refining, shipping, insurance and banking; Trustee or Director of charitable, educational and research organizations including New School for Social Research; Institute for International Education; Experiment in International Living; Hampton Institute; Marlboro Coll., Vermont; Union Settlement, New York; Institute for International Social Research; U.S. Ambassador to Argentina, 1951-52; U.S. Ambassador to Italy, 1952-53; Pres., American Red Cross, Nov. 1953-Dec. 1956. *Recreations*: Farming, tennis, golf, sailing, reading. *Address*: American Embassy, Bahawalpur House, New Delhi.

BUTAIL, Roshan Lal, B.Sc. (Engg.), A.M. I.E.E. (London), Director (System Planning), Central Water & Power Commission (Power Wing), Simla, since July 18, 1956. b. Aug. 15, 1912; *Educ.*: Harcourt Butler School, Simla; F.C. Coll., Lahore; MacLagan Engg. Coll., Lahore; B.Sc. (Engg.), 1934; A.M.I.E.E., 1944. Served in the Simla Municipality in various capacities (maintenance of Power stations, transmission and distribution systems, project and construction works, management of utility system, etc.), 1934-40; Deputy Director, Central Water & Power Commission in the Commercial Directorate and the Load Survey & Load Development Directorates up to March 25, 1955; Director, Load Survey & Load Development, March-July, 1955; awarded U.N. Fellowship for studies in connection with preparation of Codes for Safe Design, Construction, Operation and Maintenance of Electrical Installations, in the U.K., Sweden, Norway, Germany and Switzerland, 1953-54. *Publications*: Safety from Electrical Hazards—Codes of Practice; Rural Electrification Finance—Its practice abroad and possible application in India; training of engineering personnel in electricity supply industry, etc. *Recreations*: Hiking & Gardening. *Clubs*: National Sports Club of India (Life Member); Simla District Football Assoc. (Pres.). *Address*: Residence C-3, Bemlos, Simla; Office—Director, System Planning, C.W. & P.C. (P.W.), "Clermont", Simla 4.

BUTCHI BABU, Sivaraja Venkata, Subbarao, M.A., Telugu Writer; Programme Executive, All India Radio. b. June 14, 1916. *Educ.*: A. C. Coll., Guntur; Presidency Coll., Madras; M.A. from Nagpur Univ., 1942. Worked in the Deptt. of English in Govt. Ceded Districts Coll., Anantapur, 1942-44 and Mrs. A. V. N. Coll., Vizagapatnam, 1944-45. *Publications*: Stories: *Butchibabu Kathalu; Adavikachina Vennala; Madamellu; Niran-tarn Trayam; Chaitanya Sravanti; Anapriya; Ane Nedda; Dranam Nakitchina Nandanam*. Plays: *Atmaranchana*, adjudged the best play of the year 1950 by the Andhra Nataka Kala Parishad (Kakinada); *Darini Poyye Danayya; Uttama Illatu; Advantulu—Madhya Radha*, Novel: *Chesuriki Aligiledi*; *Abhidra* Edition by Southern Languages Book Trust (1957). *Recreations*: Painting; Theatricals; Chess. *Address*: Programme Executive, All India Radio, Hyderabad (Dn).

CAMERON, Ian Harley, Managing Director, A. & F. Harvey Ltd. b. 1907, at Palamcottah, R. India. Joined Madura Mills, 1928; Chairman, Board of Directors: Madura Mills Co., Ltd., Madurai, Tuticorin and Ambasamudram; Pandyan Insurance Co. Ltd.; The Indian Textile Paper Tube Co. Ltd.; Punalur Paper Mills Ltd.; Director: Fenner, Cockill Ltd.; National Machinery Manufacturers Ltd.; Travancore Titanium Products Ltd.; South India Viscose Ltd.; All India Handloom Board; All India Handloom Fabrics & Marketing Co-operative Society Ltd., etc.; member: Cotton Textile and Cotton Control Cttee. *Recreations*: Golf, Tennis, Ornithology, Field Sports. *Address*: 6, Race Course, Madurai.

CAPOOR, Mr. Justice Shyam Bhatti, B.A., Bar-at-Law, I.C.S., Judge, Punjab High Court, since Aug. 6, 1957. b. Jan. 18, 1907; *Educ.*: Allahabad Univ.; Oxford Univ.; Middle Temple, London. Appointed to the Indian Civil Service, 1931; has worked since then in various capacities in the Punjab and Delhi including District and Sessions Judge, Legal Remembrancer to the Govt., Joint Secy. to the Govt. of India in the Ministries of Rehabilitation and Law. *Address*: 1, King Edward Road, New Delhi.

CARRIPE, General E. M., O.B.E. (1945), Ex-High Commissioner in Australia and New Zealand and Ex-Commander-in-Chief, Indian Army. b. Jan. 28, 1900, in Coorg, South India; *Educ.*: Central High School, Mercara; Presy. Coll., Madras. Among the first batch of Indian cadets to be commissioned from Daly Coll., Indore, Dec. 1919; served in Iraq (Arab Rebellion), 1920-21 and on the N.W.F.P., 1922-25, 1928-30 and 1946; first Indian Officer to enter the Staff College, Quetta, 1933; saw service in Iraq, Syria and Iran, with the 10th Indian Division 1941-42 and in Burma (Arakan) with the 26th Indian Division, 1943-44; graduated at the Imperial Defence Coll., London, 1947; was Member, Army Reconstruction Cttee. before partition; promoted Major-General, Aug. 1947; was Chief of the General Staff for some time, before being appointed G.O.C.-in-Chief, Eastern Command, Dec. 1947; promoted Lieut.-General; transferred as G.O.C.-in-Chief, D.E.P. Command, now Western Command, Jan. 1948; Commander-in-Chief, Army, Jan. 1949 to Jan. 1953 in the full rank of a General; High Commissioner for India in Australia and New Zealand, 1953-56; conferred "Legion of Merit," Degree of Chief Commander, by President Truman, Aug. 31, 1949; awarded the Hon. rank of a full General in the Nepalese army by H.M. the King of Nepal, Oct. 1952; conferred the Hon. degree of Doctor of Science of the Agra Univ., Jan. 1953. *Recreations*: Polo; Squash; Golf; Riding; Cricket; Tennis. *Hobby*: Stamp collecting. *Address*: The Roohanara, Mercara, Coorg.

CARVER, Captain Rodney Harold Fowes, Royal Navy, Distinguished Service Cross (1942), on loan to the Indian Navy as Chief of Naval Aviation, since Aug. 1956. b. June 6, 1916; *Educ.*: R.N. Coll., Dartmouth. Joined R.N., Jan. 1, 1930; commissioned Sub-Lieut., 1936; qualified Pilot, 1938; served in H.M. Aircraft Carriers "Courageous", "Furious", "Victorious", "Formidable", "Kheidi", 1939-45 and subsequently in aircraft trials units, staff appointments and H.M. Ships "Triumph" and "Centaur"; promoted Commander, 1949 and Captain, 1956; loaned to Indian Navy as Chief of Naval Aviation for 2½ years from Aug. 1956. *Recreations*: Field sports, Squash Rackets, etc., Painting. *Club*: Overseas League. *Address*: 21, Akbar Road, New Delhi.

CASAD, Dhannaba Poonji Ruttonji, M.Sc. (Eng.) (Lond.), B.Sc. (Bom.), M.E. San. I. (Lond.), M.M.G.I., M.I.E., M.Am. Soc. C.E., M.A.I.M.E., Chartered Engineer (Civil & Mining); Managing Director, The Central Provinces Syndicate Private Ltd., Nagpur and ex-Officio Director, The Kanhan Valley Coal Co. Private Ltd., Nagpur; Managing Director, The Byramji Mining Combine Private Ltd., Bombay; Chairman and Managing Director, Nagpur Electric Light & Power Co., Ltd., Nagpur & Wardha; Managing Director, The Star Ginning and Pressing Factories Ltd., Nagpur. b. Sept. 16, 1907; *Educ.*: St. Paul's European High School, Rangoon, Burma; Deccan & Ferguson Colleges, Poona; Banaras Hindu University and University College, London. Conducted researches

in London and Berlin in Water Filtration and Rigid Frame Structures; formerly Consulting Civil Engineer, Bombay and Quetta; R.C.C. Engineer & Designer, Tata Chemicals Ltd., Mithapur; Civilian Engineer, M.E.S.; Commissioned Officer, Corps of Indian Engineers; Professor, School of Military Engineering, Boorkee; at present connected with the mining industry for coal and manganese in Madhya Pradesh and Bombay States and iron ore mining in Bihar and Orissa; member, Local (M.P. Centre) Cttee. and Member of Council and President (1958-59), Institution of Engineers (India); Member of the Advisory Board, Indian School of Mines and Applied Geology, Dhanbad; member, Madhya Pradesh Mining Assoc., Nagpur; member, Indian Standards Institution International Electro-technical Commission, and Alternate Member, Engineering Division Council, representing the All India Manufacturers' Organisation, Bombay; member, Divisional Users' Consultative Cttee., Central Rly., Nagpur; member, Board of Secondary Education, Vidarbha; member, Rotary Club, Nagpur and Pres., Lions Club, Nagpur; Pres., Indian National Cttee., World Power Conference, India, 1958; American Institute of Mining and Metallurgical Engineers; Board of Control, New Engineering Coll., Sangli, 1954; Delegate, Employers' Federation of India to the I.L.O. Tripartite Technical Meeting for all mines except coal mines, at Geneva, 1957; Past Pres., M.P. Chamber of Commerce and Industries, Nagpur. *Publications*: *Determination of the Temperature Co-efficient in Water Filtration*, "Water and Water Engineering Journal," July 1936; *Typical Design for a R. C. C. Chimney—320 ft. height and 12 ft. dia.*, "Indian Concrete Journal," Sept. 1941. *Clubs*: Pres., Modi Cricket Club, Nagpur and Vidarbha Table-Tennis Assoc.; Willington Sports Club, Bombay, Gondwana Club and C. P. Club, Nagpur. *Address*: The C.P. Syndicate Private Ltd., Dolly Dale, Byramji Town, Nagpur. *Residence*: Shirin Lodge, Byramji Town, Nagpur and Currimbhoy Manor, Warden Road, Bombay 22.

CHAGLA, His Excellency Mahomed Ali Cawala, B.A. (Oxon.), Bar-at-Law, Ambassador for India to U.S.A. since Oct. 1958; concurrently accredited to Mexico and Cuba. b. Sept. 30, 1900; *Educ.*: St. Xavier's High School and Coll., Bombay, and Lincoln Coll., Oxford; graduated at Oxford in Honours School of Modern History, 1923; President, Oxford Asiatic Society, 1921; President, Oxford Indian Majlis, 1922; called to the Bar (Inner Temple), 1922; Prof. of Constitutional Law, Govt. Law Coll., Bombay, 1927-30; Hon. Secy., Bar Council of the High Court of Judicature at Bombay, 1933-41; Delegate to U.N. to fight the cause of Indians in South Africa, 1946; Puisne Judge, Bombay High Court, 1941-47; Vice-Chancellor, Bombay University, April-November, 1947; Pres., Asiatic Society of Bombay, since 1947; Chairman, Legal Education Cttee., 1948; member, Law Commission; delivered Shri Krishnarajendra Silver Jubilee lecture on Individual Freedom and Welfare State, under the auspices of the Mysore University on 7th Aug. 1954; Governor of Bombay, Oct. 14-Dec. 10, 1958. *Ad Hoc* Judge of the International Court of Justice, The Hague, 1957; Chairman, L.I.C. Cttee. of Enquiry, Feb.-March 1958; Chief Justice, High Court, Bombay, Aug. 15, 1947 to Sept. 29, 1958. *Publications*: *The Indian Constitution* (1929); *Law, Liberty & Life*. *Address*: Washington.

CHAIWANI, Chief Justice Hachmatul Khachmat, B.A. (Cantab.), Chief Justice, High Court, Bombay, since September 29, 1958. b. Feb. 29, 1904; Educ.: D.J. Sind Coll., Karachi and Magdalene College, (Cambridge). Joined Indian Civil Service, Dec. 1927; toured round the world March-June 1935; thereafter appointed as Secretary, Bombay Legislative Council and Assistant Legal Remembrancer; was the first Secretary of the Bombay Legis-

lative Assembly constituted under the Govt. of India Act, 1935; again visited Europe, 1939; Joint Secretary, Home Department, Govt. of Bombay, 1943; subsequently transferred to Govt. of India, Home Dept. where he officiated for some time as Joint Secretary; posted to Surat as District Judge, Jan. 1944, and subsequently served in the same capacity at Ahmedabad; Commissioner, Central Division, Sept. 1947-Aug. 1948; Judge, Bombay High Court, Aug. 1948-Sept. 1958. *Address*: High Court, Bombay.

CHAKRAVARTY, Monindra Nath, M.Sc., Member, Railway Board. b. March 6, 1904; *Educ.*: Allahabad Univ.; Asstt. Transportation Officer, former N.W. Rly., March 1923-Dec. 1936; worked in various capacities, 1936-43; Divisional Transportation Officer, Karachi, 1943-46; Officer on Special Duty, Railway Board and later Secy., Indian Railway Inquiry Cttee., 1946-49; Chief Director of Movements, Ministry of Food and Agriculture where he rationalized all movements of foodgrains in the country and assisted in the formulation of the basic plan for the distribution of foodgrains, 1949-52; Senior Deputy General Manager, Eastern Rly., 1952 and later Director, Efficiency Bureau, Railway Board, till Jan. 1958; General Manager, Central Railway, 1955-58. *Recreations*: Reading and Study of Mathematical Problems. *Club*: Delhi Gymkhana. *Address*: 15, Queen Mary's Avenue, New Delhi.

CHAKRAVARTY, Surendra Narayan, B.Sc., O.B.E. (1945), Special Secretary, Ministry of External Affairs, New Delhi, since Oct. 1956. b. Dec. 20, 1904; *Educ.*: Presidency College, Calcutta, University College, London. Joined the Indian Civil Service in 1929; held various appointments in Bengal districts and the Bengal Secretariat; Finance Secy., Bengal Govt., Nov. 1944; Secy. to Governor, West Bengal, August 15, 1947; Counsellor, Indian Embassy in Nanking, China, February 1948; Head of Indian Liaison Mission, Tokyo, Japan with personal rank of Minister, June 1948-49; Jt. Secy., Ministry of External Affairs, 1949-51; Secy., Commonwealth Relations, External Affairs Ministry, Govt. of India, 1951-52; Indian Ambassador in the Netherlands, Jan. 1952 to Aug. 1954; was Ag. High Commissioner in U.K.; High Commissioner for India in Ceylon, April 1955-Sept. 1956. *Hobbies*: Photography and Gardening. *Clubs*: Calcutta Club, Calcutta; Delhi Gymkhana Club, Delhi. *Address*: 44/8, Hazara Road, Calcutta 19; c/o The External Affairs Ministry, New Delhi.

CHALINA, Bimalaprasad, Chief Minister, Assam, since Dec. 1957. b. March 26, 1912, at Sibagar; *Educ.*: Sibagar Govt. High School; City Coll., Calcutta; left studies when he was in I.Sc. class, to join the national movement. Arrested in 1932 and jailed for six months; invented a mechanical automatic spinning wheel and obtained a patent for it; deputed by Mahatma Gandhi for training in Khadi under Shri Mathuradas Purnabhattam, Bihar; elected Secy., All India Spinnam Assoc., Assam Branch till 1942; detained for two years as security prisoner during 1942 Movement; engaged himself exclusively in khadi and village uplift work after release from jail; elected M.L.A., Assam, from Sibagar West, 1946; appointed Parliamentary Secy., 1947; was Hon. Provincial Rural Development Organizer, Govt. of Assam; became first Chairman, Assam Co-operative Apex Bank and Assam Co-operative Cottage Industries Assoc.; became General Secy., A.P.O.C., 1950; elected Pres., A.P.O.C., 1952; won by-election from Sibagar to become Member, Lok Sabha, 1953; Regional Organizer for constructive work, A.I.O.C. for Eastern Zone, 1952; elected Chairman, Reception



Offce. of the 63rd Session of the Indian National Congress; resigned, Dec. 1957. *Recreations*: Spinning; Reading. *Address*: Shillong.

CHAND, Khub, B.A. (Hons.), I.C.S., Indian Ambassador to Italy, 6 December 1916, 1911; *Educ.*: Univ. of Delhi; Oriel College, Oxford. Joined the I.C.S., 1935 having stood first in the I.C.S. Competition in India; Joint Magistrate and later Additional District Magistrate, Cawnpore, 1938-39; Under Secy. to the Govt. of India, Defence Dept. and Secy., Indian Soldiers' Board, 1939-43; District Magistrate, Asamgarh and Regional Food Controller, Benares Region, 1943-47; Deputy Secretary, Ministry of Defence, 1947-48. Head, Indian Military Mission, Berlin with military rank of Major-General, 1949-50 and Head of the Indian Mission in Bonn with rank of Minister Plenipotentiary, 1949-50; appointed Dy. High Commissioner for India in Pakistan, Sept. 1950; acted as High Commissioner for India in Pakistan, Nov. 1950-Aug. 1951; Minister in Iraq and Jordan, 1952-55; Jt. Secy., Ministry of External Affairs 1955-58. *Recreations*: Biding, Shooting, Conversation. *Address*: Embassy of India, Rome.

CHAND, Dr. Tara, M.A. (Ald.), D. Phil. (Oxon.), Member, Rajya Sabha, New Delhi; Honorary Professor of the Indian School of International Studies, New Delhi, 6. 1988; *Educ.*: St. Stephen's Mission School, Delhi; Meerut College, Meerut; Muir Central College, Allahabad; Queen's College, Oxford. Professor of History, Kayastha Pathshala College, Allahabad; Principal, K.P.U. College, 1925-45; Professor of Politics, Allahabad Univ., 1945-47; Vice-Chancellor, Univ. of Allahabad, 1947-48; Secretary and Educational Adviser, Ministry of Education, Govt. of India, 1948-51; Pres., Secondary Education Conference; Secretary, Hindustani Academy, U.P.; Indian History Congress; Pres., Indian History Congress; Ambassador in Iran, Dec. 1951 to Sept. 1954; member, Rajya Sabha, 1957. *Publications*: *A Short History of the Indian People*; *Influences of Islam on Indian Culture and Hindustani*. *Address*: 8, Tughlak Road, New Delhi.

CHAND, Anil Kumar, B.Com. (Dacca), Senior Scholar, Dacca Univ. (1925), B.Sc. (Econ.) (Lond.), Deputy Minister, Works, Housing and Supply, Government of India, 6 May 23, 1956; *Educ.*: Slicher Govt. High School; Santiniketan, Visvabharati; Dacca, Calcutta and London Univ. Lecturer, Visvabharati; Secy. to Rabindranath Tagore; Principal, Coll. of Arts and Science, Santiniketan; Professor of Politics, Visvabharati Univ.; visited Iraq and Iran, 1953; member, Indian Delegation to 8th Session of UNO General Assembly, 1953; led the Indian Cultural Delegation to China, June 1955 and to U.S.S.R., Yugoslavia and the Eastern European countries, 1956; Dy. Minister, External Affairs, Govt. of India, 1952-April 1957. *Publications*: Writes occasionally under the pen name "Acaia". *Recreation*: Travelling. *Club*: Calcutta Club, Calcutta. *Address*: Ministry of Works, Housing and Supply, New Delhi.

CHAND, Asok Kumar, B.Sc., O.B.E. (Jan. 1945), Comptroller and Auditor-General of India, from Aug. 1954, 6. 25th Oct., 1952; *Educ.*: Calcutta Univ., London School of Economics. Joined Indian Audit and Accounts Service, 1926; on deputation with Madras Govt., 1937-39; Joint Secy., Govt. of India, 1945; Member of Loan-Lease Delegation to U.S.A., 1946; Adviser, Punjab Partition Council, 1947; Additional Secy., Govt. of India, 1947; Defence Delegation to U.K., Nov. 1947 and Feb. 1948; Sterling Balance Delegation, May-July 1948; Deputy High Commissioner for India in the U.K., Oct. 1948-May 1949; Financial Commr. for Rlys., 1949-52; Head of Railway Delegation to Europe, 1950 and 1952; Secy., Ministry

of Production, Govt. of India, 1952-March '54; Chairman, Board of Directors, Sindri Fertilisers and Chemicals Ltd., Hindustan Machine Tools Ltd. and Hindustan Steel Ltd., 1952-March 1954; visited Europe and negotiated the establishment of a Rs. 100-crore New Steel Plant. *Publications*: Indian Administration. *Recreations*: Golf, Tennis and Swimming. *Club*: Delhi Gymkhana, Calcutta, Shillong and Ranchi Clubs. *Address*: Comptroller and Auditor-General of India, New Delhi.

CHANDRA, Ramesh, B.A. (Hons.), Member, National Council, and Central Executive Offce. of the Communist Party of India; Journalist; General Secy., All India Peace Council, since 1952, 6. March 30, 1919; *Educ.*: Bishop Cotton School (Simla); Govt. Coll. (Lahore); Trinity Coll. (Cambridge). Joined the national movement as a student; Pres. of Cambridge Univ. Indian Majlis (1938); Exec. member, Cambridge Univ. Union (thrice, 1938-39); Pres., Lahore Students' Union (1934-41); Joint Secy., All India Students' Federation (1942); evaded warrants of arrest issued against him by Punjab Govt. under D. O. I. Rules (1941-42); Special Correspondent and Sub-Editor, Communist Party Central Newspapers *People's War and People's Age* (1944-45); detained under Preventive Detention Act, 1948-49; tried for publication of British plan to crush Indian freedom movement, "Operation Asylum", 1947-49; member, Council and Bureau of World Peace Council; has attended several international peace conferences abroad. *Publications*: *Operation Asylum* (1946); *Salute to Kashmir* (1946); *Panchashila* (1956); several pamphlets on international issues. *Recreations*: Reading; Cinema and Theatre. *Address*: 6, Jomna Bhawan, Asaf Ali Road, New Delhi.

CHANDRA, Satish, M.A., B.Sc. (Agri.), Deputy Minister for Commerce and Industry, Govt. of India, since April 1957, 6. Jan. 17, 1917, at Bareilly; *Educ.*: Govt. Agricultural Coll., Kanpur; Bareilly Coll. Trustee; Shyam Sunder Memorial Coll., Chandausi; Gandhi Eye Hospital Trust, Allgarh. Joined Congress, 1936; courted jail several times for Congress activities; member, U.P.C.C., since 1939; A.I.C.C.; Kasturba Gandhi National Memorial Fund Offce., 1947-49; Indian Constituent Assembly, 1948-50; ex-member: Food Grains Investigation Offce., Govt. of India; Central Board of Archaeology; Central Advisory Council for Rlys.; Parliamentary Secy. to the Prime Minister, 1951; returned to the Lok Sabha from Bareilly Dist. South Constituency, U.P.; Dy. Minister for Defence, Govt. of India till July 1955; Deputy Minister for Production, July 1955-April 1957. *Address*: Alamgirganj, Bareilly (U.P.); New Delhi.

CHANDRASEKARAN, Chidambaram, M.Sc. (Nagpur), Ph.D. (Lond.), M.P.H. (Johns Hopkins), Professor of Statistics, All-India Institute of Hygiene and Public Health, Calcutta, 6. Oct. 30, 1911; *Educ.*: Nagpur, London and Johns Hopkins Univs. Rockefeller Fellow, 1947-48; Social Affairs Officer, Population Division, U.N., 1948-50; Director, U.N. Office for Population Studies, New York, 1950-54; Discussion leader for U.N. Population Seminar, Bandung, 1955; U.N. Expert Demographer to the Govt. of Thailand, 1957; Pres., Demography and Social Statistics Section, 4th Indian Sociological conference, Calcutta; served on the Sub-Offce. on Family Planning appointed by the Planning Commission; was member, Programme & Research Offce. on Family Planning, Govt. of India; Vice-President, International Union for the Scientific Study of Population. *Publications*: Over 45 original papers on Mathematical Statistics, Demography, Family Planning and Medical and Public Health Statistics; Report of the co-operative project of the U.N.—Govt. of India on the inter-relationships of demographic, economic and social factors in Mysore State. *Address*: All-India Institute of Hygiene and Public Health, 110, Chittaranjan Avenue, Calcutta 12.

CHANDRASEKHAR, Dr. Subram, M.A., M. Litt. (Madras), M.Sc. (Columbia), Ph.D. (New York), Director, Indian Institute for Population Studies, Gandhinagar, Madras and Visiting Professor of Demography, University of Missouri, Columbia, U.S.A., 1947-55, 6. Nov. 22, 1918; *Educ.*: American Mission Vorhees High School, Vellore; Madras Presidency Coll.; Univ. of Madras; Columbia, New York and Princeton Universities, U.S.A. Director of Demographic Research, UNESCO, Paris, 1947-49; represented Annamalai Univ. at the British Empire Universities Congress, Oxford, 1948; UNESCO's delegate to the World Population Conference, Geneva, 1949; Pres., First All-India Conference on Family Planning, Bombay, 1951; Delegate to the International Conference on Population and Planned Parenthood, Stockholm, Aug. 1953, Tokyo, Oct. 1953; Nuffield Foundation Fellow, London School of Economics and Oxford Univ., 1953-55; first Indian Lecturer under the Norwegian Indian Foundation, Oslo Univ., April 1954; delegate to U.N. World Population Conference, Rome, Sept. 1954; Delegate to UNESCO seminar on Migration, Kitzbuhel, Austria, 1955; Govt. deputation to China to study population problems, 1958; Editor, *Population Review*, Madras; *Publications*: *India's Population* (New York, 1946); *Indian Emigration* (Madras, 1948); *Hungry People and Empty Lands* (Bombay, 1952); *Hungry People and Empty Lands* (London, 1953); *Population and Planned Parenthood in India* (London, 1955). *Address*: Gandhinagar, Madras.

CHANDY, Mrs. Anna, M.A., B.L., Judge, High Court, Kerala, since Feb. 1959, 6. 1905; *Educ.*: Trivandrum; was the first lady student of Kerala in the Law Coll., Trivandrum. Enrolled as the first lady Advocate in Kerala, 1930; built up a good practice, especially on the criminal side; member, Travancore Leg. Council, 1932-34 (the second lady member in its history); was appointed District Munsiff, the first woman judicial officer in India, 1938; promoted Sub-Judge, 1943; Dist. & Sessions Judge, 1948-50; Founder-Editor, *Shreemathy*, the first women's journal in Kerala. *Address*: High Court, Ernakulam.

CHANNABESAPPA, H. M., B.Sc., Minister for Public Works and Electricity, Mysore, since May 1958, 6. at Haralabally, Mysore Dist.; *Educ.*: B.Sc. from the Central Coll., Bangalore, 1929; was a Research Scholar till 1932. Has been in public life for over 25 years in various capacities; Pres., Mysore Dist. Board, 1947-55; is member, M.P.C.C. and the A.I.C.C. *Address*: Bangalore.

CHATHAN, P. K., Minister for Local Self-Government, Kerala State, Trivandrum, since 1957, 6. 1920, at Madayikonam village, former Cochin State; *Educ.*: Primary School, Mapranom; High School, Irinjalkuda; Maharaja's Coll., Ernakulam. Political activity from 1941; took up active social work early in life with a view to removing the social disabilities suffered by the Scheduled Castes; was an office-bearer of the All Cochin Pulaya Maha Sabha and the Scheduled Castes Federation, etc.; was a teacher in Government service; took active part in the Koodalmanickom Temple road agitation and the Pallam Satyagraha; resigned Government job to play a more prominent part in public affairs; joined the Communist Party just before the Calcutta Congress; remained underground for a long time; returned to the Kerala Leg. Assembly as a Communist Party candidate from the Irinjalkuda double member constituency and also from the Chalakudy Constituency in the 1957 elections. *Address*: Secretariat, Trivandrum.

CHATTERJEE, Nirmal Chandra, M.A., F.R.S., LL.B., Bar-at-Law, Senior Advocate, Supreme Court of India; Ex-Pres., Hindu Mahasabha, 6. Oct. 10, 1895; *Educ.*: Univ. of Calcutta and Univ. of London and Middle Temple. Ex-Judge, Calcutta High Court;

member, Lok Sabha representing Dist. Hooghly; Pres., All India Hindu Mahasabha; led Jammu Satyagraha movement along with late Dr. Syama Prasad Mukerjee; represented Bengal Hindus before Dacca Riots Enquiry Commission and Boundary Commission and did relief work in Dacca and Noakhali. *Publications: Awakening of New India; Problems of Jammu. Recreations: Gardening; Traveling. Clubs: Calcutta Club; Chelmsford Club, Delhi. Address: 22, Allpore Road, Calcutta 27; 7-B, Pusa Road, New Delhi.*

CHATTERJI, Rear Admiral Adhar Kumar, Deputy Chief of the Naval Staff, Indian Navy, since Feb. 8, 1958. *b. Nov. 22, 1914; Educ.: Ravenshaw Collegiate School, Cuttack, 1926-30; Brojo Mohan Coll., Barisal, 1930-32; Presidency Coll., Calcutta, 1932. Joined the Navy, 1933; received initial Naval training in the U.K., 1933-35; Lieutenant, 1938; qualified in Anti-Submarine Warfare in H.M.S. Osprey, 1940; War Service in the Atlantic and Indian oceans; Staff Officer, Anti-Submarine, 1942-44; Lieutenant-Commander, 1943; commanded H.M.I.S. Kathiawar, 1944-45; commanded H.M.I.S. Chanak, 1945-46; passed Staff Course at R.N. Coll., Greenwich, 1947; Commander, 1947; Director of Naval Plans, 1947-49; Commander, I.N.S. Delhi, 1949-50; Captain 1950; Captain, I.N.S. Delhi, 1950; Naval Adviser, London, 1950-53; Captain, I.N.S. Delhi, 1953-54; Commodore-in-Charge, Bombay, 1954-56; Imperial Defence Coll., London, 1957. *Recreations: Tennis. Clubs: Delhi Gymkhana Club, New Delhi; Radio Club, Bombay; Cricket Club, Bombay. Address: Naval Headquarters, New Delhi.**

CHATTERJI, Gyanesh Chandra, M.A. (Punjab), B.A. (Cantab.), Vice-Chancellor, Rajasthan Univ., since Nov. 1953; member, University Grants Commission, since March 1957; Hony. Chairman, Board of Secondary Education, Rajasthan; President, Inter University Board of India, 1958-59. *b. March 4, 1894; Educ.: St. Stephen's Coll., Delhi; Trinity Coll., Cambridge, England; London Day Training Coll., Southampton Road, London. Appointed to the Indian Educational Service as Prof. of Psychology, C.T. Coll., Lahore, 1919; Prof. of Philosophy, Govt. Coll., Lahore, 1921; founded Laboratory of Experimental Psychology, Lahore, 1927; Principal, C.T. Coll., Lahore, 1939; D.P.I. and Education Secy., Punjab Govt., 1946; D.P.I. and Education Secy., E. P. Govt., 1947-49; Vice-Chancellor, E. P. Univ., April-July 1949; Member, U.P.S.C., 1949-53. *Publications: "Commonsense Empiricism" in Contemporary Indian Philosophy; "Empiricism" in History of Philosophy Eastern and Western (G. A. Unwin); numerous papers in Indian and British Journals. Recreations: Lawn Tennis, Golf, Bridge. Clubs: Delhi Gymkhana; Ashok Club, Jaipur. Address: Rajasthan University, Jaipur.**

CHATTERJI, Dr. Sumit Kumar, M.A. (Cal.), D.Lit. (Lond.), F.A.S., Hon. Member, Société Asiatique, Paris (1946), American Oriental Society (1947), Oslo Academy of Sciences (1956), Padma Bhushan (1955), Chairman, Govt. of India Sanskrit Commission (1956-57), etc., etc., Chairman, West Bengal Legislative Council, since 1952. *b. Nov. 26, 1890; Educ.: Motilal Nitya Free Coll., Scottish Churches Coll. and Presidency Coll., Calcutta; Univ. Coll. and School of Oriental Studies, London; Univ. of Paris and Ecole Française des Langues vivantes Orientales, Paris. Asst. Prof. of English, Calcutta Univ., 1914-19; Govt. of India Linguistic Scholar in Europe, 1919-22; Khaira Prof. of Indian Linguistics and Phonetics, Calcutta Univ., 1922-52; Visiting Prof., School of South Asia Studies, Univ. of Pennsylvania, Philadelphia, U.S.A., 1951-52; *Publications: Origin and Development of the Bengali Language, 1926; Indo-Aryan and Hindi, 1941; Krata-jana-krti, 1951; and Volumes on Travel and papers on linguistic, historical and cultural subjects in English, Bengali and Hindi. Recreations: Study of Art. Address: "Sudharma," 16, Hindusthan Park, Calcutta 29.**

CHATTERJI, Dr. U. N., B.Sc. (Hons.), M.Sc., D. Phil., D.Sc., Fellow, National Academy of Sciences of India; Fellow of the Royal Society of Arts (Lond.); Fellow of the American Assoc. for the Advancement of Science; Reader in Botany, University of Gorakhpur; has been Editor of Publications, Indian Council of Agricultural Research. *Educ.: Ewing Christian College, Allahabad and the University of Allahabad. Lecturer, Agra College and Meerut College (Agra University); Assistant Editor of Publications, Indian Council of Agricultural Research. Publications: Research Papers in Plant Respiration; articles on various subjects. Address: Department of Botany, University of Gorakhpur (U.P.).*

CHATTOPADHYAYA, Sarindramath, ex-M.P., Received Banner for Best Fighter for Peace (Nov. 1950) from I.U.S.; Poet and Playwright, Actor, Musician and Painter. *b. April 2, 1898; Educ.: Home and for a year Cambridge Univ. for Ph.D. Elected M.P. by big majority over Congress candidate from Vijayawada constituency, 1952. Has held exhibitions of his own paintings; Winner of First Prize State Award for best art Album of 1958 (16 drawings in coloured inks). Publications: The Feast of Youth; Magic Free; Perjury of Earth; Wizard's Mask; Out of the Deep, Dark Mould; Cross Roads; author of famous Hindi songs such as Surya Asha Hoga and Hindi Chini Bhai Bhai; Poems and Plays: Five Plays (Verse): Love and Myself; The Divine Vagabond; Horizon-ends; The Dark Well; Lyrics: Blood of Stones; Treasury of Poems: Freedom Come; Five Plays (Prose); 15 Dry Points (Mukul Dey and Chattopadhyaya), etc.; I Sing of Man (Poems); Siddhartha, Man of Peace (8 Act Play—Jaico); Spring in Winter (Love Poems); Tati Tati Tola (Poems for Children in Hindi). Address: 3, Krishna Iyer Street, Nungumbakam, Madras.*

CHATURVEDI, Mr. Justice Brij Kishore, B.A., LL.B., Barrister-at-Law, Judge, Madhya Pradesh High Court, since Nov. 1956. *b. Oct. 21, 1904 at Calcutta; Educ.: Calcutta, Aligarh, Agra & London. Bikaner State Service as Legal Remembrancer, Dist. Judge, officiating High Court Judge for a year, (March 1930 to July 1939); joined Gwallior State service (July 1939); Home Secy. (1944); Judge, Gwallior State High Court (April 1947); member, Senate, Agra Univ. (1945-48); for some time member, Faculty of Commerce, Agra Univ.; Judge, Madhya Bharat High Court (1948-56); Additional Judge, Madhya Pradesh High Court (Nov. 1956); Permanent (Nov. 1957); Dean, Faculty of Law; Member, Exec. Council, Univ. of Jabalpur. Publications: In Hindi: Criticism of Modern Hindi Poetry; Ancient Ujjaini as the Seat of Culture. Address: Jabalpur.*

CHATURVEDI, Makhanlal, Hindi Writer; Editor, The Karmaveer, Hindi Weekly, Khandwa, since 1919. *b. April 4, 1889; Educ.: Passed Primary School Teachers' Training, Pres., Sampadak Sammelan, Bharatpur, 1929; First (Chairman, Mahakaulhal Congress Parliamentary Board, 1937; Pres. All India Hindi Sahitya Sammelan, Haridwar, 1943; started his career as a primary school teacher at Khandwa; started a Hindi magazine Prabha, in Khandwa, 1913; courted imprisonment several times for participation in the freedom movement; learned English, Sanskrit, Marathi, Gujarati and Urdu by himself; is also a Hindi orator and dramatist; awarded the first Sahitya Academy Hindi prize of Rs. 5,000 for his book Himatragini (1954) and Dr. Puraskar for his Himatragini (1943); Sahitya Kar Sansad prize of Rs. 1,500 for his book Mata and several other awards from U.P. and M.P. Govts. Publications: Krishnarjun Yuddha (Play—1918); Himatragini (Poetry—1943); Sahitya Dots (Prose—1944); Himatragini (Poetry—1948); Mata (Poetry—1952); Yug Charan (Poetry—1958); Samarpan (Poetry—1958); Kala ka Anusand (Short story—1954). Address: Editor, The Karmaveer Weekly, Khandwa (M.P.).*

CHAUDHARI, Madhukar Dhanraj, B.Com. (Nagpur), M.Com. (Nagpur), Deputy Minister for Irrigation, Govt. of Bombay, since April 12, 1957. *b. June 16, 1923, at Nasik; Educ.: Janata Shikshan Mandal, Khirda, East Khandesh; Municipal High School, Faispur, East Khandesh; D. S. High School, Bhusaawal, East Khandesh; G. S. Coll. of Commerce and Economics, Wardha; took B.Com., in 1951 and M.Com. in 1953. During college days stayed at Sevagram and Kakawadi to keep in touch with the activities there; was Secy., Sadhana Sadan; took keen interest in village reconstruction; appointed Branchalok of the Farvodaya Kendra at Khirda, East Khandesh Dist., 1953; was responsible for bringing freshness and energy to the activities of the Centre; took a lead in organising co-operative movement in the East Khandesh Dist. and took active interest in the work of the Harijan Sevak Sangh and Adivasi Seva; actively associated with the work of the Dist. Development Board, Dist. Industrial Assoc., Maharashtra Samajik Parishad, Maharashtra Seva Sangh, etc.; elected M.L.A. Bombay from the Raver Constituency in E. K. Dist., in the General Elections, 1957. Publications: Wrote a thesis on 'A Five Year Plan for the Socio-Economic Development of Village Mahakal'. Address: Bungalow No. A-4, Road No. 1 (Foresore Road), Bombay 1.*

CHAUDHARI, Giridhar Lal, M.A. (1940), Minister for Public Works (Sarvaanjik Nirman Mantri), U.P. *b. November 16, 1912; Educ.: D. A. V. College, Dehra Dun, and Hindu University, Banaras. One of the leading members of All-India Depressed Classes League; also an active member of the Indian National Congress; elected member, U. P. Legislative Assembly, 1946; same year included in the Provincial Cabinet; elected President of the U.P. Depressed Classes League, 1947; re-elected to U.P. Leg. Assembly, 1952; re-elected 1957. Address: 3, Sarojini Naidu Marg, Lucknow.*

CHAUDHARI, Suraj Mal, B.A., LL.B., Minister for Public Works, Punjab, since April 1957. *b. Jan. 1, 1901; Educ.: Hissar, Rohtak; graduated from D.A.V. Coll., Lahore; LL.B. from Law Coll., Lahore, 1924. Practised at the Hissar Bar till April 1957; was Pres., District Bar Assoc. for six years; elected member and then Vice-Chairman, Dist. Board, Hissar, 1928; elected M.L.A., Punjab, 1937; had been Parliamentary Private Secy. and Parliamentary Secy., undivided Punjab; member, Punjab Legislature till 1954; elected member, first Constituent Assembly of India; Dewan/Chief Minister, Bharatpur State, 1947-48. Address: Chandigarh.*

CHAUDHURI, Rai Harendra Nath, M.A., B.L. (Calcutta), Minister-in-charge of the Education Department, Govt. of West Bengal, since 1957. *b. Nov. 1889; Educ.: Baranagar Victoria H.K. School; Presidency Coll., Calcutta; Scottish Church Coll., Calcutta; Univ. Law Coll., Calcutta. Elected to the Bengal Legislative Council from the 24-Parganas North Rural (Non-Mahammedan) Constituency 1921-23; elected unopposed, in 1923 and 1926-29; elected to and represented the 24-Parganas Municipalities in Bengal Leg. Assembly, 1937-44; M.L.A., West Bengal, representing East Bankura, 1948-52; Minister for Education, 1948-52; elected M.L.C., West Bengal, 1957. Publications: New Menace to High School Education in Bengal, Our Language Problems (in English), Bankim Chandra Upanyas-Samalochara (in Bengali). Address: "Munshi House", Baranagar, Calcutta 36.*

CHAUDHURI, Mr. Justice Hemanta Kumar, M.A., B.L., Judge, Patna High Court, since Sept. 3, 1956. *b. Dec. 1, 1901; Educ.: T. N. J. Collegiate School, Bhagalpur; T. N. J. Coll., Bhagalpur; Patna Coll., Patna; Patna Law Coll. Joined the District Bar at Bhagalpur, Oct. 1925; appointed Lecturer in History, Ravenshaw Coll., Cuttack, July 1926; joined the Bar again, Oct. 1926; appointed in the*

Provincial Judicial Service as a Munsiff at Monghyr, June 1, 1928; Registrar, Civil Courts, Gaya, 1941-43; Subordinate Judge at Ranchi, Jan.-Sept. 1944; Magistrate with Section 30 Powers, Purulia, Sept. 1944-May 30, 1946; Asstt. Sessions Judge, June 8, 1946-Oct. 25, 1949; Addl. Dist. and Sessions Judge, at Chapra, Oct. 26, 1949; Chairman, Industrial Tribunal, Bihar, June 1, 1951-Nov. 14, 1953; joined at Gaya as Dist. and Sessions Judge, Nov. 18, 1953; Registrar, Patna High Court, July 11, 1955-Sept. 2, 1956. Address: Patna High Court, Patna.

CHAUDHURI, Lieut.-General Joyanto Nath, O.B.E., G. O. C.-in-C., Southern Command, since May 15, 1959. b. June 10, 1908; Educ.: Hastings House, Bishop's College and St. Xavier's College, Calcutta; Highgate School, London and Royal Military College, Sandhurst, England. Commissioned, Feb. 2, 1928; served one year with 1st Bn. North Staffordshire Regt., then posted to 7th Light Cavalry; during World War II saw service in the Middle East, Far East; was instructor at Staff College, Quetta; commanded 16th Light Cavalry in Burma; was mentioned in despatches five times; at end of war was Brigadier, 1/c Administration, Malaya; commanded the Indian Victory Contingent to U.K., 1946; attended the Imperial Defence College in London in 1947; on return to India officiated as Chief of General Staff and later commanded 1st Armoured Division; Military Governor, Hyderabad State, till Dec. 1949; again commanded 1st Armoured Division; Adjutant-General, Jan. 10, 1952-Sept. 28, 1953; Chief of the General Staff, Sept. 29, 1953-Dec. 11, 1955; Corps Commander, Dec. 15, 1955; Colonel Commandant, Corps of Electrical and Mechanical Engineering and 16th Light Cavalry. Publications: *Operation Polo* (account of operations by 1st Armoured Division). Recreations: Travel, Writing and Music. Address: C/o Lloyds Bank, New Delhi.

CHAUDHURI, Kabirish Chandra, M.A. (Econ.), Vice-Chancellor, Visva-Bharati University. b. March 1, 1901; Educ.: Calcutta and Dacca Univs.; M.A. First class in Economics, 1924. Entered the Indian Audit & Accounts Service after passing all-India competitive examination in March 1925; appointed Accountant General, 1947; thereafter Deputy Comptroller and Auditor General of India, 1954; retired from Service, Sept. 1958. Publications: *History and Economics of the Land System of Bengal; Life of Sri Ramakrishna* (in Bengali). Recreations: Gardening; Carpentry. Address: Santiniketan, West Bengal.

CHAUDHURI, Nabakrushna, Ex-Chief Minister, Orissa. b. 1901, at Cuttack; Educ.: Cuttack, Baharmati, Santiniketan. Took to agriculture, 1927; joined the C.D. movement; established the Congress Socialist Party in Orissa, 1934, started a weekly *Saratki*, 1935; took leading part in agitation against the oppression of the Durbars of Talcher and Dhenkanal, 1938; elected member of Orissa Leg. Assembly; led the left wing of the Congress Parliamentary Party; imprisoned in 1942 movement; appointed Revenue Minister, Orissa, 1946; Chairman of Ctee. to recommend legislative and other measures for land reforms in the State; resigned from the Ministry and Legislature, 1948; drafted the final report of the Land Revenue and Land Tenure Ctee.; has been connected with the work of the 'Bajirant Chhatrabas', a model centre of basic education, run by his wife at Angul; Secy., Board of Basic Education in Orissa; was unanimously elected leader of the Congress Parliamentary Party in Orissa, 1950; elected M.L.A., Orissa in the general elections and again elected leader of the Congress Party; member, Congress Working Committee from 1951; resigned Chief Ministry and membership of the Congress Organisation in Oct. 1956 in order to join the Sarvodaya movement under Vinoba's leadership. Address: Angul.

CHAUDHURI, Pratul Kumar, B.Sc. (Cal.), Secretary, Central Ctee. of the Revolutionary Socialist Party, since 1950. b. Feb. 9, 1913; Educ.: Jayag M. E. School and Chhatkuli Panchgaon Gupta H. E. School, Noakhali; Comilla Victoria Coll., Tipperah; Vidyasagar Coll., Calcutta; B.Sc., 1934. Was arrested under the B.C.L.A., May 1934; was in several detention camps, 1934-38; became a Marxist while in camp; was delegate to the Congress Session at Tripuri, 1939 and the Anti-Compromise conference at Ramgarh, 1940; joined the R.S.P. from its inception; worked in Noakhali Dist., 1938-40; arrested under the D.O.I. Act and imprisoned, 1940-45; delegate to the R.S.P. annual session at Delhi, 1946; could not attend, being under arrest; member, Prov. Exec. Ctee. of R.S.P., 1946-48; started trade union work in Calcutta-Howrah-Hooghly, Sept. 1947; took charge of the Central Office of the R.S.P., Dec. 1948; elected to its Central Office, 1948; became Manager, *The Call*, R.S.P.'s organ; its Mg. Dir., since 1957. Publications: Articles in *The Call* and *Mekhatkanh* (a Hindi political weekly). Recreations: Study of scientific treatises and English novels. Clubs: Udayan, a cultural Assoc. of Delhi. Address: 780, Ballimaran, Delhi-6.

CHAUDHURI, Tridib Kumar, M.A. (Econ.) C.U., M.P. (Lok Sabha), General Secretary, Revolutionary Socialist Party; Author, Journalist and Political Worker. b. Dec. 1911; Educ.: K. N. Coll. Berhampore (West Bengal) upto intermediate in Arts; obtained B.A. & M.A. degrees while in detention. Member, Congress Party prior to May 1947; Congress Socialist Party prior to May 1940; detained without trial as a suspected revolutionary and member, underground Anushilan Samiti, 1931-38 and 1939-46; imprisoned by Portuguese authorities in Goa, July 1955-Feb. 1957; awarded a sentence of twelve years; amnestied, Jan. 1957; member: United Progressive Parliamentary Group; first Lok Sabha, 1952-57, takes active interest in labour, peasant and student movements; is connected with several labour and office employees' unions and their welfare organisations in West Bengal; Vice-Pres., United Trades Union (Congress). Publications: *Swing Back* (1950); *Nineteen Months in Salazar's Prison* (1958) and numerous other tracts, brochures and pamphlets. Address: Revolutionary Socialist Party, Central Office, 780, Ballimaran, Delhi-6.

CHAUDHURI, M. Moinal Haque, B.A., (Hons.), M.A., LL.B., Minister for Agriculture, P.W.D. (Irrigation), Veterinary, Co-operative, Govt. of Assam since April 22, 1957. b. July, 1923; Educ.: Cotton Coll., Gauhati; Presidency Coll., Calcutta; Aligarh Univ.; passed B.A. (Hons.), 1944, M.A. first class first in History and Political Science, 1949; LL.B. (first class), 1946. After completing his education, took to social and political activities; joined legal profession and rose to the top in that profession; was member, Silchar Local Board and Municipal Board; connected with several educational institutions; twice under detention for political activities; elected M.L.A., Assam, 1952 on Congress ticket; re-elected, 1957. Recreations: Gardening, Reading. Clubs: Shillong Club; Rotary Club, Shillong. Address: Shillong, Assam.

CHAVAN, Devisingh Venkatsingh, B.A. (Hons.), LL.B., Deputy Minister for Agriculture, Bombay Govt., since April 1957. b. March 2, 1911; Educ.: Poona and Nagpur; passed B.A. (Hons.), 1938 and LL.B., 1941. Participated in the State Congress Struggle leaving his studies at Gokhale Institute, Poona, 1938; started Bharat Vidyalaya High School, 1941; practised Law for three years; joined the School, 1943; was arrested in the Satyagraha Struggle in Hyderabad State, 1947; was in jail for 14 months, till released by the Indian Military, Sept. 1948; was Asstt. Editor, *New Life*, Hyderabad Daily; member, Ex. Ctee. of the Hyderabad State Congress and

Pradesh Congress, since 1950; is Pres., Marathwada Pradesh Congress Ctee.; Minister for Education and Rural Development, Hyderabad, 1952-54. Publications: A Series on Arithmetic for Primary Schools; Books on Land Reforms; contributed articles to Newspapers. Address: Bungalow No. A/1, Foreshore Road, Reclamation, Bombay No. 1.

CHAVAN, Shankarrao Bhaeras, B.A., LL.B., Deputy Minister for Revenue, Government of Bombay, since Nov. 1, 1956. b. 1920; Educ.: Studied upto VII Standard in Palthan (Aurangabad District); City Coll., Hyderabad; Nizam Coll., Hyderabad; graduated from Madras Univ.; Law Degree from Osmania Univ. Has been connected with several social, educational, co-operative and other activities in the Marathwada area; was Pres., Maratha Yuwak Parishad; was member, Minimum Wages Board, appointed by Govt. of India, Mining and Pressing Minimum Wages Board, Local Bodies Advisory Ctee. and the Tenancy Reform Advisory Ctee., appointed by the Govt. of former Hyderabad; Vice-Pres., Central Co-operative Bank at Nanded for five years; was Director, Hyderabad State Co-operative Bank; Vice-Pres., Hyderabad Agriculturist Co-operative Assoc., 1953; was on the executive body of the State Co-operative Land Mortgage Bank; Chairman, Nanded Municipality, 1952-56; member, Executive Body of All India Federation of Local Authorities; entered politics, 1945; gave up practice and became a full time Congress worker, 1946; Secy., Nanded District Congress Ctee., 1950-53; General Secy., Hyderabad P.C.C. for about 2 years; elected to Bombay Leg. Council, 1956. Address: A 3, Foreshore Road, Bombay 1.

CHAVAN, Yashwantrao Balwantrao, Chief Minister, Bombay State, since Nov. 1, 1956. b. March 12, 1914, at Devraahtra, Satara Dist.; Educ.: Tilak High School, Karad; won several prizes in elocution competitions; was a voracious reader; organised students movement, 1930; participated in the C.D. Movement, 1932; imprisoned for his political activities, 1930; matriculated, 1934; graduated from the Rajaram Coll., Kolhapur, 1938; took his LL.B. Degree from Law Coll. Poona, 1941. Started practice at Karad; was a Royist first, but later dissociated himself from that movement in 1939 on the issue of the Second World War; directed underground movement in Satara Dist., Aug. 1942-May 1943 until his arrest at Phaltan, 1944; elected Pres., Dist. Congress Ctee., Satara; member, Maharashtra P.C.C., since 1940; was its Secy., 1948, 1949 and 1950; elected M.L.A., Bombay, 1946; appointed Parliamentary Secy., 1946; took active part in organising Home Guards; started a Marathi daily, *Pravash* at Satara, 1948; in early days also started the Marathi weekly *Lokkranti*; after the general elections of 1951, appointed Minister for Civil Supplies, Bombay; as Civil Supplies Minister succeeded in introducing progressive decontrol; was Minister for Local Self-Govt. and Forests, Bombay; was also in charge of Community Projects; after the second general elections was unanimously re-elected leader of the Congress Legislature Party. Recreations: Sports, Poetry, Music, Fine Arts. Address: Sahyadri, Ridge Road, Bombay 6.



CHAVDA, Kishan Singh, Gujarati Writer, Short stories, Belles-Lettres; Managing Director, Chetana Press Ltd. b. Nov. 19, 1904; Educ.: Baroda, Ahmedabad, Santiniketan, Pittsburgh (U.S.A.); Pres., Rotary Club, Kala Kendra, Lekhak Milan. Publications: Twenty-five books in Gujarati literature. Recreations: Music, Reading, Walking. Address: 8, Alakapuri, Baroda.

CHAVDA, Shivan Dhanjibhai, G.D. Art. (Bombay), Diploma in Fine Arts, Practising Artist. b. Dec. 11, 1914 in Gujarat; *Educ.*: C.J.N.E. Madras High School, Navsari; Studied art at Sir J. J. School of Art, 1930-35; scholarships enabled him to have further training and experience in Europe; obtained diploma in Fine Arts at the Slade School, London, 1938; worked at the Academie de la Grande Channiere, Paris; learned stage designing under the well-known Russian artist Polunin at the Slade School; also studied in St. Martin's School of Art, London. Represented in the UNESCO Exhibition in Paris, 1947, the Exhibition of Indian Art at Burlington House, London, 1948, the Salon de Mai, Paris & Exhibition of Indian artists in the U.S.A.; held 15 one-man shows in and outside India—Djakarta, Singapore, 1951, London 1955, Paris, 1956 and Zurich, 1956. Travelled widely in Bali, Europe and Malaya. *Recreations*: Indian Classical Music. *Address*: Ava Chambers, 1, Cinema Road, Dhobitalao, Bombay 1.

CHERIAN, Dr. P.V., M.B.B.S., D.L.O. (R.C.S.), F.R.F.P.S.G., F.R.C.S.E., Chairman, Madras Legislative Council. b. July 9, 1893; *Educ.*: C. M. S. College, Kottayam; Madras Medical College; London, Glasgow and Edinburgh. Temporary commission in the I.M.S., 1917-22; was in Iraq, 1918-22; Asst. to Prof. of Surgery, Madras Medical College, 1923-25; specialised in diseases of the Ear, Nose and Throat in London, Glasgow, Edinburgh and Vienna, 1925-27; Ear, Nose and Throat Surgeon, General Hospital and Prof. of Ear, Nose and Throat Diseases, Medical College, Madras, 1927-48; Principal, Madras Medical College, 1948-49; acted as Surgeon-General, Madras, 1947; retired, Aug. 1948; member, Syndicate of Madras Univ.; was Mayor of Madras, 1950; Ag. Vice-Chancellor, Annamalai Univ., March-May 1955. *Recreation*: Tennis. *Clubs*: The Presidency Club, Madras; Madras Gymkhana; Madras Cricket Club; Lawley Institute, Ootacamund. *Address*: 5, Victoria Crescent, Egmore, Madras.

CHERIAN, Mrs. P.V., B.A. (Madras), Ex-Mayor of Madras. b. May 28, 1913, in Madras; *Educ.*: Women's Christian Coll., Madras. Member: Senate of the Madras Univ. for two terms; Pres.: Advisory Board for the Hospital for Women and Children, Egmore, for over 20 years; Vice-Pres., Indian Conference of Social Work and all India Women's Food Council, Hon. Secy. in charge of State Ctee. in connection with the visit of three cultural delegations from the U.S.S.R., China and Unbekistan; was responsible for raising funds for erecting a 'Mother and Baby Block' in the Hospital for Women and Children, Egmore for poor patients; has been connected with several social service organizations; Alderman of the Corporation of Madras and Councillor elected by the Madras Univ. Senate; Trustee, Madras City Improvement Trust; visited U.K., Northern & Southern Ireland, May-June 1957 and studied working of local bodies in U.K. including London County Council; had an interview with the Pope; met Eamon de Valera, the Prime Minister of Ireland; the first lady to become the Mayor of Madras; organised the Mayor's School Children Midday Meal fund, resulting in the Corporation providing free mid-day meals to 30,000 school children; elected Pres., All Mayor's Conference, Hyderabad, June 1956; Pres., Madras State Tourist Board; attended the All India Tourist Development Council, Kashmir, July 1958. *Address*: 5, Victoria Crescent, Madras-8.

CHETTIAR, Dr. A. Chidambaram, M.A., Ph.D., Professor of Tamil and Head of the Department of Tamil (Arts), Annamalai Univ., since 1946. b. April 3, 1907; *Educ.*: Govt. Coll., Kumbakonam; Annamalai Univ. Lecturer, Govt. Muslim Coll., Madras (1930-33); Lecturer, Govt. Victoria Coll., Palghat (1935); Lecturer, Annamalai Univ. (1936-45); Acting Vice-Chancellor, Annamalai Univ.

(1948); Member, Syndicate of the Univ.; member: Managing Committee, Tamil Encyclopedia, Madras; General Council of Sahitya Akademi, Delhi; Board of Studies in Tamil, Madras, Travancore, Thirupati, Omania and Annamalai Univ.; visited the Universities in the U.K. on invitation from the British Council, Jan. 1955; visited the Continent, April 1955; visited Singapore and Malaya on cultural tour, Jan. 1956; Pres., Social Service League, Annamalai Nagar. *Publications*: *History of Tamil Prosody*; *Life of Sir Thomas Munro*; *Life of Booker T. Washington*; *Mun Pasi Kalam* (a Book of Lity. Essays); *Tamil Oasi* (Lity. Essays). *Club*: Staff Club, *Address*: Annamalai Nagar.

CHETTIAR, A.M.M. Murugappa, Industrialist. b. Jan. 23, 1902; *Educ.*: Madras; Managing Director: T.I. Cycles of India, Ltd., Madras; Carborundum Universal, Ltd., Madras; Tube Products of India Ltd., Madras; Director: Madras Industrial Investment Corp. Ltd., Madras; The Century Flour Mills Ltd., Madras; Thiru Arooran Sugars, Ltd., Madras; Sri Sarvaraya Sugars, Ltd., Madras; Ashok Leyland, Ltd., Madras; Export Risks Insurance Corp. Private Ltd., Bombay; Triton Insurance Co., Ltd., Calcutta; New Ambadi Estates, Private Ltd., Nagercoil; Murugappa Sons (Travancore) Private Ltd., Nagercoil; Coromandel Engineering Co. Private Ltd., T. & M. Industries Private Ltd., Madras; The Murugappa Agencies Private Ltd., Madras; Ctee. member, Federation of Indian Chambers of Commerce & Industry, New Delhi; Ctee. Member, Southern India Chamber of Commerce, Madras; Central Ctee. Member, All-India Manufacturers' Organization; member, All-India Council for Technical Education; President: East Madras Bharat Scouts & Guides; Cycle Manufacturers' Association of India, Calcutta; Managing Trustee, A.M.M. Charities Trust, Madras; Vice-Pres., Federation of Indian Chambers of Commerce & Industry, 1959-60; has extensive business interests in Burma, Malaya and Ceylon; has made extensive tour of the United Kingdom, Continent, United States of America and Far Eastern countries and has travelled around the World. *Clubs*: Cosmopolitan Club, Madras; Gymkhana Club, Madras; Madras Race Club, Ltd., Madras, Presidency Club, Madras; Century Club, Bangalore. *Address*: "Chamundeswar Baugh," 9, Santhome High Road, Santhome, Madras 4.

CHETTIAR, L. P. KR. Ramamathan, Panditha Vidwan, Panditha (Madura Tamil Sangam), Vidwan (Madras Univ.), Muttamil Vitarar (Dharmapuram Mutt, Sept. 1957); Prof. and Head of the Dept. of Tamil (Oriental), and Dean, Faculty of Oriental Studies, Annamalai University, since June 1953. b. Nov. 6, 1915; Winner, King George V Thousand Rupee Prize (Madras Univ.); Pandit's Training (Annamalai Univ.). Serves on various academic bodies of the Univs. of Annamalai, Madras, Mysore, Omania and Kerala, and on Special Ctee. constituted by the Govt. of Madras and the Annamalai Univ.; Secy.: Tamil Music Research Ctee. of the Madras Tamil Isai Sangham from 1949; compiled National Bibliography of Contemporary books of literary merit in Tamil, under the Sahitya Akademi; attended the 8th Quinquennial Congress of the Univs. of the British Commonwealth, at Montreal as one of the delegates of Annamalai Univ., Sept. 1958; visited Univs. in U.S.A. and U.K. at the invitation of U.S. Govt and British Council; is writing the *History of Tamil Literature* at the invitation of the Sahitya Akademi; member, Syndicate, Senate and Academic Council, Annamalai Univ.; member, Advisory Board for Tamil, Sahitya Akademi; member, State Library Ctee., Madras. *Publications*: Several papers and books such as *Kuthurai Koni*; *Annamalai Arasar*; and *Sange Kala Tamilar Vairu*; compiled twenty books on Tamil music published by the Annamalai Univ. *Address*: Annamalai Nagar.

CHETTY, Mr. Justice Annamalai Ranganadham, B.A., B.L. (Madras), D.Econ. (Madras), Judge, High Court of Andhra Pradesh, since 1957. b. Feb. 23, 1900; *Educ.*: Pachaiyappa Coll. and Law Coll., Madras and the Madras Univ. Practised as Advocate, Madras High Court, 1923-33; entered State Judicial Service; served also as principal Judge, City Civil Court, Madras and as Chairman, Sales Tax Appellate Tribunal, Andhra State. *Clubs*: Cosmopolitan Club, Madras. *Address*: High Court of Andhra Pradesh, Hyderabad.

CHIDAMBALAM, Smt. Indurani, Managing trustee, C. N. Vidya Vihar. *Educ.*: Secured the Chatfield Prize by passing the Matriculation examination in the first class with high distinction; passed the Snatak (B.A.) examination from Gujarat Vidyapith with Sociology in first class with honours and secured the All-India Students Prize; was Professor of Politics in the Gujarat Vidyapith for some time; took active part in the management of Seth C. N. Vidya Vihar; courted arrest in the freedom movement; selected Khadi work as a special interest; was Secy., Foreign Cloth Boycott Ctee., 1930; appointed member, Joshi Ctee. for educational reorganization and also of the Basic (Education) Board, 1937; elected uncontested to the Bombay Leg. Assembly, 1946; was Parliamentary Secy. for Education; re-elected to the Assembly, 1952; was Deputy Minister for Education and Aary Milk Colony; was associated with the Mavlaner Committee appointed for the formation of Gujarat Univ.; later a member of the Senate and Syndicate of that Univ.; Parliamentary Secy. (Educ.), Dy. Minister and Minister for Social Welfare, Bombay 1946-57; member, Rural Univ. Board, Central Film Censor Board, Labour Education Ctee., etc.; Convener, Guj. Pradesh Mahila Congress. *Address*: Khanpur, Ahmedabad.

CHINAI, Babubhai Maneklal, L.T.M. (V.J. T.I.), M.P. (Rajya Sabha), President, Swadeshi League; Vice-Pres., Rayon Manufacturers' Assoc.; a leading Silk Merchant, Bombay. b. April 19, 1913; *Educ.*: Bombay. After completing his early education, joined his family firm of Messrs. Nagindas Fulchand Chinal; is prominently concerned with the establishment and development of the Rayon Industry in India; Member: Official Trade Delegation to Japan, 1947. Entered public life during Salt Satyagraha Movement, 1930; member "Shadow Ctee." during the "Quit India" Movement and was in charge of the movement for some time; arrested, 1942; elected to the Bombay Municipal Corporation; was Hon. Treasurer, Mahatma Gandhi National Memorial Fund (Bombay Ctee.); Director: Chinal & Co. (Private) Ltd., Managing Agents of the National Rayon Corporation Ltd., etc.; Mg. Dir., Baroda Rayon Corporation Ltd.; ex-Pres.: Indian National Committee, International Chamber of Commerce; Board of Management of the Assoc. of Trade & Industry, Central Silk Board, and Development Council for Art Silk Industry; member, Kandla Port Advisory Ctee.; Representative: Indian Merchants' Chamber on the Board of Trustees, Bombay Port Trust for several years; member: B.P.C.C., A.I.C.C., Ctee. of the Federation of Indian Chambers of Commerce & Industry; Ctee. of the All India Organization of Industrial Employers; Employers' delegate to the International Labour Conference, Geneva, 1955 & 1959; member: Indian Industrial delegation to U.S.A. and Continent, 1957; Ctee. of the Silk Merchants' Assoc. for a number of years; its Pres. for some years; Pres., Indian Merchants' Chamber, 1955; Federation of Indian Chambers of Commerce & Industry, 1957-58. *Clubs*: C.O.I.; W.I.A.A.; Bombay Frey. Radio; National Sports Club of India; Shree Krishna Hindu Merchants' Club; New Poona Club. *Address*: Res.: St. James' Court, Netaji Subhas Road, Bombay 1; *Office*: The National Rayon Corporation Ltd., Bruce Street, Bombay 1.

CHINOT, Mr. Sultan Moharally, Kt. (1909). b. February 16, 1885; *Educ.*: Bharda New High School and Elphinstone College. A pioneer in the Motor Car and Petroleum trade in India; responsible for the introduction of Wireless Telegraphy in India on a commercial scale and founded the Indian Radio and Cable Communications Co., Ltd. (now nationalised by Govt.); Mayor of Bombay, 1938-39; President, Bombay Rotary Club, 1940-41; District Governor, Rotary I. 89th District, 1944-45; raised large funds for the Bombay Hospitals as a member of Hospital Maintenance Committee and as Chairman of the Silver Jubilee Motor Parade Committee and the Motor Trade Sub-Committee of the King George V Memorial Fund; organised Pageant in 1937 in aid of funds for Red Cross and again in 1940 in aid of the Amenities for Troops Fund, Bombay Presidency. *Recreation*: Horse-feeding. *Address*: Dilabhar, Carmichael Road, Bombay.

CHISHOLM, Ronald George, F.S.A. (Scot.), T.D., Norwegian War Medal (1948), United Kingdom Deputy High Commissioner in India, Madras, since March 1957. b. Jan. 28, 1910; *Educ.*: Inverness Royal and Peterhead Academies. Appointed to Scottish Home Dept. on qualifying in legal subjects (1929); Staff Coll., Camberley (1939); Battery Commander, Royal Artillery (1939); Staff Officer, R.A. Scottish Command (1940); Sheriff Clerk Depute (1941); D.A.Q.M.G., G.H.Q., Home Forces (1941-43); D.A.A. & Q.M.G., Sussex (1943-44); D.A.Q.M.G., G.H.Q., Middle East (1944-45); released, Oct. 1945; Burma Office (1945); India Office (1945-47); Commonwealth Relations Office (1947); Acting Deputy High Commissioner for the U.K. in Pakistan (1951-53). *Recreations*: Golf, Reading. *Clubs*: East Indian Sports (London); Madras Adyar (Madras); Sind (Karachi); Bengal (Calcutta). *Address*: 'Cottingley', 4, Anderson Road, Madras.

CHOPRA, Mr. Justice Giridhari Lal, B.A., LL.B., Judge, Punjab High Court, since Nov. 1, 1956. b. May 6, 1900; *Educ.*: Mahendra Coll., Patiala; Law Coll., Lahore; passed LL.B., 1922. Started practice, 1923; continued practice till Oct. 1948; elevated to the Bench, P.E.P.S.U. High Court, Oct. 28, 1948. *Address*: Punjab High Court, Chandigarh.

CHOPRA, Lt.-Col. Inder Sen, O B E, Indian Ambassador to Iraq and Jordan, since Sept. 1958. b. 1909; *Educ.*: Bishop Cotton School, Simla; Govt. Coll., Lahore; Royal Military Coll., Sandhurst. Commissioned Indian Army, 1930; served with 1st Bn., East Surrey Regt., Probyn's Horse (K.E.O. Lancers), and 16th Light Cavalry; selected to join Indian Political Service, 1936; served as Asst. Political Agent, Loralai; Asst. Political Agent and Colonisation Officer, Nasirabad; Director of Food and Civil Supplies and Secy., Revenue, Baluchistan Govt.; Secy. to the Agent to the Governor-General and Resident in Baluchistan; Secy., Indian Embassy, Washington, 1946; Counsellor, 1948; Deputy Secy., Ministry of External Affairs, 1949; Joint Secy., May 1950; Joint Secy. and Chief of Protocol, Dec. 1950; Minister to Sweden, Denmark and Finland, Aug. 1955; Ambassador to Sweden, 1956. *Recreations*: Hunting, shooting, polo and squash. *Clubs*: Delhi Gymkhana Club, New Delhi. *Address*: Embassy of India, Baghdad.

CHOUDHARY, Mr. Justice Rati Kant, B.A., B.L., Judge, High Court, Patna, since April 4, 1953. b. Jan. 1, 1907; *Educ.*: T. N. J. Coll., Bhagalpur; Law Coll., Patna. Enrolled as an advocate of Patna High Court, Feb. 1935; Lecturer in Patna Law Coll., 1939-46. *Address*: 1, Circular Road, Patna.

CROWDERY, Radha Krishna, M.A., LL.B., Chairman, Railway Rates Tribunal. b. Nov. 18, 1898; *Educ.*: Muir Central Coll., Allahabad, Allahabad Univ. Was in the U.P. Judicial

Service, March 1925-Sept. 1950; Judicial Commissioner, Himachal Pradesh, Sept. 1950-Nov. 1953; later Chairman, Election Tribunal, P.E.P.S.U. at Bhatinda; Judge, Allahabad High Court. *Recreations*: Tennis; Literature. *Address*: Adyar House, Madras 28.

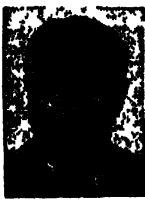
CROWDERY, Maj.-Gen. P. S., Director of Supplies and Transport, Army Headquarters, since April 1957. b. Feb. 13, 1911; *Educ.*: Preparatory Education at Woodstock School, Golders Green, England and Kilmere Coll., Shropshire, England; graduated from the Royal Military Coll., Sandhurst, England. Obtained King's Commission in the Indian Army, Jan. 1932; attached to 2nd Bn. Infantry Regt. for one year; was with 5/11 Sikh Regt. (47th), upto 1936; transferred to Royal Indian Army Service Corps, 1936; was the first Indian officer to be appointed CRIASC of an Area, 1945; was in charge of the Military Evacuation Organisation Office at Amritsar during the partition; Brigadier Incharge, Administration of Southern Command, 1949-53; Director of Movements and Quartering, A.H.Q., Sept. 1953-Feb. 1956. *Clubs*: Delhi Gymkhana Club Ltd. *Address*: 1, Jan Path, New Delhi.

CHUDASAMA, Mansinghji M., B.A., LL.B., (Bombay Univ.), Inspector-General of Police, Bombay State, since July 11, 1955. b. April 25, 1905, of a Rajput family; *Educ.*: St. Xavier's College, Bombay; Law College, Poona and Ahmedabad. Joined Imperial Police, Dec. 1929; served as D.S.P. in several districts of the Province and in Thar Parkar District in Sind where he had to deal with the Hur menace; appointed D.I.G.P., N.R., Ahmedabad, 1947; Dy. Inspector-General of Police, C.I.D., Bombay Province, 1948-49; awarded I.P.M. in the same year for long and meritorious service; Commissioner of Police, Bombay, 1949-July 1955; officiated as I.G.P. for six months, 1949-50 and for four months, 1953-54; awarded President's Medal on Independence Day, Aug. 15, 1958. *Recreations*: Tennis, Golf, Swimming, etc. *Clubs*: Ahmedabad Gymkhana Club, Poona Gymkhana Club, W.I.A.A. Club, Bombay, Willington Sports Club, Radio Club, Bombay. *Address*: Bombay.



COLEMAN, Ronald, Director, I.C.I. (India) Private Ltd., Calcutta, since 1958. b. March 1, 1909; *Educ.*: University of Reading. Joined I.C.I., U.K. Organisation, 1934, Commissioned R.A. T.A., 1938; on active service, 1939-46; posted to India, 1941 and joined Indian Mountain Artillery; transferred from I.C.I. Ltd. to I.C.I. (India) Ltd., 1946; Regional Manager, I.C.I. (India) Private Ltd., Madras till 1958. *Recreations*: Golf, Shooting, Hunting. *Club*: East India Sports Club. *Address*: C/o I.C.I. (India) Private Ltd., Calcutta.

COOPER, Jai Manekji, F.R.G.S., Member, British Philatelic Association Ltd., Hon. Secy., The Empire of India Philatelic Society. b. March 29, 1905. Member, Glasgow Philatelic Society, Philatelic Traders' Society, The Air Mail Society, etc.; Editor and Publisher of "India's Stamp Journal" (a monthly Philatelic Magazine); Auctioneer and Philatelic Valuer; Dealer in Rare Stamps and all kinds of Philatelic accessories. *Publications*: *Indian Rocket Mail, Early Indian Cancellations, Stamps of India, India used in Burma, India used Abroad, and Specialized Catalogue of Indian Stamps*. *Address*: Standard Building, Dadabhai Naoroji Road, Bombay.



COSIMBAZAR, Maharajkumar Somendra Chandra Wandy, M.A., Head of a premier Zamindar family of West Bengal. b. 1923; *Educ.*: Calcutta Univ., M.A., 1950. Pres., Governing Body, Krishnath Coll. (Berhampore), Maharaja Manindra Chandra Coll. (Calcutta), Krishnath Coll. School (Berhampore), Maharani Kasiwari Girls' School (Berhampore), Manindra Chandra Vidya-pith (Saidabad), Maharaja Sri-chandra Girls' School (Saidabad); Maharani Nilima Prabha Institute for the Deaf and Dumb (Berhampore); Pres., Central Calcutta Rifle Club; Bangiya Natya Sansad; Asstt. Secy., Bangiya Uthash Parishad; Curator, Bangiya Sahitya Parishad; Member, Calcutta Historical Society; British Indian Assoc.; Critic and Playwright; Director: Bengal Potteries Ltd., Manindra Mills Ltd., Rajgon Stone Co. Ltd., C. B. Syndicate Private Ltd., Sealdah Cold Storage & Transport Ltd., C. B. Chemicals Private Ltd., Maharaja Cosimbazar Stone Works Private Ltd.; Proprietor: Maharaja Cosimbazar China Clay Mines (Singbhum); is an all-round sportsman, taking particular interest in Cricket and Football. *Address*: "Sreepur Palace," P.O. Cosimbazar Raj, Murshidabad; "Cosimbazar House," 302, Upper Circular Road, Calcutta 9.



CROCKER, Walter Russell, C.H.K., Croix de Guerre and L'Ordre Royal du Lion (Belg.), High Commissioner for Australia in India, since 1958. b. March 25, 1902; *Educ.*: Univ. of Adelaide; Balliol Coll., Oxford; Stanford Univ., California. British Colonial Service, 1930-34; League of Nations (and International Labour Office), 1934-40; Army, 1940-48; farming in S. Australia, 1946; United Nations, 1947-49; Professor, Australian National Univ., 1949-52; High Commissioner for Australia in India, 1952-55; Ambassador to Indonesia, 1955-57; High Commissioner to Canada, 1957-58. *Publications*: *The Japanese Population Problem* (1930); *Nigeria: A Critique of British Colonial Administration* (1934); *On Governing Colonies* (1946); *Self-Government for the Colonies* (1949); *Race and International Relations* (1955). *Recreations*: Walking; Music. *Clubs*: Gymkhana, New Delhi; Reform Club, London. *Address*: Australian High Commission, New Delhi.

DABOO, Raj Priya Dinshaw Rattanji, B.A., M.L.C., Bombay State, former Nayab Dewan and member, Executive Council of Baroda State. b. 25th Sept. 1885.



Daboo family founded the Parnes General Hospital, Daboo Students' Hostels, and several other charitable and religious institutions. Himself, besides his other charities, gave a lakh of rupees to found a Girls' High School at Navsari to commemorate the name of his late mother Bai Dinbai; has created a public Charitable Trust, taking effect immediately, of all his immovable estates worth three and a half lakhs of rupees. *Educ.*: Elphinstone College, Bombay. Joined his father's business of Forest and Public Works contracts. Toured Europe in 1912. Was Director, The Associated Cement Co., Ltd., Tata Hydro-Electric Co., Ltd., Andhra Power Co., Ltd., Devkaran Nanji Investment Co., Ltd., The Navsari Electric Supply Co., Ltd.; Ex-member, Indian Council of Agricultural Research; Director, The Powell Industries Ltd.; Member, Baroda Legislative Council, 1918-25, again from 1940 to 1948. Appointed Development Minister, Baroda State, 1944-48; Member, Navsari Municipality, 1914-1948, its first elected President, 1925-1928, again 1934-1936. Member, Navsari District Board,

1917-42, its Vice-President, 1918-25, its first elected President in 1930. Director, District Co-operative Bank, 1922-42, its first elected President, 1925-42. Founded District Land Mortgage Co-operative Bank in 1936 and its President, 1936-42. Was member, Baroda Banking Inquiry Committee, Baroda Education Board, Agricultural Improvement Committee, Baroda Economic Board, Central Communication Board. Was given a civic address by the public of Navsari for selfless services to people in 1926 and 1943. Was awarded title of Raj Bhushan in 1927, Raj Ratna in 1936 and Raj Priya in 1943. Was awarded Gold Medal on the occasion of H. H. the late Maharaja's Diamond Jubilee. Address: Loonakul, Navsari (Western Rly.).

DA COSTE, Eric Paul Weollet, M.A. (Oxon), Editor, *The Eastern Economist*, New Delhi, since June 1948. Managing Director, Indian Institute of Public Opinion Ltd., New Delhi and the Marketing Research Corporation of India Ltd., New Delhi. b. June 5, 1909; Educ.: Presidency Coll., Madras; St. John's Coll. Oxford; George Webb Medical Scholar in the Univ. of Oxford, 1933. Entered Mysore Civil Service; Secy. to the Dewan of Mysore, 1930-42; Secy. to the Prime Minister, Jaipur, 1942-43; Development Secy., Jaipur, 1943-44; General Manager, Textile Machinery Corporation, Calcutta, 1944-48. Member: Tea Board, from 1954; Import Advisory Council. Clubs: Delhi Gymkhana Club; The Calcutta Club. Address: 5, Kitchener Road, New Delhi.



da COSTA-JOSHI, Major Albert F. W., F.R.C.S., L.M. & S., D.T.M., V.D., A.F.M.C., I.M.S. b. Jan. 13, 1889; Educ.: St. Joseph's Girls' School, Bombay, 1893-98; St. Mary's School, Goa upto 1903; St. Xavier's High School and Coll., Bombay, upto 1910; L.M. & S., Calcutta, D.T.M., Edinburgh, F.R.C.S. Entered M. P. Medical Service as Plague Medical Officer, 1912; Commissioned I.M.S., 1914; served as Medical Officer 2/9th King George's Own Gurkha Rifles, World War I, Third Afghan War and Frontier Expeditions; Prof. of Midwifery, Gynaecology, Pediatrics, Hygiene, Surgery and Eye, Ear, Nose and Throat in Robertson Medical School, Nagpur, 1921; Civil Surgeon, M. P., 1927; retired 1938, with the rank of Major; General Secretary, Catholic Union of India; member, Indian Medical Assoc., M.P. Medical Assoc., Bombay Medical Union; former member of British Medical Association; recipient of the Volunteer Officer's Decoration, 1929; decorated by His Holiness The Pope Pius XII with the "Bene Merenti" Gold Medal, May 30, 1950. Hobbies: Polo, Golf, Photography, Sport, etc. Publications: *Entire absence of the Uterus; Atresia of the Vagina and Cervix Uteri; Appendicitis, Tonilla, Adenoids, Cholera, Strangulated Hernia, Teeth at Birth, Suspended Animation.* Address: Chateau d'Emilia, Kamptee Road, Nagpur 1.



DAOUR, Sangeet Ratnagar Ustad Rahim-uddin Khan, Musician; Professor of Dhrupad-alap styles of singing, Marria Coll. Hindustani Music, Lucknow. b. April 7, 1905, at Udaipur; Educ.: Studied music privately for 18 years under his uncle Ustad Zakiruddin Khan and his father Ustad Allahbunde Khan; gave his first public performance along with his father and uncle at the All India Music Conference, Lucknow, 1925; sang a 'bhajan' to Gandhiji, 1922; awarded 'Sangeet Ratnagar', by Bharat Dharma Mahamandal, Banaras has given several performances at Music

Conferences throughout the country since 1954; his performances in the country have always had a good press. Address: 8, Barrow Road, Lucknow.

DAHANUKAR, Dattatreya Mahadeo, Director: The Maharashtra Sugar Mills Ltd.; M. L. Dahanukar & Co. Private Ltd.; New Asiatic Insurance Co. Ltd.; Managing Director, the Premier Wire Products Private Ltd. b. Dec. 21, 1911; Educ.: Bombay. Member, The Indian Merchants' Chamber and The Maharashtra Chamber of Commerce, Bombay.



Recreations: Swimming, Golf, Bridge, etc. Clubs: Willingdon Sports Club; Cricket Club of India Ltd.; Bombay Presidency Radio Club. Address: Office: Industrial Assurance Building, opp. Churchgate Station, Bombay 1; Residence: "Ratnakar," Indrajai Road, Malabar Hill, Bombay 6.

DAHANUKAR, Mahadeo Laxman, Managing Director, M. L. Dahanukar & Co. Private Ltd., Managing Agents, The Maharashtra Sugar Mills Ltd., and The Belvandi Sugar Farm Private Ltd.; Director, Dahanukar Sons Private Ltd., New United Construction & Eng. Co. Private Ltd., Worli Chemical Works Private Ltd., The Anruti Oil Mills Ltd., The United Commercial Bank Limited, The Hindustan General Insurance Society Ltd.; ex-Sheriff of Bombay; ex-President, The Maharashtra Chamber of Commerce; Employers' delegate to the International Labour Conference, Geneva, 1939; Ex-member of the Committee of the Indian Merchants' Chamber, the Federation of Indian Chambers of Commerce & Industry, Indian National Committee of the International Chamber of Commerce, All-India Organisation of Industrial Employers; Provincial Housing Advisory Committee, Bombay and other Govt. Bodies; Employers' Federation of India; Councillor, Bombay Municipal Corporation (1932 to 1939); and Bandra Municipality (1930-34); Divisional Rly. Users' Consultative Ctee., Central Rly., Bombay; takes active part in all commercial, industrial and social activities. Address: Shree Sadan, 4A, Carmichael Road, Cumballa Hill, Bombay; Industrial Assurance Building, opp. Churchgate Station, Bombay.



DALAL, Jayanti G., Gujarati Writer. b. Nov. 18, 1909; Educ.: Surat, Ahmedabad and Gujarat Coll., Ahmedabad. Gave up studies to join satyagraha, 1930; jailed, 1930, 1932-33, 1941, 1942-44, 1957; took to journalism and writing; organised Mahagujarat Janata Parishad, 1958; elected to Legislative Assembly; had been Chairman, Gujarat P.S.P. Publications: novels, short stories, one act plays, drama, etc., translated entire *War and Peace*. Recreations: Reading, Drama. Address: Jivan Pole, Sankadi Sheri, Ahmedabad.

DALAL, Manohari Nadirshaw, Industrialist and Chartered Civil Engineer. b. January 7, 1905; member, Council of State for over a decade; Chairman, Council of State; Sheriff of Bombay; Vice-Pres., Indian Branch of the Commonwealth Parliamentary Assoc.; Member of the Court, Delhi Univ.; served on almost all Advisory Ctees. of Ministries of the Govt. of India, like the Industries and Civil Supplies Ctee., Supply and Munitions Production Ctee., Central Advisory Council of the Railway Board, Civil Defence Ctee., Food Ctee., Central Food Council, Roads Ctee.,



Commonwealth Relations Ctee., Central Consumers Council, etc.; member, Exec. Ctee., Anti-Tuberculosis Assoc., Delhi; Secy., the Engineering Industries Sub-Ctee. of the National Planning Ctee., 1939, etc.; Chairman, M. V. Taxation Enquiry Ctee., appointed by the Govt. of India, 1950; Pres. and member of Council, Indian Roads and Transport Development Assoc., India; Director, International Road Federation representing India; in Bombay served on the Board of Communications, Provincial Transport Authority, Traffic Advisory Board, Famine Relief Ctee., Food Council, Food Advisory Board, Western Railway Local Advisory Council, etc.; member, Executive Ctee. of the Indian Merchants' Chamber; Chairman: Tractors (India) Ltd.; Palampur Vegetable Products Ltd.; Director, Sepulchre Bros. (India) Ltd.; Member, Royal Institute of Civil Engineers (London); Fellow, Incorporated Assoc. of Architects and Surveyors (London); Fellow, Royal Society of Arts (London); Honourably mentioned for the Charles Hawesley Prize, 1931, by the Royal Institute of Civil Engineers (London) Address: Nepean House, Ridge Road, Bombay 6.

DELMIA, Jaddayal. b. 1908, younger brother of Seth Ramkrishna Dalmia; Educ.: Privately. A leading industrialist and an able executive; has wide knowledge of machinery and plant; keenly interested in mass literacy, labour problems and maternity welfare; has travelled in India and Europe; has visited workshops of many important machinery manufacturers in Great Britain and the Continent and has good experience of different processes of cement manufacture; a keen student of mechanical and electrical engineering; Chairman, Orissa Cement Ltd. and Dalmia Iron & Steel Ltd. Hobbies: Industrial Chemistry, Numerology, Tennis, Photography. Address: 2, Hardinge Avenue, New Delhi.



DELMIA, Seth Ramkrishna. b. April 7, 1903. Industrialist; his ancestors, noted for their love of spiritual service, belonged to Dalmia, a village in the Punjab States, from where they migrated to Rajputana; Educ.: Without the help of a tutor, by reading books in leisure time, practical experience and natural gift, acquired knowledge specially in finance, banking, commerce, economics and philosophy; also acquired good knowledge of Hindi, Bengali, Gujarati and English, all of which he speaks well and with ease; well read in Hindu scriptures; started career at the age of 12 on Rs. 10 per mensem, as an apprentice with his maternal uncle; is the founder of the Dalmia-Jain Group of Industries consisting of many companies including banks, insurance and investment companies, chains of cement and sugar factories, chemicals, biscuit factories, aviation companies, railways, collieries, publishing house and newspapers; has now distributed most of the concerns between his brother and son-in-law, keeping just a few in his hands; had numerous ups and downs in his career but his steadfastness and strong will power raised him to his present position; his centres of activity have grown into self-sufficient towns, named after his ancestors and relations—Dalmianagar (Bihar), Dalmiapuram (South India), Dalmia-Dadri (Punjab), Ramkrishna Lok, Bawal Madhopur (Rajasthan), and Shantinnagar (Karachi, Pakistan); one of the biggest philanthropists, his charities include schools and other institutions such as hospitals, widows' homes, poor houses, and religious institutions being run by Charity



Trusts; since 1951 has lived on fruit and fruit juices, has vowed not to take cereals until cow slaughter is abolished; wears simple clothes and is frugal in his personal expenses; is on terms of friendship with religious and social leaders; orthodox in his living and having implicit faith in his own Hindu religion, has strong belief in the omnipotence of the Almighty who pervades and controls the Universe. *Hobbies*: Study of Philosophy and propagation of Adwait. *Address*: Dalmia House, New Delhi.

DAMLE, Kashinath Raghunath, B.Sc. (Hons.) (Allahabad and London), I.C.S., Secretary, Ministry of Food and Agriculture (Deptt. of Agriculture), Govt. of India. b. March 3, 1906; *Educ.*: Allahabad Univ.; King's Coll., London. Joint Magistrate and Dist. & Sessions Judge in various places in U.P. and Ajmer (1930-44); Secy. to High Commissioner for India in Australia, also Acting High Commissioner (1944-48); Joint Secy. and Offg. Secy. to Govt. of India and Vice-Pres., Indian Council of Agricultural Research (1949-55); Chairman, Tariff Commission 1955-58. *Recreations*: Tennis, Golf. *Clubs*: Delhi Gymkhana Club, Delhi Golf Club. *Address*: New Delhi.

DAMODARAN, K., Communist leader; Editor, *Navayugam*, Ernakulam. b. Feb. 5, 1912; *Educ.*: Zamorin's Coll. and Kasali Vidya Pith, Benares. Began political, social and literary activities, 1930; Secy., Kerala Vidyarthi Sangham, 1931; arrested and jailed during C.D. movement; joined Congress Socialist Party, 1934; became member, Communist Party, 1935; took part in trade union activities; became member, A.I.C.C.; Secy., Kerala Pradesh Congress Ctee., 1940; arrested and detained for 5 years; arrested and detained, 1948 and 1950; is member: Central Executive Ctee. of the Communist Party of India; Kerala Sahitya Academy; Senate of the Kerala Univ., etc. *Publications*: Has written about thirty books and pamphlets on various subjects like Economics, Philosophy, Sociology, Literature, Marxism, etc.; *The Soul of India* (Philosophy); *Principles of Economics*; *Manushyan* (Evolution and development of the human being); *What is Literature*; *Marxism* (10 parts); *Pattabuttaki* (Arrears of Rent: A Play), etc. *Address*: Editor, *Navayugam*, Ernakulam.

DANDEKAR, Gopal Neelkanth, Marathi Novelist. b. July 8, 1917; *Educ.*: Upto 5th standard at Nagpur; left school and house to join national movement of 1930; wandered all over India in company with Sages for a period of 15 years. *Publications*: Novels: Marathi: *Binduchi Katha*; *Tudavale Gharat*; *Padma*; *Sindhukanya*; *Shiru*; *Jagannatha Pandit*; *Pannakathacha Dhond*; *Pudghasi*; *Purnamayachi Lekre*; *Kuna Ekachi Bhraman Gatha*; Hindi: *Kisi Ekachi Bhraman Gatha*; Dramas, Collections of stories, 60 books of various nature in Hindi and Marathi. *Address*: Talegaon-Dabhada, District Poona.

DANDEKAR, Ramchandra Narayan, M.A. (Sanskrit), M.A. (Ancient Indian Culture), Ph.D., Sanskrit scholar; Professor of Sanskrit and Head of the Deptt. of Sanskrit and Prakrit Languages, Univ. of Poona. b. March 17, 1909; *Educ.*: Deccan Coll., Poona; Heidelberg Univ. (Germany); Hon. Secy., Bhandarkar Oriental Research Institute, Poona, since 1939; General Secy., All India Oriental Conference, since 1940; Vice-Pres.: International Union of Orientalists, 1954; International Council for Philosophy and Humanistic Studies, 1955; Hon. Member, French Academy of Far Eastern Studies, 1949; member: International Univ. Assoc., 1957; Academy of Human Rights, 1957; attended International Congresses of Orientalists at Paris (1948), Istanbul (1951), Cambridge (1954), and International Congress for the History of Religions, Tokyo (1958); Member-Secy., Sanskrit Commission appointed

by the Govt. of India, 1956-57; Joint General Editor, Critical Edition of Mahabharata; Editor, *Annals of B.O.R.I.*, *Journal of University of Poona*, *Erasmus. Publications*: *Der vedische Menach*, *A History of the Gupias*, *Vedic Mythological Tracts*, *Vedic Bibliography*, *Salva-parvan*, *Rasaratnapradipika*, *Progress of Indic Studies*; has contributed to various Indian and foreign publications. *Address*: University of Poona, Poona-7.

DANDEKER, Narayan, B.Sc. (Econ.) (Hons.) (London), B.Com. (Hons.) (London), A.S.A. (Hons.), A.C.A. (Eng.), A.C.A. (India), I.C.S. (Retd.). Managing Director, Cement Agencies (Private) Ltd., Managing Agents for the Associated Cement Companies Ltd., since Dec. 1954; Pres., Bombay Chamber of Commerce, 1950-60; Chairman, Council for Economic Education, b. June 24, 1908; *Educ.*: St. Mary's European High School, Madras; Univ. Coll., Colombo, Ceylon; London School of Economics, London; School of Oriental Studies, London. Joined the I.C.S., 1931; Commissioner of Income-Tax (1941-44), at Calcutta and then in Punjab, Delhi and N.-W.F. Provinces (1944-46); on special duty with the Central Board of Revenue (1946-47); Commr. of Income-Tax, Bengal (1947-48); Member, Central Board of Revenue (1948); Joint Secy., States Ministry (1948); member, Expert Ctee. to enquire into Finances of Indian States; appointed member, Ctee. on State Trading, Oct. 1949; was with Scindia Steam Navigation Co., Ltd., Bombay, 1949-54; President, Bombay Management Association. *Clubs*: Presidency Club, Madras; Calcutta Club and '300' Club, Calcutta; Roshanara and Delhi Gymkhana, New Delhi; Lahore Gymkhana; Rotary Club, Willingdon Sports Club and Radio Club, Bombay. *Address*: Southlands, 177, Upper Colaba, Bombay 5.

DANGE, Shripad Amrit, M.P., General Secretary, All India Trade Union Congress. b. Oct. 10, 1899; *Educ.*: Bombay. Member, Central Executive Committee of the Communist Party of India and also member, Secretariat; Vice-Pres., World Federation of Trade Unions; courted jail for over 15 years under the British Govt. and the Congress Govt. for conducting strikes, struggles and political activities on behalf of the Communist Party; elected to Lok Sabha, 1957. *Publications*: *India from Primitive Communism to Slavery*, 1949; *Hell Found*, 1928; *Gandhi vs. Lenin*, 1921. *Address*: 9, Kohinoor Road, Dadar, Bombay 14; No. 4, Ashok Road, New Delhi.

DARPTARY, Chandra Kisan, M.A. (Cambridge), Bar-at-Law, Solicitor-General, Govt. of India, since July 1951. b. April 1, 1898; *Educ.*: St. Paul's School, London; Magdalen Coll., Cambridge; called to the Bar, January 1917, Advocate O.M., High Court; Advocate-General, Bombay, till July 1951. *Address*: 68-B, Nepean Sea Road, Bombay; 3, Hastings Road, New Delhi.

DARGAN, Rajinder Mohan, B.A., Proprietor, Aar Dee Publications, the principal agents for Keystone Press Agency Ltd., Far East Bureau, and producers of short films. b. Nov. 22, 1924, at Montgomery, West Pakistan; *Educ.*: Presidency Coll., Madras; B.A. from Hindu Coll., Delhi, 1945. Started his career with Begg, Sutherland & Co., Ltd.; took up insurance career, 1948; was Resident Secy., All-India General Insurance Co., Ltd.; started his own business, 1953; has produced short films in colour for several reputed firms; can also write short scripts; is

a freemason and a member of Lodge "Clair"; visited Japan in connection with his business with Keystone, 1958; is also the Chief Correspondent for Keystone in India. *Recreations*: Bridge, Photography. *Clubs*: Wheeler Club, Meerut; Chelmsford Club, New Delhi. *Address*: Narinder Bhavan, Warden Road, Bombay 26.

DAS, Arup, Graduated in Art from the Govt. College of Arts & Crafts, Calcutta in 1949, Senior Artist, Directorate of Advertising & Visual Publicity, Ministry of Information and Broadcasting, Govt. of India. b. July 6, 1927; *Educ.*: Calcutta. Paintings exhibited extensively in the principal cities of the world and are in the private collections and Art Galleries with U.N.S.R., Cairo, Warsaw, Hungary and Australia; awarded many prizes from different exhibitions; one of his paintings was presented to Mahan Sun Yat Sen by the Govt. of India, two are in the National Gallery of Modern Art, New Delhi, two in the Hyderabad Art Gallery, one in the Art Gallery of Mahaa and one in the Parliament House; awarded the National Prize from the Lalit Kala Akademi, Min. of Education, Govt. of India, 1955; held a one-man exhibition of paintings in New Delhi, 1954 and in Calcutta, 1956; one of his recent paintings was presented to the Japanese Govt. by Dr. Rajendra Prasad during his State Visit (Sept.-Oct. 1958). *Address*: C/o All India Fine Arts & Crafts Society, Old Mill Road, New Delhi.

DAS, Debesh Chandra, B.A. (Hons.), I.C.S., Joint Secretary, Govt. of India, Ministry of Transport and Communications since Jan. 1955. b. Sept. 1, 1911; *Educ.*: Calcutta and London Univs.; first class first in English Honours; Middle Temple, London. Entered the I.C.S. by open competition, 1934; Under Secy. to the Govt. of Assam, Home and Political Deptts., 1938-40; Under Secy. to the Govt. of India, Home Deptt., 1940-43; Deputy Secy. to the Govt. of India, Home Deptt., 1944-47; Civil Passage Controller, Govt. of India, 1948; rejoined Assam Govt., 1948; Addl. Chief Secy. and Development Commissioner, Govt. of Assam and Chief Secy., Govt. of Assam; rejoined Govt. of India as Secy., Union Public Service Commission; Pres., All India Bengali Literary Conference, *Publications*: *Prem Rag*, a book of love lyrics and *Europa*, a book on Europe in Bengali with foreword by Tagore and in Hindi with foreword by President Rajendra Prasad; *Rajjoara* (belles-lettres), 1953; *Rajasi* (belles-lettres), 1955; *Artheek Manabi Tumi* (novel), 1954; *Rome Theko Rama* (short stories), 1954; *Rajaki Raga* (war novel), 1956; *Europa Through Indian Eyes* (essays in English), 1940 etc. *Recreations*: Music, Photography and Literature. *Clubs*: Delhi Gymkhana Club. *Address*: 7, Curzon Lane, New Delhi.

DAS, Durga, Chief Editor, *The Hindustan Times*, since Aug. 1957. b. Nov. 23, 1900, at Aur (Punjab); *Educ.*: Jullundur and Lahore. Parliamentary Correspondent and Editor, Associated Press of India, New Delhi-Simla, 1918-37; Special Representative of the Statesman, 1938-43; Joint Editor, the *Hindustan Times*, 1944-57; studied working of the Press and Parliaments in Europe and the U.K., 1931; visited the Middle East, Italy and the U.K. as War Correspondent, 1945; Pres., U.P. Press Conference, 1946; Secy., Press Assoc., New Delhi, 1943-47; member, Indo-Pakistan Press Consultative Ctee., 1949-51; Chairman, Press Gallery Ctee., Indian Parliament, since 1951; Delegate to the Commonwealth Press Conference, Ottawa, 1950; Pres., Press Club of India, New Delhi; made round-the-world tour, 1957. *Publications*: *India & The World*; *Ram Rajya In Action*. *Recreations*: Tennis; Swimming; *Clubs*: Chelmsford Club, Constitution Club and Press Club of India, New Delhi. *Address*: 2, Keeling Lane, New Delhi.

DES, Mr. Justice Gopal Chandra, B.A., B.L., Judge, Orissa High Court, since 1956. *b.* Feb. 11, 1902. *Educ.*: Puri Zilla School, Ravenshaw Coll., Cuttack, and Patna Law Coll., Patna. Enrolled and practised as an Advocate, Patna High Court, 1930-48; Standing Counsel to the Income-Tax Deptt., 1949-50; Govt. Advocate, Orissa High Court, 1950-52; elected member Bar Council, 1949-56; was Chairman, Tribunal Constituted under the Orissa Estates Abolition Act; is also Chairman, Industrial Tribunal, Orissa; Chairman, Governing Body of the S.C.B. Medical Coll. and the Ravenshaw Coll., Cuttack; Chairman, Advisory Board (Preventive Detention Act), 1953; Vice-Pres. Rotary Club, Cuttack, for 1958. *Recreations*: Music, Art, Gardening. *Address*: Stoney Road, Cuttack.

DES, Kameswar, M.A., B.L. (Calcutta), Minister for Revenue, Assam, since April 22, 1957. *b.* Nov. 2, 1897; *Educ.*: Univ. Coll., Gauhati and Law Coll., Calcutta; took Law degree, 1922. Practised as a lawyer from 1923; gave up practice and joined the Gaudiya Mission of Calcutta, an organisation for the spread of Valanavism; after some time re-joined practice; became Municipal Commissioner and then Chairman, Goalpara Municipal Board; started several high schools and M.E. Schools; was elected M.L.A.; became Parliamentary Secretary and later Dy. Minister. *Publications*: A book in Assamese called *Bhagwati Vaisnab Dharma*. *Address*: La Chaumier, Shillong.

DES, Dr. Meme Mohan, M.B.B.S., Dy. Minister for Scientific Research and Cultural Affairs, Govt. of India, since Apr. 1957. *b.* 1910; *Educ.*: Graduated from Calcutta Medical College. Was member, Forward Bloc; House Physician, Calcutta Medical Coll. Hospitals for one year; served in Calcutta Corporation for several years; was member, Constituent Assembly; was Parliamentary Secretary and Dy. Education Minister, Govt. of India. *Recreations*: Gardening. *Address*: 15/3, Nirode Bihary Mallick Road, Calcutta; New Delhi.

DES, Dr. Pandit Nilakantha, M.A., D.Lit., Speaker, Orissa Legislative Assembly, Poet and Writer. *b.* August 5, 1894. Appointed by Calcutta University to Postgraduate Professorship in 1920; imprisoned in N. C. movement; was Provincial Congress President, Utkal, several times from 1934-39 and President, Utkal All-Party Conference; elected Chairman, Reception Committee, I.N. Congress, Puri Session, 1931-32; Member, Delhi University Court for 6 years from 1924; Chairman, Orissa University Committee; M.L.A. (Central), 1924-30, again from 1935-45; M.L.A. (Orissa), 1952-57; Pro-Chancellor, Utkal Univ., 1955. *Publications*: Books for children on new lines; Critical Treatises, Essays, etc.; a new thesis on the Gita with commentary; Evolution of Oriya Literature; Pres., Oriya Sahitya Akademi, since 1952. *Address*: Village and P.O. Sriramchandrapur, Dist. Puri.

DES, Mr. Justice Sudhansu Kumar, B.A., Judge, Supreme Court, since April 30, 1956. *b.* Sept. 3, 1898; *Educ.*: Collegiate School, Krishnagar (West Bengal), Pres. Coll., Calcutta and London School of Oriental Studies, London. Joined the Indian Civil Service by competitive examination held in London in 1921; served in Bihar and Orissa as Asst. Magistrate & Collector; later as District & Sessions Judge; Registrar, Patna High Court; Secy., Legislative Deptt.; Judicial Secretary & Legal Remembrancer, Labour Commissioner, Govt. of Bihar; appointed Officiating Judge, Patna High Court, 1944; Additional Judge, 1948-48; Permanent Judge, 1949-55; Chief Justice Jan. 1955-April 1956. *Address*: New Delhi.

DES, Mr. Justice Sudhi Ranjan, Chief Justice of India, since Feb. 1, 1956. *b.* Oct. 1, 1894, *Educ.*: Tagore's School, Santiniketan; Bangabasi College, Calcutta; Univ. College,

London; Graduated, Calcutta Univ., 1915; LL.B. (Lond.) 1st class 1st, 1918; called to the Bar, Gray's Inn, 1918. Joined Calcutta Bar, 1919; Lecturer, Univ. Law College; Additional Judge, Calcutta High Court, 1942-44; Puisne Judge, Calcutta High Court, 1944-49; Chief Justice, East Punjab High Court, 1949-50; Judge, Supreme Court of India, 1950-55. *Recreation*: Tennis. *Club*: Calcutta. *Address*: New Delhi.

DES GUPTA, Bimal, Diploma in Commercial Art, leading painter; Assistant Director (Publicity), National Bldg. Organisation, Ministry of Works, Housing & Supply, Govt. of India, New Delhi. *b.* Dec. 28, 1917; *Educ.*: Berhampore Collegiate School, Berhampore; Govt. College of Arts and Crafts, Calcutta. Art Editor, *Victory* magazine for one year; Poster Artist in the Recruiting Directorate, one year; Commercial Artist in Adarts, Delhi; won several prizes in all India poster competitions; also gold and silver medals as best water colourist in various exhibitions in India; awarded the national prize by the President of India, 1955; paintings exhibited in the principal cities of the world; held one man exhibitions of paintings in Delhi, Sept. 1955, Sept. 1957 and in Calcutta, Feb. 1957; his latest experiments are in unconventional *gonache* paintings; a water colour 'Sacks and Sands' preserved in the Hermit Art Gallery, U.S.S.R.; extensively toured India for study. *Recreations*: Yogic Asanas; Touring for study; Study in studio. *Clubs*: All India Fine Arts and Crafts Society, New Delhi; Yogasram, New Delhi. *Address*: 15 A/5, Western Extension Area, Karol Bagh, New Delhi 5.

DES-GUPTA, Dr. Narendranath, M.Sc. (First-class) (Silver medalist), D.Sc., Professor of Chemistry, Fuel & Metallurgy, Indian School of Mines and Applied Geology, Dhanbad. *b.* November 1904; *Educ.*: The University of Calcutta, Bengal. Worked as a Chemist under Bengal Paint and Varnish Mfg. Co., Dum Dum upto the end of 1929; awarded a Post-graduate Research Scholarship by the Govt. of Bengal for carrying on original investigation on organo-arsenic drugs, 1930-33; Lecturer in Inorganic Technology and Silicates in the Department of Applied Chemistry, Calcutta University, 1933-45; Council Member, Indian Chem. Soc., 1949-50; Ex-Com. Member, C.U., 1942-47. *Publications*: Published numerous papers embodying the results of original investigations in branches like organo-arsenic compounds; glass and silicates; sulphur, phosphorus, analytical chemistry and metallurgy. *Address*: Dhanbad.

DES-GUPTA, Niraj Nath, M.Sc. (Cal.), Ph.D. (Lond.), F.N.I., Scientist; Professor of Biophysics, Institute of Nuclear Physics, Calcutta Univ. *b.* Feb. 1, 1909; *Educ.*: Hindu School, Calcutta (1925); B.Sc. (Hons.), Presidency Coll., Calcutta (1929); M.Sc. (1st Class 1st), Science Coll., Cal. (1931); Ph.D., King's Coll., Lond. (1938); Gold Medal and Prize (Cal. Univ., 1931); Mahendralal Sircar Research Medalist (1938); Ghosh Travelling Fellow, Cal. Univ. (1945); Research Associate, Stanford Univ., California (1946). Reader in Biophysics, Cal. Univ. (1947-53); member, Senate and Academic Council, Cal. Univ., since 1954; Hony. Physicist, Chitranjan Cancer Hospital, since 1950; visiting Prof. Institute of Post-Graduate Medical Education and Research, since 1958; Gen. Secy., Indian Physical Society (1951-54); Secy., Biophysics Research Ctee., C.S.I.R., Govt. of India; member, American Physical Society; a pioneer in Electron Microscopic Research in India; attended by invitation the International Conferences in Electron Microscopy, Toulouse, France, 1955, and Berlin, 1958. *Publications*: *Wilson Cloud Chamber and its Applications in Physics* (1946), translated into Russian; numerous other scientific papers in electron microscopy and biophysics. *Address*: 44, Hazra Road, Calcutta 19.

DES GUPTA, Pradosh Kumar, B.A., F.R.S.A. (Lond.) (1955), Curator, National Gallery of Modern Art, New Delhi, since July 1957. *b.* Jan. 10, 1912, in Dacca; *Educ.*: B.A. from Scottish Church Coll., Calcutta, 1932; Govt. School of Arts and Crafts, Lucknow, and Madras; received first training in sculpture under Mr. H. Roy Chowdhury and Mr. D. P. Roy Chowdhury at Lucknow and Madras; awarded Guru Prasanna Ghose Travelling Scholarship by the Calcutta Univ. in 1938 to study sculpture in Royal Academy of Arts, London; L.C.C. Central School of Arts and Crafts, London; Ecole De Grand Schaumere, Paris. Set up a studio in Calcutta, 1940; founded Calcutta Group, 1943; practised as a professional sculptor till 1950; went twice to South East Asian countries, 1950-51; joined Univ. of Baroda as Reader and Head of the Deptt. of Sculpture, 1950; Prof. of Sculpture, Govt. Coll. of Arts and Crafts, Calcutta, 1951-57; represented India in the International Sculpture Competition held in Tate Gallery, London, 1953. *Publications*: *My Sculpture* (1956); many articles on Art in various magazines, periodicals and dailies both in English and Bengali. *Recreations*: Music, Sports and Photography. *Address*: Jaiapur House, New Delhi.

DES GUPTA, Mr. Justice Subodh Ranjan, Chief Justice, Mysore High Court, since July 25, 1957. *b.* 1901; *Educ.*: Mitra Institution and later in the Scottish Church Coll., Calcutta; called to the Bar at the Middle Temple, 1928. Began practice at the Calcutta High Court; Judge of the Calcutta High Court, 1949-57. *Address*: Atara Kacheri Buildings, Bangalore 1.

D'ESPREMONT-LYNDEN, His Excellency Comte Geoffrey-Gebart, Belgian Ambassador in India and also Minister Plenipotentiary to Afghanistan. *b.* Jan. 10, 1904; *Educ.*: Univ. of Louvain (D. en D.-P. Sc.). Attaché of Legation, Belgrade, 1930; with Cabinet de Premier Ministre, 1933; Secy. of Legation, Warsaw, 1937-39; Counsellor of Embassy, Paris, 1944; Chargé d'Affaires, Rome, 1945; Envoy Extraordinary and Min. Plenipotentiary to Lebanon, Syria and Iraq, 1947; Foreign Office in Brussels, Director for U.N. Affairs, 1952; Officer, Ordre de Léopold; Knight Sovereign Military Order of Malta; Médaille de la Résistance (France); Commandeur Ordre du Odeur du Liban; Commandeur Ordre du Mérite Syrien. *Address*: Belgian Embassy, 24, Hardinge Avenue, New Delhi.

DATER, Balwant Nagesh, M.A., Minister in the Ministry of Home Affairs, Govt. of India, since Feb. 14, 1956. *b.* Aug. 19, 1894, at Tasgaon, Satara; *Educ.*: Deccan Coll., Poona; Baroda Coll., Baroda. Member: Senate and Faculty of Arts, Bombay Univ., 1937-42; Board of Studies in Kannada language, 1939-42; Part-time Prof. of Law, B. L. Law Coll., Belgaum, 1939-52; Dean, Faculty of Law, Karnatak Univ., 1950-51; member: Syndicate, Senate and Academic Council, Karnatak Univ., 1947-52; Karnatak P.C.C.; Separation of the Executive from the Judiciary Ctee., Bombay, 1947; Bombay Univ. Reorganisation Ctee., 1949; Karnatak Univ. Ctee., 1948; Pres., City Congress Ctee., Belgaum; elected to the Lok Sabha from Belgaum North Constituency in the general elections, 1952 and again in 1957; Deputy Minister for Home Affairs, 1952-56. *Address*: Ramana Niwas, Kadoikar Street, Belgaum.

DATAR SINGH, Sardar Bahadur Sir, F.R.S.A., M.D.D., Development Adviser for Kashmir and Addl. Secy., Ministry of Home Affairs, Govt. of India; formerly Production Commissioner & Addl. Secy., Govt. of India, Ministry of Food & Agriculture, New Delhi; Formerly Cattle Utilisation Adviser to Govt. of India & Vice-Chairman, Indian Council of Agricultural Research; Pres., Indian Central Cotton, Jute, Sugarcane, Lac Com. Arcsant-Tobacco, Coconut and Oilseeds Ctees., 1946, 52; Vice-Pres., All India Cattle Show Society;

Member, Export Advisory Council, Food Advisory Council and Selection Cttee. for Armed Forces; Chairman, Cattle Preservation and Development Cttee.; Pioneer in scientific breeding and dairy farming in India; represented India at International Dairy Congress, Copenhagen, 1931 and Berlin, 1937; Non-official Adviser to Govt. of India for Trade Negotiations between British Govt. and Govt. of India, 1937; led Indian Industrial Delegation to Australia and New Zealand, 1945; Indian Delegate to International Wheat Conference, London, 1947, and to Australia for Food Purchase and to Food & Agriculture Organisation Conference, U.S.A., 1948; Leader of Indian Delegation, Food & Agriculture Organisation, S.E. Regional Animal Breeding Conference (Conference Pres.) and Chairman, International Standardization Organisation, Technical Cttee., New Delhi, 1950; Indian Delegation to F.A.O. Conference, Rome, 1951; and F.A.O. Co-ordinating Cttee. and Council Meetings, 1952, 1953, 1954 and 1955; Leader, Indian Delegation to International Dairy Congress, Hague, 1953. *Club:* Gymkhana. *Address:* 3, Tughlak Road, New Delhi.

DATTA, R. N., M.Sc. (Ald.), B.A. (Oxon.), I.F.S., President, Forest Research Institute and Colleges, Dehra Dun, since Sept. 1957. *b.* Sept. 15, 1902; *Educ.:* St. John's School and Coll., Agra; Univ. of Allahabad and Univ. of Oxford; M.Sc., Allahabad, 1925; B.A. (Oxon.)—(Forestry)—1927 (As L.F.S. Probationer). Appointed to Indian Forest Service, 1927 and posted to C.P. & Berar; worked as Attached Officer, Asst. Working Plan Officer, Divisional Forest Officer, 1927-46; Silviculturist and Forest Utilisation Officer, 1946-49; Conservator of Forests, 1949-50; Deputy Chief Conservator and Chief Conservator of Forests in old and reorganised M.P., 1950 and 1957. *Club:* Officers' Club, New Forest, Dehra Dun. *Address:* President, F.R.I. & Colleges, P.O. New Forest, Dehra Dun, U.P.

DATTA, Sisir Kumar, B.A. (Hons.) (Calcutta), I.C.S., Chief Secy. to Govt. of Assam. *b.* Nov. 27, 1911; *Educ.:* Presidency Coll., Calcutta; London School of Economics and Trinity Coll., Cambridge. Recruited to the I.C.S. in London, 1935; appointed Asst. Commr., Assam, Feb. 1937; served in various capacities as S.D.O., Deputy Commr., Director of Industries, Provincial Textile Commr. and Secy. to Govt., Assam, till 1949; Deputy Secy. to Govt. of India, Ministries of Food, Relief & Rehabilitation and Commerce & Industries, till 1951; Additional Chief Secretary to the Govt. of Assam till 18th May 1952; Chief Secretary to the Govt. of Assam from 19th May 1952; attended course at the Administrative Staff Coll., Henley-on-Thames, U.K., 1956. *Recreations:* Tennis, Bridge, Music, Amateur Dramatics. *Clubs:* Delhi Gymkhana; Shillong Club. *Address:* Lum-pyngad, Shillong, Assam

DAVE, Mr. Justice Durga Shanker, B.A., LL.B., Judge, High Court of Rajasthan, since July 12, 1952. *b.* Dec. 18, 1906; *Educ.:* Darbar High Schools at Bundi & Jhalawar; B.A. from Banaras Hindu Univ.; LL.B. from Agra Univ. Appointed City Magistrate, Bundi, 1930; Distt. Magistrate and Civil Judge, 1931-37; Distt. & Sessions Judge, Bundi, 1937-47; High Court Judge, Bundi, 1948; High Court Judge in former Rajasthan, 1948-Jan. 25, 1951; Judge, Industrial Tribunal, 1951-52. *Recreations:* Sports, Tennis & Music. *Clubs:* Sardar Club, Jodhpur; Rotary Club, Jodhpur (Pres.). *Address:* 42, Railway Road, Jodhpur.

DAVE, Shantilal Semanath, Post Diploma in Painting, Artist. *b.* Sept. 25, 1931; *Educ.:* Premier High School, Ahmedabad; Fine Arts Coll., Baroda; took post-diploma in painting, 1956. Awarded Lalitkala Akademi Prize, 1956, '57 and '58; Governor's Prize—Bombay Art Society, 1956, '58; 3rd major prize, S.E. Asian Art Exhibition at Manila, 1957 for paintings; Recipient of a cultural Scholarship of Govt. of India for 1957-59 to study under the

guidance of Prof. N. S. Bendre, Faculty of Fine Arts, M. S. Univ. *Recreations:* Music, Travelling. *Address:* Fine Arts College, Baroda.

DAYAL, Mr. Justice Bihambhar, B.A., LL.B., Judge, High Court of Judicature at Allahabad, since May 6, 1957. *b.* Sept. 14, 1910; *Educ.:* C. A. V. Int. Coll., Allahabad; St. John's Coll., Agra; Agra Coll., Agra; passed school final, 1926; Intermediate, 1928; B.A., 1930 and LL.B., 1932. Practised at Nainital and Allahabad, 1933-57, joined the High Court Bar, 1946. *Address:* 37, Thornhill Road, Allahabad.

DAYAL, H.E. Rajeshwar, M.A., I.C.S., Indian High Commissioner in Pakistan, since Nov. 1958. *b.* Aug. 12, 1909, at Naini Tal, U.P.; *Educ.:* Naini Tal; Allahabad and Oxford Univs.; M.A. in History; had a brilliant academic career. Entered I.C.S. by open competition, 1933; was Magistrate and Collector in U.P.; represented U.P. on first Govt. of India Foodgrains Policy Commission, 1943; Home Secy., U.P., 1946-48; was member, U.P. Police Reorganisation Commission; Counsellor/Minister, Embassy of India, Moscow, 1948; Charge d'Affaires, Aug. 1948-Sept. 1949; Special Commissioner to Govt. of India to organise relief work in Assam, 1950; Alternate Representative of India to Security Council with rank of Minister, 1950; handled several issues, including Suez Canal Question, Kashmir case, etc.; was Chairman, Cttee. of 12 on Disarmament; Indian Delegate to 5th, 6th, 7th and 8th Sessions of the U.N. General Assembly; Permanent Representative of India to the U.N., Jan. 1952-Sept. 1954; has negotiated on several occasions with Dr. Graham on the Kashmir Question; handled many important items such as the Question of Indians in South Africa, the Question of Racial Discrimination in South Africa, etc. in the U.N. General Assembly; was founder member, Asian-African group of countries; was one of its leading members; spoke extensively at public meetings of various organisations in the U.S.; and appeared frequently on the radio and television; Ambassador in Yugoslavia, 1954-58; Envoy Extra. & Min. Plenipot. to Rumania, Bulgaria, 1955-58; Indian Ambassador to Greece, Jan. to June 1958; Member of the U.N. Observation Group in Lebanon, 1958. *Recreations:* Riding, photography, hunting and painting. *Address:* C/o External Affairs Ministry, Govt. of India, New Delhi.

DE, Birendra, Artist. *b.* Oct. 8, 1926; *Educ.:* Studied up to Intermediate in Science; later at Calcutta Govt. Coll. of Arts and Crafts, 1944-49. Practised as free-lance artist; executed many commissioned portraits of distinguished people and mural decoration at convocation hall, Delhi Univ.; held several one-man shows; is now connected with art school, Delhi Polytechnic; participated in several exhibitions abroad, e.g. Salon De Mai, 1951, etc. *Recreations:* Angling, Music, Drama, Travelling. *Address:* C/o Art Deptt., Delhi Polytechnic, Delhi 6; *Residence:* 1, Ramkishore Road, Civil Lines, Delhi.

DE, Swahil Kumar, M.A., Premchand Roychand Scholar (Calcutta Univ.), D. Litt. (London Univ.), Hon. F.R.A.S. (England) (1954), Sarojini Gold Medalist for researches in Bengali (Calcutta Univ.), Professor, Jadavpur University; Member, Sanskrit Commission, Govt. of India. *b.* 1890; *Educ.:* Presidency Coll., Calcutta; School of Oriental Studies, London; under Prof. H. Jacobi at Bonn, Germany. Lecturer, Calcutta Univ. till 1922; Prof. and Head of the Dept. of Sanskrit, Dacca Univ., 1922-47; General Pres., All-India Oriental Conference, Bombay Session, 1949; Hon. Pres., Vangiya Sahitya Parishad, 1950; Professor of Sanskrit, Research Deptt., Sanskrit Coll., Calcutta, 1951-56. *Publications:* *Bengali Literature in the 19th century* (1919); *History of Sanskrit Poetics* (2 vols., 1923, 1925); *Early History of the Vaisnava Faith and Movement in Bengal* (1942); *History of Sanskrit Kavya Literature* (1947); Joint Editor of the BORI edition of the

Mahabharata, Poona (Udyoga (1940)), (Drona (1958)); *Bengali Proverbs* (1953) etc.; and more than one hundred articles and monographs in various Oriental Journals, European and Indian, etc. *Address:* 19-A, Chaudhuri Lane, Calcutta 4.

DEEN YAR JUNG BAHADUR, Nawab (Ali-uddin Ahmed), Chairman, Managing Committee, H.E.H. the Nizam's Private Estate. *b.* Sept. 26, 1893; *Educ.:* Nizam Coll., Hyderabad; underwent revenue training in the Districts of Madras Presidency. Entered service as Deputy Collector; served as Collector, Civil Judge, City Magistrate, Director, Ecclesiastical Deptt., Secy., Home Deptt., Commissioner of Police and Director-General of Police; first Indian in Hyderabad who was appointed as Director-General of City, District and Railway Police; after the Police Action, was taken in General Chaudhuri's Cabinet and was in-charge of Police and Revenue portfolios; Pres., All-India Dargah Cttee., Ajmer, 1941-44; worked on different Cttees as member; recipient of a title and three medals including the Asaf Ali Gold Medal in recognition of his meritorious services; Rt. Wor. Ruling Master of Lodge "Hyderabad", No 787 S.C. *Address:* Azis Bagh, Hyderabad (2)



DEHEJIA, Venial Tribhewandas, B.Sc., I.C.S., J.P. (Chairman, Bombay Port Trust, since June 1, 1959. *b.* July 23, 1904; *Educ.:* Wilson College, Bombay; Royal College of Science, London; awarded Prajti Thackersey Mulla prize for standing first in the University in B.Sc.; Dakshina Fellow, Wilson Coll. Joined the Indian Civil Service, 1931; was Collector of Ahmednagar, Jacobabad, Kalra, Dharwar and Poona; reorganised Excise Administration in Sind; served in the Central Secretariat and in Sind and Bombay Secretariats; was Chief Secretary, Sind and Saurashtra; Secretary in Charge of Organisation and Methods and State Reorganisation; member, Sales Tax Enquiry Cttee.; Chairman: New India Co-operative Housing Society; Secretariat Gymkhana; Special Commissioner, Baroda; Secy.: Home Department, Bombay, 1947-52; Finance Deptt., 1952-56, Special Secy., Political & Services Deptt., 1956-58 and again till May 1959. *Clubs:* Willingdon; W.I.A.A. (Club); Cricket Club, Bombay. *Recreations:* Tennis and Chess. *Address:* North End, Carmichael Road, Bombay 28.

DEKA, Mr. Justice Holiram, M.A., LL.B. (Calcutta), Judge, Assam High Court, since June 5, 1951. *b.* June, 1901; *Educ.:* Passed with honours in Mathematics from Cotton Coll., Gauhati, Assam, 1922; M.A. in Modern Languages from Calcutta Univ., 1925; B.L., Cal. Univ., 1926. Enrolled as Pleader, Gauhati Bar, 1927, and as Advocate (Calcutta High Court), 1931; Member, Revenue Tribunal, Assam, 1946-48; Registrar, Assam High Court, 1948-49; District and Sessions Judge, 1949-51; is a writer, critic and essayist. *Publications:* Short stories, essays and an epistolary novel, in Assamese. *Recreation:* Literary works. *Address:* Gauhati.

DEO, H. H. Maharaja Rajendra Narayan Singh, K.C.I.E., Minister for Finance and Industry, Govt. of Orissa since May 22, 1959. *b.* March 31, 1912; *Educ.:* Mayo Coll., Ajmer; St. Columba's Coll., Hazaribagh. Ruler of Patna State, 1933-47; was one of the first Rulers to sign the Merger Agreement; member, Chamber of Princes; Vice-Pres., Council of Rulers of E.S.A. and Chairman, Eastern States Board of Forestry and Agriculture; member, Eastern States Post-War Reconstruction Cttee., and Standing Cttee. of Eastern States Union; Chief Patron, 5th All-India Cultural Unity Conference; Patron of several cultural, literary and research societies; as a Ruler provided improved social amenities,

removed untouchability and bar on temple entry, established Colleges and Schools; Member, Lok Sabha, 1952-57; Pres., Ganadatra Parishad, 1950-52 and 1956-57; Utkal Sammilani, 1953-57; Leader of the Opposition, Orissa Leg. Assembly till May 1959. *Address*: Sallashree Palace, P.O. Bolangir (Orissa); 80, Sarojini Naidu Marg, Lucknow; Bhubaneswar, Orissa.

DEO, Rama Chandra Mardaraj, M.L.A., Rajah Bahadur of Khalikote, Ex-Minister for River Valley Development, New Capital Administration, Vigilance, Administrative Tribunal and Bourkela matters, Orissa. b. Jan. 1900, at Rambha (Ganjam Dt.); *Educ.*: completed B.A. course, Madras Christian Coll. Estate handed to him on becoming a major, 1921; nominated by the Madras Govt. as Pres., Dist. Board, Ganjam, 1922; elected after the first term of 3 years; elected unopposed as Pres. for four more terms; member, Madras Leg. Council, 1923-26; was a delegate to the Third Round Table Conference in London, 1932; took a prominent part in the deliberations regarding Indian Constitutional Reforms; was largely responsible for the declaration by His Majesty's Government that Orissa shall be created a separate Province; was member, Orissa Leg. Assembly, till 1945; was member, representing Orissa, National Defence Council during the war; Officer, Indian Territorial Force, 1925-30; member, Indian Central Assembly, 1945-50; served in the Indian Finance Ctee. and several other Ctees.; elected M.L.A., Orissa, in the 1952 General Elections; member, Orissa Estimates Ctee.; unanimously elected by the Orissa State Assembly as member, Eastern Railway Consultative Ctee.; elected again M.L.A., Orissa in the 1957 General Elections on Congress ticket defeating a P.-S.P. leader by a big majority; is a keen sportsman and a good rider; knows many languages and talks fluently Tamil and Telugu. *Address*: Bhubaneswar, Orissa.

DESI, Chandulal Chandulal, B.A. (Cantab.), C.I.E. (1945), I.C.S. (Retd.), Ex-High Commissioner for India in Pakistan. b. April 27, 1900; *Educ.*: Nadiad High School; Elphinstone Coll., Bombay; Cambridge Univ. Joined the I.C.S., 1923; was posted as Asstt. Commr., C.P. and Berar; for some time was Under-Secy. to Govt.; became Dy. Commr., Buldana District, 1927; transferred to the Government of India as Deputy Director-General of Supply, 1942; Controller-General of Civil Supplies, 1943-45; was member-secy. of the Indian Tariff Board and later its Chairman, 1945-47; was Addl. Secy., Govt. of India, Ministry of States, 1947-48; visited Australia as leader of the Indian Delegation for the ECAFE, also Geneva as leader of the Indian Delegation to the Conference of General Agreement on Tariffs and Trade, 1948; Secy., Ministry of Commerce, Feb. 1948-Jan. 1951; Secy., Ministry of Works, Housing and Supply and Ministry of Production, 1951-53; Leader of the Indian Delegation to negotiate various trade treaties with Pakistan, Afghanistan, Switzerland, Hungary, Czechoslovakia, Australia and Ceylon, 1948-51; Leader of the Indian Steel Delegation to England and U.S.A. to negotiate loans for the Indian Govt. schemes for the expansion of steel industry in India; High Commissioner for India in Ceylon, March 1953-54; High Commissioner in Pakistan, 1955-58. *Publications*: *A Compilation on Nepal*. *Address*: C/o Grindley's Bank Ltd., Bombay.

DESI, Dajiba Balavantrao, B.A. (Hons.), LL.B., General Secretary, Peasants and Workers Party, since 1955; *Educ.*: Primary Education at Gunji, Nanadi and Uchgaon; secondary education at Maratha Mandal's High School and Gliginchi Artal High School, Belgum; Lingara Coll., Belgum; Rajaram Coll., Kolhapur; Raja Lakshmagunda Law Coll., Belgum. Has been a political and social worker; at the secondary education stage began conducting adult education night classes in villages; a prominent worker in

Kurundwad Senior State Rayat Sabha; Secy., Action Ctee., Deccan States, 1946-47; was a Congress worker in the State; joined Peasants and Workers Party, 1948; member: Central Ctee. of P. & W. Party, since inception; Political Ctee. of P. & W. Party; elected General Secy., P. & W. Party in Latur Conference, 1955; detained in prison, April 1956; released, Oct. 1956; member: Secretariat of Samyukta Maharashtra Central Ctee.; Parliamentary Board and Policy Ctee.; Action Ctee. of Maharashtra Shikaram Samiti, Belgum; Secretary, Border Action Ctee. *Publications*: Marathi: *Jamni Konachi!* *Kasli Tyachi Ki Vakt Ghanyaschi*. *Address*: 3360/6, College Road, Belgum.

DESI, Deulatao Shripatrao, B.A., LL.B., Pleader, Minister, Public Works Deptt., Govt. of Bombay, since 1957; b. March 17, 1910, at Marali near Patan, Dist. North Satara; *Educ.*: Rajaram High School, Rajaram Coll. and Sykes Law Coll., Kolhapur. Commenced practice at Karad and Patan, 1939; twice elected Pres., Rural Development Board, Taluka Patan, 1940; Pres., Dist. Local Board, Satara, 1941-52; member: Provincial Commodity Board since its foundation; Provincial Education Board; Provincial Physical Education Board; Soldiers', Sailors', and Airmen's Board, Satara (N); Maharashtra Pradesh Social Education Board; Bombay State Road Transport Corporation, 1955-57; Pres., Central Advisory Ctee. of Regulated Markets in Maharashtra; Gen. Secy., P.C.C., 1952-57; Chief Whip, Congress Leg. Party; elected M.L.A., Bombay from Patan Constituency, 1952 and 1957. *Address*: "Meghdut", Narayan Dabholkar Road, Bombay 6.

DESI, Hitenra Kanayyalal, B.A., LL.B., Minister for Education, Bombay State. b. Aug. 9, 1915, at Surat; *Educ.*: Surat and Bombay; while at school, left studies for a year and joined the C. D. Movement, 1930; took leading part in debates, sports and other students' activities; graduated in 1937 with highest number of marks in Econ. Hons. at the Bombay Univ. and obtained "Cobden Club Medal"; was Fellow for a year; passed LL.B., 1939. Started practising law and made a mark in legal profession; courted jail during freedom movement; elected member, Surat Borough Municipality, 1946; Chairman: Law Ctee., 1946-49; Standing Ctee. since 1949; Vice-Pres. and Chairman, Standing Ctee., since 1952; member, Senate, Gujarat Univ. and Rural Advisory Ctee. of All India Radio; associated with several other institutions, takes active interest in the students movement and has worked hard in the social sphere; M.L.A., Bombay from the Mangrol Constituency in the 1957 general elections. *Publications*: Several popular booklets on political, economic and social topics. *Address*: Sachivalaya, Bombay.

DESI, Mr. Justice Kantilal Thakordas, B.A. (Hons.), LL.B., Judge, High Court, Bombay since Jan. 1957. b. May 23, 1903; *Educ.*: New High School, Bombay; St. Xavier's High School, Bombay; Elphinstone Coll., Bombay; Wilson Coll., Bombay; Govt. Law Coll., Bombay; passed the Articled Clerks Examination, 1928; passed the Advocate (O.S.) Exam. 1930. Practised as an Advocate on the Original Side of the Bombay High Court, 1930-56. *Club*: Willingdon Sports Club, Bombay. *Address*: "Kylstone", 8-B, Carmichael Road, Bombay 29.

DESI, Mr. Justice Kapil Kalyandas, B.A., LL.B., Judge, High Court, Bombay, since Aug. 18, 1958. b. Oct. 28, 1910; *Educ.*: Gurukul (Boarding School); B.A. from Elphinstone Coll., Bombay, 1932; LL.B. from Govt. Law Coll., Bombay, 1934; awarded Arnold scholarship, Judge Spencer's prize and several other scholarships. Commenced practising on the original side, High Court, Jan. 19, 1938; had lucrative practice. *Recreations*: Squash Rackets, Golf. *Clubs*: Willingdon Sports Club; Cricket Club of India. *Address*: 56, Ridge Road, Malabar Hill, Bombay.

DESI, Khandabhai Kasmali, Snatak (Gujarat Vidyapith, Ahmedabad), M.P., Ex-Minister for Labour, Govt. of India. b. Oct. 23, 1908; *Educ.*: Bulsar Bai Avabai High School; Wilson Coll., Bombay; had a brilliant academic career. Joined the N. C. Movement, 1920; was for some time a teacher in the Gujarat Vidyapith; took up trade union work in right earnest; began as Asstt. Secy., Textile Labour Assoc., Ahmedabad; became its Gen. Secy.; established a net-work of unions throughout Gujarat and assisted the labour movement in Indore and other centres; elected M.L.A., Bombay, 1937; as member, Textile Labour Enquiry Ctee., assisted in the first legislation of Industrial Disputes in Bombay Assembly; elected to the Constituent Assembly, 1946; since then was an active M.P.; was Vice-Chairman, B.P.C.C.; member, A.I.C.C. and Congress Working Ctee. for several years; as M.P. served on various Ctees., such as Railway Grainshop Enquiry Ctee., D.A. Marger Ctee.; has been associated with numerous Ctees. in the Ministries of Commerce and Industry, Railway and Labour; was member, Fiscal Commission; was Dir., Industrial Finance Corp.; member, Employees State Insurance Corp.; led the workers' delegation to I.L.O., 1950; was mainly responsible for establishing the I.N.T.U.O., 1947; elected its first Gen. Secy.; was its Pres. successively for three years; attended the Asia Regional Conference of the I.L.O., Tokyo, 1954; visited China; is Chairman, Unifying Ctee. of all Pradesh Congress Ctees. for the bilingual State of Bombay. *Address*: Textile Labour Assoc., Gandhi Major Sevalaya, Bhadra, Ahmedabad.

DESI, Maganbhai Prabhudas, M.A., Vice-Chancellor, Gujarat Univ., since Dec. 1957. b. Oct. 11, 1896, at Nadiad; *Educ.*: Nadiad; Elphinstone Coll., Bombay; Gujarat Coll., Ahmedabad; B.A., 1921 and M.A., 1936. Joined Indian National Congress, 1921; Teacher, Satyagraha Ashram School, Sabarmati, 1924-28; has been with the Gujarat Vidyapith since 1928; Registrar, Gujarat Vidyapith, Ahmedabad; Principal, M. D. Coll. of Social Service; member: Navjivan Trust and Mahadeo Desai Memorial Trust; Senate and Syndicate, Gujarat Univ.; Board of Basic Education; Central Advisory Board for Libraries, Govt. of Bombay; Editorial Board, *Lokitan*; Editor: *Satishana* and *Sahitya*, Gujarati monthly; *Harjan*, English; writer and compiler of various books published by the Gujarat Vidyapith and the Navjivan; courted jail during the freedom movement. *Address*: Gujarat Vidyapith, Ahmedabad-14.

DESI, Manilal Jagdish, B.A., LL.B. (Bombay), C.I.E. (1946), I.C.S., Commonwealth Secretary, Ministry of External Affairs, since Dec. 12, 1955. b. January 4, 1904; *Educ.*: Gujarat College, Ahmedabad; Wilson College, Bombay; School of Economics, London. Asstt. Collector and Collector in Bombay State, 1928-35; Director of Land Records and Settlement Commissioner, 1936-38 and 1940-42; Deputy Secy., Revenue Deptt., Govt. of Bombay, 1938-39; Secy. to Govt. of Bombay, Revenue and Reconstruction Deptts., 1942-46; Establishment Officer to the Govt. of India and Principal, Indian Administrative Service Training School, 1947-48; one of the Advisers to the Indian Delegation to the U.N. at the 1948 Session in Paris; Commercial Adviser to the High Commissioner for India in London, 1948-51; Envoy Extraordinary and Minister Plenipotentiary for India in Sweden, Finland and Denmark, 1951-53; Commonwealth Secretary, Ministry of External Affairs, 1953; Acting High Commissioner for India in U.K., April to Aug. 1954; India's Representative and Chairman, International Commission for Supervision and Control in Viet Nam, 1954-55. *Recreations*: Tennis and Riding. *Clubs*: Delhi Gymkhana Ltd. and Cricket Club of India Ltd. *Address*: New Delhi.

DESAI, Mr. Justice Manohar Chaudhri, B.A. (Tripes) (Cantab.), Judge, High Court of Judicature, Allahabad, since Dec. 12, 1948. b. Feb. 25, 1904; *Educ.*: Govt. High School, Nadiad; Elphinstone Coll., Bombay; Baroda Coll., Baroda; Cambridge Univ.; Asst. and Jt. Magistrate, 1928-33; Collector and Dt. Magistrate, 1933-43; Dt. and Sessions Judge, 1943-48. *Recreations*: Golf, Bridge, Chess, Badminton. *Address*: 31, Thornhill Road, Allahabad.

DESAI, Morarji Ranchhodji, B.A., Minister for Finance, Govt. of India, since March 22, 1958. b. Feb. 29, 1896; *Educ.*: Bulsar, Surat Dist., Bombay; Wilson College, Bombay. Entered Provincial Civil Service of the Govt. of Bombay, 1918; resigned in 1930 to join the Civil Disobedience Movement launched by Mahatma Gandhi; was convicted for taking part in C. D. Movement during 1930-34; Secy., Gujarat Pradesh Congress Ctee., 1931-37 and again from 1939-46; Minister for Revenue, Co-operation, Agriculture and Forests, Bombay, 1937-39; convicted, 1940-41 and detained in prison, 1942-45; Minister for Home and Revenue, Bombay, 1946-52; Chief Minister of Bombay, 1952-56; Minister for Commerce and Industry, Govt. of India, 1956-58; member, All India Congress Ctee., since 1934; Treasurer, Indian National Congress, 1950-55; Hon. Fellow of the Coll. of Physicians and Surgeons, Bombay, 1956; Hon. Doctor of Laws, Karnatak Univ., 1957. Visited London, Washington, New York, Montreal, Aug. 28-Sept. 28 in connection with foreign loans for India. *Address*: 1, Willingdon Crescent, New Delhi.



DESAI, Mr. Justice Sandarbil Trifkmal, B.A., LL.B., Bar-at-Law, Judge, High Court, Bombay, since 1952. b. Jan. 26, 1901; *Educ.*: Elphinstone High School and Elphinstone Coll., Bombay. Practised in the Bombay High Court, 1927-52. *Publications*: *Law of Partnership*. *Recreation*: Golf. *Club*: Willingdon Club, Bombay. *Address*: 4-A, Mafatlal Park, Warden Road, Bombay.

DESEMUKE, Chintaman Dwarkanath, B.A. (Cantab.), Chairman, University Grants Commission, since Aug. 1956; Chairman, National Book Trust, since August 1957. b. Jan. 14, 1896; *Educ.*: Elphinstone Coll., Bombay and Jesus Coll., Cambridge, Natural Science Tripos, Part I, B.A., Cambridge in 1917. Entered the I.C.S., Nov. 1919; served in the C.P. & Berar as Asst. Commr., 1920-24; Under-Secy. to Govt., 1924-25; Dy. Commr. and Settlement Officer, 1928-30; Jt. Secy., 2nd R.T.O., 1931; Revenue Secy., C.P. Govt., 1932-33; Financial Secy., C.P. and Berar, 1933-39; Jt. Secy., Govt. of India, Dept. of Education, Health and Lands, May-July 1939; Officer on Special Duty, Finance Dept., Govt. of India and Custodian of Enemy Property, 1939; Secy. to the Central Board of the Reserve Bank of India, 1939-41; Dy. Governor, Reserve Bank of India, Dec. 1941-Aug. 1943; Governor, Reserve Bank of India, 1943-49; India's delegate to the World Monetary Conference, Bretton Woods, 1944; Governor for India on International Monetary Fund and International Bank for Reconstruction and Development, from 1946; Financial Representative of Govt. of India in Europe and America, 1949-50; Pres., Indian Statistical Institute, 1946; Chairman, Indian Public Schools Society, 1950; member, Planning Commn., March 1950; Chairman, International Monetary Fund and International Bank for Reconstruction and Development, Sept. 1950; M.P. and Minister of Finance, Govt. of India, June 1950-July 1954. *Address*: O/o Ministry of Education, Govt. of India, New Delhi.

DESEMUKE, Dr. Panjabrao S., M.A. (Hons.) (Edin.), D. Phil. (Oxon.), Barrister-at-Law, Minister of Agriculture, Government of India since Jan. 1, 1959. b. Dec. 1893; *Educ.*: Ferguson Coll., Poona; M.A. (Hons.), Edinburgh; Dunlop Research Scholar, 1923-26; called to the Bar, 1928. Life Pres., Shivaji Education Society, since 1937; member, P.C.C., 1947-48; re-elected 1950; member, M.P. Leg. Council, 1930-37; Minister (Education, P.W.D. and Agriculture), 1930-33; member, Ex-Cttee., Congress Parliamentary Party, 1950-51, 1952-53; member, Indian Constituent Assembly; elected Pres., All-India Federation of Backward Classes, since 1950; Chairman, State Trading Co., and Cotton Marketing Committee; elected Fellow, Royal Society of Arts of London; Pres., All-India Maratha Education Conference (30th session), 1953; Leader, Indian Delegation: F.A.O. Conference, Rome, 1953; F.A.O. Regional Conference on Co-operatives, Ceylon, 1954; International Rice Conference Commn., Tokyo, 1954; Pres., Farmers' Forum, India, 1955; elected Hon. Pres., IVth World Forestry Congress, Dehra Dun, 1954; visited Norway at the invitation of India-Foundet to study fisheries, June 1955; also visited other Western European countries; Leader, Indian delegation to study the activities of Soviet Co-operative Organization, 1956; elected Chairman, International Rice Commission, 1956; Minister for Agriculture, Government of India, 1952-57; Minister of Co-operation, Govt. of India, 1957-58. *Publications*: *Origin and Development of Religion in Vedic Literature*. *Address*: New Delhi.

DESEMUKE, Ramrao Madhavrao, M.A., LL.B. (Cantab.), Bar-at-Law, M.P., b. Nov. 25, 1892; *Educ.*: Graduated at Cambridge, 1916 and called to the Bar, 1916; Pres., Belgaum Maratha Conference, 1917; M.L.C., Nagpur Council, 1920-30 except for 1928; M.L.A., 1928; first elected Chairman, Amravati District Council, 1925; member, A.I.C.C., 1920-25; President, Maharashtra Conference, Satara, 1925; Minister, M.P., 1927-28; also member, A.I.C.C.; formed Second Nationalist Ministry in M.P., 1929; resigned Ministry, 1930; Pres., Democratic Swara Party Meeting, Bombay, 1933; member, Hindu Sabha Deputation to England and Deputation for separation of Berar, 1933; Adviser to Raja of Sandur, 1935-36; M.L.A. (M.P.), 1937, and Minister, Dr. Khar's Ministry; resigned with Dr. Khar, 1938; Political Minister, Dewas (Jr.) State and Secretary, C.I. and other States group, 1939-41; elected to Chamber of Princes Ministers' Ctee., 1941; Finance Minister, Gwalior Govt., 1941-44; member, National Defence Council, 1940-44; High Commissioner for India in South Africa, 1945-47; Member of Delegation to U.N.O. General Assembly, 1946; Prime Minister and Adviser to Raj Pramukh of Vidhya Pradesh, Rewa, 1947-48; resigned in July 1948; Dir., Reserve Bank of India, 1949-52; elected to the Rajya Sabha, 1952. *Address*: Mural Road, Amravati.

DESEMPANDE, Atmaram Rasaji, B.A. (Hons.), LL.B., Marathi Poet; Director, National Fundamental Education Centre, Ministry of Education since 1956. b. Sept. 11, 1901; *Educ.*: Hindu High School, Amravati; Ferguson Coll., Poona; took B.A. (Hons.), 1923 and LL.B., 1925. Lawyer (1925-28); Civil Judge & District & Sessions Judge (1929-47); Deputy Director of Public Instruction in Charge of Social Education, Nagpur (1948-52); Special Officer, Social Education Community Projects Administration (1952-56); UNESCO Fellowship (1956). *Publications*: Two collections of poems besides two other poems; several articles on Literary Criticism & Social Education. *Recreations*: Art, Archaeology & Literature. *Address*: Constitution House, Curzon Road, New Delhi; 88, West Park, Dhantoli, Nagpur 1.

DESEMPANDE, Vishnu Ghanashyam, M.A., Morris Memorial Fellow of Nagpur Univ. (1934-37), Sir Arthur Blenker Hassell Medallist (Nagpur Univ.), General Secretary, Hindu

Mahasabha. b. Nov. 17, 1912; *Educ.*: Sakherkherda, Mahkar, Khampson and Nagpur; took M.A. degree, 1934. Joined the Hindu Mahasabha, 1939; courted jail in Hyderabad Satyagraha; elected Gen. Secy.: M.P. Hindu Mahasabha, 1939; All-India Hindu Mahasabha, 1940; since then has devoted his life for Hindu Mahasabha; toured all over India for organising Hinduasabhas in different parts of the country; imprisoned several times in connection with his activities in the Hindu Mahasabha, 1939, '41, '42, '47, etc.; imprisoned 5 times during Jammu Movement, 1953; nominated member, Nagpur Univ. Board, 1944; was elected to the Lok Sabha from two constituencies, 1952; was the first M.P. to offer satyagraha in Goa; was imprisoned; participated in Samyuktha Maharashtra movement; led the first batch of Satyagrahis who offered satyagraha near Flora Fountain, Bombay, was the Chief Whip of the National Democratic Party in Lok Sabha; was Editor, *Adesh* and *Hindu Outlook*. *Address*: O/o Hindu Mahasabha Bhavan, Reading Road, New Delhi.

DEVI, Rami Padmawati, Minister for Public Health, Madhya Pradesh, since Nov. 1956. b. July 17, 1918, at Partabgarh, U.P.; *Educ.*: at home under an English and an Indian Governor. Keenly interested in social service; conducted at Khairagarh the Child Welfare Centre, the Red Cross Centre, the Padmawati Charitable Hospital and the Shivendras Sanskrit Pathashala; founded the Indira Sangit Vidyalaya at Khairagarh, 1944, now developed into a full-fledged Music Univ., the Indira Kala Sangit Vihva Vidyalaya; gifted her only residential palace, valued at Rs. 15 lakhs to the Indira Kala Sangit Vihva-vidyalaya, Khairagarh; one of the Founder Pro-Chancellors of the Music Univ.; member: Univ. Court, Sagar; M.P. Hindi Sahitya Sammelan; Governing Body, Lady Amritabai Daga Coll., Nagpur; Board of Governors, Seindia Education Society, Gwalior; Pres., Rashtra Bhasha Prachar Samiti of Madhya Pradesh Mahila Vibhag; has widely travelled in India was nominated the first Chairman, Jangad Sabha, Khairagarh; elected M.L.A. from Bori-Deokar Constituency, M.P., 1952; appointed Minister in the enlarged M.P. State, Nov. 1, 1956; returned uncontested from Birendranagar Constituency in the 1957 elections and continued as Minister. *Recreations*: Badminton, shooting, riding, photography. *Address*: Bhopal.

DEVI, Kumari Shaktantala, Arithmetical Prodigy. b. Nov. 4, 1930 at Bangalore; *Educ.*: Bangalore and Madras. Numbers fascinated her even at an early age; was an expert in arm-long numbers even in her fifth year; is able to work out the most complicated arithmetical manipulations with lightning rapidity and scientific precision; has displayed her remarkable talent to gatherings of distinguished people all over India and abroad; left India on a world tour, Aug. 1950; throughout her tour on the continent of Europe, in U.S.A., Canada, the West Indies and the continent of South America, she gave performances in schools, colleges, universities, radio, television and in night clubs with great success; went on a second world tour, 1958; covered Malaya, Burma, Thailand, Cambodia, South Viet Nam, North Borneo, Philippines, Japan, etc.; presented a Royal Command Performance for H.M. the King of Cambodia, June 1958; gave a performance in Philippines for the President H. E. Carlos Garcia; was described by newspapers all over the Western Hemisphere as a "Human Calculating Machine." *Recreations*: Music. *Address*: "Shanta Nivas", No. 29, 3rd Main Road, Narasimharaja Colony, Bangalore 4.



DEY, S. K., M.Sc. (Engineering) (Michigan), Minister for Community Development and Co-operation, Government of India, since Jan. 1, 1959. b. Sept. 13, 1906, at Medinimohal Village, Sylhet Dist.; *Educ.*: Zilla School, Rangpur; studied upto matriculation on scholarships; joined technical course at Rangpur; joined Bengal Engineering Coll.; took diploma; secured a scholarship from the Sylhet Assn. Private Trust and joined Purdue Univ.; took B.Sc. degree in electrical engineering; obtained his Master's Degree from Michigan Univ. Joined the General Electric X-Ray Corporation as an apprentice Engineer and was sent back to India to represent the firm in Lahore; rose to be the General Manager; relinquished, June 1947; Engineer, engaged in the work of rehabilitation of refugees, Nov. 1947-March 1952; member: Exec. United Council for Relief and Welfare, June 6, 1948-July 26, 1953; Central Board of Bharat Sewak Samaj, Aug. 1952-June 1956. *Special interests*: Psychology in human relations and applied sociology. *Recreations*: Witnessing dance and dramatic performance; Minister for Community Development, 1950-58. *Publications*: *The Quest*; *Fragments Across*; *Missing Link*, *Planning for Life*. *Address*: New Delhi.

DEIDDA, Siddha Raj, M.A. (Pol.), LL.B., Jt. Secy. and Trustee, All India Sarva Seva Sangh; Pres., Rajasthan Samagra Seva Sangh; Vice-Chairman, Rajasthan Sevak Sangh; President, Rajasthan Khadi Sangh. b. Feb., 1909; *Educ.*: Maharaja's College, Jaipur; Canning College, Lucknow Univ. and the Allahabad Univ. Secy., Indian Chamber of Commerce, Calcutta and various other Assocs. (1934-42); sometime Advocate, Mysore High Court, Bangalore; has been connected with various political, social and cultural organisations; was arrested at Banaras and detained (1943-45), 'Quit India' movement; Founder and Chief Editor, Daily Lokamat from Jaipur, 1946-49; General Secretary, Rajputana P.U.C., 1947-48; Joint Secretary, Reception Ctee., 55th Session of the Indian National Congress held at Jaipur (Gandhinagar), Dec. 1948; Minister for Industries and Commerce, Govt. of Rajasthan, 1949-51; resigned from Congress, Aug. 1951. *Publications*: Contributions to English, Hindi periodicals. *Address*: All India Sarva Seva Sangh, Golghar, Varanasi (U.P.).

DEANAPAL, S., Diploma (First Class) in Fine Arts, Painter; Instructor in Painting, School of Arts & Crafts, Madras. b. March 3, 1919; *Educ.*: School of Arts and Crafts, Madras. Artist and Sculptor; participated in several all India exhibitions and won distinctions and prizes; mentioned by P. B. Ramachandra Rao in his book *Modern Indian Painters*; Executive Ctee. Member, Progressive Painters' Assoc., Madras; commissioned by the Govt. of Madras for the preparation and supply of a sculpture of Philosopher Thiru Vika. In 1957; his sculpture of "Tollet" has been acquired by the National Gallery of Modern Art, New Delhi; his works have been acquired for display by National Arts Gallery, Madras and Jagan Mohan Palace, Mysore. *Address*: No. 13, 111, Trust Cross St., Mandavelipakkam, Madras 28.

DEARGALKAR, Lt. Gen. Krishna Purushottam, Master General, Ordnance, Army Headquarters, New Delhi, since Feb. 1959. b. Sept. 7, 1909; *Educ.*: St. Xavier's School and Coll., Bombay; Royal Military Coll., Sandhurst. (Commissioned into the Indian Army as 2nd Lieut., Jan. 1931; joined 3rd Cavalry, Jan. 1932 and saw active service in Malaya; returned to India after spending 2½ years as a prisoner of war, Oct. 1945; attended the Staff Coll course at Camberley, 1947; Commanded: Lorried Infantry Brigade, 1948-50; All Army Units in Hyderabad, 1950-51; 1 Armoured Brigade, 1951-53; Brig. Incharge Administration, Aug.-Oct. 1953; promoted Maj Gen; commanded Bombay Area, 1953-54; Alternate Chairman, International Commission for Supervision and Control in Viet Nam, 1954-55; underwent a course at the Imperial

Defence Coll., England, 1955-57; commanded 1 Armoured Division, 1957-Jan. 1959; promoted Lt. Col., Feb. 1959. *Recreations*: Cricket, Tennis, Polo, Golf, Shooting. *Clubs*: Free Forester Cricket Club; Cricket Club of India; Delhi Gymkhana Club. *Address*: Army Headquarters, New Delhi.

DEKHAR, Vekhrangrai Navalshanker, Ex-President, Indian National Congress: High Court Pleader. b. Sept. 21, 1905; *Educ.*: Rajkot and Bombay. Practised as a lawyer in the Court of Western India States Agency, Rajkot, 1929; abandoned practice for active Congress work, 1936; Secy., Kathiawar Political Conference, 1937-48; Secy., Gujarat Provincial Congress Ctee., 1947; imprisoned thrice for taking part in Rajkot Satyagraha, for nearly 6 months, 1938-39; for Individual Satyagraha for 6 months, 1941; in the Quit India movement, 1942-45; Chief Minister, Saurashtra, 1948-54; elected Pres., Indian National Congress for the 3rd term during the 63rd Session of Congress, Nov. 1957-Feb. 1959. *Address*: Harijan Colony, Kingsway, Delhi.

DELLON, Gardial Singh, B.A., LL.B., Speaker, Punjab Leg. Assembly. b. Aug. 6, 1914; *Educ.*: B.A. from Govt. Coll., Lahore, 1935; LL.B. from the Univ. Law Coll., Lahore in first division, 1937. Started legal practice, 1937; joined Congress, 1937; Pres.: Congress Elect on Tribunal, 1945-46; Dist. Congress Ctee., Amritsar, till 1952; G.O.C., Punjab Congress Seva Dal, 1951; member, Punjab P.C. Working Ctee. till 1953; Ctee. of Congress Leg. Party till 1954; Chairman, Congress Disciplinary Action and Regrets Ctee. (Punjab) till 1954; Leader, Amritsar Dist. Board Congress Party, 1949-54; member, Shiromani Gurdwara Parbandhak Ctee., 1946-55; Chairman, Market Ctee., Tarn Taran, 1949-54; Pres., Amritsar Journalists' Assoc., 1947-51; Managing Dir., National Nikhs Newspapers Ltd., 1948-51; Chief Editor: Daily Urdu, *Sher-i-Bharat*, 1948-51; Daily *Farman* (Punjab), 1947-50; member: Ex-Ctee., Punjab Journalists' Assoc. till 1952; Punjab State Press Advisory Ctee., 1948-51; elected Dy. Speaker, 1952; Speaker, 1954; re-elected Speaker, Nov. 1956 and after the General Elections, 1957. *Publications*: Articles and pamphlets on current economic and political problems. *Recreations*: Social Service, Travelling. *Club*: Rotary Club. *Address*: Speaker's House, Sector 2, Chandigarh.

DEIR, Ram Das, Diploma in Civil Engg. (Roorkee), M.I.E., I.S.E., Member, Committee on Floods and Chief Engineer (Floods), Central Water & Power Commission, Govt. of India. b. Dec. 29, 1908; *Educ.*: Took Diploma in Engg. from Thomason Engineering Coll., Roorkee, 1929; became M.I.E., 1950. Served the Government in Sind Province for 16 years and then in the Centre for 11 years; member: American Geo-Physical Union, 1952; UNESCO Panel of Consultants on Arid Zone, Hydrology and Hydro-Geology, 1951. *Publications*: Books: *Hydrological study of Tapi Valley, Part I (Rainfall Study)* (1948); *Hydrological Study of Tapi Valley, Part II (Runoff Study)* (1948); *The Feasibility of Snow Survey in the Himalayas* (1951); *Hydrological Data, its necessity and methods of Computation* (1954); *Papers: The Development of Arid Zones in India* (1951); *The Hydrology of the Rajasthan Desert* (1952); *The Betterment Levy* (1954). *Address*: 9, Raisina Road, New Delhi.

DIETMAR, Dr. Hellmuth, Doctor of Laws, Univ. of Cologne, Consul General of the Federal Republic of Germany. b. March 25, 1897; *Educ.*: Cleve, Rosenleben and Cologne. Entered the Foreign Service, 1927; served as Attache, Secretary of Legation, Counsellor of Legation, at Addis Ababa, Guatemala, Lisbon, Bombay, Liverpool. *Recreations*: Swimming, Riding. *Address*: 29, Wodehouse Road, Bombay 1.

DINKAR, Ramadhar Singh, B.A. (Patna), Padma Bhushan (1959), M.P. (Rajya Sabha), Hindi Poet. b. Sept. 29 1908; *Educ.*: Patna Coll.; took B.A., 1932. Headmaster of an H. E. School, 1933-34; Sub-Registrar, Govt.

of Bihar, 1934-43; Officer in the Publicity Department, 1943-50; Professor of Hindi, 1950-52; resigned Government service and elected to the Rajya Sabha on Congress ticket, 1952; awarded several prizes for work in poetry by the Govt. of India, Govt. of Uttar Pradesh and non-official bodies; represented Indian poetry on behalf of the Govt. of India in the International Conference of Poets in Poland, 1955; visited China at the invitation of the Writers' Union of China, Nov. 1957. *Publications*: 15 volumes of Hindi poems and 6 volumes of prose besides some books for children. Poetry: *Kurukshetra*; *Rashmi Rathi*; *Renuka*; *Hunkar*; *Raswanti*; *Neel Kusum*. Prose: *Sanskriti Ka Char Adhyay*; *Karya Ki Bhoomika*. *Address*: Udayachal, Aryakumar Road, Patna 4.

DIVAN, Gautam Ramanlal, leading Table Tennis Player. b. July 22, 1940; *Educ.*: St. Xavier's High School, Bombay; is now a student for Mr. B.Com., Sydenham Coll., Bombay. Bombay Junior No. 1 in Table Tennis, 1955; National Men's Singles Champion, 1950; Bombay No. 1 and National Champion in Table Tennis, 1957. *Recreations*: Table Tennis. *Clubs*: Students' Y.M.C.A.; Sydenham Coll. Gymkhana. *Address*: 22, Alexandra Road, Bombay-7.

DIWAKAR, Ranganath Ramachandra, M.A., Chairman, Gandhi Smarak Nidhi, since Sept. 1957; Ex-Governor of Bihar. b. Sept. 30, 1894 in Dharwar; *Educ.*: Belgaum, Hubli, Poona and Bombay. Was Teacher and Professor of English, Victoria High School, Dharwar, Rajaram College, Kolhapur, and K. B. Society's Arts College, Dharwar, 1916-20; joined Non-Co-operation Movement in 1921 and started 'Karamveer', a Kannada weekly at Dharwar; suffered imprisonment for sedition, 1921-23; was General Secy., Karnataka Provincial Congress Ctee. and Editor, 'Karamveer' upto 1930; Pres., Karnataka Provincial Congress Ctee., 1930-34; jailed for 6 months for breaking salt law in 1930; started and conducted No-Tax Campaign in Ankola, Sirsi and Siddapur Talukas in North Kanara Dist.; took active part in 1942 struggle; after being underground for 2 years, surrendered to the authorities, Aug. 1944 and was interned for about a year; started National Literature Publication Trust now known as People's Education Trust at Hubli, 1935 and took over 'Samyukta Karnataka', a Kannada daily from Belgaum; member, P.E.N.; author of numerous books (incl. translations) in Kannada, Hindi and English; was M.P.; was member, A.I.C.C.; Ex-Minister of State, Information and Broadcasting, Govt. of India, Dec. 1948-April 1952; Governor of Bihar, 1952-1957; Moir Trustee, P. E. Trust; Editor, *Samyukta Karnataka* (daily), *Kusuri* (monthly); Chairman, Gandhi Smarak Nidhi, Delhi since 1957. *Publications*: (Eng.) *Satyagraha, History and Technique*; *Glimpses of Gandhiji*; *Satyagraha in Action*; *Upanishads in Story and Dialogue*; *Satyagraha Pathway to Peace*; *Mahayogi*; *Paramahansa Sri Ramkrishna*, etc. *Address*: 2, Residency Road, Bangalore 1.

DIXIT, Mr. Justice Purushottama Vinayak, B.A. (Cantab.), B.Sc., Bar-at-Law, High Court Judge, Madhya Pradesh, since Nov. 1, 1956. b. March 19, 1907 at Nagpur; *Educ.*: Patwardhan High School, Nagpur; B.Sc., Nagpur Univ. in first division; Christ's College, Cambridge; called to the Bar, 1931. Practised at Nagpur bar for 10 years; Codification Officer, Gwalior State, 1940-41; Judge, Gwalior High Court, 1941-42; Law Secy. and Foreign and Political Secy., Gwalior, 1942-45; Gwalior High Court Judge, 1945-46; Adviser to the Foreign and Political Ministers, 1946-47; Chief Justice, Gwalior High Court, 1946-48; Judge, M.B. High Court, 1948-50; Pres., Bhatia's Incidents Enquiry Commission, 1949; presided over Gwalior Firing Enquiry, 1950; acted as Chief Justice. *Recreations*: Motoring; Astronomy and Astrology. *Clubs*: Jiwaji Club, Gwalior; Gondwana Club, Nagpur. *Address*: Indore.

DOCTOR, Bhicaji Edulji, F.I.A., F.R.I., B.A., M.R.S.H., Chartered Architect, b. December 1901; *Educ.*: Bombay, architectural course completed; Bombay Art Society's Medalist; England and Continent for advanced studies, 1929-34; specialised in intricate schemes. Was formerly practising at Bombay and Ahmedabad; now practising as B. E. Doctor at Bombay and New Delhi; visited England, France, Italy and Switzerland on professional tour in the middle of 1947; Chief Architect, Ashoka



Hotel, Chanakypuri Diplomatic Enclave, New Delhi; a Freemason, Lodge "Beaman," Royal Arch Chapter "Rising Star of W.I." Clubs: Radio Club, Willingdon Sports Club, Ripon Club, R.W.I.T. Club, Lions Club. *Address*: Office: "Dhannur," Sir Phirozshah Mehta Road, Fort, Bombay 1; *Residence*: "Ben Nevis," Warden Road, Bombay 26 and "Mon Cholist," Lonavla, Poona District.

DODD, Benjamin Bentley, B.A., A.C.I.S., Director, Gordon, Woodroffe & Co. (Madras) Private Ltd., since 1945. b. Aug. 17, 1907. *Educ.*: Kingswood School, Bath; Trinity Hall, Cambridge. Joined the staff of Gordon, Woodroffe & Co. (Madras) Private Ltd. as a covenant Assistant, 1929. Clubs: Madras Club; Adayar Club; Madras Cricket Club. *Address*: Madras Club, Madras.

DOGRA, Pandit Giridhari Lal, B.A., LL.B., Ex-Minister for Finance, Law & Civil Supplies, Jammu and Kashmir Govt., Ex-Chairman, Jammu and Kashmir Bank Ltd. b. July 1915; *Educ.*: Hindu Sabha Coll., Amritsar; Law Coll., Lahore. Joined Jammu Bar, 1942; Advocate, Jammu and Kashmir High Court; active political worker from student days; a member of the National Conference of Jammu and Kashmir's Working Committee for a number of years; took prominent part in the movements started by the National Conference from time to time for democratisation of the State; was Emergency Officer, Kathua Dist., during the Tribal raid from Pakistan into Kashmir in 1947; elected member, Jammu & Kashmir Constituent Assembly, 1951; Pres. Provincial National Conference, Jammu; Chairman, Dogra Art Gallery, Jammu; Chairman of the Drafting Committee of the Constituent Assembly of State; Advocate, Supreme Court of India; due to political differences with the Prime Minister of Kashmir, did not join the State Cabinet in 1957; member, Central Committee, Democratic National Conference. *Address*: Jammu.

DONGERKERY, Sandercoe Ramarao, B.A., LL.B., Vice-Chancellor, Marathwada University, since June 1958. b. Feb. 25, 1898; *Educ.*: St. Xavier's High School; Kiphinatone College & Govt. Law College, Bombay. Solicitor, Bombay High Court (1923-1930); elected Vice-Pres. and Chairman, Constitution Committee, International Universities Conference, at Nice, Dec. 4, 1950, and Hon. member, Administrative Board of International Universities Assoc.; member, Exec. Ctee., The Indian P.E.N.; appointed by the Govt. of Bombay as member, the S.S.C. Exam. Inquiry Ctee., 1949, the National College of Physical Education Ctee., 1952, the Marathwada Univ. Ctee., 1957; Registrar, Bombay Univ., 1951-56; Rector, Bombay University, Jan. 1956-July 1958. *Publications*: Commentaries on *The Indian Sale of Goods Act* (1930) and *The Indian Partnership Act* (2nd Ed., 1938); *The Ivory Tower* (book of lyrics in English); *Universities and Their Problems* (1948); *Bombay's University and Colleges* (1948); *Universities and National Life*; *Universities in Britain* (1953); *Thoughts on University Education* (1955); *Some Experiments in General Education* (1955); *History of the University of Bombay* (1957); National Introduction on "The Universities in India" in the Commonwealth Universities Year Book (1958). *Address*: Aurangabad.

DRAVID, Vyanktesh Vishnu, B.Sc., Minister for Labour, Housing, Rehabilitation and Chambal River Valley Project, Madhya Pradesh. b. Aug. 10, 1918; *Educ.*: Victoria Coll., Gwalior. After graduation, conducted research in the Plant Institute, Indore; later took part in the labour movement in Indore and worked in the labour field at Ahmedabad with Shri Gulzarilal Nanda; sent to jail for taking part in the Freedom Movement; on release was appointed Minister for Labour and Local Self-Govt. in Indore State; appointed Minister for Commerce, Industries and Labour, M.B., 1948; elected M.L.A., M.B., in the General Elections; later became Development and Labour Minister; attended the I.L.O. Conference at Geneva twice, first as a delegate and later as Leader of the Indian Delegation. *Recreation*: Reading. *Address*: Bhopal (Madhya Pradesh).

D'SOUZA, Rev. Jerome, S. J., B.A. (Hons.) in English Literature, Rector, Sacred Heart College, Shembaganur and ex-Director, Indian Institute of Social Order. b. Aug. 6, 1897; *Educ.*: St. Aloysius College, Mangalore; St. Joseph's College, Tiruchirappalli; Presidency College, Madras. Joined the Society of Jesus, May 28, 1921 at Shembaganur; completed his theological course at Engelen (Belgium); was Principal and Rector, St. Joseph's College and Loyola College; Member, Constituent Assembly, 1946-50; was a member of the Indian Delegation to the U.N.O., Sept. 1949, Nov. 1951, Sept. 1955 and Sept. 1957; visiting Professor of Fordham University, New York, Jan. to May 1950; member: Advisory Ctee., Bharat Sevak Samaj; Governing Board, Indian Council of Cultural Relations; U.N.O. Panel for International Arbitration, 1950; Asst. for India & Far East to Rev. Fr. General of the Society of Jesus, 1957. *Address*: Rector, Sacred Heart College, Shembaganur, Mouth India; Borgo S. Spirito 5, Rome.

DUBEY, Kunji Lal, B.A., LL.B., Speaker, M.P. Legislative Assembly; Ex-Vice-Chancellor, Jabalpur University. b. March 1897; *Educ.*: Jabalpur and Allahabad. Practised at the Jabalpur Bar; Professor of Law, at Jabalpur, 1935-40; Secy., Tripuri Session of the Indian National Congress; courted jail in individual satyagraha, detained in 1942 struggle; M.L.A. of Madhya Pradesh, 1946-52; re-elected M.L.A., 1952; Chief Parliamentary Secy., 1946; Chairman, Inter-University Board of India, 1950; Speaker, M.P. Assembly, 1952; Vice-Chancellor, Nagpur Univ., 1947-Jan. 1956. Delegate to the Seventh Quinquennial Congress of Commonwealth Universities held at Cambridge, 1953; Representative of Inter-University Board of India at the meeting of the Executive Council of the Association of Universities of the British Commonwealth at Kingston, Ontario (Canada), 1954; re-elected Speaker, M.P. Vidhan Sabha, 1957; appointed first Vice-Chancellor, Jabalpur Univ., June 1957. *Address*: Legislative Assembly, Bhopal.

DUDEHORIA, Nabakumar Sing. b. 1904; *Educ.*: Privately. Non Magistrate; Director, Sri Durga Cotton Mill Ltd., Calcutta; member, Legislative Assembly—Central—1930-34; member: British Indian Assoc.; Bengal National Chamber of Commerce; Bengal Landholders' Assoc.; Indian Chamber of Commerce; Kalighat Sports Assoc.; Patron, Bengal Music Association. Clubs: Calcutta Club; Royal Calcutta Turf Club; Bengal Flying Club; Life Member, All-India Fine Arts and Crafts Society, Royal Asiatic Society of Bengal, Automobile Association of Bengal and Mohan Bagan Club, Calcutta; Vice-President and Life Member, Calcutta North Club. *Address*: Asimganj, Murshidabad.



DULEPSINGHI, Maharaj Shri, B.A. (Cantab.), International Cricketer; Chairman, Public Service Commission, Bombay State, since June 13, 1958. b. June 13, 1905; *Educ.*: Cheltenham Coll. and Clare, Cambridge. Racquet Blue, Cambridge; Captained Sussex Team, 1911-32; played test matches against Australia, South Africa and New Zealand; has travelled extensively in Europe, U.S.A., Australia and New Zealand; served in various administrative capacities in Nawanagar State (India); High Commissioner for India in Australia and New Zealand; was Chairman, Mairashtra Public Service Commission; member, Public Service Commission, Bombay State, 1956-1958. Clubs: Union Club, Brighton; M.C.C., London; Hony. Life Member, Sussex County Cricket Club. *Address*: Public Service Commission, Bombay 1.

DUMONT, Henri, Cmt de Guerre (1939-45), Chevalier de l'Etoile Noire, Consul General for France in Bombay, since 1957. b. Oct. 5, 1923; *Educ.*: Ecole St. Martin Pontoise; Faculty of Law, Paris; School of Political Sciences, Paris; Licence en Droit; Diploma of the Political Sciences School (Paris). Vice-Consul at Shanghai, 1945-48, Secy., Istanbul, 1949-50; Secy., New Delhi, 1950-55; Secy., Buenos Ayres, 1955-56. *Recreations*: Equitation, Hunting, Tennis, Nature study. Clubs: R.A.F. Assn. of Shanghai; Delhi Gymkhana; Meerut Tent Club; Bombay Gymkhana; Bombay Natural History Society. *Address*: "Usha Kiran", 15 Carmichael Road, Cumballa Hill, Bombay.

DUNGARPUR: His Highness Rai-I-Rayan Mahamahendra, Maharajadhiraj Maharajwalsir Sir Lakshman Singh Bahadur, G.C.I.E. (1947), K.C.S.I. (1955), the Maharawal of, b. March 7, 1904, of the Gehlot Ahara clan of the Misedia Rajputs and the eldest branch of the House of Udalur; Heir Apparent Maharaj Kumar Shri Mahipal Singh Bahadur, b. on August 14, 1931; *Educ.*: Mayo College, Ajmer. Succeeded to the gadi, November 15, 1918; was invested with full ruling powers, Feb. 16, 1928; introduced many reforms resulting in prosperity of the State and its people; is entitled to a salute of 15 guns; member, Standing Ctee. of the Chamber of Princes continuously from 1931-47 when it was wound up; was one of the selected Princes chosen by his order to meet the Cabinet Mission, 1946; represented the Indian States on the Negotiating Ctee.; appointed by the Chamber of Princes to negotiate the States' entry into the Constituent Assembly; has been Vice-President of Mayo College General Council more than once, Patron & President, Rajputana Cricket Assoc.; has captained Rajputana XI against the M.C.C. and Australian XI on four occasions; Patron, Cricket Club of India; member, M.C.C. is a keen naturalist and is interested in agriculture and study of wild life; after acceding to the Indian Dominion in August 1947, the State, with an area of 1,460 sq. miles, a population of 274,282 and a revenue of Rs. 28½ lakhs, was integrated in the United State of Rajasthan which was formed on April 1, 1949; elected to the Rajya Sabha in the General Elections, May 1952. *Address*: Dungarpur.



DUTT, Subimal, B.Sc. (with First Class Honours in Chemistry), Foreign Secretary, External Affairs Ministry, Govt. of India, since Oct. 12, 1955. b. March 13, 1905; *Educ.*: Presidency Coll., Calcutta; University Coll., London. Joined Indian Civil Service, 1928; served as Asst. Magistrate, Joint Magistrate and Collector, Addl. Dt. and Sessions Judge, and Magistrate-Collector in Bengal till 1938; Under-Secretary and later

Deputy Secretary to Govt. of India, Dept. of Education, Health and Lands, 1938-41; Agent to Govt. of India in Malaya, 1941; Dy. Secy. to Govt. of Bengal, Commissioner of Commercial Taxes, Bengal and Secy. to Govt. of Bengal in the Agricultural Dept. till 1947; confirmed as Dt. Magis. and Collr., Bengal Govt.; Secretary to Govt. of India, Commonwealth Relations Ministry from Aug. 1947; Secretary, External Affairs Ministry, Govt. of India, 1950-52; Indian Ambassador to the Federal Republic of Germany (West Germany), 1952-54; Commonwealth Secy., External Affairs Ministry, 1954-55. *Recreations:* Gardening and Golf. *Club:* Delhi Gymkhana Club. *Address:* New Delhi.

DWARAKA: His Holiness the Jagadguru Shankaracharya Swami Shri Abhinava Satchidananda Teerthaji Maharaj of Sharada Peeth, of. Is an outstanding Hindu spiritual leader in western India. b. Sept. 25, 1919, at Mulbagalu, Mysore State; *Educ.:* Studied Sanskrit and sacred lore. Took holy orders from His Holiness Jagadguru Swami Shri Krishnanand Teerthaji, the Acharya of the Dwarka Jagadguru Samasthanam, Mulbagalu, 1934; installed at Dwarka on the holy seat of Shri Shankaracharya of western India, June 20, 1945; is a scholar and linguist; knows English and seven other languages and usually keeps moving about the whole of India delivering sermons on Hindu Religion and Philosophy; recently visited the Himalayan high peaks 'Yamunotri, Gangotri, Kedarnath, Badrinath, Amarnath, etc. and Nepal'; went on a difficult pilgrimage to Holy Mount Kailas and sacred lake Mansarovar in Tibet, Aug. 1958; takes keen interest in and works hard for the cultural and spiritual uplift of India; *Pres.:* All-India Dharma Sangh Conference, Dhruba (Bihar), 1946; Patna, 1949; Kanpur, 1951; Allahabad, 1954; Kanpur, 1957; is still *Pres.:* founded Mahagujarat Sanskrit Sammelan; is its permanent *Pres.;* recognised by the Govt. as the Shankaracharya of Dwarka and a Primat of Hinduism; looked on as a sort of spiritual guide by several Indian leaders and Princes. *Publications:* Several books in Gujarati, Kannada, Sanskrit and Hindi; "Nav-Bharat" a Gujarati monthly is being published under his patronage from Rajkot; pamphlet on a scheme of University with religious foundation; several coloured films have been prepared about his activities; The "Jagadgurus" small Sanskrit epic describes all his Yatras in Bharat; established 1,331 Shrivings and 1,200 Shaligrams at Dwarka, June 1957; The President, Dr. Rajendra Prasad visited him at Faroda, Sept. 30, 1957; spoke at the P.E.N. All India Writers' Conference at Baroda, Sept. 30, 1957; the Vice-President Dr. Radhakrishnan and Prime Minister Jawaharlal Nehru visited him at Baroda, Oct. 26, 1957. *Address:* Dwarka (W. Riv.).



DWIVEDI, Surendranath, M.P. (Lok Sabha), Deputy Chairman, P.S.P., since 1958. b. Feb. 11, 1913; *Educ.:* while in Indian prisons. Joined C. D. movement and the Congress, 1930; since then whole-time public worker; spent 7 years in jail, the last being in 1942 August movement as the main organiser of August movement in Orissa; Foundation member, Congress Socialist Party, 1934; elected one of the Joint Secys. of the Utkal Peasants' Organisation; a working journalist, 1934-42; Founder of Oriya weekly "Krihak", 1938; was its editor for several years; elected Secy., Cuttack Dist. Congress Ctee., 1940; member, A.I.C.C. 1940-48; General Secy., Utkal P.C.C., 1946-47; resigned on account of differences with Congress Ministry; resigned primary membership of the Congress, 1948; elected member, National Exec., Socialist Party, 1947; re-elected every year as member,

National Exec., P.S.P.; was Provincial Secy. and Chairman, Utkal P.S.P. and S.P. for a number of years; member, Rajya Sabha, 1952-56; elected member, Lok Sabha, 1957; Delegate, Asian Socialist Conference, Rangoon, 1953 and Bombay, 1956; *Publications:* Oriya translations of Mr. Nehru's Autobiography and Glimpses of World History; other Oriya publications: *National Movement in India; Asia on the Path of Socialism, etc. Recreations:* Gardening. *Address:* Telengalasar, Cuttack 1, Orissa; 21, Canning Lane, New Delhi.

ELWIN, Vladimir, M.A., D.Sc. (Oxon.), b. Aug. 29, 1902; *Educ.:* Merton College, Oxford. Vice-Principal, Wylliffe Hall, 1926 and Lecturer at Merton, 1927; came to India in 1927 in Christa Seva Sangh, but after four years retired into lay life and with Mr. Shamrao Hivale, founded the Bhumijan Seva Mandal, for the service of the aboriginals on a scientific and humanitarian basis; the Mandal is now called the Tribal Welfare and Research Unit; appointed Hon. Ethnographer, Bastar, 1940; Anthropologist, Govt. of Orissa, 1945; Deputy-Director, Deptt. of Anthropology, 1946-49; Adviser for Tribal Affairs, N. E. F. A., 1954; F.R.A.I., F.N.I., F.A.S. Editor, *Man in India*, 1942-48; awarded the Wellcome Medal, 1942, the Roy Medal, 1945, B.B.R.A.S. Silver Medal, 1947, Rivers Medal, 1948, Annandale Medal, 1951. Adviser for Tribal Affairs, N. E. F. A. *Publications:* *The Dawn of Indian Freedom* (1930), *Mahatma Gandhi* (1931), *The Truth about India* (1932), *The Baiga* (1939), *The Agaria* (1942), *Maria Murder & Suicide* (1943), *Folk-Tales of Mahakoshal* (1944), *Folk-Songs of the Malkal Hills* (1944), *Folk-Songs of Chhattisgarh* (1946), *The Muria and their Ghoul* (1947), *Myths of Middle India* (1949), *Bondo Highlander* (1950), *The Tribal Art of Middle India* (1951), *Tribal Myths of Orissa* (1953), *Malley* (1954), *The Religion of an Indian Tribe* (1955), *A Philosophy for NEFA* (1956), *Myths of the N. E. Frontier* (1956). *Address:* Sridham, Nongthmal, Shillong.

ENGINEER, Air Marshal Aspy Marwan, D.F.C., Distinguished Flying Cross (1942), General Manager and Managing Director, Hindustan Aircraft (Private) Ltd., since May 28, 1958. b. Dec. 15, 1912; *Educ.:* D. J. Hind Coll., Karachi; R.A.F. Coll., Cranwell, England; passed R.A.F. Staff College, Bracknell, England; graduate of Imperial Defence College, London. Won Aga Khan Prize being first Indian to fly between England and India within one month, 1930; awarded Groves Memorial Flying Prize at Cranwell (1933); Deputy Chief of Air Staff, Indian Air Force, till May 1958; promoted Air Marshal, June 1959. *Recreations:* Fishing; Shooting. *Club:* Delhi Gymkhana Club, Delhi. *Address:* Hindustan Aircraft P.O., Bangalore District.

ENGINEER, Sir Noohirwan Phiroze, Kt. (1945), B.A., LL.B., Ex-Advocate-General of India. b. Jan. 22, 1884; *Educ.:* Elphinstone College. Additional Judge, Bombay High Court from 1936 to 1938; Advocate-General, Bombay, Sept. 1942 to March 1945; Advocate-General of India, April 1945 to Jan. 25, 1950. *Address:* 16, Nepean Road, Bombay 6.

ERUAH, H.E. Mr. John Begole, has been High Commissioner for Ghana in India. b. Jan. 14, 1914, at Taklita; *Educ.:* Roman Catholic School, Half Assini, 1922-31; St. Augustine's Coll., Cape Coast, 1934-39; London Inter Arts, by private study, 1948. Teacher, St. Augustine's Coll., Cape Coast, 1940-49; Headmaster, Roman Catholic School, (Elementary) Beyin, Jan.-Sept. 1950; Headmaster, Ghana National School (Secondary), Esiam, Oct. 1950-Feb. 1951; voted into the Leg. Assembly, Feb. 1951; appointed Ministerial Secy. to the Minister of Education, March 1951; after the 1954 General Elections, appointed to the same post as Chairman, Eruah Ctee., submitted the Eruah Report on the salaries and conditions of service of non-Govt. teachers, 1952; Chairman, Advisory

Ctee. on: Social Welfare, 1951-56; Mass Education and Community Devpt., 1951-56; Africanisation; member, Central Advisory Ctee. on Education, 1951-56; Univ. Coll. Council, 1953-56; appointed Minister of Education after the 1956 General Elections, Minister without Portfolio, May-November 1957; High Commissioner for Ghana in India, Dec. 1957. *Address:* New Delhi.

FELSHAW, Mr. Justice Donald, B.A., I.C.S., Judge, Punjab High Court. b. January 22, 1905; *Educ.:* Lancaster Royal Grammar School and Sidney Sussex College, Cambridge. Entered I.C.S., 1927; came to India, 1928, District and Sessions Judge in various places from 1933; Lahore, 1939-43; Delhi, 1943-46; appointed Acting Judge, Lahore High Court, Feb. 1946; Additional Judge, Dec. 1946; Addl. Judge, East Punjab High Court, Aug. 1947-June 1949; Punes Judge. *Recreation:* Golf. *Address:* Chandigarh.

FEUER, Right Rev. Dr. R., B.A., D.D., Bishop of Mysore. b. 24th Sept. 1896; *Educ.:* in Paris. Rector, St. Mary's Seminary, Bangalore, 1927-31; Vicar, St. Philomena's Church, Mysore, 1931-41; Nominated Bishop of Mysore, 3rd April 1941. *Publications:* Ed., *St. Philomena's Messenger*, 1932-41. *Address:* Bishop's House, Mysore.

FYKE, Asaf Ali-Agha, B.A., LL.B. (Bom.), M.A. (Cantab.), First class honours, Oriental Languages, Tripos, 1924 (P.T.I.), and 1925 (P.T.II), of the Middle Temple, Barrister-at-Law, Vice-Chancellor, Jammu and Kashmir University, Srinagar. b. April 10, 1899; *Educ.:* St. Xavier's Coll., Bombay, St. John's Coll., Cambridge, England. Hon. Secy., Islamic Research Assoc.; *Pres.:* Anjuman Taraqqi-Urdu; *Pres.:* Bombay Cricket Assoc.; Principal, Govt. Law College, Bombay, 1938-47; Member, Public Service Commission, Bombay, 1947-49; Past President, Rotary Club, Bombay, 1947-48; Indian Ambassador to Egypt, 1949-51; Member, U.P.S.C., 1952-57; visiting Prof. at Institute of Islamic Studies, McGill Univ., Canada, Sept. 1958-Jan. 1959. *Publications:* *Introduction to Muhammadan Law* (Oxford, 1931), *Islamic Law of Wills* (Oxford, 1933), *Islamic Culture* (1944); *Outlines of Muhammadan Law* (Oxford, 1949; 2nd ed., (1954), *Pillars of Islam* (Cairo), and about 50 papers of a technical character on Law and Islamic subjects. *Address:* Srinagar.

GADE, Hari Ambadas, B.Sc., B.T., G.D.Art, A.M., Painter. b. Aug. 15, 1917; *Educ.:* Nagpur and Bombay. Held several one man's exhibitions in important art centres. Went on a study tour in European countries, 1956-56; represented in public and private collections in India and abroad. *Clubs:* Artists Club, Bombay. *Address:* D-139, Chembur, Bombay 38; Central Institute of Education, Delhi 8.

GADOL, Gangadhar Gopal, M.A., Marathi Writer; Lecturer in Economics, Sydenham Coll., Bombay. b. Aug. 25, 1923; *Educ.:* Bombay Univ., did courses in literature and creative writing at Harvard and Stanford Univs. under Rockefeller Foundation Fellowship, 1957. Responsible for creating a new style in short story writing; awarded first prize in the Marathi short story competition held under the auspices of the *New York Herald Tribune*; awarded second prize for his book *Talantalen Chandans* by the Bombay Govt. for collections of short stories, 1956. *Publications:* Plays: *Vedyanaka Oshkon*; *Panch Natika*; Novel: *Lilochha Phool*; Travelogue: *Gopuranaka Pradashat*; Collections of short stories: *Kedoo and Goo*; *Talantalen Chandans*; *Bendoo* and ten others. has written three books for children; his stories have been translated into English, Italian, Hindi, Gujarati and other Indian languages; his talks and plays have been broadcast by A.I.R. *Address:* A4, Hirji Govindji Building, New Nagpada Road, Bombay 8.

GADGIL, N. V., Governor of Punjab, since Sept. 1958. b. 1896, in Rajasthan; *Educ.*: Neemuch, Baroda and Poona; graduated in 1918 with Honours in Economics and Politics; LL.B. from the Govt. Law College, Bombay. Joined Poona Bar; was Secy., District Congress Ctee., Poona and of Maharashtra Provincial Congress Ctee.; Pres., Maharashtra Provincial Congress Ctee.; member, A.I.C.C.; Vice-Pres., Poona Municipality; imprisoned several times in connection with Satyagraha; intimately associated with Youth Movement in Bombay State; was elected to the Central Assembly, 1934; acted as Whip and Secy., Congress Party till he became Minister in the Central Cabinet; Minister for Works, Mines and Power, Aug. 1947-May 1952; Minister for Works, Production and Supply; Vice-Chairman, Board of Directors, State Bank of India. *Publications*: Has written books both in Marathi and English on Economics, Finance and Politics. *Address*: 419, Nharvar Peth, Poona 2; Raj Bhavan, Chandigarh.



GAEKWAD OF BARODA: Capt. His Highness Maharaja Fatehshah, Farsand-I-Khas-I-Dewlat-I-Englishta, Son of Khas Khas Shamsah Bahadur, Parliamentary Secretary to the Minister of Defence, since Aug. 1957. b. April 1930; *Educ.*: Privately. Does social work in the former Baroda State; elected member, Lok Sabha, 1957. Manager, Indian Cricket test team, in English tour, 1959. *Recreations*: Shooting, Cricket, Tennis, Table Tennis, Indian Classical Music, Farming, etc. *Clubs*: M.C.C., England; Cricket Club of India, Bombay; Willingdon Sports Club, Bombay; Radio Club, Bombay; N.S.C.I.; M.P.C. Gymkhana, Baroda. *Address*: Laxmi Vilas Palace, Baroda.



GAJENDRAGODKAR, Mr. Justice Pralhad Balacharya, M.A., LL.B., Judge, Supreme Court, since Jan. 17, 1957. b. March 16, 1901; *Educ.*: Satara High School (1911 to 1918); Karnatak Coll. (1918 to 1920); Deccan Coll. (1920 to 1924); Dakshina Fellow (1922-24); Jhalu Vedant Prizeman; Bhagwan Das Purshotamas Scholar (1922-24); Law Coll., Poona (1924-26). Joined the Appellate Side Bar, 1926; edited the Hindu Law Quarterly; Sir Lalubhai Shah lecturer, Bombay Univ. on Hindu Law of Adoption, 1950; delivered University Extension lectures on the Hindu Code Bill, Karnatak Univ., 1951; presided over the Maharashtra Social Conference, Poona, 1953, Jalgaon, 1954; Chairman, Bank Award Commission, Feb. 20, 1955; Judge, Bombay High Court. *Publications*: Sanskrit Text of Nanda Pandit's Dattaka Mimamsa and its English translation. *Address*: Supreme Court, New Delhi.

GANAMUKHI, Anna Rao, B.A., LL.B., Minister for Education, Mysore, since May 1958. b. 1909, at Tad-Tegoor; *Educ.*: B.A., 1930 and LL.B. from Osmania Univ., Hyderabad. Started practice at Gulbarga; took part in the freedom struggle from 1932; was a member, Hyderabad State Congress Working Ctee. since its inception; was selected member, provisional Parliament; Minister, former Hyderabad State; member, Inter State Ministerial Ctee. during States Reorganization; elected M.L.A., Mysore from Alkalpur constituency, 1957. *Address*: Bangalore.

GANAPATI, M. B.E. (Madras), M.E. (Hons.) (Madras), M.I.E. (Institution of Engineers, India), Padma Bhushan (Aug. 1954), Resident Director, Rourkela Steel Project, since June 1958. b. Nov. 25, 1903; *Educ.*: Pachayappa's Coll. and Engineering Coll., Madras. Tata

Power Co., 1925-27; Mettur Dam Project, 1927-28; East Indian Rly. (Indian Railway Service of Engineers), March 1928-Jan. 1948; Regirding of the Ganga bridge at Kashi, Sept. 1945-Sept. 1947; Chittaranjan Locomotive Works, Jan. 1948-April 1951; Integral Coach Factory, June 1951-March 1953; Kandla Port Project, April 1953-Sept. 1955; General Manager, Western Railway, Sept. 1955-May 1958. *Publications*: Papers for the Institution of Engineers for which Viceroy's Medal and Rly. Board Prize have been awarded. *Recreations*: Tennis; Bridge. *Address*: Rourkela, Orissa.

GANDHI, Shrimati Indira, President, Indian National Congress, 1959, 1960. b. Nov. 19, 1917 at Allahabad; *Educ.*: India, Switzerland, Visvabharati Univ., Mantiniketan and Somerville Coll., Oxford. At the age of 12 formed a children's organization to help the Indian National Congress during N.C. movement; while at boarding school in Poona, worked in alum areas amongst the untouchables for popularizing hand-spun cloth and Indian-made goods; has been a 'tife in student movements in England and in India; became member of the Congress, 1938; was actively associated with the Independence Movement, imprisoned for 13 months; active in elections and village mass contact work with special reference to women; worked under Mahatma Gandhi's direction in the riot affected areas of Delhi, 1947; became member, Working Ctee., A.I.C.C., 1955; Pres., Women's Deptt., A.I.C.C.; member, Central Election Ctee. & Central Parliamentary Board of the A.I.C.C., is connected with several welfare organizations; member, Central Social Welfare Board; Children's Book Trust; various Trusts and Hospital Ctees.; Mountaineering Institute; Pres., Bal Bhavan sponsored by the Ministry of Education, Govt. of India; Pres., Indian Council for Child Welfare; Pres and Founder, Pali Sahyog, New Delhi; Kamala Nehru Vidyalaya, Allahabad; widely travelled in Asia, Europe and America. *Special Interests*: Reading, Music & Modern Art, Trekking and Swimming. *Address*: Prime Minister's House, New Delhi.

GANDHI, Pravinchandra Varjivan, Fellow, Indian Institute of Bankers, Mg. Director, Devkaran Nanjee Banking Co. Ltd., since 1943. b. Aug. 25, 1922; *Educ.*: Elphinstone Coll., Bombay. Joined Dena Bank as an apprentice; appointed Manager, 1942; member: Managing Ctee., Indian Merchants' Chamber; Indian Merchants' Chamber Sub-Ctees. on Banking, Finance, Income-tax and General Purposes; Managing Ctee., Indian Banks Assoc.; Exec. Ctee., Federation of Indian Chambers of Commerce & Industry; Zonal Railway Users' Consultative Ctee., Western Railway; Bombay City Traffic Advisory Ctee.; Dir., Bombay State Financial Corporation; Council Member, Indian Institute of Bankers; Advisory Council Member, Bankers' Training Coll.; member, Exec. Ctee., Indo-Pan American Assoc. *Address*: Devkaran Nanjee Buildings, Horniman Circle, Fort, Bombay; Jyoti Sadan, 137, Netaji Subhas Road, Bombay.

GANGHERETTIWAR, Shrirey Krishnaappa, Ex. M.L.A., Banker and Industrialist. b. Nov.



24, 1919, at Wani, Yeotmal District. Travelled widely in India; generously contributed to various educational institutions; knows English, Gujarathi, Hindi and Marathi. *Address*: Wani (Bombay State).

GANGWAL, Moharilal, Finance Minister, Madhya Pradesh. b. Samvat, 1859, Indore; *Educ.*: Indore. Took to the profession of his forefathers; is keenly interested in social and cultural work; was elected

Pres. of several social and commercial institutions; was highly influenced by Mahatma Gandhi's writings and began to take active part in politics; was elected Pres., Ajmer-Merwara Provincial Congress and Indore Rajya Praja Mandal; was member, Central India States Peoples Conference and of the A.I.C.C. for several years—courted imprisonment thrice; was member, Indore Legislature; was Food Minister, Indore; was Civil Supplies Minister, Madhya Bharat; Commerce and Industries Minister, 1949-50; Finance Minister, 1950-52; was elected Leader, Congress Legislature Party, Madhya Bharat Leg. Assembly, 1952; was Chief Minister, M.B., 1952-April 1955. *Address*: Bhopal.

GARWARE, B. D., Business man. b. 1903. Started business, 1921. Chairman: Garware Finance Corporation, Private, Ltd.; Garware Motors & Engineers Private Ltd.; Garware Plastics Private Ltd.; Dominion Plastic Industries; Plastic Pipe Private Ltd.; Plastics Packing Private Ltd.; Pres., Maharashtra Chamber of Commerce, Bombay, 1954-56 and 1956-58; is connected with many organizations as Chairman and active member on the Executive Ctees.; travelled widely in Europe, the U.S.A. and the Far East; served actively on numerous Ctees. of economic and industrial bodies; Sheriff of Bombay, 1959. *Address*: Chowpatty Chambers, Sandhurst Bridge, Bombay 7.



GAUR, Vrajendra Nath, Cine-Director, Journalist, Poet, Playwright, Author and Radio-Feature Writer. b. April 1, 1920. Writing dialogues and songs for movies, since 1945, the pictures to his credit being Sawan, Panihari, Ratnasali, Gunjan, Vo Dono, Mangal Sutra, Neera Aur Nanda, Girls School, Anken, Gauna, Kafia, Sangram, Shamsheer, Chandirani, Zalzala, Bahu, Sardar, Kastoori, Parineeta, Shatranj, Barish, Howrah-Bridge, Sitaron Se Agay, Apradhi Kaun, Sarhad, Mansil, Jal-Ras & Insaan Jag Utha; has also directed Kasturi; his ambition is to write and direct a film on Indian Art and culture for the world market; knows Hindi, English, Urdu and Gujarati. *Publications*: In Hindi: *Parale Par* (Novel); *Calcutta Ka Kade-am* (Stories) both banned by the Indian Govt. under Section 124 I.P.C.; *Astree Manon*; *Sindoor Ki Laal*; *Bithari Kaitiyen*; *Kapas Ki Nao*; *Andheri Raat*; *Yudh Ki Kahaniyan*, etc. *Hobbies*: Touring, Pen friendship, Gardening, Painting and Photography. *Address*: 145, Kuria Road, Andheri, Bombay 41.

GAUTAM, Mohanlal, B.A. (Hons.), Minister for Agriculture and Co-operation, Uttar Pradesh, since June 10, 1957. b. Aug. 5, 1902, at Birtura Village, Aligarh Dist.; *Educ.*: National Univ., Lahore. Joined N. C. Movement, 1920; Life Member, Servants of the People Society, Lahore; Secy.: Reception Committee, Lahore Congress Session, 1929; All India Congress Socialist Party, 1934; Congress Party in U.P. Legislature; Congress Party of Constituent Assembly, 1949; Congress Parliamentary Board; Gen. Secy.: U.P.P.C.C., 1930 and 1948; Congress Socialist Party, U.P., 1946; Indian National Congress; member: U.P. Leg. Assembly, 1937; Constituent Assembly of India, 1947; Exec. Ctee. of Inter-Parliamentary Union; Indian delegation to Inter-Parliamentary Conference at Stockholm; Founder and Secy., All India Kisan Sangh, 1939; Founder, *The Sangharsh*, Hindi Weekly; Chairman, Managing Ctee., National High School, Lucknow, 1938; Convener, Congress Parliamentary Board, 1947; jailed seven times in the freedom movement; Minister for Local Self-Govt. U.P., May 1952-Dec. 1954; again elected M.L.A., U.P., 1957; travelled in U.K., France, Germany, Sweden, Denmark, Switzerland, Holland, Belgium, Italy, Egypt, etc. *Address*: Vikramaditya Marg, Lucknow.

GRADE, Bhagwantrao Gambhirrao, Minister for Forests, Govt. of Bombay, since Nov. 2, 1956; Advocate, Bombay High Court. b. July 27, 1912; *Educ.*: Bhokardan, Jalna, Aurangabad and Hyderabad. Started his career as an educationalist; after some years became an Advocate of the Hyderabad High Court and started practice at Jalna. *Recreations*: Social activities. *Address*: 'Deogiri', Narayan Dabholkar Road, Bombay No. 6.

GRANDY, Sir Jehangir Jivaji, Kt., Cr., 1945, C.I.E. 1941, Padma Bhushan, 1958, Director, Tata Industries Private Ltd., Jamshedpur, since 1945 b. November 18, 1896; *Educ.*: B.A. (Hons.), B.Sc. (Hons.), Bombay University, B.N. School of Business, Columbia University, U.S.A.; B.Met. (Eng.), Carnegie Technological Institute, U.S.A. Member of the Inst. of Engineers (India), Fellow of the Inst. of Fuel (Great Britain), Member of the Iron & Steel Inst. (Great Britain); joined the Tata Iron & Steel Co., Ltd., Jamshedpur, as Metallurgical Engineer, 1921; rose to the position of General Manager, 1938; Agent, Tata Sons Ltd., 1944; Director, Tata Locomotive & Engg. Co. Ltd., 1945; Director-in-Charge, Tata Iron & Steel Co. Ltd., 1954, Director, Macneil & Barry Ltd., 1951, Hindri Fertilizers & Chemicals Ltd., 1951; Chairman: West Bokaro Private Ltd., 1945; Indian Tube Co. (1953) Ltd., 1955; Metals Ctee., C.N.I.R.; All India Board of Technical Studies in Management; Eastern Regional Ctee., All India Council for Technical Education; Advisory Board of the National Metallurgical Laboratory; Heavy Engineering Ctee., Govt. of India; St. John Ambulance Assoc., Jamshedpur Centre; Indian Standards Institution, Structural and Metals Division Council; Member: Board of Governors, Indian Institute of Technology; Board and Governing Body, Council of Scientific & Industrial Research; Court of Governors, Administrative Staff Coll., India; Associate Knight of the Venerable Order of St. John of Jerusalem; Hon. Col. in the Territorial Army. *Address*: The Tata Iron & Steel Co., Ltd., Jamshedpur; 25B, Netaji Subhas Road, Calcutta.

GHOSAL, Satyendra Nath, Dip. in Fine Art (Cal.), Dip. (Teachship) Fine Art (Cal.), Painter, Head of the Fine Art Deptt., Govt. College of Art & Craft, Calcutta. b. April 21, 1921; *Educ.*: Calcutta; Slade School of Fine Arts, Univ. of London & Goldsmith's Coll. School of Art, London. Is an artist, exhibited paintings in various exhibitions in U.S.A., U.S.S.R., China, Japan, Australia, Egypt, Rumania, Yugoslavia, etc.; held four one-man shows in New Delhi, 1948, '49, '50 and '56; travelled widely in England, Scotland, France and Switzerland, 1954; held two 'one-man-shows' of paintings in London, 1954 and 1955; exhibitions in London were visited by eminent Art Critics and Artists; paintings acquired by various Art Galleries and collectors in India and abroad. *Address*: Head of the Fine Art Deptt., Govt. College of Art & Craft, 23, Chowringhee Road, Calcutta 16.

GHOSH, Ajoy, B.Sc. (Allahabad), General Secretary, Communist Party of India. b. Feb. 20, 1909; *Educ.*: Kanpur and Allahabad. Accused in Lahore Conspiracy Case, 1929; worked in Masdoor Sabha, Kanpur; member, Central Ctee. of the C.P.I., since 1933; member, Politbureau, C.P.I., 1937. *Publications*: *Bhagat Singh and His Comrades, Theory and Practice of Socialist Party, Communist Answer to Pt. Nehru, Nehru's Socialism—A Hoax, Two Systems, A Balance Sheet*, 1956, etc. *Address*: Central Headquarters, C.P.I., Anaf Ali Road, New Delhi.

GHOSH, Ajay Kumar, B.Sc. (London), I.C.S., Joint Secretary, Ministry of Scientific Research and Cultural Affairs, Govt. of India. b. April 14, 1908; *Educ.*: St. Paul's School, Darjeeling; King's Coll., London. Entered the I.C.S., 1932; served in undivided Bengal as Asstt. Magistrate, Joint Magistrate and Dist. Magistrate, 1932-42; and as Dy. Secy. and Joint Secy., 1942-47; Joint Secy., West Bengal, 1947-49; Chief Commissioner, Andaman and Nicobar Islands, 1949-53; Managing

Director, Bharat Electronics (Private) Ltd., 1953-May 1958. *Recreations*: Photography; *Reading Clubs*: Calcutta Club; Delhi Gymkhana Club; Bangalore Club. *Address*: New Delhi.

GHOSH, Amalananda, M.A., Director-General of Archaeology, Govt. of India, since 1953. b. March 3, 1910; *Educ.*: A. B. H. School, Banaras; Queen's Coll., Banaras; Allahabad Univ. Asstt. Suptd., Archaeological Survey of India, 1937-44; Superintendent, 1944-49, Dy. Director-General for Exploration, 1949-52, Jt. Director-General of Archaeology, 1952-53; excavated at Ahichhatra, Taxila, Arikamedu, Harappa, etc., etc.; conducted exploration in Bikaner and other places. *Publications*: Numerous articles on Indian history and Archaeology. *Address*: Curzon Road Barracks, New Delhi.

GHOSH, Principal Devaprasad, M.A., B.L., President, All-India Jana Sangha, since March 1956. b. March 15, 1894; *Educ.*: Mitra Institution, Calcutta; Deoghar H. B. School; Braja Mohan Institution, Barisal; City Coll., Calcutta; Presidency Coll., Calcutta; Ripon Law Coll., Calcutta; brilliant academic career. Senior Professor of Mathematics, Ripon Coll. (now Surendranath Coll.), Calcutta, 1914-41; Principal, Carmichael Coll., Rangpur, East Bengal, 1941-50; Fellow, Calcutta Univ.; Advocate, Calcutta High Court; linguist, knows Bengali, Sanskrit, English, German, French and Italian; Founder in association with late Pandit Shyamundar Chakravarty of the *Servant*, the leading organ of the non-cooperation movement in 1920-21; member: Congress, 1915-22; Nationalist Party, 1923-32; Hindu Mahasabha, 1933-51; Jana Sangha at its inception, 1951; elected to the Rajya Sabha on Jana Sangha ticket, 1952; elected Pres., West Bengal Jana Sangha, 1954; Vice-Pres., All-India Jana Sangha, 1955; critic of Congress policy in its various aspects, since 1920. *Publications*: Several books on Mathematics; also a number of books on literary and political subjects, e.g., *Hindu Kon Pathe* (Whither Hindus?); *Tarunima* (Youthfulness); *Satara Vatsar Pars* (Seventeen years after); *Bangla Bhasa O Banan* (Bengali language and spelling—containing among other things his famous exchange of letters with Poet Tagore). *Hobbies*: Solving crossword puzzles. *Recreation*: Walking. *Address*: 59-B, Upper Circular Road, Calcutta 9.

GHOSH, Shashi Chandra, Managing Director: Universal (India) Trading Co. Private Ltd., New Gohindapur Coal Co. (Private) Ltd., and Ghosh's Estate (Private) Ltd., Owners of Coal & China Clay Mines. b. in Calcutta on February 15, 1888. Twice elected as Chairman of the Indian Mining Federation (1930 & 1940); nominated by the Government of India as Employers' Delegate Adviser, 15th International Labour Conference, Geneva (1931); elected President, Geological Mining & Metallurgical Society of India, 1946-47; served as a Joint Honorary Secretary of the



Bengal National Chamber of Commerce, Calcutta; elected on the Calcutta Port Trust (1931-32); Calcutta Improvement Trust (1927); Indian Coal Grading Board (1926-29 and 1932-33); Indian Soft Coke Cess Committee (1930-34); Coal Wagon Supply Committee (Railway Board); Railway Rates Advisory Committee (1930-35); E. I. Railway Calcutta Advisory Committee (1928, '29, '30, '31); Board of Income-Tax Referees, Bengal; Board of Industrial Conciliation Panel (Bengal); Ajansol Mines Board of Health; nominated by the Govt. of India as Delegate to the International Coal Mining Committee held in London in December 1945; member, Coal Advisory Ctee., Ministry of Steel, Mines and Fuel, Govt. of India. *Address*: 83, Canning Street, Calcutta 1.

GHOSH, Surendra Nath, M.A., LL.B., Journalist; Editor, *The Pioneer*, Lucknow, since 1946. b. May 20, 1904; *Educ.*: Allahabad University. Started as a reporter; later became News Editor and subsequently Chief Assistant Editor of *The Pioneer*; Pres., U.P. Press Consultative Ctee.; Member: U.P. Planning Commission; Standing Ctee. of the All-India Newspaper Editors' Conference. *Recreation*: Gardening. *Address*: Lucknow.

GHOSH, Tara Kanti, B.A. (Calcutta), Minister, Agriculture and Food Production, Govt. of West Bengal, since July 1959. b. 1924; *Educ.*: Presidency Coll., Calcutta. Before joining politics was General Manager & Jt. Secy., 'Amrita Bazar Patrika', Allahabad, & Calcutta; organised students' convention, relief funds, etc. during student life; in 1952, was elected M.L.A. from Habra Constituency and appointed Dy. Minister, Development & Relief, 1952; elected from the same constituency securing record number of votes, 1957; made tours in rural West Bengal and addressed mass meetings in connection with development work; Minister of State, W. Bengal, 1957-59. *Recreation*: Reading of books. *Clubs*: Calcutta Club; N.S.C.I.; N.C.C.; Mohun Bagan A.C.; Cossipore Club. *Address*: 'Patrika House', 14, Ananda Chatterjee Lane, Calcutta 3; 'Sisir Kunja', P.O. Madhyamgram (24-Parganas).

GHOSH, Tushar Kanti, Editor, Amrita Bazar Patrika, Calcutta and Allahabad. b. Oct. 4, 1899; *Educ.*: Calcutta Univ., Bangabasi & Vidyasagar Coll. Started as sub-editor, 1920; founded *Jugantar* (Calcutta), Bengali daily; founded *Allahabad Patrika*, English daily; founded *Amrit Patrika* (Allahabad), Hindi daily; President: All-India Newspaper Editors' Conference (1946-47); Indian & Eastern Newspaper Society (1948-49); represented India at the Empire Press Union Conference in London, June 1946, and travelled extensively; President: Indian Journalists' Assoc., Calcutta; Andhra Journalists' Conference at Guntur, 1937; All-India Printers' Conference at Poona, 1939; All Jammu and Kashmir Conference; Bengal Film Journalists' Assoc. and All-India Film Journalists' Conference, Lahore, 1941; Director, Press Trust of India; Managing Director, *The Jugantar Ltd.* and *The Amrita Bazar Patrika Ltd.* Leader, Indian Press Delegation to Egypt, 1950-51; member, Central Board of Film Censors, 1951-53; Delegate to International Press Institute Conference, Amsterdam, 1957, followed by extensive tour in western European countries, U.S.A., Japan and other Far Eastern countries; Delegate to I.P.I. Second Asian Conference at Kandy, Ceylon, 1957. *Address*: 'Patrika House', 14, Ananda Chatterjee Lane, Calcutta; 10, Edmonstone Road, Allahabad.

GHULAM Ahmad, Pirzada, B.A. (1st Class), I.A.S., Chief Secretary to the Govt. of Jammu & Kashmir, since June 1954. b. April 21, 1908; *Educ.*: Sri Pratap High School, Srinagar, 1922-24; Sri Pratap Coll., Srinagar, 1924-28; Govt. Coll., Lahore, 1928-30. Joined Jammu & Kashmir Audit & Accounts service, 1930; was trained in Indian Audit & Accounts service, 1933; Asstt. Accounts Officer, 1945; Asstt. Accountant General, 1947; Special Secy. and Chief Secy., Oct. 1947-Oct. 1948; Accountant General, Oct. 1948-June 1954; was member, Inquiry Ctee. commonly known as Wazir Ctee. set up by the Jammu & Kashmir Govt. to examine the working of land reforms, price control, etc. in the State; has been member of various commissions of inquiry set up from time to time by the State Govt.; taken in the Indian Administrative Service, 1958. *Recreation*: Angling. *Club*: Amar Singh Club, Srinagar. *Address*: Chief Secretary to the Government of Jammu and Kashmir, Srinagar.

GILL, His Excellency Narayan Singh, Ambassador of India to Ethiopia, since Jan. 1955. b. Jan. 15, 1906; *Educ.*: Chiefs' Coll., Lahore; Prince of Wales Royal Indian Military

Coll., Dehra Dun; Royal Military Coll., Sandhurst, England. Commissioned into the Indian Army as 2nd Lieut., Sept. 1925; Capt., Sept. 1934; Major, Sept. 1942; graduated from Staff Coll., Quetta, 1938; Staff Capt., A.H.Q., 1939; D.A.Q.M.G. 11 Indian Div., Malaya, 1940; fought in the Malayan Campaign; after the fall of Singapore, 1942, Chief Advisor, 1st Indian National Army; imprisoned by the Japanese, Dec. 1942 till the end of war; then imprisoned by the British in the Red Fort, Delhi; released, April 1946; Pres., Combined Sikhs Board, at the time of the Cabinet Mission proposals, 1946; worked with the Congress and for Co-operative and Farmer's Movement in Punjab, 1947-55. *Recreations:* Tennis, Golf. *Address:* Indian Embassy, Addis Ababa, Ethiopia; Majitha, Dist. Amritsar, Punjab.

GINWALL, Sir Padamaji Pestonji, Kt. (1927), B.A. (Historical Tripos, Cambridge, 1897), Barrister-at-Law, Adviser to Martin Burn Ltd., The Indian Iron & Steel Co., Ltd., Indian Standard Wagon Co., Ltd., and Burn & Co., Ltd.; Director, Indian Iron & Steel Co., Ltd., Indian Standard Wagon Co., Ltd., India Steamship Co., Ltd. (Bombay); Member, London Board, Indian Iron & Steel Co., Ltd. b. Nov. 1875; *Educ.*: Gujarat Coll., Ahmedabad; Trinity Hall, Cambridge; called to the Bar, 1899. Advocate, Chief Court of Lower Burma, 1905; member: Leg. Assembly, 1921-23; Indian Tariff Board, 1923; Pres., 1926-30; resigned, July 1930; Delegate, Imperial Conference, 1930; member: Round Table Conference, 1931; Ottawa Conference, 1932; World Economic Conference, 1933; Pres., Indian Air Force Pilots Selection Board, 1940 and 1941; Chairman: Iron and Steel (Major) Panel, 1945; Calcutta Terminal Facilities (Tee., 1947; Pres., Indian Institute of Metals, 1949 & 1951. *Address:* 12, Mission Row, Calcutta.

GIRI, V. V., Barrister-at-Law, Governor of Uttar Pradesh, since 10th June 1957. b. Aug. 10, 1894, in Berhampore; *Educ.*: National Univ., Ireland. Trade Union leader for many years; General Secy and Pres. of the All-India Railwaymen's Federation; twice Pres. of the All-India Trade Union Congress; Indian Workers' delegate to the International Labour Conference at Geneva in 1927; Workers' Representative in the Second Round Table Conference, London, 1931;



Member, Central Legislative Assembly for several years; Minister for Labour, Industries and Co-operation in the Madras Ministry during 1937-39; Minister in the Madras Govt. in 1946; High Commissioner for India in Ceylon; Minister for Labour, Govt. of India, May 1952-Sept. 1954; Member, Lok Sabha, 1952-57; Elected Pres., Indian Conference of Social Work, 1958; *Publications:* *Industrial Relations: Labour Problems in Indian Industry.* *Address:* Governor's Camp, Lucknow (U.P.).

GIUSTI DEL GIARDINO, E. E. Dr. Justo, LL.D., Ambassador Extraordinary & Plenipotentiary of Italy in India, since Aug. 1958. b. March 19, 1908; *Educ.*: Univ. of Padua. Entered Italian Foreign Service, July 1933; Vice-Consul, Calcutta & Djibuti; Second Secy., Peking & Athens; Consul, San Sebastian; Consul-General, Paris; General Director for Emigration, Italian Foreign Service; Chief of many delegations to I.L.O., O.E.C.E., I.C.E.M., Council of Europe; Pres., pro tem, of I.C.E.M.; Amb. Ex. & Plen. to Venezuela, 1954; Pres., Italian Delegation to the 10th Assembly of I.C.A.O.; Chief of the Special Italian Embassy in the Dominican Republic, Aug. 1957. *Publications:* Articles in various reviews on labour and migration problems. *Address:* 17, York Road, New Delhi.

GOPE, Parashuram Krishna, B.A. (Hons.), M.A., Curator, Bhandarkar Oriental Research Institute, Poona, since 1919. b. July 11, 1891; *Educ.*: The New English School and Ferguson Coll., Poona. Professor of English and Sanskrit, Indian Women's Univ., 1918-19; Associate Member, "Ecole Française d'Extreme Orient" (Hanoi); Hony. Pres., Cultural Office of Argentine; Hon. Editor, "Annual Bibliography of Indian Archaeology" (Leyden); Hon. Collaborator, "Bibliography of Indian Philosophy," etc.; Distinguished Services Silver Jubilee Medal of B.O.E. Institute (1943); Recognised Professor and Head of the Dept. of Ancient Indian Culture of Poona Univ., publicly honoured on May 18, 1949, presented press copy of more than 100 papers from all parts of the world received for Gode Commemoration Volume; Hony. member and holds Hony. degree of Doctor of Letters of the "Haute Académie Latine Internationale des Sciences des Lettres, et des Arts"; Founder, Dr. P. D. Gune Memorial Lectures at Poona Univ., 1955; Member of Council, Indian Institute for the History of Science. *Publications:* Author of more than 175 research papers on Indology published in 50 different journals and volumes (1916-58); Editor of some of these papers in 5 volumes; Editor of *New Indian Antiquary*, *Review of Philosophy and Religion*; *Oriental Literary Digest*; Editor of Seven Commemoration Volumes; Editor, revised edition of Apte's Sanskrit-English Dictionary; Author of several volumes of descriptive catalogue of manuscripts. *Address:* Deccan Gymkhana Colony, Poona 4.

GOENKA, Rai Bahadur Sir Sadridas, Kt., C.I.E., B.A., Merchant, Banker and Mill-owner, Hindu. b. 1883; *Educ.*: Graduated from the Presidency Coll., Calcutta, 1905. Partner, Ramdutt Ramkissendass, Chairman: Board of Directors, Hukumchand Jute Mills Ltd.; Hercules Insurance Co., Ltd.; New India Investment Corp., Ltd.; Kamla Mills Ltd.; Standard General Assurance Co., Ltd.; Director: Reserve Bank of India (Central Board), 1935-41; State Bank of India, 1955-57; Hindustan Motors Ltd., Kailash India Ltd.; Imperial Bank of India, 1941-55; Nagasaur Tea Co. Ltd.; Killcutt Tea Co. Ltd.; Pres.: Federation of Indian Chambers of Commerce & Industry, 1945-49; Marwari Assoc. 1928-30; Indian Chamber of Commerce, 1941; Trustee: Calcutta Improvement Trust, 1928-40; Victoria Memorial Hall, Calcutta; member: Bengal Legislative Council, 1923-35; Sheriff of Calcutta, 1932-33; made Rai Bahadur, 1925, C.I.E., 1928 and Knight Bachelor, 1934. *Club:* Calcutta Club. *Address:* "Goenka Niwas," 19, Belvedere Road, Alipore, Calcutta 27.



GOENKA, Keshav Prasad, Partner, Ramdutt Ramkissendass. b. 1912. Sheriff of Calcutta (1950-51); Vice-Chairman, Central Tea Board (1953-54); Vice-Chairman, Indian Statistical Institute; Pres., Employers' Assoc., Calcutta; Member: (Ttee. of Federation of Indian Chambers of Commerce and Industry; (Ttee. of the All-India Organisation of the Industrial Employers; International Chamber of Commerce; Import Advisory Council, Govt. of India, 1948-51; Indian Central Jute Cttee. (1939-42); Bengal Economic Enquiry Cttee. (1938-41); Cttee. of the Indian Chamber of Commerce; Pres.: Indian Chamber of Commerce (1948-49), (1950-57); Indian Insurance Association, Calcutta (1948-50); Commissioner for the Port of Calcutta (1954-56); Chairman, Anglo-India Jute Mills Co., Ltd.; Gungaram



Tea Co., Ltd.; Hantapara Tea Co., Ltd.; Carron Tea Co., Ltd.; Poobong Tea Co., Ltd.; Vice-Chairman, Duncan Brothers & Co., Ltd.; Director: Reserve Bank of India (1948-49); Auckland Jute Co., Ltd.; Amalambated Coalfields Ltd.; Bank of Baroda Ltd.; Calcutta Investment Co., Ltd.; Dalhousie Jute Co., Ltd.; Jalpur Investment Co., Ltd.; National Tobacco Co. of India Ltd.; New India Investment Corporation Ltd.; Octavius Steel & Co., Ltd.; Standard General Assure. Co., Ltd.; Titaghar Paper Mills Co., Ltd.; Triton Insurance Co., Ltd.; The Champdany Jute Co., Ltd.; Marybong & Kyal Tea Estates Ltd. (Incorporated in Great Britain); Central Warehousing Corp.; West Bengal State Warehousing Corp., etc., etc. *Club:* Calcutta Club. *Address:* 31, Netaji Subhas Road, Calcutta 1; *Residence:* "Goenka Niwas," 19, Belvedere Road, Calcutta.

GOEKAK, Vinayak Krishna, M.A. (Bom. & Oxon.), First Class in English, B.A., and M.A., First Class in English Language and Literature in Oxford, Principal and Professor of English, Karnatak College, Dharwar. b. Aug. 9, 1909; *Educ.*: Majid High School, Savanur; Karnatak College, Dharwar; Jesus College, Oxford. Prof. of English, Ferguson Coll., 1931-36; Prof. of English and Principal, Willingdon Coll., Sangli, 1938-44; Prof. of English, Osmania Univ., 1944-46; Wilson Philological Lecturer in English, Bombay Univ., 1943-44; Pres., Kannada Poets' Conference, 1934; Karnataka Educational Conference, 1943; Principal, M. N. College, Vianagar (1946-49); Principal and Prof. of English, Rajaram College, Kolhapur, 1949-52; member, Indian delegation to the International P.E.N. Conference, Japan, Aug. 1957; Pres.: Univ. Section, All India Educ. Conference, Madras, Dec. 1957; Kannada Literary Conference, Bellary, 1958; Leader, Indian delegation to America to study the systems of education there, 1958. *Publications:* *The Song of Life*, a collection of lyrics in English; *The Poetic Approach to Language* (O. U. P.); a novel, three plays and several collections of lyrics, letters and essays in Kannada. *Address:* Dharwar.

GOENKA, Bhalechandra Krishna, M.A. (Bombay), B.A. (Cantab.), I.C.S., C.S.I. (1st Jan. 1946), C.I.E. (1st Jan. 1948), Chairman, Tungbhadra Board, since March 16, 1955. b. July 23, 1892; *Educ.*: Ferguson Coll., Poona, Wilson Coll., Bombay, Fitz-William Hall, Cambridge. Asst. Magistrate and Joint Magistrate, Cuttack; M. D. O., Khurda; Settlement Officer, Chota-Nagpur; District Officer, Manbhum, Gaya and Monphey (Bihar); Secretary to the Govt. of Bihar, Education and Development Depts., and subsequently Finance Dept.; Commissioner of Bhagalpur and Patna Divisions; Adviser to H.E. the Governor of Orissa; Administrator, Damodar Project, Hazaribagh; Secretary, Govt. of India, Ministry of Works, Production and Supply; Secretary to the President of India; Ambassador in Nepal. *Publications:* Final report of the Survey and Settlement operations in Manbhum District, 1927; Final report of Revision Survey and Settlement operations in Kodarma, Government Estate. *Address:* 36, Deccan Gymkhana, Poona 4.

GOENKA, Mr. Justice Bhalechandra Narayan, M.A., LL.B., Judge, High Court of Bombay, since Jan. 1955. b. July 16, 1901; *Educ.*: Elphinstone Coll., Bombay; Bombay Univ. School of Economics and Sociology; Govt. Law Coll., Bombay; winner of Sir James Taylor Prize, Sir William Wedderburn Scholarship, Telang Gold Medal, Advocate, High Court, 1928-55; Senior Advocate, Supreme Court, 1952-55; Editor, English Columns of the *Gujarati*, 1928-34; Hony. Secy., Bombay Presidency Assoc. and National Liberal Federation; Part-time Prof., Govt. Law Coll., 1938-41; Fellow, Bombay Univ., 1938-47; member, Syndicate, 1944-47; Fellow and Syndic, S.N.D.T. Indian Women's Univ.,

since 1945; Member of the Court, Poona Univ.; Vice-Pres., Mumbai Marathi Sahitya Sangh and Pres., Bombay Presidency Social Reform Assoc. *Recreations*: Bridge, Chess, Munc. Clubs: Cricket Club of India, National Sports Club, Club of Maharashtra, The Club, Mahabaleshwar. *Address*: Gokhale Building, 157-59, Girgaum, Bombay 4.

GOLCHA, Seth Harish Chandra, leading Industrialist. Controls TALCO (Soapstone) Mines in India; manufacturers of felt, felt hats, brasswares, curios, etc.; Partner, S. Zoraster & Co., Jaipur; Director: Jaipur Mineral Development Syndicate (Private) Ltd.; Udaipur Mineral Development Syndicate (Private) Ltd.; East India Mineral Development Syndicate (Private) Ltd.; Udaipur Talco (Private) Ltd.; Associated Soapstone Distributing Co. (Private) Ltd.;

Golcha Properties (Private) Ltd.; S. Zoraster & Co. (Supplies) (Private) Ltd.; Supreme General Films Exchange Private Ltd.; S. Zoraster & Co. (Agencies) Private Ltd.; J. M. D. S. (Cosmetics) Private Ltd.; S. Rajmull Golcha Private Ltd.; S. Rohanmull Golcha Private Ltd.; Controls: Golcha Cinema, Delhi; Maratha Mandir, Bombay; Prem Prakash Talkies, Jaipur; Plaza Cinema, Ajmer; Plaza Talkies, Jubbulpore; Shri Talkies, Nagpur; has been controlling film distribution in Madhya Pradesh, Rajasthan and central India; Pres.: Jaipur Chamber of Commerce and Industry; Ram Lal Samiti; Regional Council for Rajasthan; Central Circuit Cine Assoc., Jaipur; Vice-Pres.: Balika Vidyalyaya; Rajasthan Chamber of Commerce and Industry; member: Governing Body, Maharani Gayatri Devi Girls' Public School; Industrial Advisory Council, Govt of Rajasthan; Rajasthan State Electricity Board; Rajasthan Mineral Advisory Board; King Edward Memorial Trust, Jaipur; member, Exec. Cttee., Jaipur Club, Jaipur; is associated with many social institutions; is a keen sportsman. *Address*: Johari Bazar, Jaipur.

GOLCHA, Seth Mohabb Chand, a leading Industrialist. Controller of TALCO (Soapstone) Mines in India and manufacturers of felt, felt hats, brasswares, curios, etc.; Partner, S. Zoraster & Co., Jaipur; Director: Jaipur Mineral Development Syndicate (Private) Ltd.; Udaipur Mineral Development Syndicate (Private) Ltd.; East India Mineral Development Syndicate (Private) Ltd.; Udaipur Talco (Private) Ltd.; Associated Soapstone Distributing Co. (Private) Ltd.; Golcha Properties (Private) Ltd.; S. Zoraster & Co. (Supplies) (Private) Ltd.; controls: Golcha Cinema, Delhi; Maratha Mandir, Bombay; Prem Prakash Talkies, Jaipur; Plaza Cinema, Ajmer; Plaza Talkies, Jubbulpore; Shri Talkies, Nagpur; has been controlling film distribution in Madhya Pradesh, Rajasthan and central India; extensively travelled in East Europe and East Asia. *Address*: Johari Bazar, Jaipur.

GOLWALKER, Madhav Sadashiv, M.Sc. (Zoology), LL.B., Sarvagchalak (Chief Organizer), Rashtriya Swayamsevak Sangh (R.S.S.), 6 Feb. 18, 1906; *Educ.*: Hialop Coll., Nagpur; Benaras Hindu Univ. Joined Benaras Hindu Univ. as a Professor, 1930; in B.H.U. came in contact with Dr. Keshav Balram Hegdegar, the founder of R.S.S. and eventually started taking keen interest in their work; returned to Nagpur where he became a regular visitor to Ramkrishna Mission, 1932; joined Ramkrishna Mission Ashram at Faragchi, 1936; was initiated by Swami Akhandaandaji, one of the eleven direct disciples of Ramkrishna Paramhansa; after Swami's death returned to Nagpur

and devoted his attention to R. S. S. work; after the death of Dr. Hegdegar, the founder of R.S.S., was appointed the head of that organisation. *Publications*: *We or our Nationhood Defined* (English, Marathi, Hindi); *Speeches of Swami Vivekananda at the Chicago Conference* (Marathi). *Address*: Dr. Hegdegar Bhavan, Nagpur.

GOMES, Alexander Anthony Joseph, B.Sc. (Hons.) (London), A.C.G.I. (Lond.), D.I.C., A.M.I.E., Master of the Mint, India Govt. Mint, Alipore, since March 1952; 6 March 15, 1908; *Educ.*: St. Anthony's High School, Lahore, 1915-21; St. George's Coll., Barlowganj, Mussorie, 1922-27; Imperial College of Science & Technology-City & Guilds Engineering Coll., London, 1929-32; Student Engineer in the North-Western Ry., 1932-33; took specialised course in welding at Macbeth's Ltd., Bombay, 1934. Joined M.E.S., 1935; commissioned as 2nd Lieut. in the Corps of Indian Engineers, Aug. 1941; promoted Actg. Lieut., Oct. 1, 1942; Actg. Capt., Jan. 14, 1943; Actg. Major, March 1, 1943; Temp. Major & W.S. Capt. from June 1, 1943; Deputy Mint Master, Aug. 27, 1947 to July 1951; Offg. Mint Master, Bombay, July 3-Nov. 2, 1951; Offg. Mint Master, Calcutta from March 31, 1952-April 1, 1952; confirmed, April 1, 1952. *Publications*: *History of Indian Coinage*, published in leading dailies. *Recreations*: Hockey, Football, Cricket, Squash & Athletics. *Clubs*: National Sports Club of India; Old Centralians, Calcutta; Central Services Officers' Club, Calcutta. *Address*: Mint House, Diamond Harbour Road, Alipore, Calcutta 27.

GOPALAKRISHNAN, P. K., B.A. (Hons.) (Madras), I.C.S., O.B.E., Chairman, Life Insurance Corporation of India, since April 10, 1958; 6 Dec. 20, 1909; *Educ.*: Presidency College, Madras; Univ. College, London. Joined the I.C.S. after passing the competitive exam. in London, 1932; served in many Districts of U.P.; Finance Secy. to U.P. Govt., April 1947 to Dec. 1949; Financial Commissioner and Commissioner for Food and Civil Supplies, U.P.; Jt. Secy., Ministry of Food & Agriculture; Joint Secy., Cabinet Secretariat, Govt. of India. *Clubs*: Nainital B. H. Club Ltd., Mohamed Bagh Club, Lucknow and Gymkhana Club, Delhi. *Address*: Jeevan Kendra, Jamshedji Tata Road, Bombay 1.

GOPALEN, K. K., M.P., Deputy leader, Communist Group in Parliament. 6 Oct. 1, 1904; *Educ.*: Tellicherry, Malabar and Madras. Political worker; joined Congress 1927; courted jail for 12 years; Pres., Kerala Congress Cttee. and member, A.I.C.C. for six years; joined Congress Socialist Party, 1934; hunger march from Malabar to Madras, 1937; elected member, Lok Sabha, 1952 and again in 1957. *Address*: 2, Windsor Place, New Delhi.

GOPALSWAMY, Karna Vena, B.A. (Madras), M.A. (Oxon.), Bar-at-Law, Registrar, Andhra Varsity, Telugu writer. 6 Dec. 19, 1903; *Educ.*: C. M. S. High School, Ellore; Christian College, Madras; Balliol College, Oxford; Inner Temple, London. Prof. of History, Anglo-American Universities College, Madras, 1928-29; Private Secy. to the Agent of Govt. of India in S. Africa, 1930-31; Advocate, High Court of Madras, 1933-42; First Univ. Prof. of Law, Andhra Univ., 1945; Pres.: Rotary Club, Guntur, 1944; The Telugu Little Theatre, Vijayawada; Andhra Nataka Kala Parishat, 1951; member: Indian Sahitya Akademy, 1954-56; Indian Council for Cultural Relations; Indian Council of World Affairs, Waltair; Producer for the Andhra Univ. Experimental Theatre; Organizer: U.N. Volunteer Correspondent Speakers' Unit, Waltair; U.N.E.S.C.O. Club, Waltair; Leader, Govt. of India Delegation of Univ. Administrators to U.S.A. and U.K., 1958; Editor, Best One Act Plays, in Telugu; *Publications*: *Limitations of Democracy as a First Step Towards Representative Government*; *Stories and Plays in Telugu in collaboration*

with Mrs. Seenu Bai Gopalaswamy. *Recreation*: Bridge. *Clubs*: The Presidency, Madras; Waltair Club, Waltair, etc. *Address*: University Campus, Waltair.

GOPINATE, G., Natanakalanidhi, Dancer. 6 June 24, 1908; *Educ.*: Studied Kathakali for twelve years under several distinguished masters like late Paramu Pillai, Mathur Panikkar, Kesava Panikkar and Karunakara Menon, and Gura Kunju Kurup; specialised in the Art of Kathakali, and the classical forms of Indian Dancing. Left school at the age of thirteen and studied Kathakali and presented it in the orthodox form upto the age of 25; later modified the form of Kathakali for the modern stage and performed all over India; appointed Palace Dancer of Travancore; started Natana Niketan School of Dancing at Madras (1945); visited U.S.S.R. and other European countries as member representing Kathakali in the Cultural Delegation sent by the Govt. of India; acted in some films; has been devoting all his time to the development of dance; is Ex-Cttee. member, Sangeeta Nataka Sangam, Madras. *Publications*: *Abhinayamkurum*; *Classical Dance Poses of India*; *Abhinaya Prakaranta*. *Recreations*: Gardening. *Address*: U/o Natana Niketan, Cathedral Road, Madras 6.

GORAY, Narayan Ganesh, B.A., LL.B., M.P. (Lok Sabha), General Secretary, Praja Socialist Party. 6 June 15, 1907, at Hindia village, Ratnagiri Dist.; *Educ.*: Fergusson Coll., Poona. Social worker; one of those who started a branch of Youth League in Maharashtra, 1928; joined Congress and Satyagraha campaign, 1930; was member: National Exec. of the Congress Socialist Party, 1934; All India Congress Party; Joint Secy., Socialist Party, 1948, when it severed its connection with the Congress; General Secy., P.S.P., 1953-54; was Pres., "Sakhar Kamgar Federation" (Sugar Workers' Federation); Pres.: Poona Electric Supply Company's Employees' Union; Hind Oil Kamgar Sabha (H.M.S.) and Oil Companies Depot Supdts. Assoc., India; elected to the Court of the Univ. of Poona from the Trade Unions' Constituency for two consecutive terms, 1949-54 and since 1954; led the first batch of Satyagrahis in Goa, May 1955; was sentenced to ten years' imprisonment by the Portuguese Govt.; released, Feb. 1957; Critic, essayist, story writer and translator; courted jail on several occasions in India's freedom movement. *Publications*: *Short Stories, Essays, Translations, etc.* in Marathi. *Address*: 1813, Sadasshiv Peth, Poona-2.

GOVINDDAS, Seda, Sahitya Vachaspati, Member, Lok Sabha. 6 Vijay Dashmi Day, 1896; *Educ.*: Privately at home in Hindi, English and Sanskrit; also knows Gujarati, Marathi and Bangla. Entered politics, 1919; elected to the Central Assembly, 1923, 1934 & 1946, Council of State, 1925, Constituent Assembly, 1947 and Lok Sabha, 1952 and 1957; courted imprisonment 5 times in freedom movements and remained 8 years in prison; member, A.I.C.C., since 1921; Pres., Mahakoshal P.C.C. for 20 years; elected Chairman, Reception Cttee. of Congress Session, Tripuri, 1939; member, Congress Working Cttee., 1950-51 & 1958; Pres., A.I. Hindi Sahitya Sammelan, 1949; Leader, Indian delegation to Commonwealth Parliamentary Conference, New Zealand, 1950; Delegate to Commonwealth Parliamentary Conference, Canada, 1952; Speaker, Lok Sabha during oath taking ceremony and election of Parliament Speaker, 1957; elected first Pres., M.P.C.C. of reorganised M.P., 1957. *Publications*: Has written 106 plays in Hindi, one novel *Indumati* and 3 travel books on Africa, New Zealand, Australia, Fiji & Malaya, and World Tour. Many of his plays have been staged and filmed; many have been prescribed for graduate and post-graduate courses in various Indian Universities and have also been translated into English and many Indian languages. *Address*: 33, Peromah Road, New Delhi; Raja Gokuldas Palace, Jabalpur (M.P.).

GOYAL, Air Commodore Surendranath, M.B.E., Indian Air Force. b. Dec. 11, 1917; *Educ.*: Allahabad Univ., 1935; R.A.F. Coll., Cranwell (U.K.), 1936; R.A.F. Staff Coll., Bracknell (U.K.), 1946. Director, Air Headquarters, 1949-51; Commandant, Air Force Academy, 1951-52; Air Officer Commanding, Training Command, 1952-55; Principal Staff Officer, Air H.Q., 1955-58. *Publications*: *Air Power in Modern Warfare* (Thackers, Bombay, 1952). *Recreations*: Community Service, Trekking, Photography, Vedic Research, Music. *Clubs*: Rotary, etc. *Address*: C/o Air Headquarters, New Delhi.

GRACIAS, His Eminence Valerian Cardinal, D.D., M. Agz., Archbishop of Bombay since Dec. 1, 1950. b. October 23, 1900; *Educ.*: St. Patrick's High School, Karachi; St. Joseph's Seminary, Mangalore; The Papal Seminary, Kandy, Ceylon and The Gregorian Univ., Rome. Secy. to the Archbishop (1929-1936); Chancellor of the Archdiocese, 1929; Editor of *The Messenger of the Sacred Heart* (1935); Co-Editor of *The Examiner* (1938); Rector of the Pro-Cathedral, Dec. 1941; Titular Bishop of Tanna



and Auxiliary to the Archbishop of Bombay, April 11, 1946; Archbishop of Bombay, Dec. 1, 1950; created Cardinal, Jan. 12, 1953; Consultant to the Sacred Congregation for the Oriental Churches, The Sacred Congregation of the Sacraments and the Sacred Congregation for the Propagation of the Faith; Chairman, Catholic Bishops' Conference of India. *Publications*: *Features of Christian Life, Heaven and Home*; *The Vatican and International Policy*. *Address*: Archbishop's House, Bombay 1.

GREWAL, Sarwan Singh, Cert. I.S.M., F.C.C., M.M.G.T., Chief Inspector of Mines in India, Govt. of India, since 1954. b. April 5, 1906; *Educ.*: Govt. Coll., Lahore; Indian School of Mines, Dhanbad. After serving in the mining industry for 4 years, joined the Deptt. of Mines, 1934; Deputy Chief Inspector of Mines in India, 1951-54; Pres., Coal Mines Rescue Stations Committee, 1946-50 and 1953-54; deputed by the Govt. of India to Europe to visit mines and mining installations, 1950; as Economic Development Fellow of the U.N.T.A.A., studied the mining practices etc. in the U.S.A., Canada and Netherlands, 1952; represented India on the Seventh Industrial Conference of Directors of Safety in Mines Research, 1952; Pres., Executive Council of the Indian School of Mines and Applied Geology, 1954-57; elected Chairman, I.L.O. Sub-Committee on Safety in Coal Mines (at the Sixth Session of the I.L.O. Coal Mines Ctee. held at Istanbul), 1956; attended meeting as one of the I.L.O. Experts on the Prevention of Accidents due to Fires and Electricity in Coal Mines, Geneva, 1957; Pres., Mining, Geological and Metallurgical Institute of India, 1957-58. *Recreations*: Photography, Golf. *Clubs*: The Dhanbad Club. *Address*: Hirapur House, Dhanbad, E.R.

GROVER, Mr. Justice Amar Nath, M.A., LL.B. (Cantab.), Barrister-at-Law of the Middle Temple, London, Additional Judge, Punjab High Court, since Oct. 10, 1957. b. Feb. 15, 1912; *Educ.*: Govt. Coll., Lahore; Christ's Coll., Cambridge. Passed M.A. (History), Punjab, 1932; Law Tripos, Cambridge, 1935; LL.B. Degree, Cambridge, with First Class, 1936; awarded 1st Prize in Law by Christ College, Cambridge and elected Hon. Scholar of the Coll., 1936; called to the Bar by the Middle Temple, 1936. Started practice as an Advocate, High Court, 1937; became a leader of the Bar; member, Punjab Bar Council, 1954-57. *Recreations*: Swimming, Tennis and Badminton. *Clubs*: Gymkhana Club, New Delhi; A. D. C. Club, Simla; Chandigarh Club. *Address*: 5, Judges' House, Sector 4, Chandigarh.

GUHA, Arun Chandra, B.A. (Calcutta), M.P. (Lok Sabha), Ex-Min. for Revenue and Defence Expenditure, Govt. of India; Journalist, Publisher, Author. b. April 1892; *Educ.*: B. M. School and Coll., Barisal (East Bengal). Joined the 'Yugantar Party'—the revolutionary party; after graduating, went underground during the First World War in connection with the Indo-German conspiracy; was in jail for over 23 years under Regulation III of 1818 as a State prisoner at several places; Gen. Secy., Bengal P.C.C., 1940-41; member: A.I.C.C. since 1938; Constituent Assembly, 1946; Provisional Parliament; elected M.P., 1952 and 1957; member: Estimates Ctee. and Public Accounts Ctee. of the Parliament; Trust Board of Shankar Math, Prajnananda Pathapriya and Prajnananda Jana Seva Sangha. *Publications*: has written short stories, novels and books on History, Politics and Cultural and Juvenile topics. Editor, *Mandira*, Bengali literary monthly and Dir., *Forward*, political and cultural English weekly. *Address*: 32, Upper Circular Road, Calcutta-9.

GUHA, Dr. Bires Chandra, M.Sc. (Cal.), Ph.D., D.Sc. (Lond.), Dean, Faculty of Technology, Calcutta University. b. 7th June 1904; *Educ.*: Calcutta, London and Cambridge; noted for his researches in Biochemistry with special reference to food and nutrition; on loan to the Govt. of India in the Food Department as Chief Technical Adviser, July 1944-June 1947; Member, Damodar Valley Corporation (1948-53); Ex-Counsellor, UNESCO; President of the Chemistry Section of the Indian Science Congress (1945); ex-Pres., Assoc. of Scientific Workers of India; member: International Ctee. for Biochemistry, 1949-54; ex-President, Institution of Chemists (India); Govt. of India delegate to the International Congress of Biochemistry, Brussels (1955); member: Indian Univ. delegation to Moscow Univ. (1954); Council of the National Institute of Sciences of India; Chairman, Nutrition Advisory Ctee. of the Indian Council of Medical Research; Ghose Professor of Applied Chemistry, Calcutta University. *Publications*: Numerous scientific publications on biochemical and nutritional subjects. *Address*: 55/5, Manohar Pukur Road, Calcutta 29.

GUHA, Mr. Justice Braja Kanta, B.A. (Calcutta), I.C.S., Judge, High Court, Calcutta, since 1949. b. July 3, 1900; *Educ.*: High School, Hallakandi (Assam); Presidency Coll., Calcutta; Brasenose Coll., Oxford. Asst. Magistrate and Collector, Bengal; Under-Secy., Finance Dept., Bengal Secretariat; District Judge, Bengal; Judicial Secy. and Legal Remembrancer, and Secy., Legislative Dept., Bengal; Relief Commissioner, Bengal. *Recreations*: Gardening; Horticulture. *Club*: Asiatic Society, Calcutta. *Address*: P15, Garisbat Road, Calcutta 29.

GURJAL, Satish, Govt. Diploma in Art (1944), Diploma in Advance Painting, Mexico (1954), Painter. b. Dec. 24, 1925; *Educ.*: The Mayo School of Arts, Lahore; J. J. School of Arts, Bombay; Palacio Nacional de Bellas Artes, Mexico City, and at various art workshops at New York, Paris and London. Served for some time as the Art Executive, Punjab State Govt., and also as Vice-Principal, Govt. School of Arts, Simla; went to Mexico on a Mexican Govt. Fellowship; studied and travelled extensively in central and north America, and in Western Europe, for three years; held one-man-shows in Delhi, Bombay, Mexico City, New York, and London; won Academy Awards, 1956, 1957. Is now engaged on various mural projects with the Govt. of India. *Publications*: Articles on art and culture in Indian and Mexican journals. *Recreations*: Reading. *Clubs*: Delhi Shipi Chakra. *Address*: 33, Hanuman Road, New Delhi-1.

GULABCHAND Hirschmand, Industrialist. b. 1894, at Sholapur; Educ.: Sholapur, Poona and Bombay. Chairman: The Premier Construction Co. Ltd.; Walchandnagar Industries Ltd.; The Walchandnagar Sugar Farm Ltd.; Walchand & Co. Private Ltd.; Indian Sugar Mills Assoc., 1953-54; Deccan Sugar Factories Assoc., 1942-43, 1947-48 and 1951-52; Deccan Sugar Technologists' Assoc., 1951-52; member: Bombay State Sugarcane Ctee.; Indian Central Sugarcane Ctee.; Development Council for Sugar Industry; Central Ctee. for Food Standards; Standing Advisory Ctee. on Sugar Standard; Minimum Wage Central Advisory Board; Bombay State Wage Board for the Sugar Industry and also Central Wage Board for the Sugar Industry; visited U.K., the Continent and U.S.A., 1950, 1951, 1954 and 1958; sentenced to 18 months' R.I. and fined Rs. 20,000 for breaking the restrictions placed on him during 1932 political movement. *Address*: Construction House, Wittet Road, Ballard Estate, Bombay 1.



GUNDEVI, H.E. Yendarnad Dinshaw, B.A. (Hons.) (Philosophy) (Bom.), I.C.S., High Commissioner for India in Ceylon, since 9th April, 1957. b. June 19, 1908; *Educ.*: Matriculated from: Bards New High School, Bombay; graduated from Wilson Coll., Bombay; called to the Bar from Middle Temple, London. Entered the I.C.S., 1931; took over first appointment in the U.P., 1931; served in various districts as Joint Magistrate and Asst. Settlement Officer; Addl. Collector, Gorakhpur, 1937-39; Collector and Magistrate, Mirzapur and Farrukhabad, 1939-45; Secy. to Representative of the Govt. of India in Burma, 1945-47; Counsellor in the Embassy of India, Rangoon, 1948; Joint Secy. and Controller-General of Emigration, Ministry of External Affairs, 1948-50; Minister-Counsellor, Moscow, 1950-53; Ambassador Extraordinary and Plenipotentiary for India in Switzerland and also Minister Plenipotentiary and Envoy Extraordinary in Austria and the Holy See, 1953-54; Dy. High Commissioner for India in U.K. with rank of Ambassador, 1954-57. *Address*: C/o External Affairs Ministry, New Delhi.

GUPTA, Bhupesh, B.A., (Calcutta), LL.B. (Lond.), Barrister at-Law, M.P. (Rajya Sabha), Member, Editorial Board, *New Age*, weekly organ of the Communist Party of India; Member, National Council and Central Executive Committee of the C.P.I.; Secy., National Council. b. Oct. 1914; *Educ.*: Calcutta and London Universities, Middle Temple; passed Intermediate and B.A. examinations while in detention without trial in Berhampore Detention Camp, 1938-36. Has been a whole time political worker. *Publications*: A critique of the Second Five Year Plan and of political pamphlets. *Address*: 64A, Lower Circular Road, Calcutta 16; 13D, Feroz Shah Road, New Delhi.

GUPTA, Chandra Bhanu, M.A., LL.B., Ex-Minister for Industries, Planning, Health and Civil Supplies, U.P. Govt. b. July 14, 1902; *Educ.*: Lucknow University. Started practicing Law, 1925; member, A.I.C.C. since 1928; elected to the Court and the Council of Lucknow Univ., 1927; was elected its Hon. Treasurer, 1947; elected to the Municipal Board, Lucknow, 1928; elected Pres., Dt. Congress Ctee., Lucknow, 1929-44; Member, U.P.P.C.C., since 1926; elected to U.P. Legislative Assembly, 1937; elected again to the U.P. Legislative Assembly, 1946; Parliamentary Secretary to the Chief Minister, U.P., 1948-47; Food & Civil Supplies Minister, U.P. Govt., 1947-57; took over Health Portfolio, 1948-57 and Planning and Industries Portfolios, 1954-57; courted jail for Congress activities in 1930, '31, '32, '33, '40 and '42. *Address*: Rajendra Mansion, Pandariba, Lucknow.

GUPTA, D. D., Deputy Speaker, Bombay Leg. Assembly. b. Nov. 1909, at Nagpur; Educ.: Tilak Vidyalyaya and Science Coll., Nagpur; Banaras Hindu Univ. Started participating in National Movement from early childhood; joined National Movement and jailed for a year, 1930; organised students under the National Students' Assoc. which was later merged with the All-India Students Federation at Lucknow, 1935; imprisoned in 1941 and 1942; actively participated in the promotion of Physical Culture Movement at Nagpur; Organiser, Nagpur Akhada Sangh; Pres., Maharashtra Physical Education Conference; was running a School for Harijan boys, 1933; Secy., Nagpur Nagar Congress Committee, 1937-39; Secretary, Nagpur Provincial Congress Ctee., 1939-40; Vice-Pres., Nagpur Nagar Congress Ctee., 1940; Pres., 1940-47; led the National Movement of Nagpur, 1941-42; edited Marathi weekly 'Prakash', 1936; edited 'Congress Samachar' a Provincial Congress Weekly, 1939-40 and 'Vikas', 1946-47; elected M.L.A. from Nagpur constituency in the First General Elections, 1952; Minister for Social Welfare, Madhya Pradesh, Feb. 1952-Oct. 1956; Delegate to Social Workers' Welfare Conference in Toronto (Canada), 1953 and to I.L.O. Conference in 1955. Labour Minister, Reorganised Bombay State, 1956-57; Chairman, Bombay Village Industries Board, Bombay. Publications: Booklets on constructive activities and two dramas 'Gokul Ka Chor' and 'Dhanya Ke Marga Par'. Address: Council Hall, Bombay 1.

GUPTA, Hansraj, M.A., L.L.B., Managing Partner, H. G. Gupta & Sons, Managing Agents of Delhi Iron Syndicate (Private) Ltd., [Hansraj Gupta & Co. (Private) Ltd.,



Raj Engineering Works (Private) Ltd. and Central Distillery and Chemical Works Ltd., Meerut b. 1903. Director: Raj Electrical Works Private Ltd., Raj Gupta Building Construction Private Ltd., Rohitak & Hissar Dist. Electric Supply Co. Ltd., Hissar, Pratap Bank Ltd., Delhi. Regd. Stockholders (1 & 8) Assn. Private Ltd., Indian Hardware Industries Ltd., Amrit Vansapati Co. Ltd., Bharat Kala Kendra Pr. Ltd., Sterling General Insurance Co. Ltd., Motor & General Finance Ltd., etc.; Director-in-Charge: Rampur Engineering Co. Ltd., Rampur; Delhi Iron & Steel Stockists (C.S.) Assn. Pr. Ltd.; Pres., All India Iron & Steel Stockholders' Federation. Address: 20, Barakhamba Road, New Delhi.

GUPTA, Ram Gopal, Business man. Director: Beharilal Pancha Cotton Mills Ltd.; Lakshmiratan Cotton Mills Ltd., Aurangabad Mills Ltd., Cannon Dunkerley & Co. Ltd., Indian Sugar Refineries Ltd., and other commercial and industrial institutions; undertook a world-wide tour in 1939-40 and continental tour in 1948-49. Recreations: Music, sport and travelling. Address: Behari Niwas, Kanpur; Empire House, Hurnby Road, Fort, Bombay.

GUPTA, Ram Ratan, Politician and Industrialist. b. Sept. 21, 1906. Entered business at the early age of 13 with control over the concerns of Beharilal Ramcharan, especially their import, export and banking departments; works hard for a comprehensive industrialisation of India on modern lines; staunch nationalist; started public life at the age of 20; joined Congress, 1925; was Pres. and Vice-Pres., Local Congress Ctee. for several years; courted imprisonment during the 1929 and 1932 Civil Disobedience Movements; on return from jail, went on a world tour including England where he represented the case of Indian commerce and industry before the

Select Ctee. for Indian Constitutional Reforms; elected unopposed to the Central Legislative Assembly, 1943; President, All-India Youth Conference, 1943; travelled all over the world, thrice; went to Australia as member of the Indian Trade Delegation, 1945 and East Asiatic countries several times; attended Pacific Relations Conference, New York, September 1958; member: Executive Ctee., Federation of Indian Chambers of Commerce; All-India Organisation of Industrial Employers; International Chamber of Commerce; Chairman, Beharilal Ramcharan Charitable Trust; has contributed generously to various public causes, institutions and charities; founder of several industrial concerns, viz., Lakshmiratan Cotton Mill Co., Ltd.; India Supplies Engineering Works Ltd.; The India Thermit Corporation Ltd.; The Glass and Miniature Bulb Industries, Kanpur; Engineering Works of India Private Ltd., Calcutta; Lakshmiratan Engineering Works; Beharilal Ramcharan Cotton Mills, Bombay; Aurangabad Mills; Lakshmiratan Engineering Works (Faridabad) Delhi, etc. Promoter and for two years Pres., Merchants' Chamber, I.P.; U.P. Stock Exchange Association Ltd.; one of the founders (now Vice-Pres.) of Employers' Assoc. of Northern India, Kanpur. Publications: 'World Before the Second Great War in Hindi' (two volumes); 'Times for Decision in English'; 'Thema on Co-operative Commonwealth in 1949'. Recreations: Travelling, Writing and Riding. Address: Behari Niwas, Kanpur.

GURUSWAMI, S., B.A., General Secretary, All-India Railwaymen's Federation. b. Sept. 29, 1901; Educ.: Tiruchirappalli, Madras State. One of the founders of the All-India Railwaymen's Federation, has been connected with Railway Trade Union movement since 1924; Indian Workers' Delegation, I.L.O., 1934; member, Central Legislative Assembly, 1946-47; member, Raja Sabha, 1952-54; Pica Southern Ry. Employees' Union; member: Indian Railway Inquiry Ctee., 1948; Virajajam Harbour Labour Ctee., 1949; Dearness Allowance Merger Ctee., 1952; Vice-Chairman, I.L.O. Inland Transport Ctee., Geneva, 1951; Workers' Delegate, I.L.O. Inland Transport Ctee., Geneva, 1954; visited Europe, Canada, U.S.A., Mexico, China, Burma, Philippines, Thailand, etc. for studying workers' conditions. Recreations: Social work. Address: Madras 4.

GWALIOR: Lt.-Gen. His Highness Sir Jivajirao Scindia, Maharaja, Mukhtar-ul-Mulk, Asim-ul-Iqtidar, Rafiush-shan, Wala Shikoh, Mohat-Asham-Dauran, Umdat-ul-Umara, Maharajahdhiraj, Hissam-us-Saltanat, Alijah Bahadur, G.C.S.I. (1946), G.C.I.E. (1941), Malik-i-Muazzam-i-Rafi-ud-Darja-i-Inglistan, Maharaja of; was Raj Pramukh of Madhya Bharat till the merger of the State into M.P. in Nov. 1956. Chancellor, Banaras Hindu University; was the first Chancellor of Vikram Univ., Ujjain. b. June 26, 1910. Educ.: Privately under distinguished tutors; passed Matriculation Examination in Second Division of Ajmer Board; attended Victoria Coll., Gwalior; received Settlement and Revenue Training at Lyallpur (Punjab); administrative training at Bangalore and Military training at Poona and Bombay; President, Chess Club of India, Bombay. Recreations: Motoring, Big game shooting, Riding, Tennis and Reading. Clubs: Jivaji Club, Gwalior; The Koshanara Club, Delhi; The Royal Western India Turf Club, Bombay; The Willington Sports Club, Bombay; The Rotary Club, Gwalior. Address: Jai Vilas Palace, Gwalior.

HADFIELD, Philip, Business man; Deputy Managing Director, East India Distilleries & Sugar Factories Ltd.; Vice-Chairman, Parry & Co., Ltd.; Director: The Travancore Sugars & Chemicals Ltd., Cauvery Sugars & Chemicals Ltd.; St. James's Industries. b. July 21, 1906; Educ.: Haileybury Coll. Arrived in Madras, 1927; worked with Walker & Co., Ltd., until 1930; joined Parry & Co., as

General Assistant; joined the Board, 1956; Ctee. Member, Indian Sugar Mills Assoc., since 1933; Pres., 1958. Address: C/o Parry & Company Ltd., Post Box No. 12, Madras 1.

HADJI VASSILIOU, His Excellency Nicolas, L.L.B. (Athens), L.L.M. (Paris), Ambassador of Greece to India, since Oct. 24, 1957; concurrently accredited to Afghanistan, Ceylon, Indonesia, Thailand and Burma. b. 1905; Entered the foreign service, 1930; during the first ten years of his diplomatic career, specialised in economic negotiations, held several posts in the Greek missions in Paris, 1936-41; Charge d'Affaires to Spain, 1941-46; Principal Private Secy. to the Foreign Minister, 1946-47; accredited to the Lebanon, Syria, Iraq and Jordan, 1947-50; Head of the Division for Economic Affairs at the Foreign Ministry, 1951; Permanent Representative to International Organizations in Geneva and to the Council of Europe in Strasbourg, 1952-55; participated in or presided over Greek Delegations to practically all international conferences held in Geneva, Strasbourg and Paris, 1952-55; presided over various international gatherings in Geneva and the Committee of Ministers of the Council of Europe in Strasbourg at the deputy level; Ambassador on Special Mission to the twenty Latin-American Republics, 1956. Address: Royal Greek Embassy, Ashoka Hotel, New Delhi.

HAILE SUASSIE, H.E. Imru, Order of the Seal of Solomon, G.C.O. Solomon, G.C.O. Star of Ethiopia, Lt. Com. O. Solomon, Lt. Com. O. Trinity, Com. De La Legion D'honneur of France, C.B.E. of Great Britain, G.C. Flag of Yugoslavia etc., Ethiopian Ambassador in India. b. Nov. 1892, Educ.: Menelik II School in Addis Ababa. Deputy-Governor, Harar Province, 1918-29; Governor: Wollo Province, 1929-32; Goffam Province, 1932-35; C-in-C, Ethiopian Army on the Shire Front during the Italo-Ethiopian War, 1935-36; was later C-in-C of all Ethiopian Forces in the fight against the Italians for one year; was captured and imprisoned in Italy; freed by the Allies, 1943; appointed Governor-General, Beguendir and Smen, May 17, 1944; Minister Plenipotentiary and Envoy Extraordinary of His Imperial Majesty to Washington, 1946-49; Ambassador Extraordinary and Plenipotentiary of His Imperial Majesty to Washington, July 1949-March 1953. Club: Gymkhana Club, New Delhi. Address: Imperial Ethiopian Embassy, 29, Prithviraj Road, New Delhi 2.

HAJARNAVIS, Ramchandra Martand, B.Sc., L.L.B., Deputy Minister for Law, Govt. of India. b. Feb. 24, 1908; Educ.: Patwardhan High School, Nagpur; Morris Coll., Nagpur & Univ. Coll. of Law, Nagpur; Advocate, Bombay High Court & Supreme Court; Lecturer in Constitutional Law & Equity, Univ. Coll. of Law, Nagpur (1951-54); Head of the Dept. of Studies in Law, Nagpur Univ. (1954); Treasurer, Univ. of Nagpur (1956); Pres., Bidi Kamgar Sangh (1941-49); Chairman, Janata Co-operative Housing Society since 1956; Councillor, Corp. of Nagpur (1955). Publications: 'Law of Agricultural Tenancy & Village Service Lands in the Central Provinces' (1948). Recreation: Gardening. Club: Gondwana Club, Nagpur. Address: 12, Tughlak Lane, New Delhi.

HAKSAR, His Excellency Sunder Narain, M.A., B.Sc., Indian Ambassador in Afghanistan, since May 1957. b. Dec. 4, 1909; Educ.: St. Stephen's Coll., Delhi. Joined the I.C.S., 1933; served in various capacities in the Punjab; transferred to the Indian Foreign Service, 1948; Councillor in Embassy at Cairo, 1948-49; Joint Secy., Ministry of External Affairs, 1950-March 1953; Minister in Embassy at Washington, Aug. 1953-Sept. 19, 1954; Ambassador at Ankara, Nov. 1954-Nov. 1956. Clubs: Delhi Gymkhana Club; National Sports Club of India, New Delhi. Address: C/o External Affairs Ministry, New Delhi.

HALDANE, John Burdon Sanderson, M.A. (Oxon.), D.Sc. (Groningen), Dr. (Paris), LL.D. (Edin.), Fellow, Royal Society; Darwin Medal, Royal Society; Research Professor, Indian Statistical Institute. b. Nov. 6, 1892; *Educ.*: Oxford Preparatory School; Eton Coll., Oxford Univ. Soldier, 1914-19; Reader, Cambridge, 1922-32; Professor, London, 1933-57; has conducted research in biochemistry, genetics, statistics, comparative psychology, etc.; Corresponding Member: Soviet Academy of Sciences; Nat. Inst. of Sci., India; Humboldt Academy (German Democratic Republic); Royal Danish Academy of Sciences, etc. *Publications*: Over 20 books and over 200 scientific papers. *Recreations*: Swimming; change of work. *Address*: Indian Statistical Institute, 203, Barrackpore Trunk Road, Calcutta 35.

HALDULKAR, Ramakant Kesheerao, General Secretary, All India Forward Bloc, since 1955. b. Jan. 4, 1916; at Bijkawra Village, M.P.; *Educ.*: Nagpur; Hindi Bhushi High School; City Coll., Nagpur. Arrested on 11th Nov. 1934 in connection with the Mitalbadi Bomb Case and was released after an undertrial period of 7 months on 4th May 1935 without conviction; started first Trade Union in coal mine area of Chhindwara Dist., June 9, 1940; secured various awards for mine workers; took active part in the freedom movement and imprisoned on several occasions; joined the All India Forward Bloc formed by Netaji Subhash Chandra Bose, 1939; is Pres., M. P. Mine Workers' Union and various trade unions; was Vice-Pres., A I T.U.C.; resigned owing to political differences between the C.P.I. and the A. I. Forward Bloc, Aug. 15, 1958; *Address*: General Secretary, All India Forward Bloc, Subhash Ward No. 2, Chhindwara, Madhya Pradesh.

HAMED, Dr. K. A., B.Sc., M.A., Ph.D. (Berlin), F.C.S., F.S.C.I., F.R.I.C. (Lond.), Member, American Chemical Society, F.I.A.C. (Ind.), J.P.; M.L.C. Bombay; Hon. Prof., Aligarh Univ.; Fellow, Bombay Univ. b. October 31, 1898; *Educ.*: Graduated in Science from Allahabad University in 1920. Joined the non-co-operation movement started by Mahatma Gandhi in 1920 and worked in the Congress Volunteer Corps, 1921; when Mahatma Gandhi laid the foundation of the National Muslim Univ., Aligarh, joined the staff of the National Muslim



University, Aligarh, as Reader in Chemistry; was inmate of the Sabarmati Ashram during 1922 and all along took an active part in the fight for freedom; in 1924 when Mahatma Gandhi stopped the non-co-operation movement, he left for Europe for higher studies and joined the Berlin Univ. where he worked under Professors Rosenheim, Nernst, Haber, Spranger and Freundlich; obtained Doctorate from Berlin Univ., 1927 and stayed several years in Europe for study of chemical and pharmaceutical industry; settled down in Bombay in January 1931; soon established a business in chemical and pharmaceutical products; in 1935 started a public limited company, under the name Chemical, Industrial & Pharmaceutical Laboratories, Ltd., briefly known as "Cipla" which has progressed very rapidly and is the Chairman and Technical Expert of this Company; under 1935 Constitution, was elected to the Bombay Legislative Council in 1937, as an independent candidate against Mr. Jinnah's Muslim League candidate; has been member of the Council for over 20 years and always stood by the Congress; Director of several firms in Bombay; President, Indian Chemical Manufacturers' Association, 1945-48 and 1949-50; Leader of the Indian Chemical Delegation to U.K. and U.S.A., 1945-46; Sheriff of Bombay, 1952-53;

Member: Governing Body of the Council of Scientific & Industrial Research; Standing Advisory Cttee. for Industries, Bombay; Cttee. of Indian Chemical Manufacturers' Assn.; Pharmaceutical & Drugs Cttee., Govt. of India; Pharmaceutical Development Council, Govt. of India; Bombay State Industrial Research Cttee. and Standing Cttee. of Pilot Plants, Bombay. *Address*: 289, Bellasis Road, Byculla, Bombay.

HANNA, John Bassett, B.Sc., Petroleum Engineer, Managing Director, Standard Vacuum Refining Co. of India Ltd., since 1957. b. April 24, 1911; Educ.: Univ. of Pittsburgh, Pittsburgh Penna. Joined Esso Standard Oil Co., 1935; joined Standard Vacuum Oil Co., 1952, as Refinery Manager, Durban So. Africa Refinery; made Managing Director of same Refinery, 1954. *Recreations*: Golf, Swimming, Fishing. *Clubs*: Bombay Presidency Golf Club. *Address*: Stanvac Nagar East, Trombay, Bombay.

HANUMANTHAIA, Kengal, B.A., LL.B. Ex-Chief Minister, Govt. of Mysore. b. 1908; *Educ.*: Maharaja's College, Mysore and Law College, Poona; took B.A. degree, 1930 and LL.B., 1932. Pres., Bangalore City Municipal Council, 1942; Secy., 1940-41 and Leader, 1945-49, Congress Party in the Mysore Representative Assembly; was Deputy Leader, Congress Party, Mysore Constituent Assembly, 1948-49; was Pres., Bangalore Dist. Congress Cttee. for 10 years; imprisoned seven times during freedom struggle, member: National Cadet Corps Cttee.; member, Executive Cttee. of the Congress Party in Parliament; represented India at the Inter-Parliamentary Union Conference held at Stockholm, 1949 and at Dublin, 1950, was member, Indian Parliament; Pres., Mysore Pradesh Congress Cttee., 1950-52; Chief Minister, Mysore, March 1952-Sept. 1959; re-elected to Mysore Leg. Assembly, 1957. *Address*: Gollarpet, Bangalore.

HARVEY, Marcus Francis Spencer Cronin, Lieut.-Commander, R.N.R.L. (Retd.), Master Mariner (F.G.), Royal Naval Reserve Decoration (1943), Member of the Hon'ble Company of Master Mariners (1947) and the Institute of Navigation (1919), Fellow, the Royal Geographical Society (1953), Associate, the Institution of Naval Architects (1955), Warden, Company of Master Mariners of India (1957); Captain Supdt., Training Ship "DUFFERIN", since 1945 b. July 16, 1907; *Educ.*: Wadhvani House, Hove, Sussex; Nautical Coll., Pangbourne; Merchant Navy (1924-31); Royal Naval Reserve (1927-50); Merchant Navy Training Ship (1932-57). *Clubs*: Royal Bombay Yacht Club; Bombay Gymkhana; United Services Club. *Address*: Training Ship "DUFFERIN", Mazagon Pier, Bombay 10.

HASAN, Dr. Eadil, B.A. (Hons.) (Cantab.), Ph.D. (Lond.), Retired Professor of Persian, Muslim Univ., Aligarh. b. Sept. 3, 1894, at Hyderabad-Dccan. Educ.: St. Xavier's Coll., Bombay; Emmanuel Coll., Cambridge; School of Oriental Studies, London. Has delivered over 100 Extension Lectures in the Senate Halls of various Indian Universities; Honorary Visiting Professor at Santiniketan; Honorary Member of the Iranian Academi, Teheran. *Publications*: *Studies in Persian Literature*, 1923; *A History of Persian Navigation*, London, 1928; *Falaki Shurani*, London, 1928; *Diwan-i-Falaki*, London, 1929; *Unique Dream of Falaki in Madras, Islamic Culture*, 1950; *Mughal Poetry*, Hyderabad Govt. Press, 1952; *Unique Dream of the Emperor Humayun*, Islamic Culture, 1953; *Kah, His Life, Times and Works*, 1954; *Diwan-i-Kah*, 1955; *Essays in Persian* (financed by the Indian Council of Cultural Relations and Govt. of Iran, 1956); Persian translation of *Shakuntala*, published by the Indian Council of Cultural Relations, 1956; *Original Researches in Persian Literature and Culture*. *Recreations*: Public speaking and collecting funds for the proposed Medical College and Hospital at Aligarh. *Address*: 'Lalazaar,' Fort Road, Aligarh.

HASEEN, Masruul, M.A., LL.B., Chairman, Public Service Commission, U.P., since Jan. 1955. b. July 12, 1900; Educ.: Islamic High School, Etawah; M. O. Coll., Aligarh; Aligarh Muslim Univ. Joined the Bar at Etawah, June 1923; was Member & Senior Vice-Chairman, Etawah Municipal Board, 1925-32; elected M.L.A., U.P., 1937 for Etawah and Kanpur Districts, 1937; re-elected from the same constituency, 1946; elected Deputy Speaker, U. P. Assembly, Aug. 15, 1946 and Speaker, 1950; elected M.L.A., U.P. from Aligarh City in the general elections, 1952; resigned on appointment as member, U.P. Public Service Commission, May 1952. *Recreations*: Tennis; Golf. *Clubs*: Cosmopolitan Club, Allahabad (Pres.); Allahabad Golf Club (Secy.). *Address*: 10, Stanley Road, Allahabad.

HATHI, Jaisukhlal, Deputy Minister for Irrigation and Power, Govt. of India, since Sept. 12, 1952. b. Jan. 19, 1909. Passed Law Exam. while serving as a teacher in Saurashtra High School, Rajkot. Enrolled as Advocate, Bombay High Court; sometime Dist. & Sessions Judge, Rajkot State; elected member, Constituent Assembly, 1946-47; was member, Provisional Parliament; appointed ad hoc Chief Secy., 1st ad hoc Congress Ministry, Saurashtra, Feb. 1948; was Secy. in-charge of the election organization of the Saurashtra Congress Cttee. in the first general elections; returned to the Rajya Sabha from Saurashtra; served as one of the whips of the Congress Party in the Rajya Sabha; returned to the Lok Sabha in the second general elections. *Address*: New Delhi.

HAZARIKA, Jogendranath, M.A., LL.B. (Calcutta), Parliamentary Secy. to the Minister for External Affairs—Tribal Affairs since Aug. 1952. b. Feb. 1924; *Educ.*: M. V. & M. R. Schools, Tengakhat; Govt. H.B. School, Dibrugarh; I. A. at Cotton Coll., Gauhati; B.A. at Ripon Coll., Calcutta, Calcutta Univ. Was Editor of 'Nayak'—a monthly Assamese Magazine, for several years; was Secy., Assam Tribal League Standing Cttee.; organized 'Village Defence Voluntary Forces', during Japanese War; formed 'Tribal League Home Guards' for internal security and safety, 1947; was member, Parliamentary Standing Cttee. of Education, and Transport (both for Roads and other than Roads); Ex-Officio Member, Assam Road Transport Communication Board; member, Parliamentary Delimitation Cttee. for Assam; Convener, Assam State Group Cttees. and Tribal Affairs Standing Cttee. of the Congress Party in Parliament. *Publications*: Brochure: *Twenty-five Million Souls of Tribal India and the Constituent Assembly*, 1946. *Club*: Foreign Relations Society, New Delhi. *Address*: Dibrugarh (P.O. Tengakhat); New Delhi.

HEBBAR, Kattigeri Krishna, Artist. b. June 15, 1912; Educ.: General Christian High School, Udipi, S. Kanara; Sir J. J. School of Art, Bombay and Academy Julian, Paris. Held one-man shows in India, London, Paris and Switzerland; travelled extensively in Europe, U.S.S.R. and Poland; member, Lalit Kala Akademi, New Delhi; Winner of several important top awards in exhibitions; paintings in museum in India, Europe. *Publications*: *Hebbar Drawings and Paintings* (Nalanda Publications, Bombay). *Address*: Sunshine, 81, Cadell Road, Mahim, Bombay 16.

HEGDE, Dr. K. K., M.B.B.S., Minister for Health, Mysore, since May 1958. b. June 1907 in Kedanje Village, S. Kanara Dist.; Educ.: M.B.B.S. from the Madras Medical Coll., 1936. Started private practice in Mangalore, 1939; represented the South Kanara Dist. Board in the Madras Univ. Senate, from 1953; Pres., S. Kanara Dist. Board, 1954-57; elected M.L.A., Mysore, 1957. *Address*: Bangalore.

HEGDE, Mr. Justice Kewdeer Sadananda, M.A., B.L. (Madras), Judge, High Court of Mysore. b. June 11, 1909; Educ.: St. Aloysius Coll., Mangalore; Presidency Coll., Madras; Law Coll., Madras. Advocate from 1936; Public Prosecutor and Govt. Pleader, Aug. 1947-Sept. 1951; Member of Parliament, April 1952-Aug. 1957; represented India in the United Nations as an alternate delegate, 1954. Address: Judge, High Court of Mysore, Bangalore 1.

HEJMADI, Vasudev Subhas, B.A. (Hons.) (Bombay), B.A. (Cantab.), I.C.S., Chairman, Union Public Service Commission, since 1955. b. Jan. 26, 1900; Educ.: Elphinstone Coll., Bombay; Gonville and Caius Coll., Cambridge. Joined the I.C.S., 1923 and worked as sub-Collector and Collector in various districts; Dy. Secy., Development Dept., 1940; Secy., Revenue Dept., Madras, 1943-47; Provincial Textile Commissioner, 1947; Member, Board of Revenue, Madras, dealing at different periods with Civil Supplies, Abolition of Estates and Famline Relief, 1947-53; Adviser, Programme Administration, Planning Commission, New Delhi, Sept. 1953-55; served for a short period as Secy., Planning Commission, 1955; International Commissioner for Bharat Scouts and Guides. Recreations: Tennis, Golf, Shooting. Clubs: Cosmopolitan Club, Madras; Presidency Club, Madras; Gymkhana Club, Delhi; Golf Club, Delhi. Address: 10, York Road, New Delhi.

HEWAMEN, Smt. Meena, B.A. (Hons.) (Lond.), Principal, Ethiraj Coll. for Women, Madras, since 1953. b. Aug. 25, 1899; Educ.: Bedford High School and Westfield Coll., London; King's Coll., and Maria Grey Trg. Coll., London, 1924. Languages: Latin, French, Urdu, Hindi, Tamil and English. Prof. of English, Kinnaird Coll., Lahore and Women's Christian Coll., Madras; member: Senate, Univ. of Madras, since 1930; Syndicate and Academic Council, Madras Univ., since 1936; Leg. Council, Madras, 1937-52; Hon. Pres. Magistrate (J.P.) and Pres., Juvenile Court, since 1930; member: Film Censor Board, Madras; Rly. Consultative Ctee., Madras; Rly. Ctee. of Catering; Suburban Rly. Ctee.; State Library Ctee.; State N.C.C. Advisory Ctee.; ex-Chairman and now member, Bharat Sevak Samaj Camp Ctee., Madras; travelled in Italy, Switzerland, France, the British Isles, Canada, U.S.A., Mexico, China, Ceylon, Pakistan, Burma, Russia and throughout India; was member, Rajya Sabha, 1952-56; Pres., Federation of Univ. Women in India, 1957-59; Delegate to the U.N. General Assembly, 1957. Publications: Articles of current interest. Recreations: Music (piano); writing and correspondence; walking; reading. Address: 12, Victoria Crescent, Madras 8.

IDAYATULLAH, Mr. Justice M., B.A., (Nagpur), B.A. (Cantab.), Barrister-at-Law, O.B.E. (1949), Judge, Supreme Court of India, since Dec. 1, 1958. b. Dec. 17, 1905; Educ.: Govt. High School, Raipur (1922); Phillip's School, Morris Coll., Nagpur (1926); B.A. 2nd order of merit, Malak Gold Medalist, Trinity Coll., Cambridge (1927-30), English and Law Tripos, Lincoln's Inn, Bar-at-Law (1930). President, Indian Majlis, Cambridge (1929); Advocate, Nagpur High Court (1930-46); Lecturer, University College of Law (1936-43); Government Pleader (1942-43); Advocate-General, Madhya Pradesh (1943-46); Punes Judge (1946); Acting Chief Justice (1954); member, Nagpur Municipal Committee (1932-33); member, Nagpur Improvement Trust; member, Nagpur University Executive and Academic Councils Court, etc. (1934-53); Dean of the Faculty of Law, 1946-53; member, Nagpur Bar Council, 1943-46; Chief Commissioner, Madhya Pradesh Bharat Scouts and Guides, 1950-53. Vice-Pres., National Council, Bharat Scouts and Guides, 1952; member,

Faculty of Law, Saugor Univ.; Univ. Court, Vikram Univ. and Aligarh Muslim Univ. (1954); Chief Justice, Nagpur High Court, Dec. 3, 1954-Oct. 31, 1956; Chief Justice, M.P. High Court, Nov. 1, 1956-Nov. 30, 1958. Publications: Miscellaneous papers. Address: New Delhi.

KIRAY, Bhagwan alias Bhansabab Sakharam, B.A., LL.B. (First Class), was Minister for Revenue and Agriculture, Bombay, April 1952-Oct. 1956; President, Maharashtra Provincial Congress Ctee., 1948-52; was member, Congress Working Ctee. b. March 1, 1905; Educ.: Nasik upto Matric; Baroda upto B.A.; Poona Law College for LL.B. Began practising at Malegaon, Dist. Nasik; took to Social and Co-operative activities immediately; was elected to District Local Board, 1934 and Bombay Provincial Assembly on Congress ticket, 1937; was Parliamentary Secy. to Home and Revenue Depts.; resigned with Congress Ministries; was convicted for Satyagraha, 1940 and was detained for 15 months, 1942; was elected to Central Assembly in 1945; was Chairman, Reception Ctee., 56th Session of The Indian National Congress held at Nasik, Sept. 1950; is a social worker and Congress worker; M.L.A., Bombay. Address: P.O. Malegaon, Dist. Nasik.

KOME, Amal, Journalist & Author; has been Chief Information Officer, Damodar Valley Corporation. b. November 10, 1893, at Calcutta; Educ.: Calcutta Univ., received training in journalism, under Ramananda Chatterjee. Served under Surendra Nath Banerjee in the *Bengales*, 1915-17; Asst. Editor: the *Punjabi* and the *Tribune*, Lahore, 1917-20; *Independent*, Allahabad; *Indian Daily News*, Calcutta, 1920-24; Editor, "Calcutta Municipal Gazette", 1924-48; Dir. of Publicity, West Bengal, 1948-52; acted as Editor, the *Tribune* during Martial Law in the Punjab, 1919; was also connected with the *Hindustan Standard*, the *Nationalist*, the *Orient Illustrated Weekly* and the *India Monthly Magazine* as Magazine Editor, Literary Editor or Columnist; Served on the Governing Body of the *Vishva-Bharati*, Executive Ctee. of the *Bangiya Sahitya Parishad*; planned and organised the Tagore Septuagenary Celebration, 1931 and the Newspaper Court at the All India Exhibition, Calcutta, 1948. Publications: *Rammohun Roy The Man and his Work*; *Some Aspects of Modern Journalism in India*; *Tagore Memorial Volume*; *Purushottam Rabindranath* (A monograph on Tagore in Bengali). Address: 169/B, Raja Dinendra Street, Calcutta.

MUSLIN, Dr. Iqbal, M.A., B.L., Ph.D., Professor and Head of the Deptt. of Persian, Patna Univ., since 1944; Dean of the Faculty of Arts. b. Nov. 22, 1905; Educ.: Patna and Law Colleges, Patna; Univ. Friseman, Gold Medalist and Research Scholar; first Ph.D. of Patna Univ. Entered Bihar and Orissa Educational Service, 1935; Lecturer, 1935-38; Asst. Prof., 1938-44; nominated by H.E. the Chancellor to be a Fellow, Patna Univ., 1943-48; Member of Senate, Patna Univ.; member: Syndicate, 1954-55; Academic Council and Faculties of Arts and Law, Patna Univ.; examiner up to Ph.D. and D.Litt. of Indian Univ.; member: Bihar Madrasah Examination Board, 1938-44 and 1952-58; Governing Body, Madrasah-i-Shamsul Huda; Managing Ctee., Khuda Baksh Oriental Public Library; Language expert of the Bihar Hindustani Ctee.; representative of the Patna Univ. to various sessions of the All-India Oriental Conference; founder member, Editorial Board, Patna Univ. Journal; representative of Patna Univ. in the Indian Council of Cultural Relations, Govt. of India. Publications: *Tahya-i-Sami*; *The Early Persian Poets of India and Selected Quotations of Urf*. Address: Warden's House, Ganesh Road, Patna 5.

MUSLIN, Saliyd Khosham, M.A. (Urdu), Gold Medalist, Urdu Critic; Reader in Urdu, Lucknow Univ. b. July 11, 1912; Educ.: Wesley High School, Azamgarh (U.P.); Govt. Intermediate Coll., Allahabad; Allahabad Univ., Allahabad; took M.A. in Urdu, 1936. Appointed in the Pargana and Urdu Deptt., Lucknow Univ., 1938; appointed Fellow of the Rockefeller Foundation (U.S.A.) to study 'Sociology & Literary Criticism' in U.S.A. & Europe, Sept. 1952-July 1953; member, Sahitya Akademi and Hindustani Academy. Publications: *Vireney*; *Tangidi Jees*; *Rang-e-Aur Baghawet*; *Adab Aur Samaj*; *Tangid Aur Amali Tangid*; *Sang-e-Adab Aur Shoor*; *Sahit aur Samundar*; *Urdu Sahitya Ka Itihaz*; *Urdu Ki Kahani*; *Hindustani Lisan-e-Ka Khaka*, *Tangidi Nazariyat*. Club: University Staff Club, Lucknow. Address: Lucknow University, Lucknow.

MUSLIN, Syed Rafiq, B.A. (Hons.) (Oxon.), Barrister-at-Law of Lincoln's Inn, Dypt. Commissioner for Small Scale Industries and ex-officio Jt. Secy. to the Govt. of India, Ministry of Commerce & Industry, since 1957. b. March 21, 1908; Educ.: Magdalen College, School, Oxford and Oriel College, Oxford. Lecturer in History and Political Science and Reader in Economics, Aligarh Muslim Univ., 1927-28, 1930-34; Senior Lecturer at Mayo College, Ajmer, 1934-38; Practised at the Bar 1938-42; Information Officer, Govt. of India, 1942; various posts in the Ministry of Education, 1942-57 (including First Secretary, Education Dept.); First Secy., Education Dept., Indian Embassy, Washington, 1948-50; Jt. Educational Adviser and Jt. Secy., Govt. of India, 1953-57. Publications: Various articles in different journals and newspapers and *The Spirit of Islam*. Recreations: Cultural activities and gardening. Address: Ministry of Commerce & Industry, New Delhi; Sitapur (U.P.).

MUSLIN, Dr. Zakir, M.A., Ph.D. (Berlin), D.Litt. honoris causa (Delhi, Calcutta & Aligarh), Padma Vibhushan (1954), Governor of Bihar, since July 6, 1957. b. Feb. 8, 1897, at Qaim Gunj, Dt. Farrukhabad, U.P.; Educ.: Islamic High School, Kiawah (U.P.); M.A.O. Coll., Aligarh; Univ. of Berlin. Vice-Chancellor, Jamia Millia, Delhi (1926-48); Pres., Hindustani Talimi Sangh, Sevagram, 1928-50; Vice-Chancellor, Aligarh Muslim Univ. (1948-56); Chairman: International Students Service, India Ctee. till 1955; World Univ. Service, Geneva, 1955-57; Central Board of Secondary Education till 1957; Basic National Education Ctee., 1937; Member: Univ. Grants Commission, till June 1957; Rajya Sabha, till 1957; Exec. Board, UNESCO, Paris, 1956-58; Univ. Educ. Commission, 1948-49; Indian Press Commission; Educational Reorganisation Ctee. of Bihar, U.P. & M.P. Publications: *Shiksha* (Hindi); *Capitalism: An essay in Understanding*; translation into Urdu of *Plato's Republic*; *Fr. List's National System of Economics*; *Edwin Cannan's Elements of Economics*; Lectures on the scope and method of Economics (Hindustani Academy, U.P.); *Educational Discourses* (Urdu). Hobby: Gardening. Favourite pastime: Reading. Address: Jamianagar, New Delhi; Raj Bhavan, Patna (Bihar).

HYDERABAD; Nawab Mir Osman Ali Khan Bahadur Nizam-ud-Daula, Nizam-ul-Mulk, Asaf Jah, Nizam of b. April 6, 1886; Educ.: Privately. Ascended the post, August 29, 1911; is entitled to a salute of 21 guns; was Rajpramukh of Hyderabad till its disappearance as a State in Nov. 1956. Address: Hyderabad.

IRANDE, Mada Mohd., B.A., LL.B., Minister for Irrigation and Power, Govt. of India, since April 1958. b. 1889; *Educ.*: Aligarh Muslim Univ.; Univ. of Allahabad. Practised as an Advocate at Nagina, Bijnor and Moradabad for over 21 years; inquired into the affairs of National Arabic Univ. (Dar-ul-Ulum), Deoband; elected member, U. P. Leg. Council, 1926 and joined Swaraj Party; since then continued to be member, U. P. Legislature till appointment as Minister for Irrigation and Power, Govt. of India; worked for the organisation of Muslim Waqfs of U.P.;



opposed the White Paper proposal, 1934; appointed Minister in the first Congress Cabinet of U.P., 1937; resigned from the Ministry on the decision of the Congress Working Committee, Nov. 1939; sentenced to one year, 1940-41; detained, Aug. 1942; has fought vehemently for Hindu Muslim unity and accord; one of the main founders, Muslim Majlis, 1943; convened All India Muslim Conference under the presidency of Maulana Azad at Lucknow, which called upon the Muslims of the country to give up communal politics, 1947; Minister for Finance, Power, Industries, Irrigation, Public Works, Forests and Co-operation Depts., U.P., 1957-59 and then 1948-April 1958; is member, A.I.C.C., Working Committee, Central Parliamentary Board and U.P. Congress Committee. *Address*: 4, King Edward Road, New Delhi.

IRAM, Mr. Justice Syed Jafar, B.A., LL.B. (Cantab.), Bar-at-Law, Judge, Supreme Court of India, since Jan. 10, 1955. b. April 18, 1900; *Educ.*: Lymans Preparatory School, Oxford; Malvern Public School, England; Trinity Coll., Cambridge Univ.; called to the Bar, Middle Temple, Jan. 28, 1922. Enrolled as Advocate, Patna High Court, March 1923; Asstt. Govt. Advocate, 1932-39; Advocate-General, Bihar, 1942-45; Judge, Patna High Court, 1948-53; Chief Justice, Patna High Court, Sept. 3, 1953-Jan. 9, 1955. *Clubs*: Bankipore Club, Patna; Boat House Club, Maini Tal, U.P. *Address*: No. 8, York Road, New Delhi.

INDORE: Her Highness Shrimati Sahasrayawati Maharani Indirabai Holkar, Educ.: Privately. Takes keen interest in charitable institutions and is connected with Ahilya Sadan of Indore, Rajawade Historical Research Institute, Ramdas Research Institute of Dhulia, Maharashtra Sahitya Parishad, Vedic Research Society of Poona, Dharmakosha Karyalaya of Wal, All-India History of Indian Philosophy, Village Uplift and the Red Cross Society. Managed the Educational, Medical, Charitable and Household Depts. of the State during 1923-24. Chairman, Reception Committee, A.I.W.C. Silver Jubilee Session held at Poona, May 1953. *Address*: Shree Wasudeobag, Indore.



INDORE: Major-General M. H. Maharajadhiraj Raj Bahadur Sawai Shree Yashwantrao Maharaj Bahadur, G.O.I.E. (1955), LL.D., Maharaja of. b. Sept. 6, 1908; *Her. &* (by Gazette Extraordinary, 1950), Usha Raj Bahadur, b. 1933; *Educ.*: England, 1920-23; Christ Church, Oxford, 1926-29. Succeeded to the gadi, 1926; assumed full ruling powers, 1930; has a salute of 21 guns within his territories and 19 outside; invited delegate to the Round Table Conference, 1931; was Senior Up-Rajpramukh of the Madhya Bharat State, till its merger in M.P. in Nov. 1956. *Recreations*: Tennis and Shikar. *Address*: Indore.

INDRA, Vidyavachaspati, Sahityavachaspati, M.B.A.S., Journalist; Vice-Chancellor, Gurukula Univ. b. Nov. 9, 1889; *Educ.*: Gurukula Univ., Kangri. Pres., Hindi Newspapers Assoc., 1938; Chairman, Reception Committee, National Convention, 1936; Pres., International League, 1955-57; was member, Rajya Sabha. Professor, Editor and Public worker. *Publications*: Books on Indian History, Politics and Fiction in Hindi. *Recreations*: Gardening, Music. *Address*: Gurukula University, Kangri, Harwar.

INVERAN, Manjeri Sundararaman, Writer in English (Free Lance), b. June 16, 1910, *Educ.*: Presidency Coll., Madras; took B.A. degree, 1929. Has been engaged purely in literary journalism and creative and critical writing, since 1931; edited a monthly called 'The Short Story', 1933-34; has been Asstt. Associate, and Deputy Editor of *Trocent*, now issuing as a Quarterly from Masulipatam, Andhra Pradesh; is a member on its Advisory Board; Literary Editor, *Suvasmitra*, June 1953-Sept. 1955. Currently, is Secretary to the Book Industry, Council of South India, Madras, and Editor *Book News Publications*: English: (Poetry) *Saffron and Gold* and other Poems (1932); *Altar of Flowers* (1934); *Outings* (1940); *Brief Orisons* (1941); *Penumbra* (1942); *Song of the Gipsy Maiden* (Translation of an old Tamil poem) (1945); *The Fourth Ascent* (1946); *Obituary* (1950); *Rhapsody in Red* (1954); *The Nymph to a Lady* and other poems (1957); Criticism: *Venkataraman—Writer and Thinker* (1932); Drama: *Yama and Yami* (1948); Fiction: (Short Stories): *Naked Skinkies* (1941); *Angry Dust* (1944); *Stone Rain* (1945); *Kishanmullah* (1946); *Fancy Tales* (1947); *Ne Anilabells for Her* (1949); *Immersion* (1951); *Painted Tigers* (1956); *A Madras Admiral* (1958); In Tamil: *Kolu* (1944); *Singers* (1946). *Recreations*: Carpentry and Interior decoration. *Address*: 10, Pachaiyappa Hostel Road, Kilpauk, Madras 10.

IYER, Dr. Krishnaswamy Kilara, Ph.D. (Wisconsin), A.I.I.Sc., I.D.D. (Hons.), Director, National Dairy Research Institute, Karnal, since Jan. 30, 1957. b. June 26, 1920. *Educ.*: Indian Dairy Diploma (Honours) 1939-Gold Medalist; B.Sc. (Microbiology) 1942-First Class, St. Xavier's Coll., Bombay; A.I.I.Sc. 1944-Fermentation Technology; Ph.D. in agricultural bacteriology and dairy industry; as Govt. of India scholar at Univ. of Wisconsin, 1948. Dairy Bacteriologist and Head, Dairy Bacteriology Division, I.D.R.I., Bangalore, 1948; organised bacteriological research laboratories, supervised research programmes on important bacteriological aspects of milk and milk products handling; Founder-member and Vice-Pres., Indian Dairy Science Assoc.; member, Dairy Science Committee, and other Scientific Committees, I.C.A.R., I.C.A.E., I.A.I.; Editor, 'Indian Journal of Dairy Science'; member, Commonwealth Agricultural Bureau; Rotarian; Govt. delegate, F.A.O. Conference on Hydrogen Peroxide, Interlaken, Switzerland, Sept. 1957. *Publications*: Over 40 Scientific papers and 15 popular articles; *Address*: Director, National Dairy Research Institute, Karnal (Punjab).

IYENGAR, K. R. Srinivasa, M.A., D.Litt., University Professor of English, Andhra Univ., Waltair, since June 1947. b. April 17, 1908; *Educ.*: Hindu College, Tinnevely; St. Xavier's College, Palamcottah. Taught in Ceylon (1923-31); Professor of English, Lingara College, Belgium (1933-44); Vice-Principal, Basaveshwar College, Bagalkot (1944-47); toured U.K. on the invitation of the British Council, 1951. *Publications*: *Lycton Strachey: A Critical Study*, 1938; *Indian Administration* (with Prof. S. S. Basavanna), 1939; *S. Srinivasa Iyengar: The Story of a Decade of Indian Politics*, 1939; *Indo-Anglian Literature*, 1943; *Literature and Authorship in India*, 1943; *Sri Aurobindo*, 1945; *The Indian Contribution to English Literature*, 1946; *A New Deal for Our Universities*; *The Mind and Heart*

of Britain, 1955, and other books; contributes articles and reviews to leading Periodicals and Newspapers. *Recreations*: Walking. *Address*: *Residence*: University Campus, Uplands, Waltair; *Vacation Add.*: 'Aravind', Kodakannur P.O., Tirunelveli District.

IYENGAR, Mahur Srinivasa Thirumala, B.E., M.E. (Hons.) (Madras), M.I.E. (Ind.), Chief Engineer, Hiraakud, since June 1953. b. Dec. 1, 1897; *Educ.*: Central Coll., Bangalore; Coll. of Engineering, Guindy, Madras. Appointed to the Indian Service of Engineers, 1920 and posted to the Madras P.W.D.; has carried out investigation of a large number of irrigation projects in South India like Tungabhadra multi-purpose Project, 1940-42; has been in charge of construction of a big barrage across the Coleroon river, improvement of Cauvery Irrigation System, etc.; was Prof. of Mechanical Engineering for a brief period at Coll. of Engineering, Guindy; took over as Chief Engineer, Tungabhadra Project, 1949; successfully completed it; participated in various national and international technical conferences and societies; ex-Vice-Pres., International Commission on Large Dams; ex-Pres.: Institution of Engineers; Central Board of Irrigation and Power. *Publications*: Contributions to various technical journals. *Address*: 'Asoka', Subramanyam Road, Abhiramapuram, Madras-18.

IYENGAR, Mr. Justice Narayana Varadaraja, B.A., M.L., Judge, High Court of Kerala. b. April 13, 1899; *Educ.*: Pattamadai High School, Pattamadai Village, Tinnevely Dist.; Maharaja's Coll., Trivandrum; Law Coll., Trivandrum. Enrolled as advocate, Travancore High Court, 1923; member, Faculty of Law, Travancore Univ. and Kerala Univ. *Recreations*: Reading, Gardening. *Address*: Chittur Road, Ernakulam.

IYER, Kanakhavur Senha Khambaru, Managing Director, National Small Industries Corporation Private Ltd., New Delhi, since 1956. b. March 12, 1909; *Educ.*: Bangalore. Joined Dr. N. S. Hardikar, founder, the Hindustan Seva Dal and a Volunteer Organisation of the Indian National Congress, 1925, was in charge of training volunteers in Karnatak, Punjab, Bihar, Sind and Bombay; as in-charge of the Volunteers' Organisation of the Indian National Congress at Lahore, trained the Nucleus of the Red Shirts in Peshawar and Rawalpindi, Oct. and Nov. 1939; joined the 'Indian Daily Mail' as Reporter, 1932; was Political Correspondent, 'Bombay Chronicle'; Public Relations Officer, Bombay Govt., 1938-44; in charge of Publicity and Public Relations, Textile Commissioner's Office, Bombay, 1944; Secy., All India Handloom Board and Deputy Textile Commissioner, 1952-55. *Address*: Flat No. 1 (D-I Type), Diplomatic Enclave, New Delhi.

IYER, Mr. Justice K. R. Ramaswami Seshasath, B.A., LL.B., Judge, High Court of Mysore, since July 11, 1957. b. Dec. 30, 1907; *Educ.*: Central Coll., Bangalore; Law Coll., Poona. Enrolled as an Advocate, Feb. 3, 1930; also Advocate, Supreme Court; Advocate General, 1950-53. *Address*: 'Annappurna', High Grounds, Bangalore 1.

IYER, Mr. Justice P. V. Balakrishna, B.A. (Hons.) (Madras), M.A., I.C.S., Judge, High Court of Judicature, Madras, since 1949. b. Sept. 26, 1900; *Educ.*: St. Joseph's High School, Pavaratty; St. Joseph's Coll., Trichy; Law Coll., Madras. Topped the list in the I.C.S. competition in India, 1923; Asstt. Collector, Madras; Sub-Collector, Sivakasi, Channargiri and Rajahmundry; Dist. & Sessions Judge, Anantpur, Salem, Trichy, Tinnevely, S. Arcot and Madras; was Secretary to the Govt. of Madras in the Legal Department and as such drafted a number of Acts including the Zamindari Abolition Act. *Recreations*: Tennis; Gardening. *Address*: 'Granleigh', Greenways Road, Adyar, Madras.

IYER, Sangeetha Kalanidhi Musiri Subrahmaniam, Carnatic Musician; Principal, Central Coll. of Karnataka Music, Madras. *b.* 1889 in Musiri, Tiruchi Dist. *Educ.*: Took initiation in Carnatic music from the late Vidwan Nabasa Iyer. Settled in Madras, 1919; recorded a dozen songs, 1932; is an authority on Thyagaraja compositions; has a distinct style and originality of his own, popularly known as the "Musiri style"; acted the title role in the film "Tukaram"; Pres., annual conference of the Madras Music Academy, 1939; won the President's award for the best Carnatic musician (vocal) for 1957; is a leading exponent of the Karnata Sampradaya Sangeetha in India and one of the prominent living masters of Sasthreeya Sangeetha in South India. *Address*: 18, Oliver Road, Mylapore, Madras.

IYER, Mr. Justice Subrahmanya Ramachandra, B.A., B.L., Judge, High Court, Madras, since Jan. 31, 1958. *b.* Oct. 1, 1904; *Educ.*: Pachappa's Coll., Madras; Law Coll., Madras. Enrolled as advocate, Madras High Court, Aug. 1927; practised on the appellate and original sides of that Court and in the various District courts; enrolled as Advocate, Supreme Court, Jan. 1951. *Address*: 5, North Mada Street, Mylapore, Madras 4.

IYER, Tiravarur Pichu Iyer Subrahmanyam, M.A. (Madras), Registrar, University of Delhi, since 1947. *b.* March 6, 1900; *Educ.*: Govt. High School, Tiruvavur; Presidency Coll., Madras. Was temporarily employed in Govt. Offices and Indian Bank Ltd., Madras, till 1924; joined Delhi Univ. as Personal Asst. to the first Vice-Chancellor, late Sir Hari Singh Gour; Asst. Registrar till 1947. *Publications*: Some articles in Journals and Magazines. *Recreations*: Tennis; Badminton. *Club*: University Club, Delhi. *Address*: University Buildings, Delhi 8.

IYER, V. R. Krishna, B.A., B.L., Minister for Law, Kerala, since 1957. *b.* Nov. 15, 1915; *Educ.*: Govt. Victoria Coll., Palghat; Annamalai Univ., Law Coll., Madras; took B.L. degree in 1937. Enrolled as an Advocate, 1938; practised at Tellicherry till April 1957; won the Rt. Hon'ble Srinivasa Sastri Prize in Annamalai Univ. for proficiency in English; elected to the Madras Leg. Assembly, 1952; elected to the Kerala Assembly, as Independent candidate, 1957. *Address*: Trivandrum.

JADHAV, Mrs. Mary Chabwala, A.T.C.I., Padma Shri (Jan. 26, 1955), M.L.C., J.P., Social Worker. *b.* June 10, 1908, at Wellington, Nilgiris; *Educ.*: Nazareth Convent, Ootacamund. Interested in social work since 1932; Vice-Pres., Discharged Prisoners' Aid Society; Madras Branch of the All India Women's Conference; Meals for Million Foundations in India; Madras Parsi Anjuman and Managing Trustee of the Jal Phiroj Darmeher; Chief Commissioner, Guides (India); was the first International Commissioner (Guides), India and State Commissioner, Guides; ex-Vice-Pres., Indian Conference of Social Work; is Hon. Gen. Secy., Indian Conference of Social Work; Hon. Secy.; Madras Vigilance Assoc.; All India Women's Food Council, Madras State Branch; Founder/Hon. Secy., Madras State Branch of the Indian Conference of Social Work, since 1944; U.N. Correspondent on Prevention of Crime and Treatment of Offenders; member: Permanent Cttee. of the International Conference of Social Work; After Care Cttee. of the Central Social Welfare Board; Cttee. on Public Co-operation, Planning Commission; Soldiers' Sailors' and Airmen's Board; is connected with about 150 organizations; raised over Rs. 1½ crores for welfare work by organising entertainments, etc.; travelled widely in India, U.S.A., Canada, Australia, Thailand, Burma, etc.; has attended many international conferences like International Conference of Red Cross held in India, 1950, International Conference of Social Work in Tokyo, 1958; invited as the first voluntary worker in India under the Exchange of Leader Specialists Programme by the U.S.A. and delivered over

300 lectures. *Publications*: Several articles on organizations and persons in India and abroad in connection with Children's work. *Clubs*: Ladies' Recreation Club; Madras Gymkhana Club; Madras Boat Club; Madras Cricket Club; Delhi Gymkhana Club, Delhi. *Address*: "Philroy", Nungabakkam High Road, Chetpet, Madras 51.

JAGANNATHAN, K. V., M.A., Vidwan, Vazhessa Kalanidhi, Sentamil Selvar, Tamil Essayist; Editor, *Kalaimagal*, *b.* April 13, 1906; *Educ.*: Kulitalai and Madras. Member: Sahitya Akademi. *Publications*: Eight volumes of short stories in Tamil; several volumes of literary essays and research, a collection of poems, altogether 92 books in Tamil. *Recreations*: Bhajan. *Address*: Kaanta Malai, Kalyannagar, Madras 28.

JAGDISH SARKI, Mr. Justice, M.A., LL.B., Judge, High Court, Allahabad, since May 6, 1957. *b.* May 19, 1909; *Educ.*: Theosophical National School; Benares Hindu Univ., Banaras; B.A. in 1929; LL.B. in 1931 and M.A. in 1932 from the Allahabad Univ. Started practice in Shahjahanpur, 1933; shifted practice to Allahabad High Court, Dec. 1945. *Address*: High Court, Allahabad.

JAIN, Ajit Prasad, M.A., LL.B., Minister for Food and Agriculture, Govt. of India, since Dec. 1954; Advocate. *b.* 1902; *Educ.*: Lucknow University. Took part in all Civil Disobedience movements from 1930 onwards; M.L.A. (U.P.), 1937-48; Parliamentary Secretary, 1937-39; Member: Constituent Assembly of India, 1946-50; A.I.C.C. for a long time; Member, Zamindari Abolition Cttee., U.P., Special Recruitment Board for I.A.S., I.P.S., etc; Minister for Rehabilitation, Govt. of India. *Publications*: U.P. Tenancy Act (Commentary on) and miscellaneous contributions to several publications on agrarian and land problems. *Address*: Ambala Road, Saharanpur; New Delhi.

JAIN, Jaichand, M.A., General Manager, Bennett, Coleman & Co., Ltd., since March 1950; Sheriff of Bombay, 1957-58. *b.* Oct. 20, 1911; *Educ.*: Hindu Coll., Delhi; Govt. Coll., Lahore. Represented Western India Life Ins. Co., Ltd. of Natara as Chief Agent & Branch Manager for Punjab, 1935-42; Dalmia Cement Ltd., Oct. 1942-May 1944; General Manager, Bharat Insurance Co., Ltd., June 1944-March 1950; Pres.: All India Federation of Master Printers, 1953; Audit Bureau of Circulations Ltd., 1953; Pres., Indian and Eastern Newspaper Society, 1954-55; Chairman, Press Trust of India, 1957-58; Pres., Natya Sangh, Bombay. *Publications*: Research thesis—post-Ranjit Singh period. *Recreations*: Indoor games; Travel. *Clubs*: Chelmsford Club & Roshanara Club, Delhi; National Sports Club, C.I.T., Radio Club, Orient Club, Rotary Club, Willingdon Sports Club, Bombay Gymkhana and Turf Club, Bombay. *Address*: 75, Walkeshwar Road, Bombay.

JAIN, Jinender Kumar, Partner, Giralal & Co., Bombay, doing import, export business and the sole distributors for the States of Bombay and Madhya Pradesh of bicycles manufactured by the Hindusthan Vehicles Ltd., Patna; *b.* July 10, 1933; *Educ.*: Delhi (B.A. Hons.), Bombay (LL.B.) and New York (Master of Business Administration). Has travelled extensively in the United States, the United Kingdom and the Continent; was a delegate to the United Nations, non-Governmental Organizations, Conferences held in Bombay and Colombo, 1954 and 1956 respectively; has

always been a leader among the students; was General Secy., Govt. Law Coll. Union, Bombay; Pres., India Students' Assoc. of America, New York, for 1958. *Address*: Giralal & Co., 480, Kalbadevi Road, Bombay 2; 4251, West Irving Park Road, Chicago 41, Illinois, U.S.A.

JAIN, Shanti Prasad, B.Sc., Industrialist. *b.* 1912 at Najibabad, Dt. Bijnor, U.P.; *Educ.*: Benares Hindu Univ. and Agra Univ. Has two decades of close association with and



knowledge of working and management of important industries like Cement, Sugar, Paper, Coal, Chemicals, Vanaspathi, Asbestos Cement Sheets, Cycles, and controls a chain of such industries situated in Bihar, under the managing agency of Sahu Jain Ltd., and Jute Mills in West Bengal; a keen student of Economics and Finance and deeply interested in statistical studies; strives for and believes in all-round industrial development through Indian enterprise for improvement in the people's standard of living; visited the Dutch East Indies (1936), Australia (1945) and U.S.S.R. (1954) as member, Indian Trade and Industrial Delegations; also visited the European countries, U.S.A., Canada, Japan, Norway, Sweden, etc.; associated with various Govt. Advisory Bodies and Industrial Organizations; President: Rajasthan Chamber of Commerce and Industry, Jaipur; Bihar Industries Assoc., Patna; Eastern U.P. Chamber of Commerce & Industry Ltd.; Vice-President, Indian Chamber of Commerce, Calcutta; Ex-Pres., Federation of Indian Chambers of Commerce and Industry, New Delhi; All-India Organisation of Industrial Employers, New Delhi; Indian Sugar Mills Assoc., Calcutta; Indian Paper Mills Assoc., Calcutta; Employers' Assoc., Calcutta; Chairman and Director: Sahu Jain Ltd., Rohas Industries Ltd., The Punjab National Bank Ltd., Hindusthan Vehicles Ltd., Ashoka Cement Ltd., Bennett, Coleman & Co., Ltd., The Jaipur Udyog Ltd.; and Director: National Industrial Development Corporation Private Ltd., New Delhi; Founder, Bharatiya Jnan Peth (Academy), Benares. *Address*: 11, Olive Row, Calcutta.

JAIN, Sahu Shajyans Prasad, Industrialist; ex-M.P. (Rajya Sabha), 1952-54, *b.* 1908 in the Sahu family of Najibabad (Ganesh Sadan), renowned for its traditional liberality and public service; has rendered invaluable services to the people of his town and district; has given large sums in charity and takes keen interest in all matters of social reform and public enlightenment; has done pioneering work in the field of girls' education, seva Samitis and public libraries for the welfare of his district in particular and the State in general; President, Education Committee of the District Board, Bijnor; and Vice-Chairman, Municipal Board, Najibabad, for many years; has outstanding executive ability and a knack for big business; Chairman: Dhrangadhra Chemical Works Ltd.; Director: The New Kaiser-i-Hind Spg. & Wvg. Co. Ltd.; The Raymond Woolen Mills Ltd.; Carona Sahu Co. Ltd.; The Dawn Mills Co., Ltd.; Podar Mills Ltd.; Bennett, Coleman & Co., Ltd.; Assoc. of Indian Trade and Industry; Radio Lamp Works Ltd.; The New Swadeshi Mills of Ahmedabad Ltd.; The Amritabh Textile Mills Ltd.; Sahu Rubbers Private Ltd.; Director: Gopal Investors Corp., Pvt. Ltd.; The Premier Construction Co., Ltd.; The Gwalior Rayon Silk Manufacturing Co., Ltd.; Cttee. member: Indian Merchants' Chamber, Bombay; Federation of Indian Chambers of Commerce and Industry, New Delhi; Millown-



rrs' Assoc., Bombay; member: Indian Industrial Delegation to the U.S.A., the U.K. and the Continent, sponsored by F.I.C.C.I., 1957; member, Bombay Telephone Advisory Cttee.; Trustee, Bombay Hospital Trust; a leading figure in the Jain Community; patronizes a number of important institutions and reform schemes; specially interested in giving the community and the country its first full-length documentary films of ancient Jain Art and Architecture; ex-President, All-India Digamber Jain Parishad, Delhi. Address: "Shikharanj," 29-A, Carmichael Road, Malabar Hill, Bombay.

JAIN, Takhtmal (See under Jalori, Takhtmal).

JAIPUR: Lt.-General His Highness Saranad-ji-Rajadai Hindustan Raj Rajendra Shri Maharajadhiraj Sir Sewai Man Singh Bahadur, G.C.S.I., G.O.I.E., LL.D., Ruler, former State of Jaipur and head of the Kachhawa clan of Rajputs. b. August 21, 1911, adopted s. of Lt.-General Maharaja Sir Sewai Madho Singh Bahadur, G.C.S.I., G.O.I.E., G.B.E., LL.D., whom he succeeded on Sept. 7, 1922 and assumed full Ruling Powers, March 14, 1931; celebrated the Silver Jubilee in Dec. 1947; Educ.: Mayo College, Ajmer; Royal Military Academy, Woolwich. Holds the rank of Hon. Lt.-General in the Indian Army; Hon. Col. 61 Cavalry, and Raj Rifles (Sawai Man Grenadiers); commissioned in His Majesty the King's Life Guards (1939); attended Staff College course at Quetta, 1943; entitled to a permanent salute of 17 guns and to a local salute of 19; hereditary member, Court of the Benares Hindu Univ.; Pres., General Council, Mayo Coll., Ajmer and the Indian Polo Assoc.; Trustee, Victoria Memorial, Calcutta; Patron, Indian Gymkhana Club, London; National Horse Breeding and Show Society, Delhi; C. O. I. Ltd.; Rajputana Cricket Club, Ajmer; Aero Club of India and Burma; Jaipur Flying Club; Jaipur Medical Assoc.; Northern India Amateur Boxing Assoc.; Vice-Patron, R.L.N. Benevolent Assoc., New Delhi; Life Member and Vice-Pres., Indian Rifle Club, England; Founder-Member, International Club of India; member, General Council of the King Edward Hospital and Medical School, Indore; became Rajpramukh of Rajasthan in 1949, on the integration of Rajputana States and continued as Rajpramukh till the institution was abolished on Nov. 1, 1956; is an international Polo player and in 1933 took his Polo team to England where it achieved exceptional success setting up a record by winning all open tournaments; led Indian Polo team which won Gold Cup at International Championships in Deanville in 1957. Recreations: Polo, Tennis, Shooting and Flying. Clubs: Marlborough, Life Guards, Cavalry, Hurlingham, Roehampton (London), Jaipur, Willingdon Sports Club, Ootacamund (Nilgiris), Jodhpur Flying, W.I.A.A., Bombay. Address: The Palace, Jaipur.

JAIPURIA, Seth Mungra Ram, Millowner, Merchant, Financier. b. 1901, of the famous Jaipuria family of Nawalgarh (Rajasthan); Chairman, Swadeshi Cotton Mills Co. Ltd., Kanpur; Director and/or Managing Director of many Joint Stock Companies which own Cotton Textile Mills, Staple Spinning Mills, Vegetable Ghee Factory, Collieries, Oil Mills, Rolling Mills, Mica and China Clay Mines, Real Properties, Silk and Art Silk Mill, Plastic Factories, Sugar Mills, etc. Managing Director, Jaipuria Brothers Ltd., Calcutta; Director, Hindustan Mercantile Bank Ltd., Hercules Insurance Co., Ltd., Textile Machinery Corporation Ltd., Jay Shree Tea Gardens Ltd., National Insurance Co. Ltd., Aluminium Corporation (India) Ltd., Hindustan Motors Ltd., General Assurance Society Ltd., Jaipuria Properties Ltd., Ganesh Sugar Mills Ltd., Shree Anand Sugar Mills Ltd.; member, Cttees. of various Chambers of Commerce including Indian Chamber of Commerce, and Indian Sugar Mills Assoc., Calcutta; Member: Central Advisory Council for Industries set up by the Govt. of India; Uttar Pradesh

Govt. State Planning Board; Cotton Textile Loan Advisory Cttee. of M.I.D.C.; Founder, Seth Anand Ram Jaipuria Inter Coll., Anandnagar (Dist. Gorakhpur), Seth Anandram Jaipuria Coll., Calcutta and Seth Anandram Jaipuria Eye Hospital, Nawalgarh (Rajasthan), in memory of his father; founder of and donor to, a large number of Educational and Charitable Institutions; greatly interested in social reform. Address: Swadeshi House, Civil Lines, Kanpur, U.P.; Jaipuria House, 51, Vivekananda Road, Calcutta.

JALAN, Babu Lal, Business man. b. Feb. 15, 1908. Senior partner of Soorajmull Nagarmull; Chairman: General Assurance Society, Ltd., The Oriental Gas Co., Ltd., The Bombay Gas Co., Ltd., The Elphinstone Spg. & Wvg. Mills Co., Ltd., Asian Ltd., London; Director: East India Jute & Hessian Exchange Ltd., Aluminium Corporation of India, Ltd., Bengal Jute Mills Co., Ltd., International Shipping Co., Ltd., Calcutta Gas Co. (Proprietary) Ltd., Rungamattos Tea Company Ltd., Telipara Tea Co., Ltd., North Bengal Sugar Mills Co., Ltd., Atlas & Union Jute Press Co., Ltd., Jute Baling & Trading Co., Ltd., Northern Bengal Jute Trading Co., Ltd., Orient Jute Trading Co., Ltd., India Exchange Ltd.; Ex-Pres., Bharat Chamber of Commerce, Indian Commerce Assoc. and Indian Commerce Conference; Pres., Indian Hemp Assoc.; member: Cttees. of the Federation of Indian Chambers of Commerce & Industry, Calcutta Baled Jute Assoc., Calcutta Hydraulic Press Assoc., Indian Chamber of Commerce, Indian Commerce Assoc., Advisory Board of the Bharat Sevak Samaj, West Bengal, Inland Water Transport Cttee. and Implementation Cttee. of the Flood-affected areas in West Bengal, etc.; was nominated member, Trade Delegation to Denmark and Sweden, etc.; Publications: Rs. 40,000 million-a-Year Self-help Scheme and World Corporation of Investment Insurance; Food Problem in India. Recreations: Rural welfare and social work. Clubs: Several Clubs. Address: Soorajmull Nagarmull, 8, Dalhousie Square (East), Calcutta.



JALAN, Iswar Das, M.A., B.L., Attorney-at-Law, Minister for Law and Local Self-Govt., West Bengal, since 1952. b. 1895; Educ.: Muzaffarpur and Calcutta. Solicitor; Councillor, Calcutta Corporation, 1927-30; member: Bengal Legislative Assembly, 1938-47; West Bengal Legislative Assembly, since 1947; Speaker, West Bengal Legislative Assembly, 1947-52. Address: 47, Zakaria Street, Calcutta 7.

JALAN, Nandkishore, Business man and Industrialist. b. March 8, 1921; Educ.: Privately under distinguished Professors of Calcutta Univ. and educationists. Entered business at the early age of 18; took over charge of Moon Mills, Ltd. (Cotton Mill), Bombay, 1944; took charge of Oriental Gas Co., Ltd., Calcutta and Bombay Gas Co., Ltd., Bombay, 1941; Partner, Soorajmull Nagarmull; now looks after the management of the oil, export, cotton mills, jute mills and gas departments of Soorajmull Nagarmull as also the Bengal Jute Mill Co., Ltd., Moon Mills Ltd., the Elphinstone Spg. and Wvg. Mills Co., Ltd., and the Bombay Gas Co., Ltd., is responsible for starting production in India of gas lamps hitherto available only by import; Chairman: Calcutta Jute Fabrics Shippers' Assoc.; Trustee, Howrah Improvement Trust; co-opted several times as a Cttee. Member of the Indian Chamber of Commerce, Calcutta; Director: Bombay Gas Co., Ltd.; Asiatic Textiles Co., Ltd.; Moon Mills Ltd.; W. H. Harton & Co., Ltd.; J. K. Chemicals Ltd., etc.; Life-member, Indian Red Cross Society. Clubs: National Sports Club of India; Calcutta South Club; Bengal Rowing Club (Cttee. member); Royal Calcutta Turf Club; 800 Club; Cricket Club

of India; National Cricket Club; Calcutta Club Ltd. Address: Soorajmull Nagarmull, 8, Dalhousie Square (East), Calcutta.

JALORI, Takhtmal, General Secy., Indian National Congress, since Aug. 10, 1958. b. 1895, at Basoda. Practised at the State Bar, 1913-43; Secy. and Pres., Gwalior State Pleaders' Conference; member, Working Cttee., Gwalior State Congress, 1939; Pres. Bharat Jain Maha Mandal; Convener, first meeting of Public Workers of Gwalior State, which resulted in the formation of State Congress; the first non-official Minister for Rural Welfare and Local Self-Govt., Gwalior State; resigned, 1942; again appointed Minister as Congress nominee, 1947; Founder, Trustee, Chairman or Vice-Chairman of several educational institutions; started various institutions at Bhilai such as Vyayamshala, Sarvajnik Library at Vidisha, etc.; was Finance Minister in the Responsible Govt. in Gwalior State, 1948 and later in Madhya Bharat State, 1949; Chairman: Transport Nationalisation Cttee., Madhya Bharat, 1949; Harijan Disabilities Enquiry Cttee.; Chief Minister, M.B., 1950-52 and April 1955-Oct. 1956; Pres., Madhya Bharat P.C.C., 1953; Chairman: M.B. Land Reforms Cttee., 1954; Cttee. for the removal of disparity of pay scale of Govt. employees, M.B. Govt., 1954; Commerce, Industries & Agriculture Minister, M.P., Nov. 1, 1956-Aug. 1958. Address: General Secretary, All India Congress Cttee., New Delhi.

JAMES, Mr. Justice Basil Reginald, B.Sc., I.C.S., Judge, High Court, Allahabad, since Aug. 1954. b. 1904; Educ.: B.Sc. degree from Allahabad Univ., 1924; passed both I.C.S. and I.F.S. Competitive Examinations; selected the I.C.S., and went to Cambridge for Probation; obtained first class throughout his academic career. Entered Service in U.P., Nov. 1927; after serving as Magistrate for five years selected the Judicial Branch of the I.C.S.; Dis. & Sessions Judge in many Districts of the U.P., 1935-54. Recreations: Classical Music; Cricket; Golf, Allahabad Golf Club (Captain); Clubs: Allahabad Y.M.C.A. (Pres.); Allahabad Dist. Sports Assoc. (Pres.) Address: 9, Thornhill Road, Allahabad, U.P.

JAMMU and KASHMIR, Yuvraj Karan Singh Ji, M.A., Sadar-i-Riyasat of b. March 9, 1931, at Cannes, France;



Educ.: Upto Senior Cambridge at Doon School, Dehra Dun, Dec. 1945; Intermediate as a Private Student from Allahabad Univ., 1947; B.A. as a Private Student from Jammu and Kashmir Univ., 1951; M.A. (Political Science) as a private student from Delhi Univ., 1957. Chancellor, Jammu and Kashmir Univ.; took over as Regent, i.e., Constitutional Head of the State, June 20, 1949; elected the first Sadar-i-Riyasat (Head of the State), by the Legislative Assembly, Nov. 17, 1952; elected Sadar-i-Riyasat a second time, Nov. 6, 1957. Recreations: Indian Classical Music; prolific reading particularly Political Science and Philosophy; Tennis, Chess. Address: The Palace, Srinagar (Jammu and Kashmir State).

JAMSHEDJI, Jai, Managing Director, Noble Paint & Varnish Co. Private Ltd. b. March 24, 1911; Educ.: Elphinstone Coll.; obtained technical training at Victoria Jubilee Technical Institute, Bombay, 1933. Founded Noble Paint & Varnish Co., one of the leading paint factories in India; has been responsible for the quick growth of his paint concern; celebrated the silver Jubilee of his paint concern in 1959; also manufactures "Hammerlac" and "Polychromatic"

JAMSHEDJI, Jai, Managing Director, Noble Paint & Varnish Co. Private Ltd. b. March 24, 1911;

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Enamels and Plastic Emulsion Paints; is a keen sportsman and a member of Lodge Blackwell. Address: Noble Paint & Varnish Co. Private Ltd., Fergusson Road, Lower Parel, Bombay 13.

JATTI, B. D., B.A., LL.B., Chief Minister, Mysore State, since May 16, 1958. b. Sept. 10, 1912, at Savalg, Jamkhandi Taluka, Bijapur Dist.; Educ.: Matriculated from the Bijapur Govt. High School; graduated from Rajaram Coll., Kolhapur; LL.B. Degree from Sykes Law Coll., Kolhapur, 1940. Practised as a pleader at Jamkhandi for five years; elected member, Jamkhandi State Legislature; was appointed Minister, Jamkhandi State under the diarchy Govt.; became its Chief Minister; reverted to legal practice on the State merging with Bombay State, March 8, 1949; nominated M.L.A., Bombay to represent the merged areas; appointed Parliamentary Secy. to Mr. B. G. Kher, then Chief Minister of Bombay; appointed Dy. Minister for Health and Labour, Bombay, after the 1952 General Elections; became M.L.A., Mysore after the reorganization of States; appointed Chairman, Land Reforms Cttee.; was Secy., Praja Parishat of the former Jamkhandi State and also member, Karnatak Prantiya Congress Cttee's Council. Address: Bangalore.



JAWHAR, Ft.-Lt. His Highness Maharaj Shrimant Yeshwantao Patangabhai Vikramabhai, the Ruler of the former State of b. December 11, 1917; Heir-Apparent, Shrimant Yuvraj Maharaj Digvijayashah, born on Jan. 5, 1940; Educ.: Rajkumar College, Rajkot; Blundell's Old Public School, England; received some administrative training in England; had further, practical administrative training in India under the Collector of Nasik. Ascended the gadi and was invested with full ruling powers, January 16, 1938; is entitled to a permanent salute of 9 guns; his State merged with Bombay State, June 10, 1948; served in the Royal Indian Air Force during World War II; was member, Lok Sabha having been elected on Congress ticket from Thana-Kolaba Constituency in a by-election. Recreations: Shooting, Riding, Tennis and Motoring. Address: Jaiwilas Palace, Jawahar.



JAYKRISHNA Harivallabhdas, Millowner and business man; Pres., Ahmedabad Millowners' Assoc., 1956-57. b. Oct. 31, 1919; Educ.: Calcutta and Ahmedabad. Joined his father's business early in life, 1936; got extensive training under the guidance of his father; on the demise of his father, took over management of two textile Mills, Shri Ambika Mills Ltd. and Shri Jagdish Mills Ltd.; was responsible for expanding the units; is also connected with various other business and industrial concerns; Director:



New India Industries Ltd.; Vulcan Insurance Co., Ltd.; Pickers Ltd.; Bharat Bobbins Private Ltd.; T. Maneklal Mfg. Co., Ltd.; Lok Prakashan Ltd.; The Standard Mills Co., Ltd.; Ahmedabad Advance Mills Ltd.; Lalbhai Tricomial Mills Ltd.; Jayabharat Insurance Co., Ltd.; Anil Starch Products Ltd.; Simplex Mills Co., Ltd.; Cama Hotels Ltd.; Baroda Rayon Corp'n. Ltd.; member: Textile Trade Marks Advisory Committee; Local Advisory Committee of the United Commercial Bank Ltd.; ex-Committee of the Gujarat Chamber of Commerce; takes keen

interest in several social activities; elected, M.L.A., Bombay from Ahmedabad City on Congress ticket in the General Elections, 1952; has made liberal donations of about Rs. 20,00,000 on his behalf and on behalf of concerns managed by him, to Ahmedabad Education Society, Gujarat Univ. and other similar institutions; has made extensive tour of foreign countries to acquaint himself with industrial development there; visited Japan twice; has been to Egypt, England, the Continent and the U.S.A., 1946, '49, '51, '55 and '57; attended the I.L.O. Conference at Geneva as Employers' Representative on behalf of the Govt. of India; member, Western India Automobile Assoc. Clubs: Rotary Club of Ahmedabad (Pres.); Cricket Club of India; Willington Sports Club. Address: Shahibag, Ahmedabad 4.

JEJEKSHOY, Ferone, B.A. (Hons.), Barrister-at-Law, Chairman, Labour Appellate Tribunal of India, since Jan. 6, 1955. b. 1895; Educ.: School and College in Rangoon; Grays Inn, Barrister-at-Law, Practised at the Rangoon Bar; Legal Adviser to the Govt. of Burma in India during the War Years; Chairman, Central Govt. Industrial Tribunals at Dhanbad and Calcutta, 1949-50; member, Labour Appellate Tribunal, 1950-55; Chairman, Central Govt.'s Wage Board for Cotton Textile Industry, 1957. Address: Firuz-Ara, Churchgate Reclamation, Bombay.

JEWANGIR, Sir Cowasji (Bart.), M.A. (Cantab.), G.B.E. (1944), K.C.I.E. (1937), C.I.E. (1920), O.B.E. (1918). b. Feb. 16, 1879; Educ.: St. Xavier's Coll., Bombay, and St. John's Coll., Cambridge. Member, Bombay Corporation, 1904-21; Chairman, Standing Cttee., 1914-15; Pres., Bombay Municipal Corporation, 1919-20; Hon. Secy., War Loan Cttee., 1917-18; member of the Legislative Council; member, Executive Council, Govt. of Bombay, 1921-22 and 1923-28; elected member, Legislative Assembly for the City of Bombay, 1930-47; delegate to the N. T. Cs., 1930, 1931, 1932; delegate, London Monetary and Economic Conference, 1933; delegate, Empire Parliamentary Conference, London, 1935, representing the Central Legislature; Pres., National Liberal Federation of India, 1936; one of India's representatives at the Coronation, London, 1937; elected Pres. of the Parsi Panchayet; Chairman, Bank of India, Ltd., The Oriental Life Assurance Co., Ltd., and a Director of the Tata Iron & Steel Co., Ltd., Tata Chemicals Ltd., Tata Locomotive & Engineering Co., Ltd., The Bombay-Burmah Trading Corporation Ltd., and several other companies; succeeded to the Baronetcy on July 26, 1934. Clubs: Marlborough and St. James', London; Asian, Elton, Orient, Willington, Bombay. Address: Readymoney House, Malabar Hill, Bombay.

JENKINS, Sir Oswald Trevor, B.A. (Oxon.), Kt. (Jan. 1, 1958), Director, Balmer Lawrie & Co. Ltd., since 1946. b. Feb. 20, 1907; Educ.: Charterhouse School and Balliol Coll., Oxford. Balmer Lawrie & Co. Ltd., 1929; Indian Army, 1940-43; Directorate-General of Munitions Production, 1944; rejoined Balmer Lawrie & Co. Ltd., 1944; Pres.: Bengal Chamber of Commerce and Industry, 1956; Associated Chambers of Commerce, 1956; Director, State Bank of India, 1957. Clubs: Bengal Club, Calcutta; Royal Bombay Yacht Club, Bombay; Oriental Club, London. Address: O/o Balmer Lawrie & Co. Ltd., 21, Netaji Subhas Road, Calcutta 1.

JHA, Shela Nath, M.A., I.C.S., C.I.E. (1946), Secretary, Ministry of Home Affairs, Govt. of India, since Jan. 15, 1958. b. Feb. 1902; Educ.: Muir Central Coll. and the Univ. of Allahabad. Passed I.C.S., 1924; I.C.S. probationer at Exeter Coll., Oxford, 1924-26; Assistant, Joint, and District Magistrate in U.P. Districts, 1926-36; Secy., U.P. Board of Revenue, 1937-38; served as Deputy Secy., Agriculture, Industries and Revenue; Secy. and

Development Commissioner, U.P. Govt., 1938-March 1947; Chief Secy., March 1947-June 1949; Senior Adviser, Rajasthan, 1949-51; Chief Secy., U.P., 1951-53; Secy., Ministry of Communications, Govt. of India, March 1953-Jan. 1958. Recreations: Tennis; Hockey; Football; Riding. Address: Secretary, Ministry of Home Affairs, New Delhi.

JHA, Chandra Shekhar, I.C.S., Permanent Representative for India in the United Nations, since Jan. 1959. b. 1909; Educ.: Patna Univ., School of Oriental Studies, London. Joined the Indian Civil Service, 1933; served in Bihar and Orissa as Asstt. Magistrate and Collector; Under Secy., Finance Deptt., Bihar, Oct. 1936-April 1939; Dy. Commissioner, April 1939; was Controller and Secy., Supply and Transport Deptt., Orissa; Dy. Secy., Govt. of India, Commonwealth Relations Deptt., March 1946-May 1947; appointed Jt. Secy., Ministry of External Affairs, May 1947; Charge d'Affaires, Embassy of India, Ankara, 1950-51; appointed Ambassador of India to Turkey, Oct. 1951; member, Indian Delegations to the U.N. General Assembly, 1948-49; again appointed Jt. Secy., Ministry of External Affairs, May 1954; member, Indian Delegation to the Asian-African Conference in Bandung, 1955; and the first Suez Conference in London, 1956; Ambassador of India to Japan, May 1957-Jan. 1959. Recreations: Golf, Tennis. Address: New India House, 3 East 64th Street, New York 21.

JHA, Lakshmi Kant, B.A. (Cantab.), I.O.N., M.B.E. (1946), Addl. Secretary, Ministry of Commerce and Industry, Govt. of India. b. Nov. 22, 1913; Educ.: Hindu Univ., Banaras and Trinity College, Cambridge. Under-Secy., Govt. of Bihar, Local Self Govt. Dept., 1941-42; Deputy Secy., Govt. of India, Supply Dept., 1942-46; Delegate, United Nations Maritime Conference; Delegate, Economic Commission for Asia and Far East, Sixth Session, Bangkok, and Seventh Session, Lahore; Chief Controller of Imports and Exports, 1947-50; Chairman of the Contracting Parties to the General Agreement on Tariffs and Trade, 1957-58; Joint Secy., Ministry of Commerce and Industry, 1950-56; Secy., Ministry of Heavy Industries, 1956-57. Publications: *India's Foreign Trade*, Parts I & II. Clubs: Delhi Gymkhana and Oxford and Cambridge University Clubs, London. Address: 36, Aurangzeb Road, New Delhi.

JHA, Harshadray Ishverlal, M.D. (Bombay), F.C.P.S. (Bom.), D.T.M. (Cal.). Director, Haffkine Institute, Bombay, since 1957. b. Jan. 13, 1919; Educ.: Baroda High School; B. J. Medical School, Ahmedabad; Madras Medical Coll.; School of Tropical Medicine, Calcutta; Grant Medical Coll., Bombay; M.D. (Bom.), 1947; F.C.P.S. (Bom.), 1945; D.T.M. (Cal.), 1941. Started as tutor in Bacteriology, B. J. Medical School, Ahmedabad, 1941; Clinical Pathologist, Grant Medical Coll., 1944; Asstt. Prof. of Pathology, 1946; Professor of Pathology; B. J. Medical Coll., Ahmedabad, 1948-51; Grant Medical Coll., Bombay, 1951-57. Publications: Several contributions in scientific journals. Address: Haffkine Institute, Bombay 12.

JHAVERI, Mansukhlal Manganlal, M.A., Gujarati Poet and Critic; Professor and Head of the Gujarati Deptt., St. Xavier's College, Bombay, since 1945. b. Oct. 3, 1907, at Jamnagar, Halar Dist.; Educ.: Nawanganar High School, Jamnagar; St. Xavier's Coll., Bombay; Samaldas Coll., Bhavnagar. Fellow, Univ. of Bombay, since 1949; Member, A.C., since 1954; Member, Board of Studies in Gujarati of the Univ. of Bombay, Poona, S.N.D.T., Baroda and Gujarat; Secy., Gujarati Section, Oriental Conference, Bombay Session; Gujarati Sahitya Parishad; Gujarati Lekhak Milan; P.E.N.; Pres., Saurashtra Lekhak Milan, Rajkot Session; member: Advisory Panel, Central Board of Film Censors, 1951 and '52; Advisory Board for Gujarati and Gen. Council, Sahitya Akademi, New Delhi;

Producer, Spoken Word, Gujarati, All India Radio, Bombay. *Publications*: Poems; *Chandradoot*; *Phool-Dol*; *Aradhana*; *Akhbar Anubhuti*; Criticism: *Thoda Visechan Lekho*; *Paryachana*; Literary History: *Gujarati Sahitya-nun Rekha Darshan*; Translations: *Abhinava Sakuntala* from Sanskrit. *Recreations*: Walking and Reading. *Address*: 1/7, Samant Block, Cama Road, Bombay 41.

JOHN, Michael, Vice-Pres., I.N.T.U.C., since 1953, M.P. b. Nov. 29, 1903, at Vepery, Madras; *Educ.*: Duffon Coll., Madras. Member, Bihar Leg. Assembly, 1946-52; Pres.: Tata Workers' Union, Jamshedpur since 1947; Asansol Iron and Steel Workers' Union, Burnpur since 1947; Vice-Pres., I.N.T.U.C., 1947-52; its Pres., 1952-53; Adviser (labour delegation), I.L.O. Conferences, Geneva, 1948 and 1951; Pres.: I.N.T.U.C. Bihar Branch since 1948; Indian National Mine Workers' Federation since 1952; member, Bihar Central (Standing) Advisory Board; Director, Hindustan Shipyard Ltd., Visakhapatnam since 1952; member: Development Council, I.C.E. & Pump, Ministry of Commerce and Industry since 1952; Central Board of Trustees of the Employees' Provident Fund since 1953; Indian Airlines and Air India International Corporation Board since 1953; delegate, Iron and Steel Ctee., I.L.O., Geneva, 1954; member: Standing Labour Ctee., Ministry of Labour, New Delhi, since 1955; Vice-Pres., Miners' International Federation, London; Exco. Ctee. member, Asian Regional Ctee., International Confederation of Free Trade Unions; delegate, I.L.O. Industrial Ctee. on Coal Mining, Istanbul, 1956. *Address*: 27, K. Road, P. O. Bistapur, Jamshedpur (Bihar).

JOHNSON, George Arthur, B.A. (Oxon.), Editor, *The Statesman*, b. Oct. 31, 1903; *Educ.*: Christ's Hospital; B.A. from St. Edmund Hall, Oxford. *Clubs*: Bengal; Oriental; Authors. *Address*: O/o The Statesman Ltd., Calcutta and New Delhi.

JOLLY, Brij Mahan, B.Com. (Lond.), Bar-at-Law, Deputy Secretary, Indian Red Cross Society and St. John Ambulance Assoc. (India), b. March 1, 1908, Badahahan, Dist. Jehlam, Punjab; *Educ.*: London School of Economics and Lincoln Inn, London. Practised at the Punjab High Court, 1929-30; associated with an import-export concern in London, 1930-33; Husar and Political Secy. and Chief Minister, Banda State, 1939-41; actively connected with Indian Red Cross since 1942; represented Indian Red Cross at the Mid-century White House Conference on children and youth in Washington, and the U.N. Youth Welfare Seminar for S.E. Asia in Simla, 1950-51; International Red Cross Conference at Toronto, 1952; participated in Geneva meetings of the Executive, Health and J.E.C. Citees. of the League of Red Cross Societies and Standing Commission of the International Red Cross, 1955; International Red Cross Conference, New Delhi, 1957; Founder Joint Secy., United Council for Relief and Welfare; member, Council of Voluntary Agencies; Pres., Indian Red Cross Employees' Co-operative; awarded Kaiser-i-Hind Medal and Admitted Order of St. John as Associate Officer, 1948; recipient French, Swedish and Polish Red Cross Medals 1957; elected Fellow, Royal Economic Society, 1924. *Hobbies*: Art, literature, riding and living up to family motto "Seva Hamara Adarsh". *Club*: Delhi Gymkhana. *Address*: Red Cross Road, New Delhi.

JONES, Wilson Lionel Garton, leading Billiards Player, since 1950, b. May 2, 1923; *Educ.*: Bishop's High School and St. Vincent's High School, Poona. Munition Factory, Kirkee, 1939-46; Masagon Docks, Bombay, 1947-50; National Billiards Champion of India, 1950-52; National Snooker Champion of India, 1948 & '52. Billiard Champion of India, 1954, '55 & '57; Snooker, 1958; won the World Amateur Billiard title at Calcutta, Dec. 1958; first

Indian to win the title; Indian Representative for Billiards and Snooker World Championship, 1951-52. *Clubs*: Vissani Sports Club. *Address*: No. 2, Wallace Flour Mills Co., Ltd., Slesater Road, Bombay.

JOSEPH, Mr. Justice T. Kuruvilla, B.A., B.L., Judge, High Court of Kerala, since Nov. 1, 1956, b. June 25, 1904; *Educ.*: O. M. S. High School and Coll., Kottayam; Maharaja's Coll. and the Law Coll., Trivandrum. Started practice in the District Court of Kottayam, 1923; joined the High Court Bar, 1940; Judge, Travancore-Cochin High Court, July 1953-Oct. 31, 1956. *Address*: Banerji Road, Ernakulam.

JOSEPH, Amar Chand, D.Sc., F.N.I., Vice-Chancellor, Punjab University, since July 1, 1957 and Kurukshetra University since 1956, b. Sept. 18, 1908. *Educ.*: Lahore. Professor of Botany, Banaras Hindu Univ., 1931-45; Prof. of Botany, Govt. Coll., Lahore, 1945-57; Prof. of Botany, Govt. Coll., Hoshiarpur, 1947-51; Principal, Govt. Training Coll. for Teachers, Jullundur, 1951-53; Director of Public Instruction and Secy. to the Govt., Punjab, 1953-57. *Address*: Vice-Chancellor, Punjab University, Chandigarh.

JOSEPH, Anant Manohar, leading Hindustani musician, b. 1879; *Educ.*: Studied Marathi and English at home. Served at Shri Guru Samarth Vidyalaya for 20 years; gives programmes on A. I. R.; is a pensioner; is also a businessman; awarded the 'Sangeet Praveen' prize of the Sangeet Natak Akademi, Delhi by Rashtrapati Dr. Rajendra Prasad, 1955. *Publications*: *Sangit Praveen* (8 parts); *Harmonium Delighter* (2 parts). *Address*: Gayanacharya, Aundh, Bombay State.

JOSEPH, Smt. Damayanti Ramchandran, Exponent of Indian Classical Dancing, b. Dec. 5, 1928; *Educ.*: at home. Gave her first dance performance on a public stage



at the early age of seven; has toured and danced before audiences in Europe and Far Eastern countries; participated in the International Olympiad held in Berlin and shared the honour of winning the trophy for the team that represented India, 1936; toured and danced in the Chinese Mainland as a member of the Indian Cultural Delegation, 1953; was member, Cultural Mission to Japan and Nepal, 1958; has attained proficiency in all styles of Indian classical dancing, viz., Bharat Natyam, Manipuri, Kathakali and Kathak; specialised in the Kathak style; studied under eminent gurus of dancing, has given dance performances especially Kathak at music conferences; gives solo recitals. *Recreations*: Literature, Music. *Clubs*: National Sports Club of India; Y.W.C.A.; India-China Friendship Assoc. *Address*: Jashtharam Baug, D Block 1, Dadar T.T., Bombay 14.

JOSEPH, Deekrishnan Jatasankar, G.D. Art (Bombay), Painter; Principal, Kala Maha Vidyalaya, Indore, M.P. b. July 7, 1911; *Educ.*: School of Art, Indore; took G.D. Art (Bom.), 1933. Held One Man Shows at Bombay Art Society, Bombay, 1947, 1949 and 1950; a collection of his paintings kept at the National Akademi, New Delhi, Hyderabad Museum, Jabalpur Museum and Madhya Bharat Kala-virhika, Gwalior; exhibited paintings at the Artists Aid Fund Exhibition at Switzerland; won several prizes at exhibitions namely H.E. the Governor's Gold Medal for the best exhibit at the Academy of Fine Arts, Calcutta, 1955-56; awarded Rs. 250 for a sketch at the 1st National Exhibition of Art, New Delhi, 1955; Gold Medal for the painting "At the Well" at the Indian Academy of Fine Arts, Amritsar, 1950, Patel Trophy of the Art Society of India, Bombay, 1957, and several others.

Publications: Cover page of his artistic paintings in the *Illustrated Weekly of India*, 1949, '51, '52, '53, '55; one painting entitled 'Evening Scene at Maheshwar' in the *Times of India Annual*; his painting entitled 'Homeward Bound' published in *Roop Lekha* by India Fine Arts and Crafts Society, New Delhi; his paintings reproduced along with his biography in 'Contemporary Artists of India' by Ramchandra Rao, Art Critic. *Address*: 81, Snehlata Ganj, Indore, M.P.

JOSEPH, Gaurishankar Goverdhanram, B.A. (Literature) (Bom.), Gujarati short story writer and novelist, b. Dec. 12, 1892; *Educ.*: Bilkha (Anandashram), Jetpur, Porbander and Junagadh (Bahauddin Coll.); B.A., 1919. Developed a flare for reading and writing from early childhood; gave up service in the then Gondal State Rly. and took up writing and teaching in Ahmedabad; published the first volume of short stories—*Tanaka*, 1925; since then about a hundred books covering almost all forms of literature—short story—novel, historical & social—travel—biography—autobiography—adult education Series—drama—poetical prose—etc. have been published; *Chauladevi* and *Amrapati* are some of the important historical novels; works translated into various Indian languages and English; writes under the pen-name 'Dhunketu'; member, Sahitya Akademi Advisory Board, New Delhi. *Recreations*: Writing; Reading, Chess. *Address*: "Karnawati-Nivas", 23, Saurashtra Society, Anandnagar, Ahmedabad-7.

JOSEPH, Parun Chandra, M.A., LL.B., Communist Leader; Journalist, b. April 14, 1908; *Educ.*: Allahabad Univ. Joined the Communist Party of India as a student, Dec. 1928; arrested in Meerut Conspiracy case, 1929 and convicted for five years; member Central Ctee. and General Secy., 1934-47; again in the Central Ctee. since Paight Congress of the C.P.I., 1956; is member, Secretariat of the National Council of the C.P.I. *Publications*: *Communist Reply to Working Committee*; 1957 *Rebellion*, and numerous pamphlets published by the Communist Party. *Recreations*: Folk Cultural Activities. *Address*: 7/4, Anaf Ali Road, New Delhi.

JOSEPH, Sadashiva Dattatraya, B.Sc. (Hons.), D.Fcy. Tech. (U.K.), M.F.T.G., M.I.B.F., M.A.S.M. Special Officer (Foundry/Forge) under the National Industrial Development Corporation Ltd. in the Ministry of Commerce & Industry, New Delhi; Chairman, Panel for Clocks and Watches Industry; Director, National Instruments Ltd., Calcutta; Director, Nahan Foundry Ltd., Nahan, b. Jan. 31, 1922; *Educ.*: Bombay University, Banaras Hindu Univ. and National Foundry Coll., England. Served with Indian Hume Pipe Co. Ltd. for two years and Mukand Iron & Steel Co. Ltd. in their foundries at Bombay for two years; went abroad, mainly in U.K. for three years for practical and theoretical training; worked for three years with National Machinery Manufacturers Ltd., Thana (Bombay), and three years with Binny's Engineering Works Ltd. in their workshops in foundries; on deputation as General Manager, Nahan Foundry Ltd., Nahan for one year; now on deputation as Managing Director, National Instruments Ltd., Calcutta. *Recreations*: Reading, Shooting. *Address*: 155, Ragh Behari Avenue, Calcutta 29.



JOSEPH, Umashankar Jethalal, M.A., Gujarati Writer; Editor, *Sanskriti* (Culture), Gujarati monthly, 1947; Director, University School of Gujarati Language and Literature, Gujarat Univ., 1954, b. July 21, 1911; *Educ.*: Banma; Idar High School; Gujarat Coll.; Elphinstone Coll., M.A. First Class. Teacher 2 years; Lecturer, one year; Post-graduate Teacher,

Research Institute, Gujarat Vidy Sabha, Ahmedabad (1939-46); member: Sahitya Akademi, General Council and Executive Board; visited China, Indonesia, Malaya and Ceylon, 1952; visited the U.S.A. and U.K. as a member, Govt. of India Team to study General Education, 1956; visited Japan to attend the 29th World P.E.N. Congress, 1957. *Publications*: Poetry: *Fishra Shanti*; *Gangotri*; *Nisheth*; *Gul-e-Poland* (Tr.); *Prachina*; *Asthya*; *Vasant-Varsha*; One Act Plays: *Sapna Khara*; *Nahed*; Short Stories: *Saraswati Arda*; *Vismam*; Novel: *Parkan Jayan*; Essays: *Goshiki*; Criticism: *Sama-Samvedan*; *Akha a Study*; Research: *Gujarat in the Puranas*; Translations: *Uttar-Ramacharita*, *Sakuntala*. Address: 'Setu', Sardar Patel Nagar, Ahmedabad 6.

KABIR, Ramayana, M.A. (Cal.), M.A. (Oxon.), Univ. Gold Medals, Prizes, etc. (1926 & 1928), State Scholar (1927), Exeter College Foundation Prize (1931), Minister of Scientific Research and Cultural Affairs, Government of India, since April 1958; formerly Educational Adviser to the Govt. of India; Ex-Chairman, Univ. Grants Commission; Editor, *Chaturanga*. b. Feb. 22, 1906; Educ.: Calcutta and Oxford. Has taught at the Univ. of Calcutta and Andhra; was Secy., Oxford Union Society; prominently associated with the Students' Movement, the Prasant Movement and Trade Union activities; Leader, Peasants Party, Bengal Leg. Council; First Pres., All-India Students Congress; Assessor to the Adjudicator in All-India Railway Dispute (1946); Member, Indian Railway Enquiry Cttee. (1947); Dy. Leader, Indian Delegation at the 3rd General Conference of UNESCO, 1948; nominated by Govt. of India as Pres., Indian Council of Cultural Relations, 1958; Pres.: All India Education Conference, 1955; Indian Philosophical Congress; Consultant to the Fund for the Advancement of Education, New York; Minister of Civil Aviation, 1957-58. *Publications*: *Swarna-Sadh* (in Bengali); *Poems* (Basil Blackwell), *Kant on Philosophy in General*; *Immanuel Kant* (in Bengali); *Dharwadhi* (in Bengali) Poetry, *Monads and Society*; *Sarat Chandra Chatterjee*; *Musim Politics*, 1906-42; *Mahatma and other Poems*; *Banglar Kavya* (in Bengali); *Men and Rivers*; *The Indian Heritage*; *Three Stories*; *Of Cabbages & Kings*; *Marx Vad*, 1948; *Nadi-O-Nares*, 1950; *Science, Democracy and Islam*, *Education in New India*, etc. (Several works translated into European languages). Address: New Delhi.

KACHHAWAN, Anand Singh, M.L.A. (Rajasthan). b. Bhadrappa Krishna 30, Samvat 1971V. Partner, Gotan Lime Syndicate, Gotan, Rajasthan; Managing Director: 'Chemical Limes, Marwar Mundwa (Rajasthan), N. Bly; Anand Theatres Ltd., Jodhpur, Shree Sumer High School, Jodhpur, 1953-58; Sarpanch, Mandore Gram Panchyat, 1952-58; Pres.: Jodhpur Dist. Congress Cttee., 1956-1957; Rotary Club, Jodhpur, 1955-56; Jodhpur Citizens' Cttee. 1956 and 1957; Jodhpur Film Distributors and Exhibitors' Assoc.; Aryan Cottage Industries, Jodhpur; Vice-Pres.: Marwar Chamber of Commerce, Jodhpur, 1955; Jodhpur Dist. Children's Welfare Council; member: Rajasthan State Minerals Advisory Council; Rajasthan State Development Advisory Council; Rajasthan State Disabled Relief Advisory Council; Northern Railway Zonal Users' Consultative Cttee.; Rajasthan Building Stones Advisory Council; Rajasthan State Co-operative Advisory Council; Indian Standards Institution (lime), New Delhi; Rajasthan Provincial Congress Cttee.; Executive: Rajasthan Chamber of Commerce, Jaipur, 1955 and 1956; Dayanand Vidyamandir, Jodhpur. Address: 20/3, Fort Road, Jodhpur; Office: Anand Theatres Limited, Jodhpur.



KAIKRON, S. Partap Singh, M.A. (Michigan), Chief Minister, Punjab, since Nov. 1, 1956; of old Punjab, Jan. 23 to Nov. 1, 1956. b. 1901, in Kairon village, Amritsar; Educ.: Khalsa Coll., Amritsar; graduated from Michigan Univ. Actively associated with the Ghaddar Party working for India's liberation from foreign rule; joined Congress, 1930; sentenced to five years' imprisonment in 1932 C. D. Movement; elected M.L.A., Punjab, 1936; re-elected 1946; led the Kisan agitation, 1938; elected to the Indian Constituent Assembly, 1946; Minister in the Bhargava Cabinet, 1947-49; took drastic steps to eradicate corruption; General Secy., Punjab P.O.C., 1939-46; elected Pres., P.P.C.C., 1950-52; re-elected M.L.A., Punjab, 1952; again 1957; courted jail during the individual satyagraha and Quit India movements, 1942-45; member, Congress Working Cttee., 1946-53; Development Minister, Sachar Cabinet, April 1952-Jan. '56. Address: Chandigarh, Punjab.



KAJROLKER, Narayan Sadoba, Harijan leader and public worker. b. 9th July 1896; Educ.: S. P. G. Mission Society, Dapoli. Is interested in the uplift of the Depressed and Backward Classes; General Secretary and Trustee, the Depressed Classes Mission Society of India; member, Harijan Sevak Sangh, Central Board, Delhi; Pres., Provincial Board of Bombay; Pres. and Trustee, Rohidas (Chambhar) Sama; and Temple; President: Kajrolker Housing Society, Ghatkopar; Producers' Co-operative Society; Rohidas Education Society & Rohidas (Harijan) Housing Society, Khar; Butter Manufacturers' Association; President, Bharatiya Depressed Classes League; Member of Parliament, 1952-57; member: National Advisory Board of Planning Commission; Central Harijan Board, Home Ministry. Address: 112, Medows Street, Bombay.

KALELWAR, Acharya Kakeshab, B.A. (Bombay), M.P. (Rajya Sabha). b. Dec. 1, 1885; Educ.: Ferguson Coll., Poona. Educationist; Vice-Chancellor and Principal, Gujarat Vidyapith, 1928-34; Edited Mahatma Gandhi's Weeklies & Magazines; worked for the spread of Hindi throughout India; Pres., Hindustani Talimi Sangh (Basic Education till 1957), Hindustani Prachar Sabha; Chairman, Backward Classes Commn. appointed by the President of India, 1953-55; one of the Vice-Pres., Indian Council of Cultural Relations, New Delhi; Pres.: Gandhi Hindustani Sahitya Sabha, New Delhi; Gomant Bharati, Bombay; Balkanji-Bari, Bombay. *Publications*: Author of about 30 books in Gujarati, Marathi and Hindi—some books being translated into English and many Indian languages. At present editing *Mangal Prabhat*—a Hindi Weekly. Address: Sannidhi, Rajghat, New Delhi.

KAMALEDEVI, Shrimati, Padma Bhushan (1955), Political and Social Worker; Chairman, All-India Handicrafts Board, Vice-Chairman, Sangeet Natak Akademi; President, Theatre Centre of India. b. 1903; Educ.: Passed Senior Cambridge, 1919; Bedford Coll., London and the London School of Economics. Joined Congress and busied herself with constructive work; elected to A.I.C.C., 1927; was Organising Secy., All-India Women's Conference; has been mainly responsible for building up the Women's Organisation and giving it a shape; imprisoned in connection with the freedom struggle, 1930, 1942, etc.; has travelled extensively in India, visited Europe, Asia, Africa and once gone round the World; has on different occasions represented her country at International Conferences; was Pres., All-India Women's Conference; founded the Indian Co-operative Union and set out to rehabilitate the uprooted refugees on a co-operative basis.

Publications: In *War-torn China*; *Japan: Its Weakness and Strength*; *Socialism and Society*; *America, the Land of the Superlatives*. Address: 2, Canning Lane, New Delhi.

KAMANI, Sheth Narbheram Hansraj, Business man, Jamshedpur; Managing Director, Narbheram & Co. Private Ltd., Jamshedpur. b. Nov. 25, 1892, at Dhari (Kathiawar Peninsula now part of Bombay).



Entered business at Jamshedpur as a small provision dealer and developed automobile business; started Narbheram & Co. Ltd., 1926; took up the agency of Burmah-Shell Kerosene and petrol and dealership for Ford products for a very large territory; entered into Metal business in partnership with Messrs. Kamani Brothers and founded the "Kamani" group of industries, 1940; took the exclusive dealership of Premier Automobiles Ltd., for Plymouth, Fargo and Fiat, and Lambretta, etc., also jeeps and other Willy's vehicles, with Head Office at Jamshedpur and Branch at Patna and associates at Ranchi, 1954; Pres.: Jamshedpur Gujrati Merchants' Assoc.; Jain Assoc.; Trustee and Pres., Narbheram H. Gujrati M.E. School, Jamshedpur; has made liberal donations and helped in raising several large funds for philanthropic and humanitarian purposes. Address: Narbheram & Co. Private Ltd., Jamshedpur.

KAMARAJ, K., Chief Minister, Madras, since April 1954. b. 1903; Educ.: Virudhunagar, Ramanad District, Madras. Entered public life 1921 during Salt Satyagraha; convicted for two years; elected member, Working Cttee., Tamil Nad Congress, and member, A.-I.C.C., 1931; convicted for one year R.I. in 1932 movement; one of the accused in Virudhunagar bomb case, 1934; later acquitted; elected Secy., Tamil Nad Congress Cttee., 1935; elected to Madras Legislative Assembly, 1937 and again in 1946; detained during the individual Satyagraha Movement, 1941; while in detention was elected Chairman, Virudhunagar Municipality, 1941; again detained in 1942 and released, 1945; elected to the Constituent Assembly of India, 1947; chosen as a member, All-India Congress Working Cttee., 1949; Pres., T.N.C.C., 1939-54; elected Leader, Madras Legislature Congress Party, March 30, 1954; and again in 1957. Address: Madras.



KAMAT, Ramchandra Pandurang, Diploma in Art (London), Artist and Sculptor. b. July 30, 1907; Educ.: J. J. School of Art, Bombay; took diploma in Art from the Royal Academy of Art, London, 1935; won Mayo Medal from J. J. School of Art, Bombay, and gold, silver and bronze medals from Royal Academy of Arts, London, the only Indian to win this so far; awarded Royal Academy's Travelling scholarship for 1933. Pres., Indian Sculptors' Assoc., since 1952. *Publications*: Articles broadcast by All India Radio, Bombay. Address: Kamat Building, 481, Cadell Road, Bombay 28.

KAMAT, Hari Vishnu, B.Sc. (Hons.), Politician. b. July 13, 1907; Educ.: Mangalore upto intermediate; graduated Presidency Coll., Madras, 1928; passed into the I.C.S., in London, 1929. Served in the I.C.S., December 1930 to April 1938; resigned for political reasons; joined Congress, then the National Planning Cttee. as Secy. and subsequently the Forward Bloc as its General Secy.; was in prison, April 1940 to Sept. 1945, with a short break in 1941; elected member, Constituent Assembly, 1946; member, Nagpur Provincial Congress Cttee.; represented a Madhya Pradesh constituency in the Indian

Parliament; delegate to the second London Parliamentary Conference on World Govt., 1952, at the invitation of the All Party British Parliamentary Group for World Govt.; elected member, Executive of the Indian Assoc. for World Federal Govt., 1950; lost in the General Elections from Hosangabad, M.P. as independent candidate to Congress by 92 votes, 1951-52; filed election petition, April 1952; rejected by the Tribunal and Nagpur High Court; but allowed by the Supreme Court, Dec. 1954; re-elected to Lok Sabha on P.S.P. ticket by defeating Congress by over 80,000 votes, May 1955; elected to the National Executive of the Praja Socialist Party, Dec. 1953; contested a Lok Sabha seat from Hosangabad in the General Elections, 1957 and lost; lost again in the election from the same constituency, arising out of a successful election petition, Dec. 1958. *Recreations*: Hiking; Motoring. *Special Interests*: Philosophy; Literature; Yoga. *Address*: Dhantoli, Nagpur.

KANDASWAMY, Ramaswamy Kandaswamy, B.A. (Madras), B.Sc. (Manchester), Managing Agent, The Vasanta Mills Ltd., Singanailur. b. Feb. 14, 1911; *Educ.*: Madras and Manchester; took B.A. degree from Madras, 1932 and B.Sc. (Tech.) from Manchester, 1934. Technical Manager, Textiles (Spinning and Weaving), The Vasanta Mills Ltd., Singanailur. *Recreation*: Tennis. *Clubs*: Cosmopolitan Club.



Madras and Coimbatore. *Address*: "Brindavan", Trichy Road, Coimbatore.

KANE, Pandurang Vaman, M.A., I.L.M., D.Litt. (Allahabad, Honoris Causa), Padma Shri (1958), M.P., Advocate. b. May 7, 1880; *Educ.*: S.P.G. Mission High School, Ratnagiri Dist.; Wilson Coll. and Govt. Law Coll., Bombay. Teacher, Govt. High School, 1904-11; some time Prof. of Sanskrit, Riphinstone Coll., Bombay, 1909; Prof. of Law, Govt. Law Coll., Bombay, 1917-23; Life member and for many years Vice-Pres. of Bombay Asiatic Society; Vice-Chancellor, Bombay Univ., 1947-49; Fellow, London School of Oriental Studies; Govt. of India's representative to the International Congress of Orientalists, at Paris, 1948, Istanbul, 1951 and Cambridge, 1954; nominated M.P. by the President of India, 1953; awarded the Rs. 5,000 prize for his 4th volume of the *History of Dharmasastra*, as the best work on Sanskrit literature during 1953-56, by the Sahitya Akademi, New Delhi, Nov. 1956; on Aug. 15, 1958, he was honoured with a certificate of merit, a robe and a Sannad for a pension of Rs. 1,500 per year for life, for his works in Sanskrit. *Publications*: Numerous books including *History of Sanskrit Poetics*, *History of Dharmasastra*, Vols. I-IV, *Hindu Customs and Modern Law*. *Recreations*: Travel. *Address*: Angre's Wadi, Bombay 4.

KANEKAR, Anant, B.A., LL.B., Marathi Writer; Professor, Siddharth Coll., Bombay. b. Dec. 2, 1905; *Educ.*: St. Xavier's Coll., Bombay. Advocate, Bombay High Court, 1930-33; one of the founders of Natya Manvantar Ltd., an institution started to revolutionise Marathi Stage and produce modern realistic plays, 1933-35; Founder Editor, *Chitra*, Weekly, 1935-38; member, Sahitya Akademi, New Delhi; Pres., Marathi Writers' Conference, Aurangabad, 1957. *Publications*: *Chandrat*; *Pandhari Shide*, etc.; over two dozen books. *Recreations*: Reading; Travel. *Address*: "Shanti Kunj", 5th Lane, Hindu Colony, Dadar, Bombay 14.

KANNAMWAR, M. S., Minister for Public Health, Bombay State, since April 1957. b. Jan. 10, 1900; *Educ.*: Chanda. Started life with newspapers as sales agent; courted jail several times in the freedom movement;

Secy., Provincial Congress Cttee. for eight years; Pres., for three years; edited *Lokasavak*, *Newsandesh*, weeklies in Marathi; was Member of the first Parliament; Minister for Public Health and Jail, old M.P. State, Feb. 1952—Oct. 1954; Pres., Nagpur Pradesh Bharat Sevak Samaj. *Address*: Sachivalaya, Bombay.

KANTHI, Shivalingasappa Rudrapa, B.A., LL.B., 3 speaker, Mysore Leg. Assembly, since Nov. 1956. b. Dec. 21, 1908; *Educ.*: Karnatak Coll., Majaram Coll., Kolhapur; Sykes Law Coll., Kolhapur. Enrolled at the Bagalkot Bar, 1935; has been taking active part in the organisations of Harijans, ryots and weavers; elected member, K.P.C.C. and A.I.C.C., 1939; elected Pres., Bijapur Dist. Congress Cttee., 1940-46; organised the "Individual Satyagraha" in the Bijapur Dist., 1940-41; arrested and sentenced to 10 months S.I., 1941; arrested and detained in the 1942 Aug. Movement; took active part in famine relief work; was elected working Pres., Dist. Ryots' Conference, Feb. 1946; Parl. Secy., Govt. of Bombay; Dy. Speaker, Bombay Leg. Assembly; is Chairman, Administrative Cttee., Bharat Sevak Samaj, Mysore South Region. *Address*: P.B. No. 74, Vidhana Soudha, Bangalore 1.

KANUNGO, Nityanand, B.A., R.L., Minister of Commerce, Govt. of India, since April 1957; Member, Faneet Natak Akademi. b. May 6, 1900; *Educ.*: Ravenshaw Coll., Cuttack and Univ. Coll., Calcutta. Minister for Home, Law, Industries and Agriculture, Govt. of Orissa, 1937-52; Secy., All-India Spinners' Association, Local Branch, 1939-42; Pres., All-India Village Industries Association, Orissa, 1946; Chairman, Cotton Textile Enquiry Cttee., 1952; Leader, Indian delegation to International Rice Commission, 1952; Dir., State Co-op. Bank, Orissa; member, A.I.C.C.; Dy. Minister, Commerce and Industry, Govt. of India, Sept. 1954-Aug. 1955; Minister for Industries, Govt. of India, Aug. 1955-June 1956; Minister of Consumer Industries, 1956-1957. *Recreations*: Swimming, Bee-keeping, Sociology, Rural Economy, Agriculture. *Address*: New Delhi.

KAPADIA, Gopaldas Padamsey, B.Com. (Bombay), J.P., Ex-Prov., Indian Merchants' Chamber; Senior Partner, G. P. Kapadia and Co., Chartered Accountants. b. Feb. 2, 1905; *Educ.*: Riphinstone High School, Riphinstone Coll. and Sydenham Coll. of Commerce and Economics, Bombay; took B.Com., 1926. Was member, All India Accountancy Board for a long period; member, Accountancy Expert Cttee.; was elected the first Pres., Institute of Chartered Accountants of India for three years; led the Indian Delegation to the International Congress on Accounting, London, 1952; served on important Cttees. appointed by the Govt. such as the Stock Exchange Enquiry Cttee., the Visakhapatnam Shipyard Cttee. and the Company Law Cttee.; Vice-President, Indian Merchants' Chamber, 1957; member, Sales Tax Enquiry Cttee. appointed by the Govt. of Bombay to go into the structure and basis of sales taxation and the administration thereof in the State of Bombay; was helpful in emphasising the defects and drawbacks of some of the changes in the structure of direct taxation and indicating the directions for bringing about the modifications; has been a member, Cttee. of the Federation of Indian Chambers of Commerce and Industry for the last three years. *Publications*: Paper read at International Congress on Accounting in London, 1952; *Incidence of Taxation*; several contributions on taxation matters and economic subjects. *Clubs*: Rotary Club of Bombay, Willingdon Sports Club, Orient Club, C.C.I. Ltd., Bombay Presidency Radio Club Ltd., National Sports Club, W.I.A.A. Club, P. J. Hindu Gymkhana, Fransukhlal Mafatlal Hindu Swimming Bath and Boat Club, Colaba Sailing Club. *Address*: Office: Hamam House, Hamam Street, Fort, Bombay 1.

KAPUR, B. K., Indian High Commissioner in Ghana, since Oct. 1957 and Commissioner in Nigeria. b. Jan. 12, 1910; *Educ.*: Govt. Coll., Lahore; Royal Military Coll., Sandhurst (England). Commissioned in the Indian Army, 1930; selected for the Indian Political Service, 1934; held various administrative and political appointments in the North-West Frontier Province and Baluchistan; completed Land Revenue Settlements of the Kurram Agency and of the Quetta-Pishin Dist., 1941-46; appointed Deputy Secy., External Affairs Ministry, Govt. of India, 1946; Secy., Indian Delegation to the U.N. General Assembly, New York, 1946; Govt. of India's Liaison Officer, Lahore and Peshawar after the partition, 1947 and 1948; Jt. Secy. and Chief of Protocol, External Affairs Ministry; member, Indian Trade Delegation to Iran and Afghanistan, 1948; Charge d'Affaires with the rank of Minister, Indian Embassy, Teheran, Jan. 1951 to Dec. 1951; Political Officer in Sikkim, March 1952 to Feb. 1955; Indian Ambassador in the Netherlands, 1955-57. *Address*: O/o External Affairs Ministry, New Delhi.

KAPUR, Mr. Justice Iqbal Lal, B.A. (Punjab), M.A., LL.B. (Cantab.), Judge, Supreme Court of India, since Jan. 14, 1957. b. Dec. 13, 1897; *Educ.*: Govt. Coll., Lahore (Punjab Univ.); Magdalene Coll., Cambridge; Inner Temple, Barrister-at-Law; B.A., Punjab Univ., 1917; B.A. (Cantab.), 1920; LL.B., 1921; M.A. (Cantab.), 1924. Practised at Lahore High Court, Lahore, 1922-47; Vice-Pres., All India Postmen's Union, 1926-47; Member, F.P.S.C., New Delhi, 1947-49; Judge, Punjab High Court, 1949-57. *Publications*: *Law of Adoption India and Burma*. *Recreations*: Reading; Walking. *Clubs*: Delhi Gymkhana Club, New Delhi. *Address*: 11, York Road, New Delhi.

KAPUR, Triloka Chandra, B.A., LL.B., Managing Director, The Export Risks Insurance Corporation Ltd., since Aug. 1, 1957. b. June 2, 1897; *Educ.*: Govt. High School, Jhelum; Govt. Coll., Lahore; Law Coll., Lahore. Suspended practice as a pleader, 1921; became Secy., Punjab Pradesh Congress Cttee.; convicted for political offence and imprisoned twice, 1921 & 1930; Manager; Lakshmi Insurance Co. Ltd., Feb. 1927 to March 1944; Bombay Mutual Life Assurance Society Ltd., April 1944-June 1952; Chairman, Export Credit Guarantee Cttee. and Officer on Special Duty, Jan. 1950-July 1957; for some time member, Govt. Insurance Advisory Council; member: Govt. Insurance Planning Cttee. and Insurance Law Revision Cttee.; Life Insurance Exec. Cttee., a statutory body for over a year. *Club*: Rotary Club. *Address*: 5, Sobani Road, Colaba, Bombay-5.

KARANJIA, Russay K., B.A. (Hons.), Publisher and Journalist. Editor-in-Chief of *Blitz*, Indian weekly; Correspondent of several leading foreign newspapers. b. Sept. 15, 1912; *Educ.*: St. Xavier's High School and Wilson Coll., Bombay. Took training in Journalism in U.K. and Europe. Commenced journalistic career as reporter, sub-editor and special correspondent with the *Times of India* publications; joined *Sunday Standard* as Deputy-Editor and later became Editor-in-Chief of the *Sunday Standard* and *Morning Standard* (today *Indian Express*); started *Blitz* in Feb. 1941; Editor and Director of *Blitz* Publications; Author of *China Stands Up*, *How Others See Us*, *Seato*, *Arab Dawn*, etc.; was Dy. Leader of the first Indian Goodwill Mission to Peoples' China; President of the India-China Friendship Association, Bombay; was honoured with the gift of a machine-gun named "Fort Said" by President Nasser of U.A.R. for his services at the time of the Suez War. *Recreations*: Riding; Tennis. *Address*: Framrose Court, Netaji Subhas Road, Bombay.

KARANTH, K. R., B.A., LL.B., member, National Executive, Praja Socialist Party; Advocate, Supreme Court. b. May 1, 1904; *Educ.*: B.A. from Central Coll., Bangalore, 1916; LL.B. from Law School, Bombay, 1918.

Member: Madras Leg. Council, 1926-29; and Madras Leg. Assembly, 1937-39 and 1946-51; Parliamentary Secy., Madras Govt., 1937-38; Minister, Madras, 1946-47. *Publications*: *Travels in Europe* (Kannada). *Recreations*: Tennis; Reading. *Club*: Bowring Institute, Bangalore. *Address*: 10, Kumara Park East, Bangalore 1.

KARANTH, K. Shivarama, Kannada Author and Publisher. b. Oct. 10, 1902; *Educ.*: Board High School, Coondapoor, South Kanara. Joined the N.C.O., Feb. 1922; took to writing, 1924; editor of a Kannada monthly, 1924-29; made experiments in child education, drama and dance; pursued literary profession. *Publications*: Wrote a large number of plays and novels; wrote *Baleprapancha*, 3 Vols. — Encyclopedia for children. Published 1936-39, some 15 novels, 20 or more plays, Kannada-Kolnada dictionary, a monogram on Yakshagana dance drama, at work on Popular Science Encyclopedia in Kannada. *Recreations*: Walking. *Address*: Puttur (S. Kanara).

KARMARKER, Dattatraya Parashuram, M.A., LL.B., Minister of Health, Govt. of India, since April 1957. b. July 20, 1902 at Mantur, Dharwar Dist.; *Educ.*: Karnatak Coll., Dharwar; Deccan Coll. and Law Coll., Poona. Lawyer; led no-tax campaign in Ankola Taluka, 1930-32; courted jail in the freedom movement; member: Karnatak Education Board, Dharwar; Historical Research Society; Kannada Research Board; Indian Historical Records Commission; District Anti-Corruption Cttee.; Founder-Member, Law Coll., Belgaum; Pres., Karnatak P.C.C.; M.L.A. (Central), 1945-47; member: Constituent Assembly, 1950-52; Lok Sabha, 1950-57; Delegate to the International Conference on Trade at Geneva, 1947 and Havana, 1947, Economic and Employment Commission, New York, 1948, fourth General Assembly of U.N., 1949; Leader of the Indian Delegation to the ECAFE Conference at Lahore, 1951, at Rangoon, 1952, at Bandung, Indonesia, 1953, Tokyo (Japan) 1955, Bangkok (Thailand), 1957; Vice-Chairman, ECAFE, 1952-53; Chairman, ECAFE Session, Bangalore, 1956; Leader of the Indian Delegation to GATT (Geneva), 1953; Dy. Minister, Commerce & Industry, Govt. of India, till Aug. 1952. Min. for Commerce, 1952-56; Minister of Trade, 1956-57. elected to Lok Sabha from Mysore-Dharwar North, 1957. *Hobbies*: Walking, Swimming, Rowing and Gardening. *Recreation*: Reading. *Publications*: Books in Kannada: *History of Congress*; *A Primer to Constitutional History*; *Bal Gangadhar Tilak: A Study* (In English); Editor, Vijaynagar Commemoration Volume. *Address*: 7, Race Course Road, New Delhi.

KARMARKER, Sadashiv Ganesh, Master Mariner (1938), M.B.E., Commodore-in-Charge, Cochin (Training and Establishment), since May 1, 1957. b. Oct. 17, 1912 at Myinjau, Upper Burma; *Educ.*: New English School, Poona; "Dufferin", 1927-30, Merchant Service, 1930-37; Higher studies in U.K., 1938-39; in War, 1939-45; 1st Indian to be Lieutenant in Royal Naval Reserve; War Service: Middle East, Indian Coast, Far East (including Australia & Japan); Director of Plans and Chief of Administration at Naval Hqrs., Commanding Officer of Ships, Captain of Naval Barracks, Captain Supdt. of Naval Dockyard, Flag Captain to Flag Officer (Fleet), Indian Fleet, Oct. 1950 to Mar. 1953. *Recreations*: Cricket, Squash, Swimming, Golf, Tennis. *Clubs*: United Services Officers Club, Cochin 4; The Delhi Gymkhana, Delhi. *Address*: C/o Fleet Mail Office, Bombay-1.

KARMARKER, Vinayak Pandurang, Sculptor. b. Oct. 2, 1891; *Educ.*: School of Art, Bombay, 1910-13; Royal Academy, London, 1920-22. Established himself as a sculptor. *Publications*: Occasional articles in Marathi and Presidential Addresses. *Recreations*: Animal pets. *Clubs*: Bombay Art Society; Art Society of India, Bombay. *Address*: 7, Union Park, Chembur, Bombay 38; Studio, Deonar Road, Chembur.

KARVE, Dr. Dhondo Keshav, B.A., Bharat Ratna (1958), Pioneer in Women's education and Founder and ex-Vice-Chancellor, Shree-mati Nathibai Damodar Thackersey Indian Women's Univ., Poona (Hqrs. now in Bombay). b. April 18, 1858; *Educ.*: B.A. from Kiphinstone Coll., 1885. Worked in several schools in Bombay, as Mathematics Teacher, till 1892; Prof. of Mathematics, Ferguson Coll., Poona, 1892-1914; became Life Member, Deccan Education Society; founded Widow Re-marriage Assoc., 1893; started Hindu Widows Assoc. with the help of his wife, 1896 and Widows' Home, 1899; started Mahila Vidyalaya for the education of girls (married as well as unmarried), 1907; retd. from Deccan Edn. Society, 1914; re-organised both at Hingne Budruk, a Boarding School for Women, 1915; Pres., Indian Social Conference, Bombay, 1915; founded in 1916 Hindu Women's Univ., now known as Shree-mati Nathibai Damodar Thackersey Indian Women's Univ., as a result of the munificent donation of Rs. 15 lakhs given by late Sir Vithaldas D. Thackersey; travelled extensively throughout India and the world, since 1916, doing propaganda and collecting funds for the Univ.; member, Senate of the Univ.; elected Vice-Chancellor, Univ., June 1932; worked for Maharashtra Village Primary Education Society, 1930; started Samata Sangh, 1946; D.Litt., Benares Univ., 1942; D. Litt., Poona Univ., 1951; D.Litt. S.N.D.T. Univ., 1954; D.Litt. (Allahabad Univ.), 'L.D. (Bombay Univ., 1958); Padma Vibhushan, 1955. *Publications*: Autobiography (in Marathi); Looking back (English). *Address*: Chiplunkar Road, Poona 4.

KATARI, Vice-Admiral Ram Dass, I.N., I.d.c., Chief of the Naval Staff, Indian Navy, since Apr. 22, 1958. b. Oct. 8, 1911; *Educ.*: Mahboob College, Secunderabad; Nizam Coll., Hyderabad; Training Ship, "Dufferin", Bombay. Hooghly River Survey for a few years; then Indian Navy; War Service in Atlantic and Indian Oceans; several sea-commands since; Chief of Personnel at Naval Headquarters, 1940-51; Imperial Defence College, London, 1953; Dy. Chief of the Naval Staff, Indian Navy, 1954-55; Flag Officer Commanding, Indian Fleet, Oct. 1956—April 1958. *Recreations*: Tennis and Golf. *Clubs*: Delhi Gymkhana Club, Delhi Golf Club, Defence Services Club, New Delhi. *Address*: Naval Headquarters, New Delhi.



KATJU, Dr. Kallias Nath, M.A., LL.D., D.Litt. Chief Minister, Madhya Pradesh, since Jan. 31, 1957. b. June 17, 1887; *Educ.*: Barr High School, Jaora (M.P.); Forman Christian College, Lahore; Muir Central College, Allahabad. Practised at Kanpur (1908-14); joined High Court Bar, Allahabad, 1914; LL.D., Allahabad Univ. (1919); Advocate, Allahabad High Court (1921); member, Council of U.P.C.C. and A.I.C.C. till 1946; elected Chairman, Allahabad Municipal Board (1935-37); Chancellor, Prayag Mahila Vidyapith; Pres., Allahabad Dist. Agri. Assoc.; Editor, Allahabad Law Journal (1918-46); member, Executive Council, Banaras Hindu Univ., and Constituent Assembly of India (1946-47); Minister of Justice, Industries and Development, U.P. Govt., 1937-39 and April 1946 to Aug. 1947. Imprisoned for 18 months in connection with Civil Disobedience Movement, Nov. 1940; detained under D.L.R., Aug. 1942 to April 1943; Governor of Orissa, August 1947 to June 1948; Governor of West Bengal, 1948-51; Minister for Home Affairs and Law, 1951-52; Minister for States and for Home Affairs, May



1952-Jan. 1955; Defence Minister, Jan. 10, 1955-Jan. 30, 1957. *Publications*: A thesis on the Law relating to Criminal and Actionable Conspiracies, and a commentary (with Mr. S. O. Das) on the Codes of Civil and Criminal Procedure; *My Parents*, 1950; *Reminiscences and Experiments in Advocacy*, 1952; *My memorable cases*; *Rural Development through Self-help*. *Address*: Bhopal.

KATRE, Dr. Sumitra Mangesh, M.A., Ph.D. (London), Director, Deccan College Post-graduate and Research Institute, Poona, since 1942; on Special duty since Oct. 1956 as Director and Editor, Dictionary of Sanskrit on Historical Principles. b. April 11, 1906; *Educ.*: Ganapathi High School and Govt. College, Mangalore; Presidency College, Madras; School of Oriental Studies, London Univ., Orientalisches Seminar, Univ. of Bonn. Professor of Sanskrit Languages, N. Wadia College, Poona (1933-34); S. P. College, Poona (1937-39); Professor of Indo-European Philology, Deccan College Post-graduate and Research Institute, Poona (1939-42); Hon. Treasurer, Linguistic Society of India, since 1954. *Publications*: Founder-Editor, *New Indian Antiquary and Oriental Library Digest*, and of several commemorative volumes; *Formation of Konkani*; *Introduction to Indian Textual Criticism*; *Prakrit Languages and their Contribution to Indian Culture*. *Address*: Deccan College, Poona 6.

KATZ-SUCHY, H.E. Dr. Julius, Jur., Polish Journalist and Diplomat; Ambassador of Poland to India, since June 1957; concurrently accredited to Ceylon, since 1958. b. 1912; *Educ.*: Cracow, Prague and Warsaw Univs. (Law and Economics). Editor and editorial writer of several socialist publications in Poland, 1934-38; in exile as a political refugee in Czechoslovakia, 1938-39; during Second World War exiled in England and employed as factory worker, 1940-44; Deputy Dir., Polish Press Agency, London, 1944-45; Press Attache, Polish Embassy, London, 1945; Deputy Chief of Section, Ministry of Foreign Affairs, 1945-46; Acting Representative of Poland to the Security Council, U.N., 1947; Permanent Representative of Poland to the U.N. with rank of Minister Plenipotentiary and Poland's Representative in the Economic and Social Council of the U.N., 1948-52; Delegate to 2nd-6th Sessions, U.N. Gen. Assembly, 1948-50; Vice-Pres., 2nd part 3rd Session, 1949; Rank of Ambassador at large, 1956; Delegate to the 9th, 10th, 11th, 12th & 13th Sessions of the U.N. Economic and Social Council; Delegate to the Economic Commission for Europe, 1950-56 (Chairman, 1956 Session); Prof. of International Law at the Academy of Diplomatic Service, Warsaw, 1951-53; Prof., Warsaw Univ., 1954-57; Member, State Council for Atomic Energy, 1955; Dir., Polish Institute of International Affairs, 1951-57; Member, Advisory Council of the Ministry of Foreign Affairs; Chairman of Delegation to the Foundation Conference of the Atomic Energy Commission, 1956; Delegate to E.C.A.F.E. Sessions, Bangalore, 1956 and Kuala-Lumpur, 1958. *Publications*: *International Organizations*; *Problems of Membership of the U.N.O.*; *The Place of Poland in the World*, etc. *Address*: 22, Golf Link Area, New Delhi.

KAUL, Trilok Nath, B.A. (Hons.) (Punjab), LL.B. (All.), LL.M. (London), Ambassador to Iran. b. February 8, 1913; *Educ.*: S. P. Coll. (Srinagar); Prince of Wales Coll. (Jammu); Law Faculty (Allahabad); King's Coll. & School of Oriental Studies (London Univ.). Passed I.C.S., 1936; worked as Joint Magistrate, Rural Development & Census Officer, Settlement Officer & District Magistrate till 1945; was member, War Services Selection Board and then Secy., Indian Council of Agricultural Research, Govt. of India, 1945-47; first Secy., Indian Embassy, Moscow, 1947-49; Dy. Secy.-Genl., Indian Delegation to U.N., 1947; First Secy.,

Indian Embassy, Washington, 1949-50; Counsellor, Indian Embassy, Peking, 1950-52; Minister, Indian Embassy, Peking, 1952-53; Joint Secy., Ministry of External Affairs, Govt. of India, 1953-56; member of delegation which negotiated the Sino-Indian Agreement on Tibet, 1954; Chairman, International Commission and leader, Indian delegation, Viet Nam, 1956-58. *Recreations*: Cricket, Tennis, Music, Reading, Writing. *Clubs*: Delhi Gymkhana Club. *Address*: C/o Ministry of External Affairs, New Delhi.

KAUL, (Master) Hinda, B.A. (Punjab), Kashmiri Post; Pensioner, Jammu and Kashmir Govt. b. Aug. 1884; Educ.: Church Mission School, Srinagar. Worked as Teacher, 1901-22; as Surveyor, Archaeology, J. & K. Govt., 1922-31; Translator, Publicity, J. & K. Govt., 1931-39; began writing poetry in Kashmiri since 1940; won Govt. of India Rs. 5,000 prize for *Smaran*; popularly called by pupils 'Masterji!'; was a theosophist. *Publications*: *Paara Pushp* (Hindi poems); *Smaran* (Kashmiri poems); *Philosophy of a Sheep* (Eng. prose pamphlet against meat-eating or animal sacrifice); *Paramananda* (Life & longer poems of Kashmiri Saint-Poet with Eng. translation and notes). *Address*: Shehilteng, Srinagar, Kashmir.

KAZEMI, His Excellency Mortaza Mochegh, Ambassador Extraordinary and Plenipotentiary for Iran in India and Envoy Extraordinary and Minister Plenipotentiary for Iran in Thailand, since 1958. b. 1902; Educ.: Berlin Univ.; Ecole Des Sciences Politiques, Paris. First Secy., Legation Stockholm, 1935-38; Counsellor, Cairo, 1941-44; Chief of Legal & Treaties Section, Ministry of Foreign Affairs, 1944-46; Alternate Delegate to U.N.O., 1947; Env. Ext. and Min. Plen., to Syria, 1949-54; Chief Des Cabinet and Chief of Protocol, 1954-56; Political and Parliamentary Dy. Foreign Secy., Ministry of Foreign Affairs, 1956-58; recipient of honours from the following Govts.: Second grade Homayoun order and Third grade Tadj order, Iran; Officer Fign of the Northern Star, Sweden; Second grade Nile order, Egypt; Order of Merit, Germany; Order of Merit Distinguished grade, Syria; First grade Sedr, Lebanon; Order of Merit First grade, Italy; First grade Rasfadin order, Iraq. *Address*: Iranian Embassy, 5, Barakhamba Road, New Delhi.

KARI, Syed Ghiyasuddin, B.A., LL.B., Minister for Civil Supplies, Housing, Printing Press and Fisheries, Govt. of Bombay, since April 1957. b. Nov. 22, 1901; Educ.: Amravati and Aligarh. Joined Non-co-operation movement, 1922; started practice as a lawyer at Akola, 1930; appointed Asstt. Public Prosecutor; resigned, 1938; associated himself with Jamiat-ul-Ulema-i-Hind after 1946; elected Pres., Madhya Pradesh branch; called a Convention of Muslim leaders of various important political parties and openly advised Muslims to join the Congress, 1948; elected M.L.A. in 1952 elections; did yooman service to the cause of labour in M.P. as Chairman, Industrial Relations Ctte.; on reorganisation of States, was appointed Deputy Minister for Law and Public Health; re-elected M.L.A. in the 1957 general elections. *Hobby*: Reading. *Address*: Bungalow No 20, Nepan Sea Road, Malabar Hill, Bombay 6; 'Rain Basera', Tajnapeeth, Akola, Bombay State.

KERAR, Dr. Narain Das, M.Sc. (Punjab), Sc.D. (Johns Hopkins), Scientist, Principal, Post-Graduate Coll. of Animal Sciences, Indian Veterinary Research Institute, Izatnagar, since July 1958. b. July 21, 1902; Educ.: Forman Christian Coll., Lahore; Johns Hopkins Univ., Baltimore, U.S.A.; won gold medal and Univ. merit scholarship in B.Sc. Biochemist; Malaria Institute of India, Kasauli, 1929-32 & 1934-37; India Vet. Res. Inst., Mukteswar, 1937-39; Rockefeller Foundation Fellow, International Health Division, 1932-34; held several posts in the Indian Vet. Res. Inst., Izatnagar, viz., the

Officer-in-charge, Animal Nutrition Division, Research Officer (Physiology), Head of Animal Nutrition Division, and Director, 1939-58; elected Pres., Physiology Section, Indian Science Congress, 1953; Chairman, Animal Nutrition Ctte., Indian Council of Agri. Research and Animal Feed Ctte., Indian Standards Institution; member, Advisory Board, Indian Council of Agri. Research; Pres., Assoc. of Scientific Workers of India, Indian Vet. Res. Inst., Izatnagar Unit. *Publications*: Over 150 original papers in various foreign and Indian scientific journals. *Recreations*: Research; Post-graduate teaching; Outdoor picnics; current literature. *Clubs*: Bareilly Club. *Address*: Izatnagar, U.P.

KERAR, Dr. Bal Krishna Vishwanath, D. Litt. (Paris), 1935, Minister of Information and Broadcasting, Govt. of India, since May 1952. b. 1903; Educ.: Poona, Hyderabad, Banaras (Kashi vidyapith) and Paris. Active Congress worker in the U.P. since 1920; took part in all the movements started by the Congress; General Secy., Indian National Congress, 1946; elected to the Constituent Assembly from U.P., Jan. 1948; India's official delegate to Inter-Parliamentary Conference at Rome, Sept. 1948; Member, Indian delegation to the U.N. General Assembly, 1950; widely travelled in America, Europe and the Far East; elected to the Lok Sabha from Sultanpur Dist. (U.P.), Feb. 1952; re-elected to the Lok Sabha from Musafirkhana constituency (U.P.), 1957. Dy. Minister for External Affairs, 1949-52; re-appointed Minister of Information and Broadcasting, April 1957; member, Foreign Affairs Sub-Committee of Cabinet since April 1958. *Recreations*: Photography, Hiking and Music. *Address*: 8, Hastings Road, New Delhi.

KHATTAN, Matadin, Business man. b. May 1913. Is connected with various public bodies; member: Indian Council of Agricultural Research; National Liaison Ctte. of the F.A.O., Govt. of India; Development Council for the Sugar Industry; Rajasthan Rural Water Supply Board; National Sugar Institute, Kanpur; I.S.I. (Sugar Sectional Ctte.); Life-member: Indian Red Cross Society; National Sports Club of India; Ctte. member, Bharat Chamber of Commerce; President, Bengal Sugar Merchants' Assoc. (1946, 1947, 1949, 1950, 1952); Vice-Pres., B. B. Dist. Congress Ctte. (1954); Secy., Marwari Relief Society, 1943, '50, '53; Director: Matadin Khaitan & Co., Ltd., Sahu Properties, Ltd.; The Balarampur Sugar Co. Ltd.; Vegetable Products Ltd.; Managing Director, Hind Sugar Co. Ltd.; Founder Trustee, Jhunjhunu Charitable Trust; travelled extensively in Japan and Far East during 1952 and U.S.A. and continental countries of Europe during 1954. *Address*: 9, Ramkumar Rakhit Lane, Calcutta 7.

KHATTAN, Motilal, Chairman, Board of Directors, Bata Shoe Co. Private Ltd., Calcutta. b. July 19, 1906;



Educ.: B.A. (Cal. Univ.), Attorney-at-Law, Director: Associated Hotels of India Ltd.; Chowringhee Properties Ltd.; South India Insurance Co. Ltd.; East India Hotels Ltd., etc.; travelled extensively in Europe, United Kingdom, United States of America, Far East, Australia, New Zealand, Japan, etc. *Address*: 226/1, Lower Circular Road, Calcutta 20.

KHAN, Mr. Justice Abdul Hakim, M.A., LL.M. (London), Bar-at-Law, Judge, Madhya Pradesh High Court. b. March 23, 1905; Educ.: St. Peter's Coll., Agra; Muslim Univ., Aligarh; Univ. Coll., London; Lincoln's Inn. Practised at the Bar; entered Gwalior service as Pains Judge, 1931; acted as Chief Justice; officiated as Law Member; became Senior

Member, Judicial Ctte., Hussor Darbar, Gwalior, O.I. *Recreations*: Walking; Tennis; Shooting. *Club*: Jiwaji Club, Gwalior, O.I. *Address*: Morar, Gwalior.

KHAN, Allauddin, D.Mus. (1944), Honour by the President of India (1952), Sangeet Nayak and Sitare Hind, Aftabe Mousique, Sangeet Samrat, Bharat Gourab Sangeet Acharya, Jind of Music, Musician, Padma Bhushan (1958), Hon. Principal, Govt. Music College, Maihar; Educ.: Under many ustads and gurus of music, namely Ahmad Ali Khan, Mohd. Hussain Khan and Wasir Khan, for forty years; learned on Indian instruments like Sarod, Vina, Suraringar, Rabab, Sitar, Shahnai, Mridang, Tabla and Dhol and English instruments like Violin, Cornet and Clarinet; was in the service of Maihar State as Raj Gura; has given many music performances at important places in India and abroad specially European countries; invented new string instruments, viz., Sur-Sitar and Chandrasarang. *Address*: Maihar, Madhya Pradesh.

KHAN, Ustad Niamullah, Musician. b. March 21, 1916 at Dumraon, Shahabad Dist., Bihar; Educ.: Received Shahnasee training under his uncle Ali Bux Khan and father Faigamber Khan. Gave his first public performance at the age of 14 at the All India Music Conference at Allahabad, 1930; again appeared at the Music conference at the Lucknow Exhibition, 1934, and awarded gold medals; awarded three gold medals at the All India Music Conference, Calcutta, 1937; gives frequent performances at the A.I.R. stations in India; awarded Academy Award for Hindustani Instrumental Music by President Rajendra Prasad, April 1956. *Address*: C. K. 46/62, Sarai Harha, Banaras.

KHAN, Ustad Rafis Ali, Musician; Professor of Sarod & Sitar, Bharatiya Kala Kendra, New Delhi. b. 1894, in Gwalior; Educ.: Started learning vocal music and Sarod at the age of nine under his father; also studied Hori Dhorupad and Surasinger from Gasmaji Lalji and Ustad Ujir Khan; has been serving the All India Radio since its inception; became Court Musician at the Darbars of Gwalior and Gouripur of Bengal; Sarod recital appreciated by public both at home and abroad; awarded 'Aftabe Sarod' by Bengal, 'Sangit Ratan' by Maharaja Scindia Jivaji Rao; was presented a 'Sanaad' by Rashtrapathi Rajendra Prasad; is member, Sangeet Natak Academy; is associated with many other musical organizations. *Address*: Bharatiya Kala Kendra, 35/25, Firozshah Road, New Delhi.

KHAN, Mushtaq Hussain, Certificate in Hindi, Urdu and English, Padma Bhushan (29-10-1957), a leading Hindustani musician; has been in the service of Nawab of Rampur for over 40 years. Is the recipient of several honours like Sangeet Bhushan from Darbhanga State, Fakhr Musiqi from Lucknow, Shere Musiqi from Calcutta, one thousand rupees and Kashmiri Shawl from Delhi in 1951 and certificate and a medal from the President of India, Dr. Rajendra Prasad. b. Dec. 5, 1891, at Sahaswan Dist., Badaun (U.P.). Learned music from 12 different ustads including Ustad Inayat Hussain Khan. Has rendered music from most of A.I.R. stations; is a member, Audition Board, A.I.R.; is connected with the famous musician Tansen; awarded Padma Bhushan-gold medal with a certificate by the President of India at Rashtrapati Bhawan, New Delhi, Oct. 29, 1957. *Address*: Purani Kotwall, Rampur.

KHAN, Sadath Ali, Parliamentary Secretary to the Ministry of External Affairs, since 1953. b. Sept. 16, 1916; Educ.: Nizam Coll., Hyderabad. Elected to Parliament on Congress ticket, 1952 and 1957; attended the Trusteeship Council Session of the United Nations as an Alternate Delegate, Jan.-April 1954; attended the General Assembly Session of the United Nations as an Alternate

Delegate, Sept.-Dec. 1954; travelled widely in the Middle East, both in official as well as private capacity. *Publications*: *Projects for Prosperity* (a Govt. of Hyderabad Publication). *Recreations*: Reading; Writing. *Clubs*: Secunderabad Club, Secunderabad. *Address*: 13, Canning Lane, New Delhi.

KHAN, Shah Nawaz, Chiefs Colleges Diploma, Deputy Minister for Railways, Govt. of India, since Sept. 21, 1956. b. Jan. 24, 1914; *Educ.*: Prince of Wales Royal Indian Military Coll., Dehra Dun; Indian Military Academy, Dehra Dun; took Chiefs Colleges Diploma, 1930. Commissioned as 2/Lt. in the Indian Army in 1/14th Punjab Regt., Feb. 1935; promoted Actg. Capt., Oct. 1939; proceeded Overseas, Jan. 1941; joined Asad Hind Fauj of Netaji and promoted Major General, 1943; principal accused in the Red Fort Trial of the I.N.A.; elected M.P. from Meerut; Parliamentary Secy. to the Minister for Railways and Transport, Aug. 12, 1952-Sept. 20, 1956; again elected to Lok Sabha, 1957. *Publications*: *I.N.A. and its Netaji*. *Recreations*: Shooting; Farming. *Address*: 4, Old Mill Road, New Delhi.

KHANDEKAR, Vishnu Sakharan, Marathi Writer; President, Marathi Sahitya Sammelan. b. Jan. 11, 1898; *Educ.*: Sangli High School, Sangli; Ferguson Coll., Poona. Headmaster, T. K. School, Shiroda (Dt. Ratnagiri), 1920-38; Screenplay Writer to Huns Pictures, Navy Pictures and Prafulla Pictures, 1936-47; Author, Short Story Writer, Critic, Novelist, Essayist, 1919-58. *Publications*: About 50 books in Marathi, many of which have been translated into Gujarati, Tamil, Hindi, etc. *Recreations*: Reading; Walks. *Address*: 7, Rajarampuri, Kolhapur.

KHANNA, Krishan, B.A. (Hons.), Painter. b. July 5, 1925; *Educ.*: Imperial Service College, Windsor, during the war; took B.A. (Hons.) degree from Govt. Coll., Lahore, 1945. Served in a printing press in Lahore, 1945-47; employed in an Exchange Bank and came to Bombay, 1948; met Newton Souza, Ara, Raza, Husain and Gade who were painting there at the time; was stimulated by this meeting and began to paint seriously; joined their group—the Progressive Artist Group and exhibited with them several times; since then has been to Europe again; has held several one man exhibitions in Madras, Bombay and Delhi; exhibited with Husain, Gaitonde, Kulkarni, Sawant, Ram Kumar and Gujral in an exhibition in Delhi, 1956; has been exhibiting at Lalit Kala and Bombay Art Society; participated in the International Exhibition of Art in Japan, 1957; exhibited with a group of leading Indian painters in New York, Jan. 1959; his works are represented in the national collection and in many private collections at home and abroad. *Recreations*: Music. Literature. *Address*: 115, Lloyds Road, Madras.

KHANNA, Mohr Chand, Minister of Rehabilitation, Govt. of India, since Dec. 1954. b. 1897. Finance Minister, North-West Frontier Province, 1946-47; migrated to India after partition; Adviser, Ministry of Rehabilitation, Government of India, 1948-54. *Clubs*: Delhi Gymkhana Club. *Address*: New Delhi.

KHANOLKAR, Dr. Prakash Dhanaji, M.D. (Bom.), B.M.S. (I), Civil Surgeon, Jalgaon, since Feb. 28, 1958; Pres., Red Cross Society; member: Remand Home.



Medical College, 1939-43; Pathologist to

b. March 28, 1913; *Educ.*: Elphinstone High School, Elphinstone College and S. G. S. Medical College, Bombay. House Physician, G. T. Hospital under Dr. N. K. Sahkar, M.D., M.B.C.P., 1937; House Surgeon under Dr. V. R. Sansgiri, Sr. Surgeon, 1938-39; Tutor in Pathology and Bacteriology, S. G. S.

Kolhapur State, 1945-47; Chief Medical Officer and Director of Public Health, 1947-49; Civil Surgeon, Kolhapur, 1949-50; takes keen interest in activities conducive to the improvement of public health and general welfare of the poor and needy; was responsible for the early prevention of the spread of a curious type of plague in Kolhapur, 1947; Pres., Rotary Club, Belgum; organised Blood Bank in Belgum; Civil Surgeon, Belgum, 1950-54; Civil Surgeon, Sholapur, 1954-58; organised Surgical Camp at Pandharpur, Jan. 1957. *Recreations*: Bridge and Outdoor games. *Address*: Civil Surgeon, Jalgaon, East Khandesh.

KHARE, Dr. Narayan Bhaskar, B.A., M.D. b. 1884. Ex-Chief Minister, M.P.; resigned from Govt. service, 1916; Member, Leg. Council, M.P., 1923-29; imprisoned in 1930 C.D. Movement; M.L.A. (Central), 1935-37, where he placed on the Statute the "Arya Marriage Validation Bill"; First Prime Minister of M.P., 1937-38; resigned on account of differences with Mahatma Gandhi and the Congress Working Ctee.; member, Viceroy's Executive Council, Dept. of Commonwealth Relations, May 1943 to June 1946; argued the I.N.A. cases privately with a view to securing a pardon and emphasised the mercenary nature of the Indian Army under the British; responsible for securing citizenship rights for Indians domiciled in America, saving lives of Indians accused of high treason in Malaya and for various steps taken against South Africa; represented Alwar State in the Constituent Assembly of India as Prime Minister, Alwar and suppressed Muslim rebellion against that State, 1947; elected Pres., All-India Hindu Mahasabha at its Calcutta Session, Dec. 1949 and Poona Session, Dec. 1950 and Jaipur Special Session, April 1951; elected to Lok Sabha, 1952. *Publications*: *My Defence* (English), 1938; Autobiography in Marathi and Hindi, 1956. *Address*: Indira Mahal, Dhantoli, Nagpur.

KHER, Atmaram Govind, B.A., LL.B., Speaker, U.P. Leg. Assembly. b. September 25, 1894; *Educ.*: Jhansi; Hindu Central College, Banaras, and Law College, Allahabad. Chairman, Municipal Board, Jhansi for 3 terms; member, District Board, Jhansi, for ten years; twice member, Legislative Assembly; member, District, Provincial and All-India Congress Committees, several times; imprisoned for political activities five times; twice Parliamentary Secretary to Minister of Health and Local Self-Govt.; Minister for Local Self-Govt.; Elected Speaker, U.P. Assembly, May 21, 1952; re-elected Speaker, April 10, 1957. *Address*: 19, Mall Avenue, Lucknow.

KHERRAGADE, Shaurao Dewaji, B.A., (Nagpur), Barrister-at-Law (Lincoln's Inn), Founder Secretary, Republican Party of India, since Oct. 1957. b. Sept. 25, 1925; *Educ.*: Govt. Jubilee High School, Chanda; Coll. of Science, Nagpur; B.A. from Morris Coll., Nagpur, 1945; Bar-at-Law from Lincoln's Inn, 1949. From early life interested in uplift and emancipation of the untouchables; during student life organised Scheduled Castes students; Secy., Scheduled Castes Students' Federation (M.P.), 1943-44; Vice-Pres., Municipal Ctee., Chanda, 1952-56; Pres., Nagpur Pradesh S. C. Federation, 1953-55; General Secy. All India S. C. F., Aug. 1955-Dec. 1956; elected Pres., All India S.C.F. Dec. 1956 till it was dissolved in Oct. 1957; Founder Pres., Presidium, an organisation to control the various educational, religious and social institutions started by late Dr. B. Ambedkar; Pres., Bombay Pradesh Bidi Majoor Sangh; interested in educational and cultural activities; Founder Pres., Siddharth Shikshan Sahayyak Sanstha (Nag-Vidarbha); elected to Rajya Sabha, March 1958. *Recreation*: Music; Cinema. *Address*: Chanda (Nag-Vidarbha).

KHOSLA, Ajaydhia Nath, B.A. (Hons.), C.E. (Roorkee), Dr. Engineering (Honorary) Bunsenauer Polytechnic Institute, U.S.A.,

Padma Bhushan (1955), Vice-Chancellor, University of Roorkee, since 1954, Member of Parliament (Rajya Sabha) nominated in April, 1958. b. Dec. 11, 1892; *Educ.*: B.A. (Hons.) from D.A.V. Coll., Lahore, 1912; C.E. from Thomason Coll. of Engineering, Roorkee, 1916. Joined P.W.D., Punjab Irrigation, 1916; Indian Service of Engineers, 1919; Executive Engineer, 1926-30; Superintending Engineer, 1930-43; Chief Engineer, 1943-45; Consulting Engineer and Chairman, Central Water and Power Commission and Additional Secy., Govt. of India, 1945-53; Special Secy., Govt. of India, Ministry of Irrigation & Power, 1953; planned and put under construction major dams and barrages and irrigation and drainage schemes and carried out research in flow of water through sub-soils, rainfall runoff, silting of reservoirs, concrete, etc.; visited U.S.A. and Canada, 9 times, and many countries of Europe, Asia and Africa; Founder Pres., International Commission on Irrigation & Drainage, 1950; Hony. Pres., since 1954; Chairman: Bhakra Board of Consultants, since 1952; Central Board of Geophysics (India), 1950-53; member, Ctee. on Plan Projects, 1957; Chairman, Ctee. on Railway Bridges, 1957; connected with several such ctees. or bodies as Vice-Chairman or Vice-Pres. *Publications*: *Levelling of precision across Rivers—Evolved the Khosla Dias*; *Design of Weirs on Permeable Foundations*; *Sitting of Reservoirs*; *Rainfall and Runoff*; *Pressure observations under Dams*; *Precast Concrete Trough Roofs*. *Address*: Roorkee.

KHOSLA, Mr. Justice Gopal Das, B.A. (Hons. (Cantab.)), Bar-at-Law (Lincoln's Inn), I.O.S., Pusa Judge, Punjab High Court. b. Dec. 15, 1901; *Educ.*: St. George's College, Mussoorie; Emmanuel College, Cambridge, Dist. & Sessions Judge (1930); Pusa Judge, Lahore High Court (1944). *Publications*: *Stern Reckoning*; *Our Judicial System*; *Himalayan Caves*; Short stories and articles. *Recreations*: Writing, Sport, Carpentry. *Address*: High Court, Chandigarh.

KHOSLA, His Excellency Jagan Nath, B.A. (Punjab), B.Sc. (Bcon.), (London), Ph.D. (Bcon.), (London), Barrister-at-Law, Indian Ambassador to the United States of Indonesia, since Oct. 1958. b. Jan. 28, 1906; *Educ.*: Srinagar, Lahore, London and Paris. Taught Political Science in the Punjab Univ., 1932-48; Editor, *Indian Journal of Political Science*, 1945-48; Pres., Indian Political Science Assoc., 1947; member, Exec. Ctee. of International Political Science Assoc. and International Sociological Assoc., 1949-51; Fellow of the Punjab Univ., 1947-48; represented India in several International Conferences; was Alternate Delegate to the F.A.O. General Assembly Special Session, Sept. 1956; Head, Consular Deptt., High Commission of India, London, 1948-51; Charge d'Affaires of the Indian Embassy, Rome and concurrently at Belgrade, 1951-52; Head of the Historical Division, Ministry of External Affairs, 1953-54; Pres., International Commission for Control and Supervision, Laos, Indo-China, 1954-55; Ambassador to Czechoslovakia, 1955-58 and concurrently to Rumania, Feb.-Oct. 1958. *Publications*: Scientific papers in journals. *Clubs*: The Gymkhana Club, Delhi. *Address*: C/o External Affairs Ministry, New Delhi.

KIDWAI, H.E. Mr. Mustafa Kamal, B.A., LL.B., Ambassador of India in Saudi Arabia, since 1957. b. April 16, 1908 at Masulul, Barabanki, U.P.; *Educ.*: Alligarh Muslim Univ., U.P.; Lucknow Univ. Judicial Officer with Civil and Criminal Powers, U.P. Judicial Service, 1934-46; Under Secy. and Asst. Legal Remembrancer, U.P. Govt., 1946-47; attached to the Ministry of Law, Govt. of India, 1947-48; Deputy Secy. and Dy. Legal Remembrancer, U.P. Govt., 1948-49; Secy., Durgah Khwaja Ajmer Enquiry Ctee., appointed by Ministry of Home Affairs, Govt. of India, 1949-50; Dy. Secy. and Dy. Legal Remembrancer, U.P., 1950-51; Consul-General of India in Saudi Arabia, 1951-54; Charge

d'Affaires, Indian Legation, Jeddah, 1954-55; Minister, Legation of India, Jeddah, 1955-56. *Recreations*: Tennis. *Address*: C/o External Affairs Ministry, New Delhi.

KILACHAND, Ambalal, J.P., Greater Bombay, Business man. b. July 23, 1912; *Educ.*: Elphinstone High School, Bombay and in England. Director, Kilachand Devchand & Co.



Private Ltd., and their associated companies as also other private & Public Limited concerns such as the Kesar Sugar Works Ltd., The New Great Insurance Co., of India Ltd., The Indian Dye-stuff Industries Ltd., The Polychem Ltd., Trustee, Bombay Port Trust; member: Customs Advisory Cttee.; Pres., Indian Merchants' Chamber.

1953-54; was member, Import Advisory Council set up by the Govt. of India since its inception up to 1956; is an ardent Rotarian; has extensively travelled in the U.K., Europe and the Far Eastern countries including Japan for developing his firm's business. *Recreations*: Riding, Golfing, Shooting, Photography, Gardening, Art Collecting. *Clubs*: Willingdon Sports Club, Rotary Club of Bombay, Cricket Club of India, Radio Club, NASCO, Flying Club, R.W.I.T.C. Ltd. *Address*: Office: 45/47, Apollo Street, Fort, Bombay 1; *Residence*: 95, Nepean Sea Road, Bombay 6.

KILACHAND, Chinubhai, Business man. b. June 20, 1919; *Educ.*: Fellowship High School and St. Xavier's, Bombay and in England. On his return from England, joined the family firm of Kilachand Devchand & Co. Private Ltd., 1939; has been responsible for developing its Foreign Cotton Deptt.; Director: Kilachand Devchand & Co. Private Ltd. and its associated companies; also of other public companies; Joint Managing Director, Premier Automobiles Ltd.; Pres., Indo-German Chamber of Commerce, Bombay; has travelled widely in the U.K., Europe and in the United States of America in connection with the development of the business of his firm; is a prominent figure in the social circles in Bombay, Delhi and other important cities of India; elected Chairman, Indian Society of Advertisers Ltd., June 1958. *Recreations*: Golf, Tennis. *Clubs*: Willingdon Sports Club, Cricket Club of India, N.S.C.I., R.W.I.T.C. Ltd., etc. *Address*: Office: 45/47, Apollo Street, Fort, Bombay 1; *Residence*: 95, Nepean Sea Road, Bombay 6.

KILACHAND, Ramdas, Business man. b. Sept. 18, 1909; *Educ.*: Elphinstone High School, Bombay and in England. On his return from England, joined his family firm of Kilachand Devchand & Co., Ltd., 1926; developed the Company's cotton and oilseeds export business; Director, East India Cotton Assoc. Ltd., for over 15 years; was its Vice-Pres. for some time; Pres., Bombay Oilseeds & Oil Exchange Ltd.; Ex-Trustee: Bombay Port Trust; Bombay Pinjrapole; Pres., Indian Merchants' Chamber, 1948-49; member: Indian Central Oilseeds Cttee.; Export Promotion Advisory Council set up by the Govt. of India; elected M.L.A., Bombay in the general elections in 1952, as an Independent from a constituency in Mahsana District in north Gujarat; has widely travelled in the U.K., and the Continent of Europe, the U.S.A. and the Far East. *Recreations*: Golf. *Clubs*: Willingdon Sports Club, Radio Club, Cricket Club of India & The Royal Western India Turf Club Limited. *Address*: Office: 45/47, Apollo Street, Fort, Bombay 1; *Residence*: 95, Nepean Sea Road, Bombay 6.



KILACHAND, Talsidas, J.P., Bombay (1947), Business man. b. July 1, 1906; *Educ.*: Elphinstone High School, Bombay, and privately in England. Joined his father's firm Kilachand Devchand & Co. Ltd., at the early age of 18; is actively interested in banking, insurance, shipping, automobile, chemical and sugar industry; member, Trade Delegation to China, 1946; Leader, Govt. of India's Trade Mission to Japan, 1947; was member: Export Advisory Council of the Govt. of India; Three-



Man High Power Import Control Inquiry Cttee. which inquired into the working of the Import Control in India, 1950, furnished a very valuable report; member: Planning Commission Advisory Board, 1950-51; Standing Cttee., Indian Council of Agricultural Research; Pres., Federation of Indian Chambers of Commerce & Industry, New Delhi, 1950-51; elected M.P. in the General Elections in 1952 as an Independent from Mahsana District in north Gujarat; has widely travelled in the U.K., Europe, U.S.A. and the Far East; is member, Standing Cttee. of the Export Promotion Advisory Council. *Recreations*: Golf, Tennis. *Clubs*: Willingdon Sports Club, Bombay; Radio Club, Orient Club, C.C.I., R.W.I.T.C., Delhi Gymkhana Club, Delhi Golf Club, etc. *Address*: Office: 45/47, Apollo Street, Fort, Bombay 1; *Residence*: 95, Nepean Sea Road, Bombay 6.

KIRLOSKAR, Shankar Varadav, General Manager, Kirloskar Brothers, Ltd. b. Oct. 8, 1891; *Educ.*: Sholapur, Belgium, Poona and London. Started as Asstt. in the Kirloskar concern in charge of Sales & Publicity, 1914; edited Kirloskar magazines; Minister for Development, Aundh State; Director, Bombay State Financial Corporation. *Recreations*: Cricket, Tennis, Painting, Reading. *Address*: Kirloskarvadi (Dist. South Satara).

KIRLOSKAR, Shantannu Lakshman, B.Sc. (M.I.T.), Industrialist; General Manager, Kirloskar Oil Engines Ltd., Poona. b. May 28, 1903, at Sholapur; *Educ.*: Massachusetts Institute of Technology, U.S.A., 1926. Worked as Asstt. Supdt., 1927, Supdt., 1929, Manager, 1939 and Managing Dir., 1946, with Kirloskar Bros. Ltd., Kirloskarvadi. Chairman: Indian Machine Tool Manufacturers' Assoc.; Indian Diesel Engine Manufacturers' Assoc.; Engineering Export Promotion Council; Maharashtra Chamber of Commerce; Engineering Division Council of Indian Standards Institute; Swastik Rubber Products Ltd., etc.; member: Development Council for Engines; Machine Tools, Export Advisory Council, Koyana Control Board, Advisory Council of Export Risk Insurance Corporation, Indian Standards Institution, etc.; Director: British India General Insurance Co., Jay Engineering Works Ltd., State Bank of India (Regional Advisory Council for Bombay), Siemens Engineering Co. of India, Kirloskar Electric Co., Kirloskar Pneumatic Co., Lakaki Works, Mysore Kirloskar Ltd., Delhi Cloth & General Mills Co. Ltd., Swastik Rubber Products Ltd., etc. *Recreations*: Music, Theatre and Tennis. *Clubs*: Rotary Club; Poona Club; Royal Western India Turf Club; Western India Automobile Assoc., Club of Maharashtra, etc. *Address*: Bungalow No. 1, Modibaug, Ganeshkhind Road, Poona.

KIRPALANI, Motiram Khushiram, B.A. (Oxon.), C.I.E. (1948), Indian Ambassador to Brazil, since June, 1958. b. Aug. 16, 1901; *Educ.*: Academy, Hyderabad (Sind) and New College, Oxford. Joined the Indian Civil Service, 1926; was Magistrate and Collector, Midnapore, 1934; Esche Commissioner, Bengal, 1935; Secretary, Commerce Department, 1945-47; Joint Secretary, Govt.

of India, Ministry of States, 1948; was Dy. High Commissioner for India in Pakistan; Minister, Indian Embassy in Washington; Ambassador Extraordinary and Plenipotentiary in Bangkok, Thailand; Chief Commissioner, Pondicherry. *Address*: Embassy of India, Rio de Janeiro, Brazil.

KISHORE, Acharya Jugal, M.A. (Oxon.), Ex-Minister for Labour & Social Welfare, U.P., b. April 1894; *Educ.*: Calcutta, Naini Tal and Hindu Collegiate School, Varanasi; Oxford Univ., Oxford. Lecturer, Gujarat Vidyapith, Ahmedabad, 1921; Principal, National Coll., Lahore, 1922; Secy., Gandhi Ashram, U.P., 1927; Principal, Prem Mahavidyalay, Mathura 1929; General Secy., Indian National Cong., 1946-48; Pres., U.P. Cong. Cttee., 1950-52; Vice-Chancellor, Lucknow Univ., 1951-54. *Address*: C/o Secretariat, Lucknow.

KNOX, Most Rev. James R., Titular Archbishop of Melitene; Apostolic Internuncio to India, since 1956. b. March 2, 1914; *Educ.*: Urban Coll. "de Propaganda Fide", Rome. Vice-Rector, Coll. "de Propaganda Fide", 1945-48; attached to Secretariat of State of His Holiness Pope Pius XII, 1948-50; Secy. of the Apostolic Internunciature, Tokyo, Japan, 1950; nominated Apostolic Delegate, British East and West Africa, 1953. *Address*: Apostolic Internunciature, Chanakya Puri, New Delhi 2.

KOTAH, Saig. His Highness Maharajadhiraj Mahi-mahendra Maharao Raja Shri Sir Shrin Singhji Sahib Bahadur, K.C.S.I., the Maharao of. b. 1909, the ruling family belongs to the Hara Sect of Chauhan Rajputs and is an offshoot of the Bundi family, the State having come into existence about 1625 during the reign of Madho Singhji, 2nd son of Rao Ratan of Bundi; the Heir-Apparent, Maharaj Kumar Brijraj Singhji Sahib. b. Feb. 21, 1934; *Educ.*: Mayo Coll., Ajmer. Ascended the gaddi, 1940; Uprajpramukh of Rajasthan, 1948-50; Alternate Delegate in the Indian Delegation to the United Nations General Assembly at New York, 1955. *Address*: Kotah, Rajasthan.



KOTHARI, Daulat Singh, M.Sc. (Allahabad), Ph.D. (Cambridge), F.N.I., Professor of Physics, Delhi University, and Scientific Adviser to the Minister of Defence, Govt. of India. b. 1906; *Educ.*: Udaipur, Indore, Allahabad and Cambridge; studied physics under Dr. Megh Nath Saha at Allahabad Univ. Appointed on the staff of physics Dept., Allahabad Univ. 1928; joined Delhi Univ., 1934 and the Ministry of Defence, 1948; has been Pres., Indian Physical Society; is Vice-Pres., National Institute of Sciences of India. *Publications*: Published numerous papers in Indian and foreign scientific journals on Statistical Thermodynamics, Theory of White Dwarf Stars, and other Physical and Astrophysical subjects; showed that atoms can be ionized (broken down) by the application of pressure alone. *Address*: University of Delhi, Delhi.

KOTHARI, Dayanand Chandulal, M.A. (Madras), Business man; Senior Partner, Kothari & Sons, Madras. b. Feb. 1914; *Educ.*: Madras Christian Coll. Ex-Pres.: United Planters' Assoc. of Southern India; Hindustan Chamber of Commerce, Madras; member: All-India Manufacturers' Assoc.; Export Advisory Cttee., constituted by the Govt. of India; Indian Central Cotton Cttee.; Cttee. of Federation of Indian Chambers of Commerce

and Industry; Ctee. of the All-India Organisation of Industrial Employers; Southern India Chamber of Commerce; Ex-Governor, Rotary, 56th District; Sheriff of Madras; ex-Vice-Pres., Southern India Millowners' Assoc., Coimbatore; Ex-Pres., Estates Labour Relations Organisation of South India; Ex-member, Governing Body of I.N.S. Dufferin; Director: Kothari Textiles Ltd., Adoni Spg. & Wvg. Co. Ltd., The Blue Mountain Estates Ltd., The Madras Safe Deposit Co., Ltd., The Investment Trust of India Ltd., The Waterfall Estates Ltd., The Balmadies Plantations Ltd., The Devon Tea & Produce Co. Ltd., The Balanoor Tea & Produce Co. Ltd., The Jal Bharat Inso. Co., Ltd.; Kil Kotagiri Tea and 'Office Estates Co., Ltd.; Poysha Industrial Co. (Private) Ltd.; member, Madras State Industries Development Ctee. *Publication: Investors' Encyclopaedia. Recreations: Tennis, Bridge. Address: Residence: "Kothari House", 15, Sterling Road, Nungambakkam, Madras.*

KOTHARI, Harshad Chandulal, Business man; Partner, Kothari & Sons; Pres., Madras Stock Exchange Ltd.; Vice-Pres., The United Planters' Assoc. of South India, & Hindustan Chambers of Commerce, Madras; ex-Chairman, Assoc. of Planters, Madras State. b. April 18, 1918; *Educ.: Madras Christian Coll. Ex-Pres., Rotary Club of Madras; member, Ctee.: Madras State Minimum Wages Advisory Ctee.; Tea Board, Calcutta; Madras State Housing Board; Southern India Chamber of Commerce; member: Employers' Federation of India; Madras Export Advisory Council; Govt. of India Minimum Wages Advisory Board; Madras State Aid to Industries; Director: Kothari Textiles Ltd., Adoni Spg. & Wvg. Co., Ltd., the Blue Mountain Estates Ltd., The Madras Safe Deposit Co. Ltd., The Waterfall Estates Ltd., The Balmadies Plantations Ltd., The Investment Trust of India Ltd., Amrutanjani Ltd.; The Coonor Tea Estates Co., Ltd. *Publications: Investors' Encyclopaedia. Recreations: Tennis, Bridge. Address: Residence: 3, Rutland Gate, Nungambakkam, Madras.**

KOTHAVALA, Lt.-Col. Jamshed Derabha, C.B.E., J.P., A.I.R.O. (Retd.), Consul ad honorem of the Republic of the Philippines, Bombay; Past Governor, Rotary International,



Member, 1958 Asia Regional Conference Ctee. B.I., Commander-Brother, the Most Venerable Order of St. John, Jt. Managing Director, Poison Agencies Private Ltd., Director, Poison Ltd., Adities Private Ltd., Sistas Private Ltd. b. Sept. 4, 1893. Pres., Cosmopolitan Ambulance and Nursing Diva., St. John Ambulance Brigade; Vice-Pres., East Bombay Bharat Scouts and Guides Local Assoc.; Freemason, Past Master, S.C. and E.C.; Past Pres., Rotary Club of Bombay and Assoc. of Indian Industries; Past Master, Bombay Presidency Trades Assoc.; Past Vice-Pres., All-India Manufacturers' Organization; member: Coffee Board, nominated by the Central Govt.; Indian Merchants' Chamber Managing Ctee.; Western Railway Regional Consultative Ctee.; attended Rotary International Convention, Nice, France, 1937; R.I. Assembly and Convention, U.S.A., 1954; represented Bombay District at the Golden Jubilee, St. John Ambulance Brigade in London, 1937; presented at His Majesty's Levee, London, 1937 and to the President of India, 1952; Mrs. Kothawala presented at Court, 1937; called to Army service, 1940-43; mentioned in Despatches by order of the King for gallant and distinguished service with Middle East Forces. *Clubs: Willington; Royal W. I. Turf; United Services; Ripon; C.C.I.; Radio; W.I.A.A.; National Sports Club of India. Address: Grosvenor House, Pedder Road, Bombay 26; Tel. Address: "Philcons", Bombay.*

KRIPALANI, Acharya J.B., M.A. (History and Economics), M.P., Director of the Shri Gandhi Ashram; Village and Khadi Organisation in the States of U.P. and Delhi; b. 1888. General Secretary of Indian National Congress, 1934 to June 1946; elected Pres., Indian National Congress, Oct. 1946; resigned Nov. 1947; *Educ.: M.A., 1912. Professor in Bihar under the Calcutta University, 1912-17; joined Mahatma Gandhi in Champaran Satyagraha, 1917; was with him in Kaira (Gujarat); worked as Private Secretary to Pandit Madan Mohan Malaviya, 1918; Professor of Politics in the Benares Hindu University, 1919; left the University and started Khadi and Village work, 1920, through the Gandhi Ashram, Benares; in charge of the Gujarat Vidyapith as Acharya (Principal), 1922-27; for the ninth time arrested and imprisoned under Defence of India Rules in Aug. 1942. Released on 15th June, 1945; Member, Constituent Assembly of India, 1946-51; formed the Congress Democratic Front, 1951; founded "Vigil", independent political weekly, 1950; resigned from Congress and formed Kisan Mazdoor Praja Party, 1951; merged K.M.P.P. with the Socialist Party, Oct. 1951; was Chairman, Praja Socialist Party till Dec. 1954; and Railway Corruption Enquiry Committee, 1954-55; elected to Lok Sabha 1952 and again 1957. *Publications: The Gandhian Way, The Non-Violent Revolution, The Indian National Congress, The Politics of Charkha, The Future of the Congress, The Faithful Year, Gandhi the Statesman, The Latest Fad, Basic Education, Where are we going, The Second Plan, The Gandhian Critique, Planning, Pomp and Poverty. Address: Shri Gandhi Ashram, Meerut.**

KRIPALANI, Smt. Sucheta, M.A. (Delhi Univ.), M.P., General Secy., Indian National Congress. b. 1908; *Educ.: Lahore and Delhi; took M.A. degree in History from the Delhi Univ. 1930. Lecturer, Hindu Univ., Banaras, 1931-39; entered active politics, 1939; acted as Secy., Foreign Affairs Deptt., A.I.C.C., 1939-40; acted as Secy., Women's Deptt., A.I.C.C., 1941-42; imprisoned in connection with the freedom struggle, 1940-41 and 1943-45; appointed Organising Secy., Kasturba Memorial Trust, 1945; elected member, Constituent Assembly, 1946; subsequently elected member of Parliament; delegate to the General Assembly of the U.N.O., 1949; Member, Congress Working Ctee. (National Executive), 1948-51; resigned from the Congress, June 1951; joined the Kisan Mazdoor Praja Party; was member, National Executive of the Party; was elected member, National Executive, P.S.P. after the merger of the K.M.P.P. and the Socialist Party. Elected to Lok Sabha in 1952 and again 1957; rejoined the Congress. *Recreations: Music; Painting. Address: 30, Prithvi Raj Road, New Delhi.**

KRISHNA, Kanwal, Painter; Head of the Art Deptt., Modern School, New Delhi, since June 1953. b. Jan. 8, 1910 in Montgomery, West Punjab; *Educ.: Lahore; Engineering Coll., Benaras; School of Art, Calcutta. Held a one man show in Calcutta, the first solo-exhibition of a student artist in India, 1938; travelled over 4,000 miles mostly on horse-back covering the Himalayan ranges in Tibet, Sikkim, Bhutan and in many remote areas of N.W.F.P.; was the first Indian war artist to be commissioned by the Army to paint the battle scenes during the Kashmir operations, 1948; held three exhibitions of his paintings in Norway and another at Stockholm; Chairman, Delhi Silpi Chakra; is also actively associated with a number of leading art and cultural organisations in India and abroad; on the invitation of the British Council, visited England to teach Art at the Hallsbury and Imperial Services colleges for the summer term, and on the invitation of the Rumanian Institute for Cultural Relations, visited Rumania to study the art trends there, 1957; is also writer and speaker; three of his new experiments on the*

technique in etching and engraving were exhibited in the International Graphic Art Exhibition, Switzerland, 1958. *Publications: Contributed several articles to important journals in India and abroad. Address: Head, Art Department, Modern School, New Delhi.*

KRISHNAMACHARI, Tiruvallur Thattai, M.P. (Lok Sabha), Ex-Finance Minister, Govt. of India. b. Nov. 26, 1899; *Educ.: Madras Christian College, Madras. Entered business, 1921; was elected representative of the Indian Commerce Constituency to the Madras Leg. Assembly, 1937 and played a prominent part in legislative and other work in the Madras Assembly during the time of the Congress Ministry; has been taking keen interest in the Indian mercantile organisations in Madras State and the economic life of the State in general; elected to the Central Assembly in October 1942 in bye-election for Tanjore-Trichinopoly non-Mohammedan Rural Constituency and was a prominent member in the last Central Assembly; elected Pres. of the Madras Mahajana Sabha for the year 1946-47; elected member, Constituent Assembly of India, 1946; member, Drafting Ctee. of the Indian Constitution; was a member of the Indian Financial delegation that visited London, 1948; Minister for Commerce and Industry, Govt. of India, May 1952-Aug. 31, 1956; was Minister for Iron and Steel, June 1955 to Apr. 1957; Minister for Finance, Govt. of India, Sept. 1, 1956-Feb. 14, 1958; resigned Ministership, Feb. 14, 1958. *Address: 3, Cathedral Road, Madras 6.**

KRISHNAMACHARI, Sir V. T., B.A., B.L. (Madras), K.C.S.I., K.C.I.M., Deputy Chairman, National Planning Commission, since Feb. 1953. b. Feb. 8, 1881; *Educ.: Presidency Coll., Madras. Entered the Madras service, April 1903; Under-Secy. to the Govt. (1910-18); Special duty on Montague-Chelmsford reforms (1918-19); Collector (Ramanad Dist.); Secy. to the Govt. of Madras (1924-27); services lent as Prime Minister, Baroda State (1927-44); Delegate to the League of Nations, 1934 and 1936; attended all the Round Table Conferences in London; was member, Reserve Bank Ctee., Federal Finance Ctee., etc.; Adviser to the Imperial Conference, 1937; Chairman, Ctee. of Ministers, Chamber of Princes, 1940-44; Delegate to the San Francisco U.N. Conference, 1945; the Preparatory Commission and the first session of the General Assembly (1945-46); Prime Minister of Jaipur (1946-49); Member, Indian Delegation to the Sterling balances talks in London (June 1948); Chairman, Indian States' Finance Enquiry Ctee. (1948-49); Vice-Pres., Constituent Assembly (1946-49); Chairman, Indian Fiscal Commission (1949-50); member, National Planning Commn., 1950-53. *Publications: Speeches. Recreations: Tennis, Golf. Clubs: National Liberal Club, London; Cosmopolitan Club, Madras; Delhi Gymkhana Club. Address: 5, Janpath, New Delhi.**

KRISHNAN, Mr. Justice Harikesanalar Ramasastri, B.A. (Madras), M.Sc. (Benares), I.C.S., Judge, High Court, M.P., since 1957. b. Jan. 9, 1910; *Educ.: T. H. School, Ambasamudram; Hindu Coll., Tirunelveli; Presidency Coll., Madras; Benares Hindu Univ.; Sidney Sussex Coll., Cambridge. Joined the Indian Civil Service, 1935; S.D.O. and Dt. Judge at different places in Bihar; Law Secy. to the Govt. of Orissa; Judicial Commissioner, Vindhya Pradesh, 1950-53; Jt. Secy., Min. for Law, Govt. of India (1953-57). *Publications: Occasional articles in newspapers and magazines. Recreations: Bridge, Tennis, Photography. Address: Jabalpur.**

KRISHNAN, Sir Kariamanickam Srinivasa, Kt. (1946), Padma Bhushan (1954); D.Sc. (Madras), Hon. D.Sc. (Allahabad, Delhi, Lucknow, Calcutta), Hon. LL.D. (Banaras), F.R.S. (1940), For. Ass. Nat. Acad. Sc., Washington (1956), Hon. Mem., Instn. Telecom. Engineers, Director, National Physical Laboratory, New Delhi, since 1947; b. Dec.

4, 1898; *Educ.*: Hindu High Schools, Watrap and Srivilliputtur; American Coll., Madras; Madras Christian Coll. and Univ. Coll. of Science, Calcutta. Research Associate, Indian Assoc. for the Cultivation of Science, 1928-29; Mahendralal Sircar Research Prof., 1933-42; Prof., Univ. of Allahabad, 1942-47; Pres., National Academy of Sciences, India, 1945 and 1946; Pres., Physics Section of the Indian Science Congress, 1940 and its General Pres., 1949; Pres., Inst. Metals, 1957-58; Pres., Ind. Soc. Theor. App. Mechanics, 1956-57; member, Board & Gov. Body of Scientific and Industrial Research, and of Atomic Energy Commission, Univ. Grants Commn. & Chairman, Bd. Res. Nuc. Sc.; fellow of several scientific societies and academies; Vice-Pres., International Union of Pure and Applied Physics, 1951-57; Vice-Pres., Int. Council Sc. Unions, 1955-57; Chairman, Indian National Ctee. for U.R.S.I. and of Indian National Committee, International Geophysical Year; Guest of Honour, Nat. Ac. Sc., Washington (1955); Liege Univ. Medal, 1937; Krishnarajendra Jubilee Gold Medal, 1941; Ahdarchandra Mukherji lectures, Calcutta Univ., 1940; Sukhraji Ray Readership lectures, Patna Univ., 1941; Ripon Professorship lectures, Indian Assoc. for the Cultivation of Science, 1943; Mathur Memorial Lectures, B. H. Univ., 1948; Gaekwad Lectures, Baroda Univ., 1952; special lectures at Travancore, Mysore, Osmania and Punjab Universities; Patel Memorial Lectures, A.I.R. 1956; Sir Thomas Holland Lectures, 1957; delegate to several international scientific conferences. *Publications*: Several papers in the Transactions and the Proceedings of the Royal Society and other scientific journals on Optics, Magnetism, Electronics, Physics and Chemistry of solids, particularly of metals; collaborated with Sir C. V. Raman in the discovery of the Raman Effect; National Professor. *Address*: The National Physical Laboratory, Hillside Road, New Delhi 12.

KRISHNAN, Dr. Maharaajapuram Sitaram, M.A. (Madras), A.R.C.S., D.I.C., Ph.D. (London), has been Director, Geological Survey, b. Aug. 24, 1898; *Educ.*: St. Joseph's Coll., Tiruchirappalli; Presidency Coll., Madras; and Imperial Coll. of Science and Technology, London. Demonstrator in Geology, Presidency Coll., Madras, 1919-21; Geologist, 1924-45; Superintending Geologist, 1945-48; Director, Indian Bureau of Mines, 1948-51; Fellow of the National Institute of Sciences of the Indian Academy of Sciences and of several geological and mineralogical societies at home and abroad; member, Coal Mining Ctee., 1937; Chairman, Metallurgical Coal Ctee., 1950; member of several Govt. Research Ctees.; Director, Geological Survey of India, 1951-55; General Pres., Indian Science Congress, 1956; Jt. Secretary, Ministry of Natural Resources, 1955-57; Dir., Indian School of Mines, 1957-58. *Publications*: *Geology of India & Burma* (Madras 1943, 1949 and 1956); *Introduction to the Geology of India* (Madras 1944, 1951); *Geology of Gangpur State, Orissa* (1938); *Mineral Resources of Madras* (1952); *Structural & Tectonic History of India* (1953) — the last three published as Memoirs of the Geological Survey of India; More than 100 other papers on geological topics. *Address*: C/o Geological Survey, 27, Chowringhee, Calcutta.

KRISHNAN, Ramanathan, a leading tennis player. b. April 11, 1937; *Educ.*: Loyolla Coll., Madras; National Lawn Tennis Champion of India, 1954 and 1957; Wimbledon Junior Lawn Tennis Champion, 1954. Won the London Grass Court Championship, and the Swedish Hard Court Championship, 1950. *Recreations*: Tennis. *Address*: 'Ram Nivas', 19/13, Vanniampathi, Raja Annamalaiapuram Post, Madras 28.

KRISHNAIAH, M. V., Deputy Minister of Agriculture, Govt. of India, since 1957. b. 1918; *Educ.*: Joined school at a late age; after release from imprisonment for 2½ years in the 'Quit

India' movement, passed B.A. Exam.; joined Madras Law Coll. Elected M.L.A., Mysore, 1944; Chief Whip, Congress Party, Mysore State Assembly, 1944-52; ex-Pres., Mulbagal Development Ctee.; Pres., Co-operative Multipurpose Society, Mulbagal, Mysore State; Dir., State-managed Bhadravati Iron, Steel and Cement Works, for 5 years; member, Dist. Board for 8 years; Secy., Reception Ctee., Bangalore Session of the A.I.C.C.; returned to the Lok Sabha from Kolar Gold Fields Constituency, Mysore State, 1952, and again in 1957 from Tumkur; appointed Parliamentary Secy. to Food Minister, 1952, after a month promoted Deputy to Food Minister late Rafi Ahmed Kidwai. *Address*: New Delhi.

KRISHNASWAMI, Annasamy, B.Sc., A.I.I.Sc., Chief Secretary, Pondicherry, since March 1958. b. Dec. 26, 1919; *Educ.*: Loyola Coll., Madras and Presidency Coll., Madras; Associate, Indian Institute of Science, Bangalore. Joined Air Force, April 1943; left the Air Force as Flt. Lieut., April 1947; was in I.A.S. Training School on Special Duty as Asstt. Commissioner (Refugees) in Punjab, April-Dec. 1947; Asstt. Collector, Masulipatam, 1947-49; Sub-Collector, Ongole, 1949-52; Collector of Krishna, April to May 1952; Collector of Guntur, 1952-53; Collector of Cuddapa, 1953-54; Deputy Secy., Education Deptt., Andhra Govt., Kurnool, 1954-55; Jt. Secy., Home Deptt., Andhra Govt., 1955-56; Collector, East Godavari Dist., 1956-March 1958. *Recreations*: Bridge, shooting and general reading. *Clubs*: Secunderabad Club. *Address*: Chief Secretary to the Government, Pondicherry.

KULKARNI, Shankar Balwantrao, A.M., F.R.S.A., Chief Artist, Social Welfare Department, Bombay State (Vidarbha Region), Nagpur. b. Oct. 15, 1906; *Educ.*: Nagpur and Bombay. Was a leading artist and designer in Sind till partition; Founder, Oriental Institute of Fine Arts, and responsible for two All India Art Exhibitions at Karachi; his paintings, illustrations and commercial designs published in most of the important journals of India and Pakistan; was Cartoonist to the *Sind Observer* and the *Daily Gazette*; recipient of several awards and gold medals; awarded President of India's 1951 Census Medal; Leader of Madhya Pradesh Contingent at Republic Day Celebrations, Delhi, 1954, 1955 and 1956. *Publications*: *Children's Picture Album*; *Heroines of Shah*; *Drawing Courses*; contributed several articles on art and history to various journals. *Recreations*: Collection of art library and Indian art curios. *Address*: Subhas Chandra Road, Nagpur City.



KUMAR, Naresh, B.Com., Business man; leading tennis player. b. Dec. 22, 1928; *Educ.*: St. Xavier's Coll., Calcutta; Govt. Coll., Lahore. National Junior Tennis Champion, 1945, 1946; ranked India's No. 1, 1951-52; member of Indian Davis Cup Team, 1952-53-54-55-56-57-58; Captain, Indian Davis Cup Team, 1955-56-57-58; winner of Irish Championships, 1952 and 1953; ranked India's No. 2, 1955-56, also 1958; Winner of Essex Championships, 1957; National Championships of India in doubles with R. Krishnan, 1956 and 1957; North of England Championships, 1957 and 1958 in doubles; Mixed Doubles Championships with Mrs. K. Singh, 1956 and 1957; reached mixed doubles quarter-finals at Wimbledon with Miss E. Buding (Germany), 1957; reached men's doubles quarter-finals with R. Krishnan, Wimbledon after beating holders G. Mulloy and B. Patty, 1958; won doubles championships of Moscow with A. Huber (Austria), 1957. *Recreations*: Model Aeroplanes, Tropical Fishes. *Clubs*: Calcutta South Club; Delhi Gymkhana Club. *Address*: 1-A, Russell Street, Calcutta.

KUMAR, Shanti Swarup, M.Sc. (Physics) (Punjab), B.Sc. (Hons.) (Eng.) (Lond.), A.C.G.I. (Lond.), D.I.C. (Lond.), M.I.E. (India), M.I.E.E. (Lond.), M.A.M.I.E.E. (U.S.A.), Member (Utilization), Central Water and Power Commission, Ministry of Irrigation and Power, Govt. of India, since May 30, 1955. b. July 15, 1902; *Educ.*: Govt. Coll. and Imperial Coll. of Science and Technology, London. Executive Engineer in charge of Operation and Construction division, 1939-44; Project Engineer, 1944-48; designed Rasul Hydrel Project and Bhakra Nangal Hydrel Project; Chief Engineer and Secy. to Govt., Electricity Deptt., Punjab; 1948-57; executed Nangal Power Project; has been abroad four times to European countries and U.S.A. since 1945; led Indian delegation round Europe including U.S.S.R., U.S.A. and Japan, 1956. *Recreations*: Tennis. *Clubs*: Gymkhana Club, New Delhi. *Address*: Member, (Utilization) Power Wing, Central Water & Power Commission, Shahjahan Road, New Delhi.

KUMARAPPA, Joseph C., M.A. (Columbia), B.Sc., Business Administration (Syracuse, N.Y.), F.S.A.A. (Lond.), b. Jan. 4, 1892. Was in practice as an Incorporated Accountant in partnership in London, 1919, and then at Bombay, 1920-29; in charge of "Young India", May 1930-Feb. 1931; was Convener of the Congress Select Ctee. which issued a report on the Financial Obligations between Great Britain and India, July 1931; Managing Ctee., Bihar Central Relief Ctee. and also its Financial Adviser, 1934; Organizer and Pres., the All-India Village Industries Assoc., 1934-54; Chairman, M. P. Govt. Industrial Survey Ctee., 1939-41; Chairman, Congress Agrarian Reforms Ctee., 1946-48. *Publications*: *Public Finance and our Poverty*; *A Survey of Mater Taxation: Why the Village Movement? Practices and Precepts of Jesus; Christianity—its Economy and Way of Life; Economy of Permanence; The Philosophy of Work, Gandhian Economic Thought, Gandhian Way of Life, The Cow in Our Economy, etc., The Nation's Voice* (as Joint Editor). *Address*: T. Kalupatti P.O. via Tirumangalam, S. Ry.

KUMARAYYA, Mr. Justice Nampalli, B.A., I.L.B., Judge, High Court of Andhra Pradesh, Hyderabad, since October 22, 1957. b. June 15, 1909; *Educ.*: B. A. from Osmania Univ., Hyderabad, 1929. Selected for Hyderabad Civil Service and allotted to the Judicial Deptt.; started as Munsif Magistrate, 1935; became Divisional and Sessions Judge, 1948; entrusted with various onerous additional duties, 1949-55; appointed Special Judge for Lalk Ali's escape case and other Ex-Ministers' case; Pres.: Industrial Court, 1949-50; Election Tribunal; Agricultural Income-tax Tribunal; Advisory Board under Hyderabad Public Security Measures; member, Advisory Board to the Govt. constituted under the Preventive Detention Act; Chairman, Wage Board for some of the industries in Hyderabad State; Judge, Hyderabad High Court, 1955; Addl. Judge, Andhra Pradesh High Court. *Address*: 14-A, Mareddipally East, Secunderabad.

KUNDU, Dr. S. C., M.A., Ph.D. (Leeds), F.L.S., F.B.S., F.N.I., Director, Jute Agricultural Research Institute, Barrackpore, since 1945. b. April 1905; *Educ.*: Calcutta Univ., Calcutta; Leeds Univ., England; obtained 1st Class Master's degree in Botany, 1927, topping the list; Sir Rash Behari Ghosh Research Scholar, Calcutta Univ., 1928-30. Lecturer and Head of the Deptt. of Botany, Rajshahi Coll., 1930-37; conducted research on the growth, development and structure of jute and hemp fibres at Leeds Univ., 1937-39 and obtained Ph.D. degree; Prof. of Botany, Presidency Coll., Calcutta and Hon. Lecturer, Calcutta Univ., 1939-45; Pres., Botany Section, Indian Science Congress, Hyderabad Session, 1954; Bengal Botanical Society, since 1957; member: Council, National Institute of Sciences of India, since 1958;

Ex. Cttee., Indian Science Congress, 1951-54; Council, Indian Science Congress, 1955-57; Cttee., Indian Science News Assoc., etc.; earned recognition for his contribution on the origin and development of jute and hemp fibres. *Publications*: Several text-books on botany and biology; about 100 papers on Plant Anatomy, Plant Breeding, Systematic Botany, etc. *Address*: Barrackpore.

KUNERU, Pandit Eriday Nath, B.A., B.Sc., LL.D. (Hon.), M.P. (Rajya Sabha), President, Servants of India Society, since 1936. b. 1887; *Educ.*: Allahabad Univ.; London School of Economics. Joined the Servants of India Society, 1909; member: U.P. Leg. Council, 1921-23; Central Leg. Assembly, 1927-30; Indian Constituent Assembly and the Provisional Parliament; Pres., East African National Congress, 1920; National Liberal Federation, 1934; Chairman, Indian Delegation to the second British Commonwealth Conference; Chairman, Railways Corruption Enquiry Committee for a short time; member, States Reorganization Commission; Leader, Indian Delegation to: South Africa, 1950; Institute of Pacific Relations Conference, Kyoto (Japan); Chairman: U. P. Univ. Grants Cttee.; Indian School of International Studies, New Delhi; Pres.: Indian Council of World Affairs; Children's Film Society; member: Central Univ. Grants Commission; Executive Councils of Delhi, Banaras and Allahabad Univs.; National Commissioner, Bharat Scouts and Guides; Leader of the delegation to World Inter-Parliamentary Conference held in London, Sept. 1957. *Address*: 18, Feroz Shah Road, New Delhi.

KURUP, G. Sankara, 'Kavithilakan', Producer, 'Spoken Word', AIR, Malayalam Writer; Retd. Malayalam Professor, Maharaja's College, Ernakulam. Member: Kerala Sahitya Akademi; Advisory Board of Sahitya Akademi. b. June 1901; *Educ.*: mostly privately after High School Course. Joined service as teacher, 1921; served in High Schools, Training Institution and College; began publishing poems from the seventeenth year; Pres., Sahitya Parishath; Editor, Parishath Journal. *Publications*: Poems: *Sahitya Kautukam*; *Poojapushpam*; *Vanagayaka*; *Suryakanti*; *Navalbhiki*; *Muthukal*; *Ithalukal*; *Pathikanda Pattu*; *Anandakam*; *Velli Peruvakal*; *Nemisham*, etc.; Translations: *Moghachchaya* (a rendering of Kallidasa's Megha Dutha); *Vijayalakshmi* (Kobayyath of Omar Khayyam); One Act Plays: *Iruttinummungu*; *Sandhya*; *August Fifteenth*, etc.; Prose: *Gadyopaharam*; *Lekhamala*; *Rakkhathilukal*; *Rajamandini*; Children's poems: *Panam-chundukal*. *Recreation*: Chess. *Club*: P.E.N. *Address*: All India Radio, Trivandrum.

KURUP, Poyippudi Kalathil Kunju, Award by the Union President for Kathakali Guru or Kathakali Dance, Kathakali Natyachariyan. b. March 20, 1880; *Educ.*: About 12 years at Thakazhi, under Chabakkulam Sanku Pillai. Is a leading Kathakali dancer in India; spent the early part of his life in Travancore and then settled down in Malabar with Kathakali as his chief profession. *Address*: Lakshmi Vilas, P.O. Kottayi (Via) Palghat.

KUTCH: H. H. Maharaja Dhiraaj Mirza Maharo Shri Madanashahi Savai Bahadur, Maharao of Indian Ambassador to Norway, since March 1957. b. Oct. 12, 1909; Heir-



Apparent, Maharaj Kumar Shree Prithvirajsinhji is studying at Delhi Univ.; *Educ.*: Privately under tutors and by extensive travel. Transferred the administration of Kutch State to the Govt. of India on June 1, 1948, following the independence of India on August 15, 1947 and in pursuance of the policy followed by Rulers of the

in perpetuity; has been guaranteed by the Govt. of India the same personal rights, privileges, dignities and titles as he enjoyed as Ruler of Kutch, prior to 1st June 1948; has travelled widely in Europe, U.S.A. and Africa; joined the Indian Foreign Service and after serving for three and a half years with the Indian High Commission in London with rank of Minister, was appointed India's first Ambassador to Norway, 1956; took charge, March 1957; is keenly interested in Indian philosophy; is a tennis player of note. *Recreations*: Riding; Pig-sticking; Shikar. *Address*: Bhuj, Kutch; Indian Embassy, Oslo, Norway.

KVEDER, His Excellency Mr. Dusan, Yugoslav Ambassador to India, since 1957. b. 1915, in Sentjur at Celje; *Educ.*: Faculty of Law in Ljubljana (Yugoslavia); High Military Academy in Moscow (U.S.S.R.). Took part in the Spanish Civil War; Commander, People's Liberation Army in Slovenia (Yugoslavia), during the People's Liberation War of Yugoslavia, 1941-45; was also Deputy to the Chief of the General Staff; was member: Antifascist Council of the People's Liberation of Yugoslavia; Antifascist Council of the People's Liberation of Slovenia; after the War (1945) occupied various high commanding posts in the Yugoslav People's Army; member, Federal People's Assembly of the Federal People's Republic of Yugoslavia and People's Assembly of the People's Republic of Slovenia till 1953; was Deputy to the Chief of the General Staff, Yugoslav People's Army; Yugoslav Ambassador to Ethiopia, 1955; Yugoslav Ambassador to the Federal Republic of Germany, 1956-57; awarded the highest Yugoslav decoration 'The Order of the People's Hero of Yugoslavia' and other decorations for his outstanding services; is member, Central Cttee. of: League of Communists of Yugoslavia; League of Communists of Slovenia; Central Exec. Cttee. of the Socialist Alliance of the Working People of Yugoslavia; Central Council of the Union of Veterans of the People's Liberation War of Yugoslavia, holds the rank of Lt. General of the Yugoslav People's Army in reserve. *Address*: 4, Tees January Marg, New Delhi.

LAHRI, Adinath, M.Sc., Ph.D. (Lond.), F.D.I.C., Dip. F. Tech., F.R.I.C., F. Inst. Fuel, M.I.E. Inst. Pet., F. M. Nat. F.I.C., Ac.Sc., M.G.M.I., Director, Central Fuel Research Institute of India, since April, 1954. b. Aug. 24, 1916; *Educ.*: Presidency Coll., Calcutta; Imperial Coll. of Science and Technology as Sir T. N. Palli Foreign Scholar for higher research, and Cambridge. Conducted research under Prof. H. H. Read, F.R.S. and Sir Alfred Egerton, F.R.S. at Royal Coll. of Science, 1938-42; Senior Scientific Officer in charge of Air Ministry, Fuel and Oil Research Laboratories, Farnborough, U.K., 1942-45; joined as Asstt. Director and Officer-in-Charge of Coal Survey Stations of the Fuel Research Institute, 1945; Dy. Director, 1953-April 1954; Vice-Pres., Institute of Chemists (India); member, Council of the Mining, Technological and Metallurgical Institute. *Publications*: Over 200 research papers on various aspects of Fuel Technology and in Geochemistry, Physical Chemistry, Geology, etc. *Recreations*: Shooting and hunting, photography, tennis and mountaineering. *Address*: Director, Central Fuel Research Institute, Jealgora P.O., Dhanbad Dist.

LAHRI, S. K., B.Sc. (Eng.), Director General of Lighthouses and Lightships. b. Dec. 10, 1910; *Educ.*: and trained at Calcutta, Patna, Manchester and London. Asstt. Engineer, Dagenham B. Council, Essex, England (1932); Calcutta Improvement Trust (1933); Town Engineer, Jamshedpur (1933-40); Engineer, Lighthouse Deptt., Govt. of India (1941-48); Designs Officer, C.W.I.N.C. (1948); Engineer-in-Chief, Lighthouse Department (1949-56); Member-Secy., Central Advisory Cttee. for Lighthouses; Member, Radio & Cable Board, Govt. of India, New Delhi; represented India

as Leader of the Indian Delegation to the International Lighthouse Conferences, Paris, 1950 and Scheveningen, Holland, 1955. *Publications*: Author of several papers, the latest being "Electric Flashers and Lamps" which was presented on behalf of India at the International Conference of Lighthouses, Holland, 1955. *Recreations*: Reading, travelling, tennis and billiards. *Clubs*: Gymkhana Club. *Address*: 17, Curzon Lane, New Delhi.

LAKEHMANAN, Lieut.-Col. Chervasi Kotteth, L.M.S. (Mad.), M.R.C.S. (Lond.), D.T.M. & H. (Lond.), D.P.H. (Eng.), Secretary General, Indian Red Cross Society. b. April 5, 1898; *Educ.*: Madras Christian Coll.; Madras Medical Coll.; St. Bartholomew Medical Coll. and Hospital, London. Was in the I.M.S., Oct. 1925-35; was Port Health Officer, Bombay and Calcutta; Dy. Public Health Commr. with the Govt. of India; Chief Health Officer, Delhi State; Dir. of Public Health, Bengal; Dir., All-India Institute of Hygiene & Public Health, Calcutta; Chief Indian Delegate to International Health Conference, New York, 1946; Medical representative for India at Nutrition Conference at Singapore, 1946; Special Consultant to U.N.I.C.E.F. to assess child health needs in South East Asia; member, Indian Delegation to third, seventh, eighth and ninth World Health Assembly at Geneva, 1950, 1954, 1957 and Mexico, 1955; Delegate to the third, fourth, fifth and seventh Sessions of W.H.O. Regional Cttee. for S. E. Asia held in Ceylon, 1950, Rangoon, 1951, Bandung (Indonesia), 1952 and New Delhi, 1954; attended the first and second sessions of the W.H.O.'s Expert Cttee. on International Quarantine at Geneva, 1953 and 1954; Dir. Genl. of Health Services, Govt. of India, June 1952-Feb. 1958. *Address*: Indian Red Cross Society, 1, Red Cross Road, New Delhi.

LAKEHMANAN, Dr. S. M., M.Sc. (Tech.), Ph.D. (Lond.), D.I.C., A.M.Inst.F., M.I.I. (Chem.E., A.M.I.E., Additional Professor of Chemical Engineering, Annamalai University. b. Aug. 15, 1919; *Educ.*: Annamalai & Andhra Universities; Imperial Coll. of Science and Technology, Univ. of London, London. Post Doctoral Research Fellow at Northwestern Univ., Evanston, Illinois, U.S.A. (1950); Asstt. Professor of Chemical Engineering, Univ. of North Dakota, Grand Forks, U.S.A. (1957); travelled widely in U.K., Europe, U.S.A. and Japan; visited many educational institutions in those countries. *Publications*: Research papers on South Arcot Lignite, University Education in Germany, Technical Education in U.S.A.; *Standards of Luck*, 1958. *Address*: Technology Department, Annamalai University, Annamalai-nagar, Madras State.



LAKEHMIKANTHAM, Pingali, M.A. (Madras), Spoken word producer, All India Radio, Vijayawada. b. Jan. 10, 1894; *Educ.*: Hindu High School, Masulipatam; Noble Coll., Masulipatam. Was Lecturer, Noble Coll.; Research Fellow, Madras Univ.; and Head of the Deptt. of Telugu, Andhra Univ.; Member, General Council of the National Academy of Letters; elected as a member of the Executive Board of the Academy. *Publications*: Poetry: *Tolavari* (Lyric) and *Sounderanamam* (Epic) (both in collaboration with Katuri Venkataswarao). Prose: *Gouthama Vyasaiah* (Essays). *Recreation*: Tennis. *Club*: Viskhapatnam Club. *Address*: Vijayawada.

LAJ, Jagat Narain, M.A., LL.B., Minister for Law, Co-operative & Animal Husbandry Deptts., Bihar. b. July 1896; *Educ.*: High School education at Ghazipur; Coll. education at Kayastha Pathshala, Ewing Christian Coll. and Univ. School of Law, Allahabad. Joined Patna District Bar, 1917; suspended practice and joined N.C.O. Movement, Dec.

1920; was General Secy. and later Pres., Patna District Congress Ctee., 1921-23; Asstt. Secy., B.P.C.C., 1923-24; member: A.I.C.C. for several years from 1924; Bihar Leg. Council from 1928 with breaks; Parliamentary Secy., Bihar Govt., 1937-39; convicted several times during freedom movement and courted jail for about nine years; General Secy. and later Pres., Prov. Hindu Sabha, 1923-36; also General Secretary, All-India Hindu Mahasabha 1925-35; General Secy., Bihar Provincial Sewa Samiti, 1918-26; State Chief Commissioner, Bharat Scouts and Guides, Bihar State. *Publications*: *Jyotna* (Poetry) in Hindi; *Light Unto a Cell*, Hindi translation of 'The One Thing Needful' by Tolstoy. *Recreations*: Interested in Yoga-Asanas. *Address*: 2, Strand Road, Patna.

L.L.L. Mohan, B.A. (Hons.), LL.B., Minister for Industry, Food, Local Govt. and Law, Punjab. b. June 1, 1905; *Educ.*: Had a brilliant academic career; Khalsa Coll., Amritsar; Law Coll., Lahore. Practised as an Advocate in Batala District, Gurdaspur, 1929-56; had been a leading lawyer of the District; had been associated with various social, cultural and political activities in Punjab; Congressman from his youth; elected to the Legislature Upper House in Punjab, 1952; Leader of the House, Punjab Leg. Council, since 1956. *Recreations*: Tennis; Badminton. *Clubs*: Batala Club. *Address*: Minister for Industry and Local Govt., Chandigarh Capital.

L.L.L. Bhogilal Dhirajram, B.A., LL.B., (Chairman, Bombay Legislative Council, since Nov. 1956. b. Dec. 7, 1877; *Educ.*: Ahmedabad and Bombay; passed LL.B., 1900. Began practice as Pleader, 1900; gave up practice when Non-Co-operation Movement started, 1920; since then worked as full time Hon. Congress Worker; Secy., Gujarat P.C.C., 1931-54; was its Vice-Pres., till 1956; elected to Bombay Leg. Assembly, from Ahmedabad City, 1937 and again in 1946; elected to Bombay Leg. Council by Ahmedabad Municipal Corporation, 1952; Professor, Law Coll., Ahmedabad, 1927-32; has been connected with the School for Deaf-mutes and Blind at Ahmedabad for the last thirty years. *Publications*: Two books on Penal Code and Procedure. *Address*: "Kaveris", 21, Narayan Dabholkar Road, Malabar Hill, Bombay 6.

L.L.SHAH, Kasturbhai, Millowner and Banker; Director in 20 concerns such as Textile, Insurance, Electricity, Steamship, Starch Dyes, Pharmaceutical Manufacture, and Motor Company, and also Director, Local Board, Western Region, Reserve Bank of India; Chairman: National Research & Development Corporation, New Delhi from 1954; Executive Council, National Chemical Laboratory, Poona; Ministry of Natural Resources, since 1953; Western Regional Ctee., All-India Council for Technical Education from 1955; Planning Committee, W. Region, Govt. of India from 1955. b. Dec. 19, 1894; *Educ.*: Govt. B. C. High School and Gujarat Coll., Ahmedabad. Pres.: Ahmedabad Mill-owners' Assoc., 1933-35; Federation of Indian Chambers of Commerce and Industry, 1934-35; Council of Administration of the Ahmedabad Textile Industry's Research Assoc., since 1947; Gujarat Chamber of Commerce, 1950-51; Chairman: West Coast Kandla Port Development Ctee. appointed by the Govt. since 1948; Industrial Ctee. of Mahatma Gandhi Memorial Fund, 1948; Gujarat Famine Relief Ctee. 1949 and 1952; Ctee. appointed by the Govt. of India for conducting inquiries into the State-sponsored industries in the Hyderabad, Mysore and Travancore States, 1950; Central P.W.D. Enquiry Ctee. to the Govt. of India, 1953; member: Indian Delegation to the International Labour Conference at Geneva, 1929 and 1934; Council of Scientific and Industrial Research Board and governing body from 1940 and also Chairman of the Finance Sub-Committee of C.S.I.R.; Textile Control Board from 1943; Indian Delegation to the Cotton Conference, Cairo, 1943, Senate

of Gujarat University from 1950; Central Advisory Council to the Govt. of India, 1953; Advisor to the Govt. of India in the Indo-British Trade Negotiations, 1937 and Indo-Burma Trade Negotiations 1940. Leader and Pres., Jain Community in India; represented the Govt. of India on the Textile Ctee. of the Combined Production and Resources Board, Washington, 1945; Leader of the Indian Delegation to: the International Cotton Textile Industry Conference, Buxton, Manchester, 1952; the Industrial and Agricultural Delegation to the U.S.S.R., 1954; Patron, Ahmedabad Education Society; Chairman of its Governing Body, since 1936; Member, Senate, Gujarat Univ., Ahmedabad; Director, Reserve Bank of India, 1937-49 and since 1957. *Recreations*: Gardening, Reading. *Clubs*: Gujarat Club, Ahmedabad; Willingdon Sports Club, Bombay. *Address*: Pankore Naka, Ahmedabad; Shahilug, Ahmedabad.

LALCHAND HIRACHAND, B.A., Industrialist; Pres., Indian Merchants' Chamber, 1959-60; Chairman: The Premier Automobiles Ltd., Indian Hume Pipe Co. Ltd.; Cooper Engineering Ltd., Bombay Cycle and Motor Agency Ltd., etc.; Director: The Premier Construction Co. Ltd., Hindustan Construction Co. Ltd., Walchandnagar Industries Ltd., Scindia Steam Navigation Co. Ltd., Hindustan Shipyard Private Ltd., etc.; Prof.: Indian Sugar Mills Assoc., 1943-44; Deccan Sugar Technologists' Assoc., 1943-50; Chairman, Deccan Sugar Factories Assoc. for three successive years from 1943; Pres. The Automotive Manufacturers Assoc. of India, since 1954; is Vice-Pres., Maharashtra Chamber of Commerce; Indian Merchants' Chamber, 1958; member: Bombay Leg. Council, 1939; Rajya Sabha, 1952-58; is member: Bombay State Labour Advisory Board; Development Council for Machine Tools Industry set by the Govt. of India; Import Advisory Council of the Govt. of India; actively interested in agricultural, industrial and social activities; has interests over a wide field, viz. automobiles, construction, engineering, sugar, shipping, etc.; attended the Moscow International Economic Conference, 1952. *Clubs*: Cricket Club of India; Willingdon Sports Club. *Address*: Office: Construction House, Ballard Estate, Bombay 1; Residence: Neela House, Pedder Road, Bombay 26.

LALL, Jag Mohan, B.A., A.C.A., Chairman: I.C.I. (India) Private Ltd.; Indian Explosives Ltd.; Alkali & Chemical Corporation of India Ltd. b. 1913; *Educ.*: B.A. from F.C. Coll. Lahore, 1933; A.C.A. from Institute of Chartered Accountants (London), 1938; won the Frederick Whinney Prize of the English Institute of Chartered Accountants, 1938. Joined I.C.I. (India) Ltd., 1939; joined its Board, 1951; Managing Director, I.C.I. (India) Ltd., 1957-58. *Address*: I.C.I. (India) Private Ltd., 34, Chowringhee, Calcutta 16.

LALL, Krishna Behari, I.C.S., Addl. Secretary, Ministry of Commerce and Industry, Govt. of India, since Jan. 30, 1959. b. May 30, 1915; (Chairman: Foreign Trade Board, since July 1957; Director-General, Foreign Trade, since Aug. 1, 1957. *Educ.*: St. Stephen Coll., Delhi; School of Oriental Studies, London; Univ. Coll., Oxford. Served in M.P. as Asstt. Commr.; Officer-in-charge, Court of Wards, Raipur (took interest in Aboriginal Tribes); Dist. Magistrate; Dy. Dir. of Food Supplies; Food Secy. to State Govt., 1944; transferred to Govt. of India; Dy. Secy., Ministry of Commerce; Dy. Secy., Partition Secretariat; Secy., Delhi Emergency Ctee.; dealt with post-partition disturbances and participated in Inter-Dominion Conferences on Evacuee Property; took over charge of Alwar Administration, Feb. 7, 1948; Administrator, former United States of Matsya (1948-49); organised scheme of semi-mechanised co-operative cultivation for rehabilitation of refugees; Chief Secy., M.B.

(1949-52); Integrated Services and reorganised administration on provincial model; Chief Controller of Imports and Exports, 1953-54; India's Alternate Delegate to the 10th, 11th and 12th Sessions of the EOAFS; member, India's Delegation to the Asia-Africa Conference, Bundung (1955); Jt. Secy., Min. of Commerce & Industry, Govt. of India, March 1954-Jan. 1959. *Address*: 2, Ram Kishore Road, Civil Lines, Delhi.

LALL, Shamsulhassee, B.A. (Hons.), I.C.S., (Retd.), Chairman, Air Transport Council, Govt. of India, since April 1955. b. Oct. 4, 1894; *Educ.*: St. Xavier's College, Calcutta; Scottish Churches College, Calcutta; Exeter College, Oxford. Joined Indian Civil Service 1919; under-Secy.: Finance Deptt., Bihar & Orissa, 1924; Industries and Labour Deptt., Govt. of India, 1926; Jt. Secy., Royal Commission of Labour in India 1929; Dist. Magistrate & Collector, Bihar, 1932; Dir. of Industries, Bihar & Orissa, 1933-34; Secy., Education & Devpt., Bihar & Orissa, 1935-38; Dy. High Commr. for U.K. in India, 1938-44; Ag. High Commissioner, 1940 & '43; Jt. Secy., Labour Deptt., Govt. of India, 1945; Labour Secy., Govt. of India, 1946-50; served as Govt. of India Representative at various International Conferences and on the Governing Body of the I.L.O.; Chairman, 1949-50; Asstt. Secretary-General, United Nations 1950-54. *Address*: 19, Ratendon Road, New Delhi.

LAMBERT, Jehu Malcolm, O.B.E. (Jan. 1955), Bank Manager. b. Sept. 19, 1904; *Educ.*: in Scotland. *Recreations*: Golf. *Clubs*: Madras Club; Adyar Club; Madras Gymkhana Club; *Address*: National Overseas & Grindlays Bank Ltd., 3, North Beach Road, Madras 1.

LANK, The Right Rev. William Quinlan, B.A. (1927), M.A. (1932), Bishop of Bombay. b. February 6, 1905; *Educ.*: Tonbridge School; Emmanuel College, Cambridge; Westcott House, Cambridge. Curate of St. Mary's Portree, 1928-1932; member of Christa Seva Sangha, Poona, 1932; Professor, Sri Parasharambhai College, Poona, 1933-34; Acharya, Christa Prema Seva Sangha, 1934; consecrated Bishop of Bombay, August 10th 1947. *Publications*: *Christian Mysticism*; *Apostolic Faith*; *To High Kalas*; *Temple of God's Wounds*. *Address*: St. John's House, Colaba, Bombay 5; *Telegraphic Address*: Felicity, Bombay.

LAW, Mr. Justice Uma Charan, Barrister-at-Law, Judge, High Court, Calcutta, since Dec. 16, 1957. b. Dec. 30, 1903; *Educ.*: Scottish Church Coll., Calcutta; Inner Temple, London; graduated from Calcutta Univ., 1924; joined Inner Temple, London, Nov., 1926; called to the Bar, June 12, 1929. Senior Advocate of the Supreme Court of India, 1955. *Recreations*: Games, Photography, Reading, etc. *Clubs*: Calcutta Club Ltd. *Address*: 69/2, Nimtola Ghat Street, Calcutta 6.

LEELA, P., a leading Playback Singer in the south. b. April 25, 1932; *Educ.*: Girls' High School, Ernakulam, Kerala State. Left school when 12 to devote herself to the study of music; came to Madras, 1944; studied under music tutors of repute; won several gold medals in music competitions; travelled all over the south and north giving a series of concerts; became a playback singer, her first assignment being in G. B. Narayan's "Kankannam" in 1947; has sung over a thousand and five hundred songs in about 600 pictures, in Malayalam, Tamil, Telugu and Kanarese; a good singer in Hindi light music; participated in the A.I.R. feature programmes in Delhi, Sept. 1958; was a guest artiste at Dr. Radhakrishnan's 70th birthday celebrations; frequently sings on the A.I.R. *Recreations*: Gardening; Reading books. *Address*: "Brindavan", 2, Sreenivasan Street, Madras 28.

LEIGH, Edward Joseph Miller, Senior Director, Binny & Co., (Madras) Ltd., the Buckingham & Carnatic Co. Ltd., the Bangalore Woollen, Cotton & Silk Mills Co. Ltd. & Binny's Engineering Works Private Limited. b. Aug. 17, 1907; Educ.: Ashdown House, Sussex and Marlborough Coll. Joined Binny & Co. (Madras) Ltd., 1928; commissioned I.A.O.C. and appointed Controller of Clothing, Bombay Circle, 1940, U.P. Circle with rank of Lt.-Col 1944; Supdt., Clothing Production, New Delhi, 1945; Trustee, Madras Port Trust, 1957-58; Chairman, Madras Chamber of Commerce and Deputy Pres., Associated Chambers of Commerce of India; member: Cotton Textile Fund Ctee., Madras Board, State Bank of India; Advisory Council, South India Textile Research Assoc.; Managing Ctee., Southern India Millowners' Assoc.; Planning Ctee. for the Indian Institute of Technology, Madras, 1958-59. *Recreations:* Sailing, Golf, Tennis, etc. *Clubs:* Madras Club, Bombay Club, Royal Bombay Yacht Club, Royal Madras Yacht Club. Address: C/o Binny & Co. (Madras) Ltd., 7, Armenian Street, Madras 1.

LOHIA, Madanmohan Basantlal, General Manager, The Kolhapur Sugar Mills Ltd., Kolhapur; Hon. Magistrate for Kolhapur Dist. b. December 1910; Educ.: Marwadi Vidyalaya and St. Xavier's College, Bombay. Took to Commercial line in 1933



under the guidance of his father and grandfather; went to Kolhapur in 1943 to look after the whole business of the Kolhapur Sugar Mills Ltd., and the United Agencies Pvt. Ltd., Director: Rula Industries Pvt. Ltd., Kolhapur; The Yeshwant Iron & Steel Works Ltd., Kolhapur; Pres.: New Education Society, Kolhapur; Dercan Manufacturers' Assoc.; Board of Trustees of the bhaskhala Tuberculosis Sanatorium, Jaysingpur; Jeevan Kalyan, Kolhapur; Vice-Pres.: Vidyaapeeth Society, Kolhapur; The Maharashtra Table Tennis Assoc., Poona; The Kolhapur Sugar Mills Gymkhana; Panhala Hill Station Municipality, Panhala; Chairman, School Board of Aryasamaj, Kolhapur; member: The Bombay Labour Welfare Board, Bombay; Advisory Ctee. for the Industrial Training Centre, Shivaji Technical Institute, Kolhapur; Residence Club, Kolhapur; State Advisory Council of Industries, Govt. of Bombay, Bombay; Lions Club, Kolhapur; Kolhapur Sports Assoc., Kolhapur; Kolhapur Pilot Area Advisory Ctee.; Dist. Small Savings Advisory Ctee., Kolhapur; has travelled widely in India; went on a business tour all over the Continent, 1956. *Clubs:* Laxmi Gymkhana, Kolhapur (Pres.); Deval Club, Kolhapur (Pres.); Panhala Club, Panhala (Pres.). Address: Sykes Extension, "Prabhu Chhaya," Kolhapur.

LOHIA, Dr. Rammamohan, founder, Socialist Party; ex-General Secretary, Praja Socialist Party. b. 1910; Educ.: Bombay, Banaras and Calcutta; went to Germany where he obtained his doctorate in Economics. At the age of 14 attended the Gaya Congress as a delegate; after returning from Germany became leader of the Congress Socialist Party; was Editor, *Congress Socialist* till 1939; organized the Foreign Department of the A.I.C.C. at the invitation of Mr. Nehru; developed relations between the Congress and progressive forces in different European countries; set up a separate branch to look after the interests of Indians overseas; elected to the A.I.C.C., 1936; prosecuted for sedition in Calcutta, 1938; arrested and imprisoned for two years for anti-war speeches, 1940; took a leading part in the Quit India Movement, 1942; arrested again in 1944; in Goa and Darjeeling, 1946; arrested twelve times since independence; founded and formed the Socialist Party of India, 1956; Editor, *Man-kind*. Publications: Several books among them *Third Camp in World Affairs*;

Himalayan Policy for India; Wheel of History; Aspects of Socialist Policy; Fragments of a World Mind. Address: Socialist Party, Himalay Nagar, Hyderabad.

LOKANATHAN, Dr. Palanadai S., M.A. (Madras), D.Sc. (Econ.), London, Gokhale Prize in Economics, 1921; Director-General, National Council of Applied Economic Research, New Delhi. Ex-Executive Secretary of the United Nations Economic Commission for Asia and the Far East; was conferred the Most Noble Order of the Crown of Thailand First Class. b. Oct. 10, 1894; Educ.: St. Joseph's Coll., Univ. of Madras, London School of Economics, Univ. of London. Reader in Economics and later Ag. Prof. of Economics in the Univ. of Madras; Editor, "Eastern Economist", New Delhi, 1948-47; member, Labour Adv. Board, Govt. of Madras, 1925-29; member, Consultative Ctee. of Economists; delegate to the World Business Conference, Rye, New York, 1944, and to the Pacific Relations Conference, Hot Springs, America, January 1945; Indian Delegate to the Preparatory Ctee. of International Trade Conference, London & Geneva for some time member of the Senate, Academic Council, Madras Univ. and of Boards of Studies in Economics in the Universities of Madras, Travancore, Annamalai and Andhra; Chairman: Governing Body, National Productivity Council; Advisory Board, Demographic Research and Training Centre; Agricultural Economics Ctee.; Indian Council of Agricultural Research, New Delhi; member, Board of Research and Advisory Board, I.C.A.R.; Sugar Wage Board, Govt. of India; Court of Governors, Administrative Staff Coll. of India, Hyderabad; Director, State Trading Corporation; member, Local Board, State Bank of India, Delhi Circle; Vice-Pres., Indian Council of World Affairs; member: Exec. Ctee., Delhi Management Assoc., New Delhi; Governing Body, Shri Ram Coll. of Commerce, Delhi; Indian Institute of Public Administration; Ex. Ctee., Dwan Chand Indian Information Centre, New Delhi. Publications: *Industrial Welfare in India; Industrial Organisation in India; Indian Industry and India and Post-War Reconstruction*. Address: Bombay Mutual Building, Parliament Street, New Delhi.

LORENZO, Archibald Minto, M.A., Ph.D. (Econ.), B. Com., Ph.D. (Com.), Director, Labour Bureau, Ministry of Labour and Employment, Govt. of India, since 1956. b. Nov. 28, 1908; Educ.: Lucknow Christian Coll.; Lucknow Univ.; Agricultural Economics Research Institute, Oxford Lecturer, Lucknow Univ., 1942-48; Head, Dept. of Social Research, Tata Institute of Social Sciences, 1948-56; United Nations Fellow, 1949; Expert (Correspondent), U.N. Ctee. on International Definition and Measurement of Standards and Levels of Living, 1953; Social Science Expert, U.N. Seminar on Low Cost Housing, 1954; Chief Supervisor, UNESCO Project on Farm Forum Fundamental Education Evaluation, 1956; Adviser, Govt. of India, I.L.O. Asian Region Conference, 1957. Publications: *Agricultural Labour Conditions in Northern India*, 1940; *Atlas of India*, 1942; *Market Reports*, 1943; *Natural Resources and Human Adaptation*, 1946; *Indian Labour in Primary Production*, 1947; *Drink Problem in Urban Bombay* (3 vols.), Bombay Govt., 1954; *Planning Shopping Centres, Greater Bombay Master Plan*, 1957; etc. *Recreations:* Physical Culture, Badminton. Address: Kennedy House, Simla 4.

LUCKHAM, John, Managing Director, The Dunlop Rubber Co. (India) Ltd. Joined the Dunlop Rubber Co., Ltd., U.K., 1930; transferred to India in 1934; Chairman, Association of Rubber Manufacturers in India. Residential Address: 52/3, Ballygunge Circular Road, Calcutta 19.



MACDONALD, His Excellency The Rt. Hon. Malcolm John, M.A., High Commissioner for the U.K. in India, since Sept. 1955. b. Aug. 17, 1901; Educ.: Bedales School, Petersfield, Hampshire, England; Queen's Coll., Oxford. Member: London County Council, 1927-30; M.P. (Labour), Bassettlaw Division of North, 1929-31, (Nat. Labour), 1931-35; M.P. (Nat. Govt.) Ross and Cromarty, 1936-45; Parliamentary Under-Secretary, Dominions Office, 1931-35; Secretary of State for Dominion Affairs, 1935-38 and 1938-39; Secy. of State for Colonies, 1938 and 1938-40; Minister of Health, 1940-41; U.K. High Commissioner in Canada, 1941-46; Governor-General of the Malayan Union and Singapore, May-July 1946; Gov.-General of Malaya and British Borneo, 1946-48; Special Ambassador at Inauguration of Indonesian Republic, 1949; Commissioner-General for the U.K. in South-East Asia, 1948-55; contested Bassettlaw Division, 1923 and '24; Rhodes Trustee, 1948; Chancellor of the Univ. of Malaya, 1949; Doctor of Laws and Doctor of Letters Hon. Causes of various North American Univs. and the Univs. of Hanoi, Hongkong and Malaya. Publications: *Down North*, 1946; *The Birds of Brewery Creek*, 1947; *Borneo People*, 1956; *Angkor*, 1958. *Recreations:* Ornithology, collecting, skiing. Club: Brooks's Club. Address: 2, King George's Avenue, New Delhi.

MACHWE, Prabhakar Balwant, M.A. (Philosophy), 1937, M.A. (English Literature), 1945, Ph.D. (Hindi Literature), 1958, Hindi Writer; Asst. Secretary, Sahitya Akademy, New Delhi. b. Dec. 26, 1917; Educ.: X'ian Coll., Indore; Agra Coll., Agra; Secy. Madhur Sangh, Indore, 1937; Lecturer in Madhav Coll., Ujjain, 1938-48; worked in All-India Radio, Allahabad, Delhi and Nagpur stations till 1954. Publications: *Hindi*: One volume of poems, four short novels, five books on literary criticism and edited one dictionary, translated several books and articles from English into Hindi and Marathi. *Recreation*: Painting. Address: Assistant Secretary, Sahitya Akademi, 74, Theatre Communication Bldg., Connaught Circus, New Delhi.

MACINTYRE, His Excellency Dato S. Chelvaningam, P.M.N., High Commissioner for the Federation of Malaya in India, since Sept. 1957. b. Jan. 27, 1903; Educ.: The Methodist Boys' School, Kuala Lumpur, Malaya; Trinity Coll., Kandy, Ceylon; called to the Bar from Lincoln's Inn, 1927; in practice as an advocate and solicitor in the State of Johore from 1928; acted as personal legal adviser to H.H. Sultan of Johore from 1956; nominated member, Batu Pahat Town Board, 1949-53; elected member, Batu Pahat Town Council (Johore State), 1953-56; nominated member, Johore State Council, 1949-53; elected member, Alliance Party for the Batu Pahat Central Constituency, 1954-57; resigned, Sept. 1957; elected member, Alliance Party for the Batu Pahat Constituency in the Federal Legislative Council, 1955-57; until resignation, served on the Finance Ctee. of Federal Legislative Council, Sultan Ibrahim Scholarship Board and Johore State Education Board; Associate member, United Malay National Organisation (U.M.N.O.), since 1953; awarded "Panglima Mangku Negara" (Dato) by H. M. the Yang di-Pertuan Agong on 1st Independence Anniversary, Aug. 31, 1958. Address: 50/48, Chanakypuri, New Delhi.

MACKAY, Peter Vansittart, Deputy Managing Director, A. & P. Harvey Ltd. b. 1913, in London. Joined Madura Mills, 1935; Director: Madura Mills Co. Ltd., Madurai, Tuticorin and Ambasamudram; Pandyan Insurance Co. Ltd.; Fenner, Cockill Ltd.; Punalar Paper Mills Ltd.; Travancore Titanium Products Ltd., etc. *Recreations:* Tennis, Golf. Address: 2, Race Course, Madurai.

MADAN, Bal Krishna, M.A., Ph.D., Executive Director, the Reserve Bank of India, since July 1959. b. July 13, 1911; Educ.: Univ. of Punjab, Lecturer in Economics, Univ. of Punjab, 1936-37; Special Officer on Resources,

Punjab Govt., 1937-39; Economic Adviser to Punjab Govt., 1940-41; Dir. of Research, Reserve Bank of India, Bombay, 1941-45; Secy., Indian delegation to Bretton Woods, 1944; Dy. Secy., Indian Tariff Board, 1945; nominated member, Indian Leg. Assembly and Assembly Cttee. on Bretton Woods Agreement, 1946; member, Agricultural Prices Cttee. of Policy Cttee. on Agriculture, Govt. of India, 1945-46; Alternate Exec. Dir., I.M.F., 1946-48; International Bank for Reconstruction & Development, 1947-48; Exec. Dir., I.M.F., 1948-50; member, Indian delegation to First Commonwealth Finance Ministers' Conference, London, 1949; Adviser, Indian delegation to U.N.E.S.C.O., 1949; Economic Adviser to Reserve Bank of India, 1950; member: Finance Commission, Indian Govt., 1952; Taxation Enquiry Commission, 1953-54; Experts Group on U.N. Special Fund for Economic Development, 1955; Standing Cttee., Panel of Economists, Planning Commission, since 1955; Food Policy Cttee., 1957. Principal Adviser, Reserve Bank, 1957-59. *Publications*: *India and Imperial Preference—A Study in Commercial Policy*, 1939; Economic articles. *Recreations*: Golf. Clubs: Delhi Gymkhana, Cricket Club of India. *Address*: Reserve Bank of India, Central Office, Bombay 1.

MADGULKAR, Vyankatesh Digambar, Marathi Writer; Producer, Rural Programme, A.I.R., Poona. b. July 7, 1927; *Educ.*: Atapdi (South Satara). Published his first book, 1949; since then, has written over hundred stories, collected in about 10 volumes; was awarded first prize thrice by the State for best books; has written extensively about village folk; is a realistic writer; his novel Banagarwadi is being translated into English; many of his short stories have been translated into Hindi, Gujarati, etc. *Publications*: *Mandeshi Manas*; *Garukdechya Gosti*; *Banagarwadi*, etc. *Recreations*: Painting, Hunting, Photography. *Address*: 10, Bombay Road, Poona-8.

MADIA, Chumilal Kaldas, B.Com. (Bom.), Gujarati Writer of short stories, One Act Plays, Novels, etc.; Language Editor, U.S. Information Service, Bombay. b. Aug. 12, 1922, at Dhoraji, Saurashtra; *Educ.*: Bhagvat-sinhji High School, Dhoraji; H.L. Coll. of Commerce, Ahmedabad. Took to journalism and fiction writing while at college; toured the U.S.A. Europe and studied dramatics and theatre movement, 1955; was nominated on Gujarati Advisory Board of the Sahitya Akademi (National Academy of Letters), 1950; awarded Narmad Gold Medal for best contribution to play-writing (*Rangada*) for the period 1947-51; awarded several prizes for his short stories, plays, etc.; Bombay Government's first prize of Rs. 2,000 for best collection of short stories *TEJ ANETIMIB*, 1950; awarded Ranjitram Gold Medal by Gujarat Sahitya Sabha for outstanding achievements in creative literature, 1957. *Publications*: *Novels*: Vyajano Varas; *Jiludi Dharati*; *Collections of Short Stories*: *Ghooghavadan Pur*; *Antasruta*; *Plays*: *Rangada*; *Shoonyashesh*; *Travel*: *Jai Girnar*; *As Par, Pele Paar*; *Criticism*: *Grandhagarima*; *Essays*: *Chopatina Bankadethi*; *Compilation*: *Shreshtha Natikao*; recently assigned by the Sahitya Akademi to compile and edit folk literature of Gujarat. *Translation*: *Shreshtha American Varao*. *Address*: 264, Walkeshwar Road, Malabar Hill, Bombay 6.

MAHAJAN, C. V., M.A. (Bom.), B.A. (Hons.) (Oxon), M.A. (Oxon), Member, Union Public Service Commission, New Delhi, since Jan. 2, 1956. b. Jan. 2, 1895; *Educ.*: M.A. from St. Xavier's Coll., Bombay 1917; B.A. (Hons.) 1920 and M.A., 1933, from Keble Coll., Oxford. Master, St. Peter's European High School, Bombay, 1917-23; Lecturer, Professor, Vice-Principal and Principal, St. John's College, Agra, 1922-54; Vice-Chancellor, Agra University, 1949-55. *Address*: 8-B, Lodhi Estate, New Delhi.

MAHAJAN, Lala Dinanath, Law and Revenue Minister, Jammu and Kashmir State; Advocate, Supreme Court of India. b. Jan. 17, 1902; *Educ.*: Mirpur High School; Prince of Wales Coll., Jammu. Joined the bar at the age of 19; started practice as a lawyer at Rajouri; moved to Jammu, 1930; enrolled as Advocate, High Court of Jammu and Kashmir State; made a mark in legal profession; was Pres., Jammu Bar Assoc., for about 11 years; enrolled as Advocate, Supreme Court, 1955; was member, Praja Sabha (Leg. Assembly), Jammu and Kashmir under Maharaja's rule till its dissolution in 1947; elected member, Municipal Council, Jammu, 1956; was its first elected Pres.; was Pres., Arya Samaj for many years; elected by a big majority to the Leg. Council of the State from Jammu Province Local Authorities constituency. *Address*: Law and Revenue Minister, Jammu and Kashmir State, Srinagar.

MAHAJANI, Ganesh Sakharam, M.A. (Cantab.), Ph.D. (Cantab.), B.A. (Bom.), Smith's prizeman (1926), Member, Union Public Service Commission, since July 1957; Life-member, Deccan Education Society, Poona; Ex-M.L.C., Bombay. b. Nov. 27, 1898; *Educ.*: High School, Satara, Fergusson College, Poona, St. John's College, Cambridge; First in Intermediate (Second Sanskrit Scholar) and the B.A. Examinations, Duke of Edinburgh Fellow. Went to England as Government of India scholar; returned to India in 1927; Foundation Fellow of the Indian Academy of Sciences, Bangalore, and of the National Institute of Science, Calcutta; obtained King's Commission, U.T.C.; promoted "Major" (1947 June); Dean of the Faculty of Science, Bombay University, 1936, 1937, 1938; non-official civilian member of No. 4 G.H.Q. Selection Board, Jalaipur (Sept. 1943-June 1944); Principal and Professor, Fergusson Coll., Poona, 1929-45; Secy., Deccan Education Society, 1945-47; Vice-Chancellor, Rajputana Univ., 1947-53; Vice-Chancellor, Delhi University, 1953-57. *Publications*: *Lessons in Elementary Analysis, The Application of Moving Axes Methods to the Geometry of Curves and Surfaces, An Introduction to Pure Solid Geometry, Contribution to Theory of Ferromagnetic Crystals* (published in the Transactions of the Royal Society, London); political pamphlets, e.g., *The Liberal Outlook, Liberals and the Congress, The Problem of the Minorities and Constitutional Democracy as its Solution, Education and Democracy and The Defence Problem of India*. *Address*: 9, Teon Murti Lane, New Delhi.

MAHALEKHOS, Prof. Prasanta Chandra, M.A. (Cantab.), D.Sc. (honoris causa), F.R.S., Statistical Adviser to the Cabinet, Government of India, since 1949; Secy. and Director, Indian Statistical Institute, Calcutta, since foundation, 1931. b. June 29, 1893, at Calcutta; *Educ.*: B.Sc. (Hons.) in Physics, Presidency Coll., Calcutta Univ., 1912; Math. Tripos, 1914; Nat. Science Tripos, Part II (Physics), 1915; Senior Research Scholar, King's Coll., Cambridge Univ.; F.R.S. 1945; Foreign Member, U.S.S.R. Academy of Sciences, 1958; Weldon Medal and Prize, Oxford Univ., 1944; Sir Debaprasad Sarbadhikary Gold Medalist of Calcutta Univ. 1957; Hon. Fellow, Royal Statistical Society, London, 1954; Foundation Fellow, National Institute of Sciences, India; elected member, International Statistical Institute, 1937; Hon. member, 1952; Hon. Pres., 1957; Pres., Indian Science Congress, 1950; presided over Anthropology section, 1925, Mathematics and Statistics section, 1942; Gen. Secy., 1945-48; Pres., National Institute of Sciences, India, 1957; Chairman: U. N. Statistical Commission, 1954, '57; U. N. Sub-Commission of Statistical Sampling, 1947-51; in the Indian Educational Service, 1915-48; Head, Dept. of Physics, Presidency Coll., Calcutta, 1922-42; Principal, 1945-48; Prof. Emeritus, since 1948; Meteorologist, Calcutta, 1922-28; Founder-Editor, "Sankhya": The Indian Journal of Statistics,

since 1933; Karmasachiva (Gen. Secy.), Rabindranath Tagore's Vivabharati, 1921-31; made scientific tours and gave lectures and held conferences at Univs., laboratories and other institutions in Belgium, Brazil, Burma, Canada, China, Czechoslovakia, Denmark, France, Germany, Italy, Netherlands, Norway, Poland, Spain, Sweden, Switzerland, U.K., U.S.A. and U.S.S.R.; Leader, Indian Delegation: International Statistical Institute, 1947, '49, '51, '53, '55, '57; Congress of Mathematicians, 1950; U.S.S.R. Academy of Sciences, Moscow, 1951, '52, '54, '57; Chairman, ECAFE Conference of Statisticians, Bangkok, 1952. *Address*: 204, Harnackpore Trunk Road, Calcutta 35; 8, King George Avenue, New Delhi.

MAHESHWARI, Panchanan, D.Sc. (1931), F.N.I. (1936), F.A.Sc. (1934), F.R.S. (1950), Scientist; Professor and Head of the Department of Botany, Univ. of Delhi, since 1949. b. Nov. 9, 1904; *Educ.*: Jaipur and Allahabad; travelled abroad to visit botanical institutions in Europe (1936, 1950, 1954, 1956); U.S.A. (1946, 1956); U.S.S.R. (1958); Indonesia (1952). Lecturer at Agra Coll. (1930-37) and Univ. of Allahabad (1937-39); Reader and Head of the Biology Dept., Dacca Univ. (1939-49); Professor of Botany, Dacca Univ. (1947-49); Pres.: Botany Section, Indian Science Congress (1950); Indian Botanical Society (1952); Embryology Section, International Botanical Congress, Paris (1954); International Society of Plant Morphologists (1954); Corresponding Member, American Botanical Society, 1947; Honorary Foreign Fellow, American Academy of Arts and Sciences, 1947. Editor, *Phytomorphology* since 1951. *Publications*: Author of *Embryology of Angiosperms*; and about 200 papers on Botany particularly on plant morphology and embryology. *Recreations*: Classical music; Photography. *Address*: 29, Probyn Road, Delhi 8.

MAHINDRA, K. C., B.A. (Cantab.), Chairman, Mahindra & Mahindra Limited, Bombay, Turner, Hoare & Co., Ltd., Bombay, Indian Aluminium Company Ltd., Calcutta, Indian & Eastern Engineer Co., Ltd., Bombay, Machinery Manufacturers Corporation Ltd., Calcutta, Oils (India) Ltd., Bombay; was Head of the India Supply Mission stationed at Washington, U.S.A., 1942-45; Chairman, Indian Coalfields Cttee. of the Govt. of India; Chairman, the Automobile and Tractor Panel and the Prime Movers Panel, 1946-47; member, Central Advisory Council of Industries; Director, Reserve Bank of India, Director: Air India International; Hindustan Steel Ltd.; Indian National Diesel Engine Co., Calcutta; National Carbon (India) Ltd., Calcutta; Nangal Fertilizers & Chemicals Private Ltd., New Delhi; Guest, Keen, Williams Ltd., Calcutta; Metal Box Co., Ltd., Calcutta. *Address*: Gateway Building, Apollo Bunder, Bombay 1.



MAHANTAS, Harakrushna, Chief Minister, Orissa, from April 6, 1957. b. Nov. 1899; *Educ.*: Ravenshaw College, Cuttack. Joined non-co-operation movement, 1921; since then a worker for Indian National Congress; Chairman, District Board, Balasore, 1924-28; was also elected to the Bihar & Orissa Legislative Council, 1924; was in journalism for seven years as editor *Prajatantra*, an influential Oriya daily paper and also *Rachana*; took part in Civil Disobedience Movements, 1930 and 1932; was elected President, Utkal Provincial Congress Cttee, twice, 1930 and 1937; organised the Includi Salt Satyagraha;



was imprisoned for 1½ years (1930-31); imprisoned several times in connection with political activities, 1932, 1942, etc.; Member, Congress Working Ctee., 1938-40; Leader, Congress Assembly Party, Orissa; has been largely instrumental in merging the Orissa States with the Province of Orissa, Dec. 1947; was President, Orissa States Enquiry Ctee.; donated Rs. 25,000 for the publication of the unpublished works of ancient Oriya poets, and Rs. 26,000 for the propagation of Gandhi Dharma among the Adibasis of Orissa; Chief Minister, Orissa, 1946-50; was conferred Honorary Degree, Doctor of Literature by the Andhra Univ. in 1950; Minister for Commerce and Industry, Government of India, 1950-52; Secretary-General, Congress Parliamentary Party, 1952-54. Governor of Bombay, 1955-56; as Chief Minister of Orissa submitted resignation of Ministry on May 9, 1958; resignation not accepted; resigned and formed Congress-Parishad Coalition Ministry, May 1959. *Publications*: Three popular novels; a drama; *History of Orissa*, the only authentic history of the Province. *Address*: Bhubaneswar.

MAI-SWARUP MAI-MARKAND (formerly Rao Sahab M.R. Dholakia, L.C.E.), Founder of Mai-ism and President, "Mother's Lodge". b. Dec. 23, 1885; *Educ.*: Poona Engineering Coll.



Entered Govt. Service, 1921; retired as Dy. Asstt. Consulting Surveyor, Bombay, 1942; served as Spl. Land Acqn. Officer, Karachi, Poona, Bombay and Hubli; after retirement from world has become full-time Mother's servant, since 1945; Hindu Mother's devotee since twelve, with miraculous experiences and powers; installed Universal Mother Sisters' social in strict purdah of all creeds on Dasarah day (Oct. 9, 1932); started Mother's Lodge in Poona, on Gudi Padva Navratri day (March 27, 1933); explained "God as Mother" at All Faiths Conference, Nasik, 1933; delivered speech on "Modern World and Motherhood of God" at Indian Philosophical Congress, Poona, 1934; also convened Sisters' gathering in Madras on Dasarah day (Oct. 1, 1949); and further in Calcutta, Kerala, on Dasarah day (Oct. 8, 1954); has been conducting Mother's Lodge, an Institute of sisters and brothers with branches and followers in Bombay and South, for the propitiation of God as Universal Mother through universal love and service, devotion and unconditional cheerful self-surrender and invoking Mother's Blessing with prayers and worship for universal peace, welfare and relief and Mother's Mercy for individual bliss, peace and prosperity; invited to participate in the World Peace Round Table Conferences by the World Religion Congress, Japan (Shimizu), May 3, 1955; jointly established the International Religious Federation, May 27, 1955; elected Sub-Councillor, in-chief of I.R.F. contacting practically the whole world (over 70 countries); started the Essence Series of Universal Religion, contributions by world religionists to the World Religions Congress, Japan, Jan. 1956 (Anand Kyo Issue); convened Fourth Sisters' Social of over 3,000 sisters in the Town Hall on Dasarah day, Oct. 4, 1957 and started Mai Adherent's Institute in the charge of Bro. Ramankutty Nair, both in Trichur, Kerala State; released on Christmas day, 1957, "The World's Need and Mai-ism" by Rev. Bro. Ernest Kirk, Editor of *Life*; also convened Fifth Sisters' Social in Trivandrum under the presidency of Maharani Sethuparvathi Amma of Travancore on Dasarah day, Oct. 24, 1958. *Important Publications*: *God as Mother: Mai-Poojya* (Gujarati); *Theory and Principles of Universal Mother movement*; *Mother and Mother's Thousand Names* (in 2 vols.); *Hindi Mai Prarthana and Mai Gurus Ananya Bhakti*; *Mother's Message* (2nd Edition, English, Malayalam); *Mai Sandesh* (Gujarati); *Mai*

Sahasranama Pathanam (Marathi, Malayalam); *Thai-Mayi Vahi* (Tamil); *Mai-ism* (784 pages), *Mothers' Meditation, Pre-natal Narration and Preamble of I.R.F., The World's Need and Mai-ism* by Ernest Kirk, etc. *Address*: Mother's Lodge, Santa Cruz West, Bombay 23.

MAITRE, Rathin, Painter; Hon. Secretary, Academy of Fine Arts, Calcutta. b. July 15, 1913; *Educ.*: Matriculated from the Calcutta Univ., 1932; passed the Final Diploma Exam. from Govt. College of Art & Craft (in Fine Arts), Calcutta, 1938. Zeal for self-expression through painting drove him play a prominent part in the formation of the Calcutta Group; travelled extensively throughout India, Europe and U.S.A.; is attached to Govt. College of Art and Craft, Calcutta. *Address*: No 5, S. R. Das Road, Calcutta 26.

MAITRE, Sankar Nath, Indian Ambassador to Philippines, since April 1959. b. 1912; *Educ.*: Calcutta Univ.; King's Coll., London; St. Catherine Coll., Cambridge. Entered the Indian Civil Service, 1935; served as Asstt. Commissioner and later as Deputy Commissioner in various districts in Assam till 1947; Labour Commissioner, West Bengal, 1948-49; Dist. Magistrate, 24 Parganas, 1949-52; Excise Commissioner, West Bengal, Dec. 1952-July 1953; Chief Commissioner, Andaman & Nicobar Islands, July 1953-March 1956; Officer on Special Duty, External Affairs Ministry, April-Nov. 1956; Deputy High Commissioner for India in Pakistan, Dacca, Nov. 1956-58; Acting High Commissioner for India in Pakistan, Karachi, June-Nov. 1958. *Address*: C/o External Affairs Ministry, New Delhi.

MAJID, Abdul, B.A., Urdu Writer. b. 1892. *Educ.*: Lucknow and Aligarh. Editor, *Sidd* (Weekly), Lucknow, since 1925; Vice-Pres., Hindustan Academy, Allahabad; Pref., Shibli Academy, Azamgarh; member, All India Radio Advisory Ctee., Lucknow, Examiner, Indian Univ. *Publications*: Author of about 30 books mostly in Urdu. In Urdu: *Commentary on the Holy Quran* (7 vols.); *Popular Psychology*; *Logic*; in English: *Commentary on the Holy Quran* (7 vols.), *Psychology of Leadership*; translation into Urdu of: Lecky's *History of European Moral* (2 vols.); Buckle's "Theory of Civilization in England". *Address*: P.O. Daryabad, Bara Banki, U.P.

MAJITHIA, Sardar Surjit Singh, B.A., Deputy Minister for Defence, Govt. of India, since Aug. 1952. b. Aug. 8, 1912, at Simla. *Educ.*: Chifla Coll., Lahore; Khalsa Coll., Amritsar; Law Coll. and Govt. Coll., Lahore. M.L.A. Central, 1945-47; member, Defence Consultative Ctee., 1945-47; Indian Ambassador to Nepal, 1947-49; Pres., Khalsa Coll., Amritsar; Life-Member, Sant Attar Singh Gursagar Mastana Trust, PKPSU; returned to the Lok Sabha from Taru Taran Constituency, Punjab, 1952, and again 1957. *Recreations*: Wireless transmission, Agriculture, Flying, Sports. *Address*: Majithia House, Amritsar; New Delhi.

MAJITHIA, Sardar Sir Surendra Singh, Kt. (1946), Landlord and Industrialist. b. 1895. *Educ.*: Khalsa Collegiate High School and Khalsa Coll., Amritsar. Managing Director, Saraya Sugar Mills (Ptd.) Ltd.; Senior Managing Partner, Saraya Oil Works, Saraya Distillery, Saraya Dairy Farm, Saraya Surkhi Mill, Saraya Chemical Works, Sardarnagar; Fairweather of Munaffarpur, Bihar and Gorakhpur, U.P.; Proprietor, Saraya Estate; Director, Punjab and Sindh Bank Ltd., Dehra Dun; Pres.: Maharana Pratap Coll. Working Ctee., Gorakhpur; Budha Degree Coll. for Asian Languages, Kushinagar (Deoria); U.P. Badminton Assoc.; Chairman: Co-operative Development Union Ltd., Sardarnagar and Hata; Zonal Road Development Ctee., Sardarnagar; Senior Vice-Pres., Working Ctee., Gorakhpur Univ. Foundation Society;

member: Council of Khalsa Coll., Amritsar; Akal College Council, Gursagar; Dist. Ctee. of Mahatma Gandhi National Memorial Fund, Gorakhpur; Advisory Ctee. constituted under U.P. Sugar and Power Alcohol Industries Labour Welfare and Development Fund Act, 1950; Sugar Technologists' Assoc. of India, Kanpur; Exec. Ctee., Northern India Mercantile Chamber of Commerce, Lucknow; N.E. Rly. Zonal Users' Consultative Ctee.; U.P. Tuberculosis Assoc., Lucknow; Advisory Board for Promotion of Organized Industries, U.P.; Managing Ctee., Gorakhpur Labour Welfare Fund; Gorakhpur Blind Relief Assoc.; Exec. Ctee. of Deoria Mahavidyalaya Degree Coll., Deoria. *Address*: Saraya Sugar Mills, P.O. Sardarnagar, Dist. Gorakhpur, U.P.

MAJUMDAR, Bhupati, Minister for Commerce & Industries and Tribal Welfare Depts., Govt. of West Bengal, since 1957. b. Jan. 1, 1891; *Educ.*: Hooghly Branch School; Hooghly Coll. Political Worker since 1905; took part in all revolutionary activities in and outside India; prisoner in Singapore Fort, during the First World War; joined Congress, 1921; Secy. Provincial Congress Ctee., 1923; deported for 5 years (1923-28); took up Congress work but deported again for 9 years; Pres., South Calcutta Dist. Congress Ctee. for 11 years; Vice-Pres., P.C.C. for many years; again prisoner during the 1942 movement; after release elected M.L.A., 1946; Minister, 1947-52; takes active interest in cultural and sports organisations; Vice-Pres., National Council of Education; Indian Society of Oriental Art; Pres., Naba Brindaban Sangha; Akil Bharat Sangeet Kalabid Samity; West Bengal Rifle Assoc.; All-Bengal Physical Culture Institute, Khabaddi. *Address*: Minister for Commerce and Industries, Calcutta.

MALEVIYA, Pt. Keshav Deva, M.Sc., Minister of Mines and Oil, Govt. of India, since April 17, 1957. b. Aug. 11, 1903, at Allahabad; *Educ.*: M.Sc. from the Allahabad Univ., Diploma in Oil Technology from the Harcourt Butler Technological Institute, Kanpur, 1929. Joined the Congress movement, 1921; courted jail several times and spent, more than 9 years, in various prisons; Secy., City Congress Ctee., Allahabad; Gen. Secy., U.P.P.C.C. for many years; Organizer of the first General Elections of the Congress in 1937 as Gen. Secy., Congress Parliamentary Board; actively participated in the "Quit India" movement and successfully conducted the struggle from underground; Parliamentary Secy., U. P. Govt., 1946; Minister of Development and Industries, 1947; resigned from the Ministry, Aug. 1951; Parl. Secy. Govt. of India, June 3-Aug. 11, 1952; Dy. Minister, Natural Resources and Scientific Research Aug. 12, 1952 to Dec. 6, 1954; Minister of Natural Resources, Dec. 7, 1954-April 16, 1957. *Address*: 27, Safdar-jang Road, New Delhi.

MALEOTRA, Beli Ram, Rai Sahib (1937), Rai Bahadur (1948), Chief Engineer, Hindustan Steel (Private) Ltd. (Ministry of Steel, Mines and Fuel, Dept. of Iron & Steel, Govt. of India), Bourkela-2 (Orissa), since Sept. 1954. b. Aug. 1, 1903; *Educ.*: Govt. Coll., Lahore; T.C.E. Coll., Roorkee, Asstt. Engineer, P.W.D., Dec. 1927-Sept. 1935; Executive Engineer, Sept. 1935-Sept. 1945; Superintending Engineer, Sept. 1945-Sept. 1954. *Address*: Chief Engineer, Hindustan Steel (Private) Ltd., Bourkela-2 (Orissa).

MALEOTRA, Faren Chand, President, Income-tax Appellate Tribunal. b. Jan. 24, 1902, Member of the Institute of Chartered Accountants, London and India; joined the Govt. of India as the first Accountant Member of the Income-tax Appellate Tribunal, Jan. 1941. *Address*: Office: Income-tax Appellate Tribunal, Central Govt. Bldg., 4th floor, Queen's Road, Bombay 1; *Residence*: Carmichael House, Carmichael Road, Bombay 26.

MALIK, Bidhabhusan, M.A., LL.B. Barrister-at-Law, Commissioner for Linguistic Minorities since 1957. b. Jan. 11, 1895; *Educ.*: Central Hindu Coll., Benares; Ewing Christian Coll., Allahabad; Univ. School of Law, Allahabad; The Hon. Society of Lincoln's Inn, London. Vakill, Allahabad High Court, 1919; called to the Bar, 1923; enrolled as Advocate, Allahabad High Court, Jan. 1924; member, Judicial Cttee., Benares State, 1941; Special Counsel, Income Tax Depts., 1942; Judge, High Court, Allahabad, March 1944; Chief Justice, 1947-55; Acting Governor, 1949; Indian Representative on the Federation of Malaya Constitutional Commission, 1956; *Publications*: 10th Edition of Woodroffe and Ameer Ali's Evidence Act; *The Art of a Lawyer*. *Recreations*: Golf. *Address*: 11, Edmonstone Road, Allahabad.

MALIK, His Excellency Dr. Omar Hayat, High Commissioner for Pakistan in India. b. 1895; *Educ.*: Aligarh, Cambridge and Gottingen; took the degree of Doctor of Laws (Honours) of Glasgow Univ. Is a leading educationist; held important posts both in Islamic Coll., Peshawar and Islamic Coll., Lahore; was Chief Statistical Officer in the Dept. of Supply, Govt. of India, during World War II; member, Constituent Assembly of India, 1946; was also a member of the Constituent Assembly of Pakistan; has travelled extensively and is a linguist; besides English, speaks French and German fluently; Ambassador of Pakistan to Indonesia, 1950-52; Ambassador of Pakistan to Germany, 1952-55; Ambassador of Pakistan to Japan, 1955-59. *Address*: 8-B, Hardinge Avenue, New Delhi.

MALKANI, Naraindas Rattanslal, M.A. (Cal.), M.A., LL.B. (Bombay), Member, Rajya Sabha; Hon. Worker, Constructive Work Section, A.I.C.C., New Delhi; member, A.I.C.C. b. Oct. 1890; *Educ.*: Karachi and Bombay. Prof. of Economics, G.B.B. Coll., Muzaffarpur, 1914-20; joined Congress, 1921; M.L.A., Sind, 1945-47; Addl. Dy. High Commissioner for India in Pakistan, 1948; Director of Rehabilitation, Rajasthan, 1949-52; member, A.I.C.C.; Pres.: Sind Congress Workers' Samiti; Central Board, All India Harijan Sewak Sangh; member: Central Harijan Board; National Advisory Cttee. on Public Co-operation; Gandhidham (Port) Development Authority; Chairman, Public Co-operation, All India Bharat Sewak Samaj, Pres., Little Theatre Group, Delhi. *Publications*: About 25 books in Hindi. *Recreations*: Writing in Hindi and English. *Address*: 115, North Avenue, New Delhi.

MALLICK, Kumudranjan, B.A., Bengali poet. b. March 1, 1883 (Bengali 18th Falgun 1289), at Kogran, Burdwan; *Educ.*: Home and Calcutta; took B.A. degree in 1905 winning the Bankim Chandra Gold Medal. Began his career as a school teacher in Nabin Chandra Institution of the Maharaja of Cossimbazar; was its head master, 1908-37; began writing verses at a very early age; awarded Jagat Tarini gold medal by the Calcutta Univ., 1957. *Publications*: *Ujant*; *Ajoy*; *Bana malika*; *Bithi*; *Ektera*, etc. *Recreations*: Gardening. *Address*: Kogran, P.O. Nutanhat, Burdwan, West Bengal.

MALLICK, Mr. Justice Prakash Chandra, B.A. (Hons.) (Boon.), M.A. (Hons.) (Cal.), B.L., Judge, Calcutta High Court, since 1954. b. March 24, 1904, at Calcutta; *Educ.*: South Suburban School; matriculated in the first division, 1920; St. Xavier's Coll.; gave up studies to join non-co-operation movement, 1921; resumed studies at Vidyasagar Coll.; B.A. (Hons.) in Economics, Presidency Coll., 1924; M.A. (Hons.) from Cal. Univ. with 1st Class, 1928; won the Univ. Gold Medal; B.L. with 1st Class, 1929. Enrolled as Advocate, 1930; came first in the examination held by the High Court for being entitled to practise in the original side, 1933. *Recreations*: Reading. *Address*: 24B, Mohini Mohan Road, Calcutta 20.

MALWIKER, Anjanlal, Fellow of The Sangeet Natak Academy. (Awarded, 1958), Musician. b. April 22, 1883; *Educ.*: Academic education in Marathi, Urdu, Gujarati and a little English; learnt Music by private tuition from Ustad Nasir Hussain Khan (Bhendibazarwale) for 36 years and occasionally from Ustad Chhajjukhan and Khadim Hussain. Received many honours and cash gifts from Nepal, Indore and Baroda Rulers; has been a leading figure in the music world. *Recreations*: Music; Literature. *Address*: 11A, New Bhatwadi Cross Lane, Awantikabal Gokhale Road, Bombay. 4.

MANDLOI, Bhagwantrao Kanabhan, B.A., LL.B. Revenue, Local Self-Govt. and Commerce & Industry Minister, Govt. of Madhya Pradesh, since Nov. 1, 1956. b. Dec. 15, 1892; *Educ.*: Matriculated from Govt. High School, Sagar; B.A. from Govt. Coll., Jabalpur, 1914; LL.B. from Univ. School of Law, Allahabad, 1917. Practised as a Lawyer at Khandwa; has been Pres., Municipal Cttee., Khandwa for three terms of five years each; was in charge of various Public Institutions, viz., The Morris Memorial Library, Khandwa, The Orphanage, Khandwa, The Nimar Education Society, Khandwa, which conducts a Degree College and a High School; was member, Governing Body of Women's Hospital, Khandwa; has been a member, P.C.C. for the last 20 years; member, C.P. & Berar Leg. Council, 1935-37; member, M.P. Leg. Assembly, since 1937; was member, Constituent Assembly and Interim Parliament; Revenue and Education Minister, M.P. till 31st Oct. 1956; member, A.I.C.C. *Address*: Revenue Minister, Bhopal.

MANEKIAL, T. Industrialist, social worker and landlord. b. March 7, 1911, at Ahmedabad. *Educ.*: Gujerat Coll. in Commercial and Industrial subjects. Started manufacture of



complicated machines in India at the instance of the Government of India; is one of the leading industrialists to start the manufacture of Industrial Rubber Rollers and Textile Wet Processing Machines; established relations with Benninger Engineering Co. Ltd., Uswil, Switzerland in collaboration with whom he started manufacture of automatic textile bleaching, dyeing and finishing machines under the name of Benninger-Manekial; in collaboration with Swiss Locomotive Machine Works of Winterthur, Switzerland, manufactures SLM-Manekial Rotary Air Compressors in India; is sole concessionaire in India for all SLM products; established Manekial Hug (India) (Private) Ltd. in India in partnership with Messrs. Hug, A. G., Wildegg (Switzerland); successfully negotiated with foreign manufacturers of rolling stocks to meet the requirements of the Railway Board during the 1st and 2nd Five-Year Plans; is agent to Messrs. Schindler Wagons S.A., Pratteln (Switzerland) to cater for their interest in India for rolling stocks, wagons, etc.; has been connected since 1952 as Pres., Vice-Pres. and Cttee. member of Assoc. of Merchants and Manufacturers of Textile Stores and Machinery; Indo-German Cultural Society; International Club; All India Manufacturers' Organisation; is connected with the following organisations as Managing Agent, Managing Director and Director: T. Manekial Mfg. Co. Ltd., T. Manekial (Private) Ltd.; Manekial Hug (India) Private Ltd.; Bombay Constructions (Private) Ltd.; D. P. Manekial (Private) Ltd.; visited Japan as a member of the Indian Trade Delegation to Japan, sponsored by the Govt. of India, 1947; travelled all over the world several times to promote export and import business and industry. *Address*: Office: T. Manekial Mfg. Co. Ltd., Vaswani Mansions, 4th floor, Opp. K. C. College, Dinshaw Vacha Road, Churchgate Reclamation, Bombay 1; *Residence*: Manek Mahal, 4th floor, Churchgate, Bombay 1.

MANGILDES, Madanmohan, B.A. (Bom.), Industrialist and business man, Ahmedabad. b. Oct. 5, 1917. Is a leading millowner in Ahmedabad; joined business after taking his degree; manages three cotton textile mills, two in Ahmedabad and one in Bombay; Director of various cotton textile mills and associate concerns; Director, Bank of India Ltd.; has been member, Managing Cttee., Ahmedabad Millowners' Assoc.; elected its Vice-Pres., 1947 and Pres., 1955 and 1958; was mainly responsible for the five years' Bonus Pact between the employers and employees of the cotton textile industry in Ahmedabad; elected M.L.A., Bombay from Ahmedabad, 1951; Representative of the Ahmedabad Millowners' Assoc. on Employees' State Insurance Corporation, its Standing Cttee. and Sub-Cttee., Cotton Textile Fund Cttee. etc.; member: Export Advisory Council; Cttee. of Indian Cotton Mills Federation has travelled widely throughout the Continent and other countries namely Japan, America, Ceylon, Egypt, etc.; represented India at the International Cotton Congress, Egypt, 1951; liberally donates to charities and public institutions. *Clubs*: Willingdon Club, Bombay (member). *Address*: Mangal Bag, Ellis Bridge, Ahmedabad 6.

MANGAT RAI, Edward Nirmal, M.A., I.C.S., Chief Secretary to Govt., Punjab, since Nov. 18, 1957. b. March 30, 1915; *Educ.*: St. Stephens Coll., Delhi; Keble Coll., Oxford, England. Joined service, Sept. 10, 1938; Asst. Commr. in undivided Punjab, Oct. 20, 1938-April 23, 1940; Under Secy. to Fin. Commr., Lahore, June 14, 1941-March 1942; Asst. Price Controller, Punjab, March 6, 1942-June 1943; Asstt. Director of Civil Supplies, June 20, 1943-Sept. 1943; Director, Civil Supplies, Lahore, Sept. 24, 1943-May 1947; Director General of Food Purchase, Punjab, May 15, 1947-Nov. 1950; Finance Secy. Punjab, Nov. 13, 1950-1954; Planning and Dev. Commr., Punjab, 1954-Nov. 1957. *Club*: Chandigarh Club, Chandigarh. *Address*: Chief Secretary to Government, Punjab, Chandigarh.

MANI, Kanakaveer Doraiswamy, M.A. (Madras), Managing Editor, *The Hindu*, Nagpur, since 1936; Ex-Pres., A.I.N.E.C. b. April 8, 1910; *Educ.*: Wesley Coll. and Presidency Coll., Madras. Worked as editorial apprentice on *New India* edited by Dr. Besant, 1930; joined *Hindustan*, 1933; Secy., International Section of the All-India Newspaper Editors' Conference, 1935; Provincial Branch of the Editors' Conference, 1942-48; C.P. Press Advisory Cttee., 1942-49; General Secy., A.I.N.E.C. Conference, 1949; member, its Standing Cttee. from 1940; Executive of the Indian and Eastern Newspaper Society from 1947; Pres., International Service Cttee. of the Nagpur Rotary Club, 1947-49; member, M.P. & Berar Press Enquiry Cttee., 1948; visited U.S.A., 1951, as guest of U.S. Govt.; Alternate Delegate of India at U.N. General Assembly Session in Paris, 1951-52; Chairman, U.N. Cttee. for Adm. Union, 1952; Representative on the 3rd Cttee. of U.N. General Assembly, 1953; Member, Indian Press Commission, 1952-54; Re-elected President, A.I.N.E.C., 1954; Alternate Delegate of India at U. N. General Assembly, New York, Sept. 1955. *Publications*: *Of Yanks and Others*. *Recreations*: Travelling, Palmistry. *Club*: Rotary Club, Nagpur. *Address*: Wardha Road, Nagpur.

MANI, Rangiah Sahas, B.A. (Madras), B.Sc. (Hons.) (Lond.), A.R.C.S. (Hons.) (Lond.), I.C.S., Indian Ambassador to Chile and Bolivia. b. Aug. 14, 1907; *Educ.*: Hindu Coll., Tirunelveli; Christian Coll., Madras; Royal Coll. of Science, London. Joined I.C.S., 1932; served in various posts in Bombay; Deputy High Commissioner, London; Charge d'Affaires, Rome; Joint Secy., Ministry of External Affairs, New Delhi; Ambassador to Iraq and Jordan.

Recreations: Tennis, Swimming, Chess.
Address: C/o Ministry of External Affairs, New Delhi.

MENIAPPA, Kadidal, B.A., LL.B., Minister for Revenue, Mysore, since May 1958. b. 1910; **Educ.:** Maharaja's Coll., Mysore; Law Coll., Poona. Joined the Congress, 1937; participated in all the freedom movements; Minister for Revenue, Mysore State, 1952-54; elected leader, Mysore Assembly Congress Party, Aug. 16, 1956; Chief Minister, Aug.-Oct. 1956; Minister for Education till second General Elections; elected to the State Assembly, 1957. **Address:** Bangalore.

MANNADIA, Major Sardar Chendath Navi Ramaswami, of Choudath House, one of the oldest families



of chieftains in Kerala State. A.D.C. to H.H. the Maharaja of Cochin. Was appointed Commr. of the Cochin Special Guards during war; first appointed A.D.C. in 1929 to Sir Sri Rama Varma, G.C.I.E., the then Maharaja of Cochin; was Pres., Taluk Recruiting Ctee. Attached to His Majesty's L.T.F. for a long time and was apptd. member of Unit Advisory

Ctee. of the 18th Malabar Battalion in 1941; during war rendered voluntary service for a short time and served as a company Commander in the 18th Malabar Battalion and had an attachment in the 3rd Madras Regiment; apptd. as first Vice-Patron of the Boys Scouts Assoc., Cochin State in 1944; appointed as Hon. Major in the Cochin State Forces. Awarded title of "Sardar" by H. H. the Maharaja of Cochin on 6th June 1949. **Address:** P. O. Nallepilly c/o Palghat.

MANNING, Dr. Mayadhar, M.A., Ph.D., Writer; Chief Compiler, Oria Encyclopedia, Utkal University, b. Nov. 11, 1905; **Educ.:** Banapur M.E. School; High School, Khurda; Ravenshaw Coll., Cuttack; Patna Coll., Patna; B.A. (Hons.) in English, 1930; M.A. in English, 1933; Univ. of Dharam, England; awarded Doctorate on a thesis on Kalidas and Shakespeare. Was Asst. Teacher and Headmaster in some high schools; Lecturer and later Principal of College; was Inspector of Schools. **Publications:** Poetry: *Dhupa; Hemapushpa; Premasaksha; Kamalavyasa; Jibanachita; Matibant; Sadhabayha; Jema; Akshaya; Bapu Tarpana; Konarka; Krusa; Drama: Pujariner; Buda; Puspita; Nandanida; Barabati; Rajakabi; Essays, criticisms and travels: Jibana patha; Kabi O Kabita; Paschima Padika; Oriya Samaj O Sakhya; Jibani O Prabandha; Sakhya Prabha; English-Kalidas and Shakespeare; Citizen Education: Scheme for Adult Education. **Recreations:** Writing for periodicals and visits to countryside. **Address:** Thoria Shahi, Cuttack, Orissa.*

MARIAPPA, T., B.A., LL.B., Minister for Finance, Mysore State, since May 1959. b. July 10, 1908; **Educ.:** Central Coll., Bangalore; Law Coll., Poona. Practised as an Advocate for 17 years; entered public life, 1930; has been member, legislature of the Mysore State since 1930; member: Dist. Board, Mysore; City Municipal Council, Mysore for several years; Leader of the Cong. party in the Mysore Leg. Council, 1941-45; Home Minister, Mysore, 1947-52; member, Backward Classes Commission, 1953-54; Minister for Finance and Legal Affairs, Nov. 1956-May 1958. **Address:** Minister for Finance, Vidhana Soudha, Bangalore 1.

MARIAPPA, Mahi, B.A., LL.B., Minister for Co-operation, Mysore, since May 1958. b. Feb. 18, 1912, in Siru Town; **Educ.:** Maharaja's Coll., Mysore; Law Coll., Poona. Entered the bar, 1935; joined the Congress, 1937; member, Mysore Constituent Assembly, 1946-49; M.L.A., Mysore, 1950-52; re-elected to the Assembly, 1952 and 1957 General

Elections; participated in the Freedom struggle and suffered imprisonment thrice. **Address:** Bangalore.

MARSHAN Mahi, B.A., Proprietor and Editor, *Jama Jeweled*, b. April 19, 1914; **Educ.:** Bharad New High School; Elphinstone College. Took up production of plays for the stage, films and radio; Staff Producer in All-India Radio. **Publications:** Plays, Sketches Short Stories, **Recreations:** Chess, Dramatics, Painting, Conjuring. **Club:** Cricket Club of India; Bombay Presidency Radio Club; W.I.A.A. Club; National Sports Club of India. **Address:** Jama-e-Jamshed, Mangalore Street, Fort, Bombay.

MASANI, Minoocher Rustom, M.P. (Lok Sabha), author, management consultant, sponsor, Swatantra Party, b. Nov. 20, 1905 in Bombay; **Educ.:** B.A. (Hons.), LL.B. (Lond.); Bar, Lincoln's Inn in 1928. Founder and Joint Secretary, Congress Socialist Party, 1934-39; member of the Bombay Municipal Corporation, 1935-45; Mayor of Bombay, 1945-44; member, Indian Legislative Assembly, 1945-47; member, Constituent Assembly of India, 1947-48; Ambassador of India in Brazil, 1948-49; member, Parliament of India, 1949-52 and since May 1957; Chairman, United Nations Sub-Commission on Discrimination and Minorities, 1950-52; member: Governing Body, National Productivity Council; Exe. Ctee., All-India Management Association; Head of Personnel and Productivity Services, Management Consultants. **Publications:** *India's Constitution at Work, 1939; Our India, 1940; Socialism Reconsidered 1944; Your Food, 1944; Picture of a Plan, 1945; A Plan for the Mixed Economy, 1947; Our Growing Human Family, 1950; Our India, 1953; The Communist Party of India—A Short History, 1954. Address:* 7, Altamount Road, Bombay 26.

MASANI, Sir Rustom Pestonji, Kt. (1948), M.A., J.P. b. 23rd Sept. 1876. Chairman, Executive Ctee., Indian Institute for Educational and Cultural Co-operation; member, National Commission for Co-operation with U.N.E.S.C.O.; Ex-Vice-Chancellor, Bombay University; President, Anthropological Socy., Bombay; Bombay Presidency Adult Education Assoc.; K. K. Karna Oriental Institute; Vice-Pres., All-India Centre, P.E.N.; Municipal Secretary, Dy. Municipal Commissioner and Municipal Commissioner for the City of Bombay; Mgr., Central Bank of India; Sec., Indian Central Banking Enquiry Committee; Chairman, Oriental Industrial Investment Corporation; Editor, *Kaiser-i-Hind and Indian Spectator. Publications:* *Child Protection; Folklore of Wells; The Law and Procedure of the Municipal Corporation, Bombay; The Conference of the Birds; A Sufi Allegory; Evolution of Local Self-Govt. in Bombay; The Religion of the Good Life; Zoroastrianism; Court Poets of Iran and India; Dadabhai Naoroji, The Grand Old Man of India; Education for World Understanding; Role of Wealth in Society; The Five Gifts: Story of Bhodan as an Instrument of Social Change; Britain in India: A Retrospect (in press), works in Gujarati. **Address:** 49, Merewether Road, Bombay 1.*

MASTER, Manasukhal Ramaswami, B.A., LL.B. b. Nov. 11, 1884; **Educ.:** Elphinstone Coll., Bombay. Pres., Indian Merchants' Chamber, 1945; Pres., Ctee. of the Fed. of Indian Chambers of Commerce & Industry, 1947; Trustee, Port of Bombay since 1937; member, Port Technical Ctee.; Chairman, Minor Ports Development Ctee. of the Govt. of Bombay; member, Shipping & Trade Integration Ctee., Maritime Training Facilities Ctee., Shipping Policy Ctee., Governing Body, Training Ship "Dufferin", Central Advisory Committee for Lighthouses, Senate, Bombay University; Vice-Pres., Sailors' Home; Director, Bombay Steam Navigation Co., Ltd.; Travancore Steam Navigation Co., Ltd.; Premier Automobiles Ltd.; Govt. of India delegate: International Conference of

Safety of Life at Sea (London), 1959 & 1948; United Maritime Consultative Council, Washington, 1948, Geneva, 1948, Employers' Adviser and then as Employers' Delegate; International Maritime Conference at Geneva; was General Manager, The Scindia Steam Nav. Co., Ltd.; Pres., Commerce Graduates Assoc.; Govt. Delegate—Trade Negotiations with Czechoslovakia & Switzerland. **Publications:** Several pamphlets on shipping and other matters of importance to commerce and industry. **Address:** "Raj Mahal", Juhu (Bombay 28).

MATHUR, Mathew Kandathil, B.A., A.C.A., Padma Shri (1959), Managing Director, Hindustan Machine Tools (Private) Ltd., b. April 24, 1907; **Educ.:** B.A. from Madras Christian Coll., 1928; A.C.A. from Institute of Chartered Accountants in England and Wales, 1934. Asst. Dy., and Controller of Accounts, Tata Iron & Steel Co., 1934-48; Chief Executive Officer, Air India, 1948-51; Controller of Accounts and Managing Director, Sindri Fertilisers and Chemicals Ltd., 1951-54; Jt. Secy., Ministry of Production, Govt. of India, 1954-56. **Clubs:** Delhi Gymkhana; Delhi Golf Club; Willingdon Sports Club, Bombay. **Address:** H.M.T. House, Jalahalli P.O., Bangalore.

MATHUR, Gita Kumar, M.A. (English), LL.B. (Lucknow), Hindi Poet and Critic; Assistant Station Director, All India Radio Allahabad, b. Aug. 16, 1912, at Ashoknagar (M.P.); **Educ.:** Lucknow. Founder of the New School of Hindi Poetry; joined A.I.R., 1943; first Hindi writer to work with the United Nations, 1950-51; member: Poets' delegation to Nepal, 1956; A.I.R. delegate to Russia and Czechoslovakia, 1956; widely travelled in America, England and Europe. **Publications:** Poems are being translated abroad; has published poems, plays, criticism and personal essays: *Manjeer (Poems), 1940; Naah Aur Nirman (Poems), 1954; Dhoop Ke Dhan (Poems), 1955. Address:* Ashoknagar, M.P.; All India Radio, Allahabad.

MATHUR, Jagdish Chandra, M.A., I.O.S., Director-General, A.I.R., since June 1956. b. July 16, 1917; **Educ.:** Allahabad Univ.; Ewing Christian Coll.; J.A.S. High School, Khurja; had a brilliant academic career. Entered the Indian Civil Service, 1941; Served in Orissa till 1944 and in Bihar, from 1944-55; was Education Secy. to Bihar Govt. for six years; founded Valsati Sangh and Festival, 1945; served as member, Higher Rural Education Enquiry Ctee. set up by Govt. of India, 1954; connected with Bihar Academy of Music, Dance, Drama; Served as Chairman, Unesco Seminar on Visual Aids in Fundamental Educ. in 1958. Editor, *Bihar Theatre. Publications:* Plays: *Bhor-ka-Tara, Konark, Omara Sapna, Kunwar Singh-bi-tek, Sharadiya Gagan Samari; Miscellaneous: Homage to Vaisakh. Recreations:* Play-Writing; Theatre. **Clubs:** Delhi Gymkhana Club; Bankipore Club, Patna. **Address:** New Delhi.

MATHUR, Kallash Behari, M.Sc. (Allahabad), Chairman, Railway Board, since July 1959. Chairman, Heavy Electricals Project, Bhopal, b. April 4, 1904; **Educ.:** Allahabad; M.Sc. (Allahabad), 1926. Asst. Transportation Supdt., East Indian Ry., 1928-36; Supdt. (Research Officer), 1936-38; Supdt., Transportation, 1938-39; Supdt., Transportation & Commercial, 1939-42; services placed at the disposal of the War Dept., 1942; granted Emergency Commission in the E.I. Ry., Defence of India Corps (Railways), June 1944; Supdt., Transportation, E.I. Ry., 1944-46; Deputy Divisional Supdt., 1946-47; Dy. Chief Commercial Manager (Rates), 1947; Divisional Supdt., 1947-48; attended the International Railway Congress at Lucerne, June 1947; Chief Operating Supdt., 1948-51; General Manager, 1951-54; Member, Ry. Bd. **Publications:** Technical contributions. **Clubs:** Delhi Gymkhana Club. **Address:** 25, Taghik Road, New Delhi.

MATHURADAS, Pradipkash, J.P., Businessman, b. March 19, 1918; *Educ.*: New High School, Bombay. Has been in business. Partner, Vissanji Sons & Co.; Director: Aaleas Ltd.; Ahmedabad Advance Mills Ltd.; Assam Match Co. Ltd., A.C.C. Ltd.; Bombay Cycle and Motor Ag. Ltd.; Bombay Burma Trading Corp. Ltd.; East India Rubber Corp. Ltd.; Great Eastern Shipping Co. Ltd.; Khatau Mahanji Sps. & Wvg. Mills Ltd.; Lakshmi Cotton Mfg. Co. Ltd.; Vissanji Sons & Co. Ltd.; Wallace Flour Mills Co. Ltd.; Premier Automobiles Ltd.; Minerva Mills Ltd.; Bombay Dyeing & Mfg. Co. Ltd.; Mysore Sps. & Mfg. Co. Ltd.; Tata Chemicals Ltd.; Tata Hydro-Electric & Power Supply Co. Ltd.; W. H. Brady & Co. Ltd.; State Bank of India (Central Board and Local Board, Bombay). *Recreations*: Games. *Clubs*: Rotary Club of Bombay; W.I.A.A.; C.O.I.; National Sports Club of India; Lodge Justice and Peace; Willington Sports Club; Bombay Flying Club; India Assoc. Institute (London); Radio Club; W.I.A.A. Club; India-America Society. *Address*: Residence: Sir Mathuradas Vissanji Road, Andheri; *Office*: 9, Wallace Street, Fort, Bombay.

MATTHEI, Mrs. Achamma John, B.A. (Hon.), Padma Shri (1955), Social Worker; *Pres.* Y.M.C.A. of India; member, Central Social Welfare Board, b. Feb. 21, 1898; *Educ.*: Trivandrum; Calcutta; B.A. (Hons.), 1920. President: Y.W.C.A. of India, 1940, 1947; Indian Conference of Social Work, 1947; Hon. Director, Women Section of the Ministry of Rehabilitation, New Delhi, 1947-50; Hon. Chairman, Office for the Welfare of Displaced Women & Children, Bombay, 1951-54; *Pres.*: Y.W.C.A. of Bombay; Y.W.C.A. of India, 1955-59; is member, Central Advisory Board, Women's Savings Campaign; is Vice-Pres., Indian Council for Child Welfare. *Address*: Matthalpuram, Aranattukara, Trichur.

MATTHEI, Dr. John, B.A., B.L. (Madras), B. Litt. (Oxon), D.Sc. (Lond.), C.I.E., Padma Vibhushan (1959), Vice-Chancellor, Kerala Univ. since Jan. 1, 1958; Ex-Chairman, Board of Directors, State Bank of India; Ex-Vice-Chancellor, Bombay Univ. b. Jan. 10, 1886; *Educ.*: Madras Christian Coll.; London School of Economics; Balliol Coll., Oxford. High Court Vakill, Madras, 1910-14; Officer on Special Duty, Co-operative Dept., Madras, 1918-20; Professor of Economics, Presidency Coll., Madras, 1920-25; Professor of Indian Economics, University of Madras, 1925-28; member, Madras Legislative Council, 1922-25; member, Indian Tariff Board, 1925-31; President, Tariff Board, 1931-34; Director-General of Commercial Intelligence and Statistics, 1935-40; retired and joined Tata Sons Ltd., 1940; appointed Director, 1944; Minister of Railways and Transport Govt. of India, Jan. 1947-Sept. 1948; Minister of Finance, Govt. of India, Sept. 1948-May 1950; resigned from Govt. and was Director, Tata Sons Ltd., 1950-55; Chairman, Taxation Enquiry Commission, April 1953-Nov. 1954; Chairman, Board of Directors, State Bank of India, July 1, 1955-Sept. 30, 1956; Vice-Chancellor, Bombay Univ., March 1955-Feb. 1957. *Publications*: *Village Govt. in British India*; *Agricultural Co-operation in India*; *Excise and Liquor Control*. *Address*: Aranattukara, Trichur; Trivandrum.

MAYNE, Walter Wilson, B.Sc. (Wales), M.I. Biol., General Manager, Kanan Devan Hills Produce Co. Ltd., since 1955. b. Feb. 16, 1906; *Educ.*: Fort Talbot County School; Univ. Coll. of South Wales & Monmouthshire. Coffee Scientific Officer, United Planters Assoc. of Southern India, 1929-46; Ag. Secy. U.P.A.S.I., 1945-46; Scientific Officer, Kanan Devan Hills Produce Co. Ltd., 1947-55; on special duty on enquiry into Cardamom Industry, Sept. to Nov. 1940. *Publications*: Report on Cardamom Cultivation in Southern India; numerous technical articles on coffee cultivation. *Recreations*: Field Botanist Studies, Reading. *Clubs*: Madras, Bangalore, High Range, Coonoor. *Address*: Ledbrooke House, Munmar P.O., Kerala.

MEHROTRA, Dwijendra Lal, B.A. (Hons.) (Econ.) (Calcutta), B.A. (Tripos in Econ.) (Cantab.), M.A. (Econ.) (Calcutta), I.C.S., Secretary, Ministry of Commerce and Industry (Deptt. of Company Law Administration), since 1955. b. Jan. 25, 1905; *Educ.*: Hindu School, Calcutta; Presidency Coll., Calcutta; Jesus Coll., Cambridge. Entered Indian Civil Service, Dec. 1929. *Publications*: Author and co-author of several economic and financial reports; A report on the inter-relation between Provincial and local finance in Bengal (1940); Report on some aspects of the finances of the Calcutta Improvement Trust (1940); Reports of: the Bengal Jute Enquiry Cttee. (1940); the Bengal Paddy and Rice Enquiry Cttee. (1940); the Bengal War Risk Insurance Cttee. (1942); Reports on: the Marketing and Transport of Jute (1941-42); the Problems of Dock Labour in Calcutta (1942); Reports of: the Fiscal Commission, 1949-50; the Import Control Enquiry Committee (1950); the Company Law Committee (1952), etc. *Recreations*: Tennis, gardening, writing. *Clubs*: Calcutta Club; Delhi Gymkhana Club. *Address*: 1, Sonshri Begh Road, New Delhi 2.

MEDHOS, Stanley Fincham, General Manager, William Jacks & Co. Ltd., Bombay. b. Feb. 6, 1916; *Educ.*: St. Wilfred's School, Seaford, Sussex and Cranleigh School, Surrey. Wm. Jacks & Co. Ltd. Madras, Calcutta, Karachi; Indian Army 1940-46; Major, Indian Cavalry; mentioned in Despatches (Burma). *Recreations*: Golf, Sailing, Swimming, Squash. *Clubs*: East India & Sports Club, Ltd., London; Sind Club, Karachi; Karachi Yacht Club; Royal Bombay Yacht Club, Presidency Golf Club. *Address*: Bombay Club, Marine Drive, Bombay 1.

MEDHI, Bismu Ram, B.Sc. (Hons.), M.Sc., B.L., Governor of Madras, since Jan. 24, 1958; Advocate, b. April 1890 in the



village of Hajj (Kamrup—Assam); *Educ.*: Presidency College, Calcutta. Enrolled as Pleader, Gauhati Bar, 1914 and Advocate, Calcutta High Court, 1931; joined the Non-Co-operation Movement and was imprisoned for more than a year after Lahore Congress; elected President of Assam after Lahore Congress, P. C. C. unanimously and since then continuously elected President till 1939; member, A-I C C.; imprisoned in 1930 and 1940 in connection with C. D. and Satyagraha Movements for about two years and again detained in jail for over 2 years in connection with 1942 movement; popularly known as the 'Iron Man' of Assam; Minister of Finance, Revenue and Legislation, Assam, Feb. 1948-Aug. 1950; Chief Minister, Assam, Aug. 1950-Jan. 1958. *Address*: Raj Bhavan, Madras; Uzan Bazar, Gauhati, Assam.

MEHRA, Bal Krishan, M.Sc. (Lahore), M.S. (Pharm.) (U.S.A.), Technical Representative for Pfizer in India, since 1951 and Managing Director, Ravison Pharmaceuticals Private Ltd., since 1954; Director, Duxem Private Ltd. *Educ.*: M.Sc. with 1st Class in Chemical Technology from the Govt. Coll., Lahore and recipient of "Roll of Honour"; M.S. (Pharm.) from Philadelphia Coll. of Pharmacy & Science, U.S.A. Worked as Chemist-in-charge, Lesco Chemical & Pharmaceutical Works Ltd., and Lecturer in Pharmaceuticals, K. B. Medical Coll., Lahore and Medical Coll., Amritsar; worked under Dr. Arthur Osol and awarded Fellowship by the American Foundation for Pharmaceutical Education, New York; with Chas. Pfizer & Co. Inc. New York, at their Brooklyn Factory on the standardisation and manufacture of antibiotics; member, P.S.C. and I.P.A. *Address*: Alpans, 60, Peddar Road, Bombay 26.



MEHRA, Sita Ram, C.I.E. (Roorkee), M.I.E. (India), M.I.C.E. (England), F.W.I., Director, Central Road Research Institute, New Delhi, since 1955. b. Aug. 21, 1905; *Educ.*: Lahore, Thomason Coll. of Engineering, Roorkee and Imperial Coll., London. Appointed in Punjab P.W.D., 1927; advanced studies and research in London, and study tour in U.K. and Europe, 1936-38. A pioneer in the field of soil stabilisation for roads in India; set up a laboratory for soil research at Lahore, 1944, and one at Karnal, 1947; Principal, Punjab Engineering Coll., 1951-55; reorganised engineering education in the State; represented India at the second International Conference on Soil Mechanics and Foundation Engineering in Netherlands, 1948; went round U.K., The Continent and U.S.A. to discuss research with experts in the field, 1960; deputed by Government of India to Bandung in connection with the bombing problems, 1956; Pres., Indian National Society on soil mechanics and foundation engineering in India; has done considerable research in the field of soil stabilisation as applied to roads and building construction. *Publications*: Many research papers on roads and buildings. *Recreations*: Golf; Tennis. *Clubs*: Golf Club, New Delhi. *Address*: Director, Central Road Research Institute, P.O. ORRI, New Delhi-20.

MEHROTRA, Mr. Justice Gopalji, B.A., LL.B., Judge, Assam High Court, since Nov. 1957. b. Feb. 7, 1905; *Educ.*: School education in Jaunpur; graduated from Benares Hindu Univ.; graduated in Law from Allahabad Univ., 1928. Joined the Allahabad High Court Bar, 1930; Standing Counsel, U.P. Govt., 1948-54; Judge, Allahabad High Court, May 1954-57. *Recreations*: Music. *Address*: Strand Road, Gauhati.

MEHROTRA, Lalji, B.A., LL.B., Indian Ambassador to Burma, b. Nov. 16, 1901; *Educ.*: Universities of Allahabad and Bombay. Secy., Civil Disobedience Enquiry Cttee. of the Congress, 1922; Acting Gen. Secy., Congress, 1932-33; Mayor of Karachi, 1940-41; Pres.: Indian Merchants' Assoc., Karachi, 1939-42; Federation of Indian Chambers of Commerce and Industries, 1948-49; Indian Chambers of Commerce in Great Britain, London, 1951-54; Director: Bachhraj Factories Ltd.; Bachhraj T. Corp. Ltd.; Mukand Iron and Steel Works Ltd., etc. *Address*: 22A, Worli Seaface, Bombay 18; Embassy of India, Rangoon.

MENTA, Asoka, B.A., M.P., Social worker; Treasurer, Praja Socialist Party, b. 24th October 1911; *Educ.*: Wilson College, Bombay; School of Economics, Bombay University. In political life from 1930; imprisoned five times; founder-member of former Socialist Party; edited its official organ, 1935-39; member of its National Executive for 20 years; elected to Lok Sabha in by-election from Musaffarpur Constituency, Bihar, Dec. 12, 1957. *Publications*: *The Communist Triangle in India*, *Who owns India*, *Political Mind of India*, *Democratic Socialism*, *Politics and planned Economy*, *Socialism and Peasantry*, *Indian Shipping*. *Address*: 5, Dadyseti Road, Bombay; Lok Sabha, New Delhi.

MENTA, Balvantray Gopalji, B.A. (Bombay), M.P., Ex-Chairman, Estimates Cttee.; ex-General Secy., Indian National Congress; Leader, Team on Community Projects & N.E.S. Blocks; Vice-Pres., Servants of the People Society; Ex-Deputy Chief Minister, Govt. of United State of Saurashtra, Rajkot, b. Feb. 19, 1899. Entered public life, Oct. 1920; took active part in States People's Movement for civil liberties and responsible Govt., women's education, Harijan uplift work; Pres., Bhavnagar Prajamandal; Gohadwad Harijan Samiti; Vice-Pres., All-India States People's Conference; Sevansamiti; member, Working Cttee., A-I.C.C.; participated in Salt Satyagraha (1930), Movement of 1932-33-34.

Rajkot Satyagrah (1938), Individual Satyagraha (1940-41) and Quit India Movement (1942-48); spent about 7 years in jail; Started Mahila Vidyalaya and Harijan Schools in Bhavnagar State and handed them over to the State after some years; started Thakkar Bapa Harijan Ashram, 1927. Address: 5, Curzon Lane, New Delhi.

MENTA, Chandravadan Chimanlal, Gujarati Poet and Play-Wright: Hon. Professor and Head of Dramatics, M.S. Univ., Baroda. b. April 6, 1901 in Surat; Educ.: Early education in Surat; Elphinstone Coll., Bombay; graduated in Arts, 1924; learned sociology under Thoothi, Bombay Univ. Joined Bardoli Satyagrah movement as volunteer, 1928; worked under Mahatma Gandhi; translated his articles with his Secretary Mahadev Desai and edited his paper *Nayana*; worked as Secretary to Vithalbal Patel; an active political worker; courted jail during freedom movement; Delegate to All-India Drama Seminar and Literary Samaroh, Delhi, organised by Sangeet Natak Akademi and A.I.R., 1956; travelled extensively in India, Europe and the U.K.; has also visited Burma; has appeared before T.V. and featured in B.B.C. programmes, London; joined A.I.R., Bombay, 1938; retired as Asst. Station Director, 1954; has broadcast in Gujarati, Hindi, Marathi and English; after 1955 has worked as a visiting professor in the Baroda Univ.; one of the organisers of the Saurashtra Akademi of Dance and Drama. Publications: More than fifty plays including an autobiography in 4 volumes; a collection of poems and a novel. Plays: *Aggadi*; *Kanya Viday*; *Sati*; *Santa Kulkadi*; *Ardhana*, etc.; Poems: *Illa Kavya*; *Ratan*; *Chandarana*; Novel: *Khama Bapu*. Address: C/o Music College, Sursagar, Baroda.

MENTA, Sir Chaudhali Vibhucandas, Kt., K.C.S.I. (1928), M.A., LL.B. b. Jan. 12, 1881; Educ.: St. Xavier's Coll., Bombay. Captain, Hindu XI. Elected to the Bombay Municipal Corporation in 1907; Chairman, Standing Ctee., 1912; President of the Corporation, 1916; elected to the Bombay Legislative Council by the Corporation in 1916; elected to the City Improvement Trust, 1918; Chairman, Indian Merchants' Chamber, 1918 and 1931; elected to the Bombay Port Trust, 1920; ex-Chancellor, Indian Women's Univ.; ex-Provincial Scout Commr.; Minister, Bombay Govt., 1921-23; member, Executive Council of Govt. of Bombay, 1923-28; Chairman, Western India Match Co. Ltd.; Director, Tata Power Co. Ltd., The Tata Iron & Steel Co., Ltd., The Associated Cement Companies, Ltd., etc.; President, Indian Territorial Force, 1940. Address: 42, Ridge Road, Malabar Hill, Bombay.

MENTA, Gaganvihar L., M.A. (Bom.), Padma Vibhushan (1959), Chairman: Industrial Credit and Investment Corp. of India Ltd., Bombay; Hindustan Shipyard Private Ltd.; National Shipping Board. b. April 15, 1900; Educ.: Bombay; London School of Economics. Honorary Degree, LL.D. Rollins Coll. (1953). Asst. Editor, *Bombay Chronicle*, 1923-25; Manager, *Schindia Steam Navigation Co., Ltd.*, Calcutta, 1928-47; visited U.S.A. as Deputy Leader of the Indian Delegation to the International Business Conference at Rye, New York, 1944; held various advisory or administrative positions such as Pres., Indian Chamber of Commerce and Federation of Indian Chambers of Commerce and Industry; Member: Indian Delegation to the International Conference on Trade and Employment, Geneva; member, Governing Body of the Council of Scientific and Industrial Research, 1947-52; Pres., Indian Tariff Board, Bombay, Dec. 1947-April 1950; member, Planning Commission, New Delhi, May 1950-52; Chairman, Nuffield Foundation Indian Advisory Committee, 1950-52; Chairman, Tariff Commission, Jan. 1952-Sept.

1952; Indian Ambassador to the U.S.A. and Mexico, Sept., 1952-May 1958. Indian Minister to Cuba, 1956-58. Publications: Frequently contributes to daily and weekly journals in India; *Conscience of a Nation* (1932); *From Wrong Angles* (1935); *Perversties* (1942). Address: C/o The Industrial Credit and Investment Corporation, Union Bank Building, Apollo Street, Bombay 1.

MENTA, Gaman Mandlal, Proprietor, Sun Process Works, Bombay. b. May 22, 1906, at Surat; Educ.: Sarvajank High School, Surat. Joined the Sun Process Works, Ltd., 1930; became its Managing Director, 1941; and Proprietor in 1956; Rotarian since 1949; Freemason since 1940; Past Master and Trustee, Lodge Reginald Spence No. 5514 E.C., R.W.M., Lodge Islam No. 587 S.C., P.Z. Chapter Crescent No. 346 S.C., P.S.R. Conclave Darius No. 58; Member, Indian Merchants' Chamber; travelled extensively; toured round the world by air, 1955. Clubs: Bombay Presidency Radio Club; Royal Western India Turf Club; Maharashtra Club, Poona. Hobbies: Swimming, Photography and Contract Bridge. Address: Office: No. 8, Swadashi Mills Compound, Tata Road, Off New Queen's Road, Bombay 4; Residence: G. Banallal Building, Opera House Tram Terminus, Bombay 4.

MENTA, Mrs. Hansa Manubhai, B.A. (Philosophy, Hons.), Padma Bhushan (1959), Ex-Vice-Chancellor, Baroda University. b. July 3, 1897; Educ.: Baroda. Pres., B.P.C.C., 1930; Provincial Hindustan Scouts Assoc., South Bombay; Fellow of the Senate of Univ. of Bombay, 1931-46; member: Senate and Syndicate of the Indian Women's Univ.; Leg. Council, 1937 and again in 1940; Parliamentary Secy., Education and Health, 1937-39; Vice-Pres., A.I.W.U., 1930 and off and on and in 1945-46; President of and Govt. of India representative on the nuclear Sub-Commission, on the status of Women, 1946 of the U.N.O.; Chairman, Art Education Ctee., Bombay, 1946; Government of India representative on the Human Rights Commission of the U.N.O., 1947-52; member, Constituent Assembly, 1947-50, delegation of the Commonwealth Parliamentary Conference, 1948; All India Council of Secondary Education, since 1955; delegation to the UNESCO Conference, Delhi 1958; Executive Council of Banaras Hindu University, 1958; President, Indian Conference of Social Work, 1954-57; represented the Indian Conference of Social work as a leader of its Indian Delegation at the 8th International Conference of Social Work at Munich, 1956; led delegation to the World Family Congress at Paris, 1958; Member, Executive Board, UNESCO, since 1958; Vice-Chairman, All India Council of Secondary Education. Publications: In Gujarati. *Baharatvali*, *Koshavartavali*, *Rukmini*, *Bavulana Parakrama*, *Gohbarni Musafiri*, *Arus nu addhat Swapna*, *Tren Natak*, *Himalaya Swarup na bijan natak*, *Hamlet* (translated from Shakespeare), *Venice no vepari* (Merchant of Venice), *Bai Kani*, *Ayodhya Kani*, *Aranya Kani* and *Atkin-dhaband*, 1956, *Sunder Kani*, 1957; Sanshodhik translation from Valmiki Ramayana. In English, *Adventures of King Vikram*, *Women under the Hindu Law of Marriage and Succession*, *Treat on Post-War Educational Reconstruction and Civil Liberties*. Address: C/o The Bank of Baroda Ltd., Fort, Bombay.

MENTA, Dr. Jivraj Nanayan, L.M. & S. (Bom.), M.D. (Lond.) (University Medal), M.B.O.P. (Lond.), F.O.P.S. (Bom.), Minister for Finance, Govt. of Bombay, since 1952. b. August 29, 1897; Educ.: Amrell, Bombay State, Grant Medical Coll., Bombay

and London Hospital. Formerly, Ag. Asst. Director, Hale Clinical Laboratory, London Hospital, London and Chief Medical Officer, Baroda State; Pres., Indian Medical Association, 1930, 1943 and 1945; member: Medical Council of India, 1938-49, and since 1947; Board of Scientific and Industrial Research, India, since 1948; ex-Secy., Health Ministry, Govt. of India; Chief Adviser to Govt. of India and Govt. of Bombay on Baroda Affairs, June-August 1949 and Adviser, Ministry of Health, India, 1949. Arrested and imprisoned in 1932-33 and detained in 1942-44 under the Defence of India Act. Dir.-Gen. of Health Services, Govt. of India, 1947-48. Prime Minister, Baroda State, June 1948-49, member, Syndicate, Univ. of Baroda since 1949; P.W.D. Minister, Bombay, 1949-52; Minister for Finance, Prohibition and Industries, Bombay, May 1952-Oct. 1956. Publications: "Studies regarding presence of glycogen in Suprarenal Bodies"; "The Height, Weight & Chest Measurements enquiry relating to some School Children in Bombay". Address: C/o Bank of Baroda Ltd., Bombay.

MENTA, Dr. Jyotindra Markand, M.A. (Oxon.) Ph.D. (Lond.), Bar-at-Law, Vice-Chancellor, Maharaja Sayajirao Univ. of Baroda, since April 30, 1958. b. Sept. 13, 1894; Educ.: Elphinstone Coll., Bombay; Jesus Coll., Oxford; London School of Economics. Fellow of the Elphinstone Coll., 1914-15; Professor of History, Elphinstone Coll., 1920-22; Senior Professor of History and Economics, Baroda Coll., 1922; Principal, Baroda Coll., 1931, 1934 and 1938; Commissioner of Education, Baroda State, 1939-49; Joint Director of Public Instruction, Bombay, 1949-50; Chairman, Public Service Commission, Saurashtra, 1950-54. Publications: *Rural Economy of Gujarat*; *Socio-Economic Survey of Baroda Villages*. Address: Vice-Chancellor, Baroda University, Baroda 2.

MENTA, Mohanlal Talsidas Sopan, Editor, *Janmabhoomi* and *Pravart*, since Jan. 1, 1949 and *Jeevanmadhuri*, since its inception, Jan. 1957. b. Jan. 14, 1910; Educ.: Karachi. Took active part in National Struggle from 1930-47; joined as Editor, *Weekly Pravart*, Dec. 1940; also became Editor, *Nootan Gujarat*, daily and *Akhand Anand*, monthly; Pres., Gujarati Patrakar Sangh; Vice-Pres., Gujarati Natya Mandal; member: State Prohibition Board, Bombay; Entertainment Tax Exemption Ctee., Bombay; Gujarati Sahitya Parishad Lekhak Milan. Publications: 40 publications in Gujarati: Short Story, Novel, Biography, Sociology and Politics; some of his books have been translated into English, Hindi, Sindhi, Tamil and Malayalam; conducts a publishing house and a printing press. Recreation: Photography. Address: Gulabhar, Barrack Road, Dhobi Talao, Bombay 1.

MENTA, Vaidnath Lalubhai, B.A. Padma Bhushan (1954), Chairman, Khadi and Village Industries Commission. b. Oct. 23, 1891; Educ.: New High School, and Elphinstone College, Bombay. Winner of Ellis Scholarship, B.A. Examination, Manager, Bombay Central (Provincial) Co-operative Bank Ltd., 1912-15 and Managing Director, 1922-46; Vice-Pres., Social Service League, Bombay; Chairman, Bombay State Co-operative Union, 1943-46; member, Bombay Provincial Banking Inquiry Committee, 1929; member, Textile Labour Inquiry Committee, Bombay, 1937-40; member, Bombay Provincial Board, Harijan Sevak Sangh; Minister, Finance, Co-operation and Village Industries, Govt. of Bombay, 1946-52; Member, Finance Commn., 1952; Member, Taxation Enquiry Commission, Govt. of India, 1953-54. Publications: *The Co-operative Movement in India*, 1915; *Studies in Co-operative Finance*, 1927; *Planning for Co-operative Movement*, 1941. Address: Lalubhai Park Road, Andhari, Bombay 41.

MEHTAPPA, S. V., Business man, Studio Owner and Film Producer; Sole Proprietor, A.V.M. Studios, Madras; b. July 23, 1907; *Educ.*: Karaikkudi, Madras State. Built up a firm for making gramophone records under the name and style of Saraswati Stores at Madras, 1933; soon after took to film production; subsequently built up his own Studio; travelled widely in India including Kashmir, and abroad in Japan, Malaya, Singapore and Ceylon for business and study;



active Exec. Offce. member in allied films and studio associations. *Recreations*: Study of film industry—Indian and foreign; Travel. *Clubs*: Cosmopolitan Club, Madras. *Address*: Office: A. V. M. Studios, Madras 26; *Residence*: No. 27, Balajinagar, Royapettah, Madras.

MELCHERS, His Excellency Dr. Wilhelm, Doctor of Law (1924), Ambassador Extraordinary and Plenipotentiary of the Federal Republic of Germany in India and Nepal. b. Jan. 20, 1900, at Bremen (Germany). Secretary, German Legation, Addis Ababa, 1927-31; Secy., German Embassy, Tokyo, 1934-35; Secy., German Legation, Teheran, 1936-37; Consul at Haifa, 1938-39; Minister in Baghdad and Amman, 1953; Ambassador in Baghdad, 1956. *Address*: 1, Tees January Marg, New Delhi.

MENON, C. Keshava, B.A., B.L., Minister for Finance, Kerala State, since April 1957 and also Home Minister, since May 14, 1959. b. 1913; *Educ.*: C.M.S. High School and St. Thomas' Coll., Trichur; Law Coll., Trivandrum. Practised at the Trichur bar for about 8 years; took to political activities subsequently and was Pres., Dist. Congress Offce.; convicted for one year for anti-war speech, 1940; joined Communist Party, 1941; detained for one year, 1942; was member, Central Offce.; Secy., Kerala Offce. of C.P.I. *Publications*: *Soviet Nadu*; *Lokacharita-samgraham* (translation of Wells' *Short History of the World*). *Address*: Trivandrum.

MENON, Chathanatha Raman Bhaskara, B.A., Director General of Commercial Intelligence and Statistics, Calcutta, since 1952. b. July 10, 1904; *Educ.*: Maharaja's Coll. of Science, Trivandrum. Asstt., Govt. of India, Industries and Labour and afterwards Commerce Deptts., 1927-40; Asstt. Shipping Master, Calcutta, 1940-42; Secy., Rubber Production Board, Kottayam, 1942-45; Asstt. Secy., Commerce Deptt., 1945-49; Tea Controller in Coonoor, 1947-1948; Deputy Director General of Shipping, Bombay, 1949-50; Under-Deputy Secy., Ministry of Commerce, 1950-52; *Address*: 87-B, Park Street, Calcutta.

MENON, Dr. K. B., M.A., Ph.D. (U.S.A.), Member, Lok Sabha, Praja Socialist Leader. b. June 18, 1897; *Educ.*: Christian Coll., Madras; Sydenham Coll., Bombay; the Universities of Colorado and California. After graduating from the Madras Univ. joined the Nizam's Educational Service; was sent for higher studies in the U.S.A.; took the Master of Arts and Economics and the Doctorate of Philosophy in Sociology, 1936; took charge of the Indian Civil Liberties Union as General Secy., 1937; appointed one of the Secretaries of the Indian States Peoples Conference, 1940; took active part in the 1942 struggle and was sentenced to 10 years R.I.; joined the Praja Socialist Party when it was organised as an Independent Political Party; elected M.L.A., Madras from Trithala Constituency in the 1st General Elections; elected member, Lok Sabha from Badagara Parliamentary Constituency in the 1957 General Elections; President, The Trithala High School, Trithala. *Address*: Cheruthuruthy, Trichur Dt., Kerala State.

MENON, K. P. Kesava, B.A., Bar-at-Law, Editor, MATHURBHUMI, Kozhikode, since Oct. 1952. b. Sept. 1, 1896, in Kerala. *Educ.*: Madras; called to the Bar 1915. Set up practice in Calicut; joined the Indian National Congress; Secy.: Malabar Dist. Congress; Home Rule League started by Mrs. Annie Besant; went to Madras for practice, 1919; started the Neo-Fabian Society to study political problems; gave up practice to join the 1921 Non-Co-operation Movement; Secy., Kerala Prov. Congress Offce.; founded the MATHURBHUMI, Malayalam Daily, 1923; led the famous Vaikam Satyagraha movement in Travancore to establish the right of the untouchables to walk along public roads, 1924; arrested and imprisoned; released 1924; set up practice in Singapore, 1927; took active part in the Indian associations and labour organisations; imprisoned by the Japanese, 1944; released after the liberation; took up the editorship of MATHURBHUMI, 1948; Chairman, Local Library Authority, Malabar, 1948; Pres., Alkya Kerala Offce., 1949; was member, Standing Offce. of the All-India Newspaper Editors' Conference; High Comm. for India in Ceylon, 1951-52; presided over the Silver Jubilee of the Kerala Sahitya Parishad, Sept. 1956; Working Pres., Kerala Sahitya Akademi, 1956. *Publications*: Various books in Malayalam. *Address*: Kozhikode.

MENON, M. K. P. S., M.A. (Oxon.), O.L.B., Padma Bhushan—(1958), I.C.S., Indian Ambassador to Russia, since October 1952; Concurrently Ambassador to Poland; Minister in Hungary. b. Oct. 18, 1898; *Educ.*: Christian College, Madras; Christ Church, Oxford. I.C.S., 1921; Addl. Deputy Secretary to the Government of India, Foreign and Political Dept.; Under-Secretary to the Hon. the Resident at Hyderabad; also on the Frontier for 3 years; Agent to the Government of India in Ceylon, 1929-33; deputed by Government of India on Special Mission to Zanzibar, Kenya & Uganda, to enquire into the position of Indians there, 1934; Dewan of Bharatpur State for about 3 years; attended the San Francisco Conference in 1945; attended the General Assembly of the United Nations in New York in 1946; Agent-General of the Govt. of India in China from 1943 to Jan. 1947; Ambassador for India in China, March 1947; Chairman, United Nations Commission on Korea, 1948. *Secy.*: Govt. of India, 1948 May—1952 Sept. *Publications*: *Delhi-Chungking*. *Address*: C/o External Affairs Ministry, New Delhi.

MENON, Komanath Rama Krishna, M.A., B.L., C.I.M. (1946), M.B.E. (1938), Chairman, Industrial Finance Corporation of India, since Aug. 1956. b. June 21, 1901; *Educ.*: St. Joseph's College, Tiruchirappalli and Law College, Madras; Competitive Exam, Indian Audit and Accounts Service, Dec. 1923. Appointed in the Milly. Acctt. Dept., May 1924; Dy. Milly. Acctt.-Genl., 1936; selected to the Finance & Commerce Pool, 1939; Commissioner of Income Tax, Bombay, 1939-41; Madras, 1941-42; Director of Statistics, Supply Deptt., 1942; Director of Inspection, Income Tax, 1943-47; Member, Central Board of Revenue, 1947-48; Secy., Finance Ministry, Govt. of India, Sept. 1948—Nov. 1954; Member, Indian Taxation Enquiry Commission, 1952-54; Chairman, Ceylon Taxation Commission, 1954-55. *Address*: Pampady P.O., Tiruvilwamala, Kerala State.

MENON, M. Gopala, B.A. (Madras), Consul-General for India in New York. b. 1902; *Educ.*: Madras Univ. and Jamia Millia (Aligarh). Under-Secy. i/o, U.N. Branch, Ministry of External Affairs and Commonwealth Relations, 1946; Alternate Indian Representative to the Special Session of the General Assembly on Palestine, 1948; Alternate Representative to the Security Council on the Indonesian Dispute, 1949; Adviser Secy., Indian Delegation to the Economic and Social Council, 1949; Ag. Head, Permanent Indian

Delegation, Sept. 1948-June 1949; Adviser Secy., 4th Session of the U.N. General Assembly, 1949; Alternate Indian Representative to the Security Council, 1949-50; Alternate Representative on the Atomic Energy Comm. and the Comm. on Conventional Armaments, 1949-50; Secy., General, Indian Delegation to the 5th Session of the General Assembly; Indian Representative in Malaya, 1951-52; Indian Commissioner in British East Africa, 1954-56; Chairman, International Commission on Commodity Trade; Chairman, Ad Hoc Committee on SUNFED. *Address*: C/o External Affairs Ministry, New Delhi.

MENON, M. E. Parakath Keshava, B.A. (Hons.) (Madras), I.C.S., Indian Ambassador to Argentina. b. Jan. 2, 1905; *Educ.*: Presidency Coll., Madras; New Coll., Oxford. Joined I.C.S., 1929; Under-Secy. to Govt. of Madras, P.W.D. (1934-37); Under-Secy. to Govt. of India, Home Dept. (1938-41); Collector of Guntur (1941-48); Deputy Secy. and Secy., India Supply Mission, Washington, U.S.A. (1943-47); Joint Secy. to the Govt. of India, External Affairs, 1947-49; was nominated member of Indian Legislative Assembly (1938-39); attached to several international conferences (United Nations, 1944, 1946, U.N.R.E.A., 1946); Envoy Extraordinary and Minister Plenipotentiary of India in Portugal, 1949-51. Ambassador of India to Belgium and Minister of India to Luxembourg, 1951-54; Ambassador to Thailand, Oct. 1954-Aug. 1956. High Commissioner in Australia, 1956-59. *Recreations*: Swimming, Tennis. *Clubs*: Several. *Address*: Buenos Aires.

MENON, V. K. Krishna, B.A. (Madras), B.Sc. (Econ.), London, M.A. (Econ.), London, Bar-at-Law, Middle Temple, King's Inns, Dublin (Honoris Causa), LL.D., Glasgow (Honoris Causa), Padma Vibhushan (1954), Minister for Defence, Government of India, since Apr. 1957. b. 3rd May 1897; *Educ.*: Tellicherry and Kozhikode (Kerala), Madras and London, National Univ., Adyar. Lecturer, 1919-22; Boy Scout Commissioner, Madras and Cochin, 1918-24; Secretary, India League, 1929-47; Councillor, St. Pancras, London, 1934-47; Chairman, Arts Council, St. Pancras; Labour Parliamentary Candidate, Dundee, Scotland, 1939-43; Special Representative of the Government of India, 1946-47; Alternate delegate at the U.N.O. General Assembly meeting at Lake Success, 1946-47; represented India at various international congresses on behalf of India National Congress for Jawaharlal Nehru from 1936; visited various European capitals as Pandit Nehru's Personal Representative and made preliminary arrangements for establishing diplomatic relations; High Commissioner for India in London, 1947-52; India's Ambassador to Ireland, 1949-52; Chairman of the Indian Delegation to the Gen. Assembly of the U.N., 1952-53, '54, '55, '56, '57 and '58; Minister without Portfolio, Government of India, 1956-57. *Publications*: First Editor, Pelican Books; Editor, 20th Century Library (Bodley Head); Pamphlets and Articles such as *India, Britain and Freedom*; *Why must India Fight*; *Britain's Prisoner*; *Nehru*; *Unity with India against Fascism*; *Independence*; in collaboration with late Ellen Wilkinson, *The Condition of India*. *Address*: New Delhi.

MENON, V. K. N., B.A. (Hons.) (Madras), M.A. (Oxon.), Director, Indian Institute of Public Administration, New Delhi. b. March 1, 1897; *Educ.*: Maharaja's Coll., Ernakulam; Presidency Coll., Madras; St. John's Coll., Oxford; The London School of Economics; The Univ. of Paris. Reader (earlier Lecturer) in Political Science, Lucknow Univ. till 1948; Director of the Bureau of Research in Public Administration, Public Service



MISRA, Harendra Prasad, B.A., B.L., Deputy Minister for Transport, Govt. of India, since Sept. 10, 1954. & Oct. 30, 1950; *Educ.*: E. H. M. School, Buxar; G. B. D. Coll., Munshampur; Patna Coll. and Patna Law Coll., Patna. *Laterals*: T.N.J. Coll., Bhagalpur; Gen. Secy., 'Culture and Research' Section, Bihar P.O.C.; manufactured improvement in connection with 'Quit India Movement', 1948-49; member, Econ. Offce., Indian Parliamentary Group, 1951-54; Secy., Foreign Affairs Study Group of the Indian Council of World Affairs, 1951; member, Provisional Parliament, 1950-52; Parliamentary Secy. to the Prime Minister, 1951-52; was Secy., Election Sub-Offce. of the A.I.C.O.; member, Lok Sabha, since 1952; represented India at the 10th Session of the E.O.A.F.N., 1954, and the 17th Session of the Economic and Social Council of the U.N. in New York, 1954; in charge of the Five-Year Plan Section of the A.I.C.O.; member, A.I.C.O., 1955; edited a Youth Magazine 'The Liberator', and 'The Bihar Vahav.' *Recreations*: Poetry, Music and Chess. *Address*: 25, Ashoka Road, New Delhi.

MISRA, Mr. Lakshminapati, Kt. (1944), B.Sc., General Manager, Hindustan Motors Ltd., Calcutta, since 1948; Commandant, Special Constabulary, Calcutta since 1950; Member, Road and Inland Water Transport Offce., Govt. of India, since Oct. 1955. & 4th July, 1955; *Educ.*: Agra Coll. and Thomason College of Engineering, Boorkee. Joined the State Rly. service, October 1911; Executive Engineer, 1918; services lent to Baroda State as Engineer-in-Chief, Baroda State Rlys, 1924-27; after a study tour of Europe joined East Indian Rly., 1928; Spl. duty, Rly. Board, 1929, Controller of Stores, N.W. Rly., 1930; Dy. General Manager, E.I. Rly., 1932-35; Divl. Supdt. Howrah Div., 1935-36; member, Federal Public Services Commission, 1938-39; Gen. Manager, Eastern Bengal & Bengal and Assam Rly., Sept. 1939-45; Member (Engineering), Rly. Board, 1943-44; Chief Commr. of Rlys., May-Oct. 1945; Commissioner for the Port of Calcutta, 1945-48; Pres., Institution of Engineers (India), 1942-53; Chairman, Machine Tool Panel, Govt. of India, 1948-49; Road Transport Development Committee, U.P., 1948-49; Workshops Co-ordination and Development Committee, U.P., 1950-51; member, Automobile Expert Committee, India, 1950-51. *Address*: C/o Birla Brothers Ltd., 8, India Exchange Place, Calcutta 1.

MISRA, Pandit Raghunath, General Secy., Ganatantra Parishad, Orissa & June 29, 1916; *Educ.*: Ravenshaw Coll., Cuttack, expert in Sanskrit Literature, Vedic Lore and Vedantic Culture. Worked as Sanskrit and English Teacher (1942-45); led student movements during his student career, a prominent Social Reformer, launched Satyagraha against animal sacrifices in temples, 1950. *Publications*: Books on Oriya grammar and literature and also Oriya and Sanskrit text books for primary to secondary standard. *Recreations*: Reading philosophical books, yogic culture and travel. *Address*: P.O. Banpur, Dist. Puri (Orissa), Kesharpur, Cuttack-1.

MISRA, Ram Anugrah Prasad, Managing Director, Indian Furnace Co. Pvt. Ltd., Bombay. & Jan. 19, 1914 at Dehra Dun, U.P.; *Educ.*: The Theosophical National School at Benares, 1928-29; Ewing Christian Coll., Allahabad, 1930-33; had great keenness and enthusiasm for Science and Engineering and learnt flying as the Delhi Flying Club at the age of 17; after passing his intermediate examination, proceeded to England to study Aeronautical Engineering, 1935. Served as an engineering apprentice with the De Havilland Aircraft Co. Ltd., 1935-36; after-

wards joined the company's laboratories as an Assistant; rose to the position of Production Metallurgist and was placed in technical control of all works processes including heat-treatment; left the De Havilland Aircraft Co. to join Wild-Barfield Electric Furnaces Ltd., of Watford, England, one of the leading manufacturers of industrial and other electric furnaces, 1946; was selected by the Directors of Wild-Barfield to take charge of their Indian Co., i.e. Indian Wild-Barfield Co. Pvt. Ltd. at Bombay, which was formed in Sept. 1947; has designed the layouts of the heat-treatment shops of Hindustan Motors Ltd., Calcutta, and the Tata Locomotive Engineering Co. Ltd., Jamshedpur, his company having also supplied heat-treatment furnaces to the Premier Automobiles Ltd., Kuria, Indian Telephone Industries Ltd., Bangalore, Chittaranjan Locomotive Works, Tatanagar (Gwalior) Ltd. and many other factories in India; is an Associate Fellow of the Royal Aeronautical Society of England; member, Institution of Production Engineers, London, being a Lord Austin Prize winner 1936 which was awarded to him for obtaining first place in the Graduation examination of the Institution of Production Engineers; is also an Associate of the Institute of Metallurgists in England; Ex-Pres., Bombay Metallurgical Society and the Bombay section of the Institute of Production Engineers; is a staunch believer in international co-operation and in the need for an understanding outlook in all problems. *Hobbies*: Photography both still and cine; Cricket; Tennis, Flying Clubs. United Services Club, Bombay Flying Club. *Address*: Indian Furnace Co. Pvt. Ltd., Lotus Cinema Bldg., 12-A, Dr. Bhasani Road, Worli, Bombay 18.

MISRA, Padma Shree Shambhu Maharaj, Dancer; Rashtrapati Golden Award through Sangeet Natak Akademi, March 27, 1955. Senior Professor of Dancing, Teacher of Dancing to Govt. scholarship holders in Bhartiya Kala Kendra, Delhi & Nov 15, 1907. *Educ.*: Learned music under Ustad Rahim Uddin Khan in Faisalabad, 1920-21, had training in dancing under his brother and guru Jagannath Prasad alias Achan Maharaj, Rampur State, 1921-26. Started dancing career in 1925; spread the Kathak Natyari Nritya from Lucknow, danced at Lucknow Music Conference, 1925, danced in the following cities where music conferences were held: Ajmer, Jaipur, Calcutta, Bombay, Baroda and Allahabad. Was honoured as 'Nritya Samrat' in Dehra Dun, 1936; awarded Padma Shree, Oct. 27, 1955. *Recreations*: Dancing and teaching dancing. *Address*: 6A/6, W.E.A., Karol Bagh, New Delhi 6.

MISTRY, Rahim Karim, Consul-General for the Republic of Turkey at Bombay; J.F., Landlord, Builder and Contractor. & Aug. 2, 1907; *Educ.*: St. Mary's High School, Bombay is a business magnate; is associated with various banking, industrial and commercial undertakings as well as charitable institutions; has recently built quite a few imposing and gigantic buildings in Bombay; is a prominent figure in Bombay's social, educational, industrial and business circles; Vice-Chairman, New Citizens Bank of India Ltd., Bombay; Pres., The Immalia Co-operative Bank Ltd.; Director: Platinum Jubilee Investments Ltd.; Chairman: National Land and Building Co. Ltd.; Mistry Estates (Private) Ltd.; Neptune Assurance Co. Ltd.; Hon. Treasurer, Immalia Khoja Bros. Charities; Director, Indian Overseas Shipping Co. Ltd.; Member: Platinum Jubilee Offce.; General Offce., Anjuman-i-Islam; Managing Offce., Khoja Peerimohamed Dawlat Munda Musakhana; is a member of all the leading clubs

of Bombay and takes active interest in their deliberations; has been appointed as an Agent and Constituted Attorney to His Serene Highness Prince Ali B. Khan; is a keen swimmer and is a member of Lodge Islam, Lodge Justice and Peace and various other lodges in Scotland and English Constitution; has travelled extensively in Europe, East Africa, Scandinavian and Middle Eastern countries. *Clubs*: Cricket Club of India Ltd.; Royal Western India Turf Club Ltd.; Bombay Presidency Radio Club Ltd.; W.I.A.A. Club Ltd.; National Sports Club of India; Willington Sports Club. *Address*: Mistry Court, 205, Dinkar Wacha Road, Backbay Reclamation, Bombay 1.

MISRA, Rosh, B.A. (Cal.), I.C.S., Registrar General & Census Commissioner, India, since July 1953. & March 1, 1917; *Educ.*: Presidency Coll., Calcutta; Merion Coll., Oxford. Served in districts of Bengal in various capacities, 1940-50, Supdt. of Census Operations, West Bengal, 1950-52; Joint Development Commissioner and Development Commissioner, West Bengal, 1952-54; Secy., Commerce & Industry, Cottage and Small Industry and Co-operation Deptts., West Bengal, 1955-June '58; Editor, *The Folk Dances of Bengal and District Records of West Bengal Districts* (a series). *Publications*: *Census Report of West Bengal* (7 Volumes); *Revised District Gazetteers of West Bengal Districts* (14 volumes); *The Tribes and Castes of West Bengal*; a short history of European Painting in Bengal called *Passion Europe Chitrakala*; a concise history of Indian Painting in Bengal called *Bharat Chitrakala*. *Address*: 8, Grove Lane, Calcutta-26; 2A, Mansingh Road, New Delhi-2.

MISRA, Rabindra Kumar, B.A. (Hons.) (English Literature) (Calcutta), Bar-at-Law, I.C.S., Chairman, Calcutta Port Commissioners, since 1956. & Dec. 15, 1904. *Educ.*: Krishnagar Collegiate School, Krishnagar Coll., Presidency Coll., Calcutta, Univ. Coll., London and Balliol Coll., Oxford; called to the Bar from Gray's Inn, Dec. 1929. Passed into the I.C.S. from London, 1929; Served in Bengal as Magistrate and Collector, 1932-39; Secy., Board of Revenue, Bengal, 1939-40; Dist. & Sessions Judge, Midnapore, 1940; Controller of Printing & Stationery and Dy. Secy. (Ex-Officio) to the Govt. of India, 1940-46; Addl. Home Secy. to the Govt. of Bengal, 1946-47; Magistrate & Collector, 24-Parganas, 1947-48; Secy. Refugee Rehabilitation Deptt., West Bengal, 1948-49; Anti-corruption Officer & Secy. (Ex-Officio), Home Deptt., West Bengal, 1949-51; Secy. to the Chief Minister, West Bengal, 1952 Home Secy. to the Govt. of West Bengal, 1953-55. *Recreations*: Indian Classical Music—Vocal and Instrumental, Tennis, Swimming, Cutting Wood and Digging. *Clubs*: Calcutta Club and the Gymkhana Club, Delhi. *Address*: 16, Portland Park, Alipore, Calcutta-27.

MISRA, Mr. Justice Bankur Prasad, M.A. (Cantab), Barrister-at-law, Judge, High Court, Calcutta, since Dec. 1957. & Dec. 26, 1917. *Educ.*: Calcutta, Cambridge and London. As a student in England from 1905 to 1943, took active part in Indian Independence Movement; was Pres., Cambridge Majlis; General Secy., Indian Students' Federation in U.K. and Secy., Swarn House, London. Joined Calcutta High Court, 1944; was M.L.A., West Bengal, 1952-57; is a good debater; visited the People's Republic of China as member, Cultural Delegation, 1954; appointed Minister-in-charge of the Land & Land Revenue, Judicial and Leg. Deptt., West Bengal, 1956; proceeded to U.S.A. to study the legal system and observe cultural institutions at the invitation of the American Govt., Sept. 1956; is connected with numerous voluntary and charitable organizations in West Bengal. *Recreations*: Reading; attending and organizing cultural functions. *Address*: 8, Mahabata Gandhi Road, Calcutta-2.

MITER, Prof. Sisir Kumar, D.Sc., F.R.S., Emeritus Professor, Univ. of Calcutta; Administrator, Secondary Board of Education, West Bengal. b. Oct. 1891. Pioneer of radio research in India; King George V Silver Jubilee Medal, 1935; member, Bengal Industrial Survey Cttee., 1938; member, Industrial Research Planning Cttee., Govt. of India, 1944-45; Chairman, Radio Research Cttee., Board of Scientific and Industrial Research, 1942-48; member, Indian Scientific Mission to U.K. and U.S.A., 1944-45; Pres., Rotary Club of Calcutta, 1948; Chairman, Calcutta Section, British Institution of Radio Engineers; President, Asiatic Society, 1951-53; General Pres., Indian Science Congress, 1954-55; Pres., National Institute of Sciences of India, 1959. *Publications:* *Active Nitrogen* (1945); *The Upper Atmosphere* (2nd edition, 1955, translated into Russian) and numerous scientific papers. *Address:* 9, Hindustan Road, Ballygunge, Calcutta.



MITER, Mr. Justice Gopendra Krishna, B.Sc. (Hons.) (Patna), Bar-at-Law, Lincoln's Inn, Judge, Calcutta High Court, since 1952. b. Oct. 7, 1906; Educ.: Zilla School, Munsherpore; Patna Coll., Patna; The Univ. Coll., London. Started practicing in the courts at Munsherpore, 1931; practised at the Bar of the Calcutta High Court, 1934-52. *Recreations:* Walking and Gardening. *Address:* 36/4, South End Park, Calcutta 29.

MODEK, Narayan Vinayak, C.I.E. (Jan. 1946), B.E. (Civil) (1911), member of the Institution of Civil Engineers (London) (1936), Fellow of the Royal Society of Health, Member, Institute of Municipal Engineers, Member, Municipal Public Health Engineers (U.S.A.), M.I.E. (India), F.N.I. &c., Consulting Engineer to the Bombay Municipal Corporation and Director, Central Public Health Engineering Research Institute of the Council of Scientific and Industrial Research, Govt. of India, New Delhi. b. December 1890. Worked with the Corporation of Hastings (England) for three years with State Technical Scholarship; worked with two Railways (Central & Western) in the capacity of Sanitary Engineer and Consulting Engineer; worked as Hydraulic Engineer, City Engineer, Special Engineer (in charge of Valtarna-cum-Tansa Scheme and Post-War Reconstruction Schemes) and Ag. Municipal Commissioner in the service of Bombay Municipal Corporation; acted as Adviser to the Ministry of Health, Govt. of India, for Drainage and Water Supply problems of Delhi; ex-Pres., Institution of Engineers (India); ex-Vice-Pres., Indian Roads Congress; connected with Engineering colleges and Institutions, Univ. of Bombay and Board of Technical Education (Bombay State); nominated by the Central & State Govts. on various technical bodies and Cttees.; designed and executed large municipal engineering schemes for the past 25 years. *Address:* "Udyam," Shivaji Park, Bombay 23.



MODI, Rai Bahadur Sethi Gujarmal, Chairman, Modi Industries, Modinagar (Meerut), U.P. b. August 1902, in the Modi family of Patiala State; Educ.: Privately. Founder 'Modinagar', an industrial town in Dt. Meerut, U.P.; established various industries, viz. Modi Sugar Mills Ltd., Modi Vanaspathi Mfg. Co., Modi Soap Works, Modi Glycerine Factory, Modi Biscuit Co., Modi Confectionery Works, Modi Tin Factory, Modi Oil Mills, Modi Paints & Varnish Factory, Modi Hurricane Lantern Factory; Chairman, Sugar Mills Association, Western U.P.; Founder and Chairman,

Western U.P. Chamber of Commerce; A. I. Manufacturers' Organisation, Delhi; has established various public welfare institutions; contributed Rs. 1 lakh to the Banaras Hindu University for construction of a Technical Research Laboratory; has built an Industrial Colony known as 'Govindpur', with the help of the U.P. Govt., to rehabilitate the displaced persons near Modinagar. *Hobbies:* Gardening and buildings. *Address:* P.O. Modinagar (Meerut), U.P.

MODI, Mr. Justice Indar Nath, B.A., LL.B., Judge, Rajasthan High Court, since Jan. 29, 1953. b. March 1, 1905; Educ.: Had a brilliant educational career; graduated in Arts and Law, Allahabad Univ.; was placed on the roll of merit in the final LL.B. exam., 1935. General Secy., Jodhpur State, 1930-33; joined the Bar, 1935; enrolled as Senior Advocate, Supreme Court of India, 1951;



Legislative Assembly, 1947-48; served on numerous Cttees. and institutions connected with education, public health, Harijans, labour, municipalities, panchayats and legal and political subjects, 1937-52; Hon. Supdt., Sardar High School, Jodhpur, 1946-50; Pres., Red Cross and other allied Societies, 1950-52; member, Rajasthan Leg. Assembly, 1952; had a lucrative practice and argued many famous cases including the Jodhpur Railwaymen's Grievances case, 1943. *Address:* Jodhpur, Rajasthan.

MODI, Rainsada K. W., Managing Director, Modi Spinning and Weaving Mills Co., Ltd., Proprietors of Modi Cloth Mills, Modi Yarn Mills, Modi Rayon & Silk Mills and Modi Tent Manufacturing Co., Modinagar, (U.P.). b. May 22, 1921, in the Modi family of Patiala and Modinagar; Educ.: Patiala. Started business career as General Manager, Modi Food Products Co., Ltd.; became Director of various companies, etc.



Bhatinda Electric Supply Company, Patiala Flour Mills, Modi Sugar Mills Ltd., E. B. Gujarmal Modi and Bros. Private Ltd., Sutlej Flour Mills, Modi Oil Mills and Associated Tubewells (India) Private Ltd.; Pres.: All-India New Textile Mills Assoc.; Caravan of India; made an extensive business tour of the Continent, U.S.A., Canada, Japan and South-East Asia; Member: District Labour Welfare Advisory Cttee., Meerut; Employees' State Insurance Corporation. *Recreations:* Driving and sports, especially cricket. *Clubs:* India Culture League, Bombay; Wheeler Club, Meerut; Chelmsford Club Ltd., New Delhi; Delhi Flying Club Ltd.; Alexander Athletic Club Ltd., Meerut; The Delhi and District Cricket Assoc. Ltd., New Delhi; National Sports Club of India New Delhi; International Cultural Forum, Delhi; Meerut District Rifle Assoc. *Address:* P.O. Modinagar, District Meerut, U.P.

MODY, Sir Sami, M.A., LL.B., K.B.E. (1935), Grand Commander, Order of George I of Greece, Treasurer, Swatantra Party, Ex-Governor of U.P., Ex-Dir., Tata Sons Ltd. b. Sept. 23, 1881; Educ.: St. Xavier's Coll., Bombay. Pres., Bombay Municipal Corporation, 1923-24; Chairman, Bombay Millowners' Association, 1927 and 1929-34; President, Indian Merchants' Chamber, Bombay, 1928; President, Employers' Federation of India;

member, Indian Leg. Assembly, 1929-43 and Constituent Assembly, 1943-49; member, First Round Table Con., 1929 and Reserve Bank Cttee. of the Conference, 1934; Member for Supply, Viceroy's Executive Council, 1941-43 and Deputy Chairman of the War Resources Cttee. of the Council; Governor of Bombay, Sept. 1947; Employers' delegate, International Labour Conference, Geneva, 1937; Chairman, Central Bank of India and Indian Hotels Co. Ltd.; Vice-Chairman, Tata Hydro-Electric Agencies Ltd.; Governor of U.P., May 1949-June 1952. Hon. LL.D., Banaras, Allahabad and Poona Univs.; D. Litt., Agra Univ. *Clubs:* Royal Automobile, Overseas League (London), Asian, Ripon, Willington, Royal Western India Turf, Cricket Club of India, Bombay, Delhi Gymkhana. *Publications:* *The Political Future of India; Biography of Sir Pharoosh Mahla. Address:* "Bhikrupo," Carmichael Road, Cumballa Hill, Bombay.

MODY, Mr. Justice Walchand Ambalal, B.A., LL.B., Judge, High Court, Bombay. b. March 1, 1910; Educ.: Elphinstone High School; St. Xavier's College (1925-27); Elphinstone Coll. (1927-29). Joined the Bar, 1935. *Recreations:* Bridge. *Club:* Willington Sports Club. *Address:* Neermulan, Mt. Pleasant Road, Malabar Hill, Bombay 6.

MOGENSEN, Erik Brunnich, M.Sc., Civil Engineer, Director, F.L. Smidth & Co. (Bombay) Private Ltd. & Sept. 8, 1906 in Denmark; Educ.: Copenhagen Univ. Hon. Consulting Engineer (Cement) to the Govt. of India, 1945-56; Consul for Denmark, 1950; Consul General, 1957. *Address:* Shangrila, Carmichael Road, Bombay.

MOHAMMED, Sakshi Ghulam (See under Sakshi Ghulam Mohammed).

MOHAN, Yadava, C.E. (Hons.), Secretary-General of the International Commission for Irrigation and Drainage, since May 1957; Member, Planning, Central Water & Power Commission, New Delhi, since July 1958. b. July 20, 1908; Educ.: Meerut Coll., Meerut; C.E. (Hons.) from Thomason Coll. of Civil Engineering, Roorkee, 1928. Civil Engineer in various capacities (Asst. Executive, Executive and Superintending Engineer) in the Irrigation Dept. of Uttar Pradesh; on deputation in U.S.A. on U.S. Bureau of Reclamation, Army Corps of Engineers, TVA, etc. Chief of the Natural Resources Development Division, Planning Commission, New Delhi, 1953-58; Secretary of the Advisory Committee for Irrigation and Power Projects for the Second Plan 1953-58; member of the Cttee. since July 1958. *Publications:* A number of articles of engineering interest and humanities in engineering magazines and daily newspapers. *Recreations:* Photography. *Address:* 45, Lodi Estate, New Delhi.

MOHANTY, Gopi Nath, O.A.S., Oriya Novelist, Under-Secretary to the Government, Political and Services (Gram Panchayat) Deptt., Orissa, since Nov. 1956; Member, Indian P.E.N., Orissa Sahitya Akademi, Oriya Advisory Board of the Bharat Sahitya Akademi. b. April 20, 1914; Educ.: Maharaja H. E. School, Sonapur; Patna High School, Patna; Ravenshaw Coll., Cuttack. Worked in different districts as Magistrate and as an Executive Officer; made a thorough study of the Adivasi tribes during seven years in Koraput Dist.; collected their languages and songs; awarded Rs. 500 by Orissa Govt. for passing Kondh test; awarded Rs. 5,000 by the Govt. of India in 1955 for his novel *Amrutara Santana*, being considered the best original production in the Oriya language since independence. *Publications:* Novels: *Harjans; Amrutara Santana; Danapati; Siba Bhat; Paraja*, etc.; Stories: *Ghaata Fais; Chhat Alus*; etc.; Dramas: *Mahapurusha*, etc.; Essays: *Premara Nigriti*, etc.; For little children: *Bhagotika Kahani*; Adversarial researches: *Kuti Kondh Bhasa Tattva; Kondh Paraja Stora O Sangita*; Poems in Kondh: *Kuti Lobati Nati Panbu. Address:* Political and Services Department, Bhubaneswar, Orissa.

MONMATH, Mr. Justice Soura Prasad, M.A., B.L., Judge, Orissa High Court, since 1952. b. Jan. 23, 1901; *Educ.*: B.A. (Hons.) in Philosophy, Ravenshaw Coll., Cuttack, 1921; was first in the Univ.; M.A. in Philosophy with first class, Calcutta Univ., 1923. Joined Cuttack Bar, 1927; established himself as a leading lawyer in a short time; one of the three members on the Constitution of Rly. Rates Tribunal, 1949-52; officiated as Acting Chief Justice for a short time; Chairman, Hirakud Accident Enquiry Cttee., Oct. 1955; was Judge-Chairman, Advisory Board under the Preventive Detention Act for five years. *Address*: Orissa High Court, 19, Cantonment Bungalow, Cuttack-1.

MONIUDIN, Khwaid, B.A. (Cantab.), Deputy Minister for Civil Aviation, Govt. of India. b. Oct. 10, 1898; *Educ.*: Allahabad and Cambridge Universities. Retired Govt. servant, Hyderabad State; member, Indian Institute of Economics, Hyderabad; served in The Nation Building Dept., Hyderabad State; Professor of Economics, Nizam's Coll., Hyderabad, 1927-30; Member-Secy.: Hyderabad Banking Inquiry Cttee., 1929; Hyderabad Co-operative Finance Inquiry Cttee.; Director, Commerce and Industry, Hyderabad, 1938-43; represented Hyderabad on The National Planning Cttee. appointed by Congress, 1939; served in Hyderabad State Bank; Secy., Labour Dept., Hyderabad State, 1949-50; member, First Lok Sabha, 1952-57, again elected to the Lok Sabha, 1957. *Recreations*: Tennis and Light Games. *Club*: Secunderabad Club, Secunderabad. *Address*: Juhur Bagh, Nizamabad, P.O. Jamia, Osmania, Hyderabad 7; New Delhi.

MONDOL, Shet Kumar, B.A., S.T.D., D.D., LL.D., Bishop, Methodist Church in Southern Asia, since Jan. 1941.



b. Oct. 11, 1890; *Educ.*: Scottish Church Coll. and St. Paul's Coll., Calcutta. Principal, Collins Institute, Calcutta; Pastor, Dist. Supdt., Railway Chaplain, Calcutta and Asansol; Acting Pres.: National Christian Council of India, 1947-50; Pres., 1950-56; Pres.: National Missionary Society of India, 1946-48; India Sunday School Union, since 1948; World Council of Christian Education and Sunday School Assoc., since 1958. *Address*: Bishop's House, 12, Boulevard Road, Delhi 8.

MOOKERJEE, Sir Biren, M.A. (Cantab.), M.I.E. (Ind.), Kt. (1942), Governing Director, Martin Burn Ltd., Calcutta. b. Feb. 14, 1899, *Educ.*: Hastings House and Sibpur Engineering Coll., Calcutta, Trinity Coll., Cambridge. Joined Martin & Co. as an Assistant, 1924, made partner, Burn & Co., 1931 and Martin & Co., 1934; was closely associated with the negotiations which led to the formation of The Steel Corporation of Bengal Ltd., 1937 and the subsequent construction of the steel works at Napuria alongside the Hirapur Works of The Indian Iron & Steel Co. Ltd.; during World War II, appointed to the Munitions Board and the Defence Council; elected Sheriff of Calcutta, 1940; was Chairman, Calcutta Board, former Imperial Bank of India, Governing Body, Sibpur Engineering Coll.; Fellow, Faculty of Engineering of the Calcutta Univ.; was member, Indian Mission which negotiated Rs. 15 crore loan from the World Bank to the Indian Iron & Steel Co. Ltd. *Address*: 7, Harrington Street, Calcutta 16.

MOOKERJEE, Kalkpada, Minister for Home, Police and Defence, West Bengal. Took active interest in students' movements; sponsored and organised the widespread national volunteer organisation on the lines of the national scout movement; joined the Non-cooperation movement, 1921; courted imprisonment in almost all the freedom movements; was member, A.I.C.C. for 15 years; was an office-bearer of the Bengal Congress

for a long time; was General Secy., Bengal Prov. Congress; was one of its Vice-Presidents; was a close associate of Netaji Subhas Chandra Bose; conducted relief organisation during the North Bengal flood and was also actively associated with the relief organisation during both the Dacca and Noakhali communal riots; was elected to the Bengal Leg. Assembly, June, 1947; appointed Minister in the first Congress Cabinet, 1947; appointed Chairman, West Bengal Minority Commission, under the Indo-Pakistan Agreement; led the Indian delegation to the second session of the Industrial Cttee. on cotton textiles at Geneva, Oct.-Nov. 1948. *Address*: Calcutta.

MOOKERJI, Dr. Radha Kumud, M.A., Ph.D., D.Litt., Padma Bhushan (Jan. 26, 1957), Emeritus Professor of History, Lucknow Univ. b. Jan. 25, 1884; *Educ.*: Presidency Coll., Calcutta. First Prof. of History, Bengal National Coll., Calcutta; First Prof. of History, Mysore Univ., 1917-21; Prof. and Head of the Dept. of History, Lucknow Univ., 1921-45; M.L.C., Bengal on Congress ticket, 1937-43; Member: Bengal Govt.'s Land Revenue (aloud) Commission 1939-40; Indian Delegation to the F.A.O. Preparatory Commission at Washington, 1946-47; awarded Hon. Degree of D.Litt. by Lucknow Univ. at its Silver Jubilee Convocation; Lecture-ship instituted in his name at Lucknow Univ. by his friends of the value of over one lakh of rupees; nominated by the President as member, Rajya Sabha 1952-58. *Publications*: *A History of Indian Shipping; Nationalism in Hindu Culture; Men and Thought in Ancient India; Ancient Indian Education; Early Indian Art; India's Land System; Ancient India*, and several others; *Address*: 39, Ekdalia Road, Calcutta 19; Goode Road, Darjeeling.

MOON, Edward Penderel, M.A. (Oxford), O.B.E. (1941), Adviser, Planning Commission since Sept. 1952. b. November 13, 1905; *Educ.*: Winchester and New College, Oxford. Fellow of All Souls College, Oxford, 1927; entered I.C.S. (Punjab Commission), 1929; Under-Secretary, Punjab Government; Deputy Commissioner, Multan; Secretary to the Governor, Punjab; Deputy Commissioner, Amritsar; resigned from I.C.S. in January 1944; served in the Yugoslav Commission of U.N.R.R.A., 1944-45; Secretary, Development Board (Government of India), 1946; Revenue Minister, Bahawalpur State, 1947; Deputy Chief Commissioner, Himachal Pradesh, 1948-49; Chief Commr., Himachal Pradesh, 1950-51; Chief Commr., Manipur, 1951-1952. *Publications*: *Strangers in India; The Future of India; Warren Hastings and British India*. *Recreations*: Riding, Shooting and Singing. *Club*: Athenaeum. *Address*: c/o Planning Commission, New Delhi.

MOOTHEM, Mr. Justice Orby Maxwell, B.D., M.Sc. (Econ.) (Lond.), Bar-at-Law, Chief Justice, High Court, Allahabad, since Jan. 11, 1955. b. Feb. 17, 1901; *Educ.*: privately; London Univ.; called to the bar (Inner Temple), 1925; Hon. Benchers, 1958; enrolled as Advocate, Rangoon High Court, 1927; Deputy Judge Advocate-General, Army in Burma, 1941-42; Asst. Judge Advocate-General, G.H.Q. (India), 1942-43; Legal Adviser and subsequently Chief Judicial Officer, British Military Administration, Burma; mentioned in Despatches, 1945; appointed Acting Judge of the High Court of Judicature at Rangoon, Dec. 1945; Chairman, Allahabad Univ. Enquiry Cttee., 1952-53. *Publications*: *Burmese Buddhist Law (1939)*. *Recreations*: Golf; Map collecting. *Address*: 9, Hastings Road, Allahabad.

MORRES, Frank Robert, M.A. (Oxon.), B.A. (Bombay), Bar-at-Law, Editor-in-Chief, *The Indian Express*, Bombay, Delhi and Madurai, since Dec. 9, 1957; Ex-Editor, *The Times of India*, Bombay. b. Nov. 12, 1907; *Educ.*: Bombay and Oxford Universities; member of Lincoln's Inn, London. Assistant Editor, *The Times of India*, 1938-43; Editor

of *The Times of Ceylon*, 1946-48; War Correspondent, Burma-China, 1942-45; Acting Editor, *The Times of India*, April 11-Aug. 14, 1949; Deputy Editor, *The Times of India* till March 1950; Editor, *The National Standard*, March-Nov. 1950; was member, Indian Cultural Delegation to China, April-June 1952; Editor, *The Times of India*, Bombay, 1950-57. *Publications*: *Introduction to India* (with Robert Stimson); *Story of India; Report on Mao's China* (Macmillan, New York, 1959); *Jawaharlal Nehru* (Macmillan, New York, 1956); *Yonder Our World* (Macmillan, New York, 1957); *Sir Purothomasdas Thakurdas* (Asia Publishing House, 1957). *Clubs*: Willingdon; Rotary; C. O. I. *Address*: D-8, Malatal Park, Bhulabhai Desai Road, Bombay 26.

MOSES, Angelo, M.A., F.R.A.C., B.P.E., Professor of Philosophy, Khalsa College, Bombay and Captain in the National Cadet Corps. b. 1914; *Educ.*: Andhra University

where he was a student of Sir S. Radhakrishnan; was First in Univ. in Philosophy; won two Gold Medals, two Silver Medals and three First Prizes in Essay-writing Competitions; participated in the All-India Physical Education Conference at Amraoti, 1946; has won 97 trophies in Tennis, Hockey and Badminton tournaments; Secy.: Baroda Y.M.C.A.; to Major Shrinant Sardar C. S. Angre Sahab Bahadur of Gwalior; to Rai Sahab Chaudhry Pratap Singh of Multan; Professor, C. & S. Coll., Shikarpur, Sind. *Publications*: two books on Logic and nearly 400 articles in leading English journals and Newspapers; has contributed papers to the Indian Philosophical Congress, since 1940. *Address*: Khalsa College, Bombay 19.



MUDALIAR, Sir A. Lakshmanaswami, M.D., LL.D., D.C.L., D.Sc., Padma Bhushan (1954), M.L.C., Madras, Vice-Chancellor, University of Madras, since Aug. 1942. b. Oct. 14, 1887; *Educ.*: Christian and Medical Colleges, Madras. Joined Madras Medical Service; Prof. of Obstetrics and Gynecology, Medical Coll., 1934-42; Supdt., Govt. Hospital for Women and Children, Egmore, and Principal, Medical Coll., 1939-1942; Member, Syndicate, Madras Univ., since 1925; acted as Vice-Chancellor, 1936 and 1940; Chairman, Inter-Univ. Board, 1948-49 and of its Standing Cttee., 1949-51; member: Indian Medical Council, since its inception; All-India Council of Technical Education; All-India Council of Scientific and Industrial Research; and of its Governing Body; Chief Commissioner, Madras Prov. Boy Scouts Assoc.; Chairman, Secondary Education Enquiry Commission, 1952-53. Chairman, Executive Board of the World Health Organisation; Chairman, Executive Board, UNESCO, 1955. *Publications*: *Clinical Obstetrics; Ante-Natal and Neo-Natal Mortality of Infants; Casebook for Midwives*. *Clubs*: Cosmopolitan, Madras; Kodakkanni Boat Club. *Address*: 'Kensington,' Kilpauk, Madras.

MUDALIAR, Sir A. Rameswami, Diwan Bahadur, Kt., K.C.S.I. (1942), Member (Rajya Sabha), Ex-Vice-Chancellor, Travancore University. b. October 14, 1897; *Educ.*: Christian, and Law Colleges, Madras. Advocate, Madras; member: Leg. Council, Madras, 1920-26; Pres., Municipal Council, Madras, 1929-30; member: Council of State, 1930; Indian Leg. Assembly, 1931-34; B. T. O. Federal Structure Cttee.; and Indian Franchise Cttee.; Indian Reserve Bank Committee; leader, Indian Delegation to British Commonwealth Relations Conference, Toronto; member: Special Textile Tariff Board; India Council; Hon. Editor, *Justice*, 1927-35; delivered the Rt. Hon'ble V. S. Srinivasa Sastri foundation lectures, Madras Univ., 1933; member, Economic Committee, League of Nations; Member, Victoria's Executive Council for Commerce Dept., 1948-49;

MAKHERJI, Nimade Behari, Diploma in Fine Art—(Vishva Bharati); Professor, Vishva Bharati, Santiniketan. b. 1904; *Edus.:* Vishva Bharati; studied art under Mr. Nandadeo Bose; the chief educative influences in his career have been Chinese art and calligraphy besides the classic art of India; visited Japan, 1937-38; worked in Kala Bhavan.

Santiniketan as Acharyas for best part of his life; did two major murals in Santiniketan; popularity known as calling mural and Hindi Bhavan mural; served occasionally as Curator of Kachchhatu Museum (1945) and as Professor of Art in Patana Art College; underwent an eye operation in March 1957; since then virtually without vision; is now working as Special Instructor in Applied Aesthetics in Santiniketan. Publications: Bibliography of Abanindranath Tagore's works; several articles. *Recreations*: Chess, Chinese tea. Address: P.O. Santiniketan, West Bengal.

MURTHUGUN, Shantachandra Madhav, M.A., LL.B., Marathi Poet, Critic and Novelist; Lecturer, Kanyar Mahavidyalaya, Nagpur. b. Jan. 21, 1921; Educ.: Holkar Coll., Indore (M.P.). Commenced writing verse while at school; has been accorded an important place in contemporary Marathi poetry. Publications: *Nayi Mahat* (Poetry); *Yatri* (Poetry); *Kalipsa* (Novel); has contributed many articles on modern literary criticism. *Recreations*: Reading. Address: Shankar Nagar, Nagpur.

MUNDASSERY, Joseph, M.A., Minister for Education, Kerala; Malayalam Writer. b. 1902. Thirty years in teaching; recipient of titles from H.H. The Maharaja of Cochin for literary work—Sahityakusala and Sahityapansu; has travelled widely; visited China, Soviet Union and European countries; entered active politics, 1946; member, World Peace Council; has been in the Teachers Movement and associated with educational activities for more than a quarter of a century; has been in the forefront of the Progressive movement in literature; actively interested in the Co-operative movement of the State; was member, Leg. Council of the State for about 10 years; was Editor of various literary journals and also a daily. Publications: Has produced more than thirty volumes including fiction, travel, biography, literary criticism and general essays: Some Books: *Professor, Kothayilamunurullu*, *Chana Forward*, *Mattoli*, *Manadanam*, *Veyanarayali*, *Manushyathathunayathal*, etc. Address: Minister for Education, Trivandrum.

MUNIKANNAN, Ms. Justice Davaleer, B.A., B.L., Judge, High Court of Andhra Pradesh, Hyderabad, since June 1958. b. May 11, 1908; Educ.: Hindu High School and Muthyalpet High School, Madras; Mrs A.V.N. Coll., Visakhapatnam; Presidency Coll., Madras; Law Coll., Madras. Apprenticed under Sir Alladi Krishnaswami Iyer; enrolled as Advocate, Madras High Court, 1934; set up practice at Chittoor as Junior to Dewan Bahadur B. Muniswami Naidu; practised in the Madras High Court, 1939; enrolled as Senior Advocate, Supreme Court, 1947; appointed as Public Prosecutor, Andhra State, 1953; keenly interested in cultural and scout organisations; one of the founders, Madras Chamber of Agriculture; sometime member and Legal Adviser, Tirumala Tirupati Devasthanams Office. Publications: *Krishnavidya*—A Weekly (1931 and 1932); *Vyasa*—A Fortnightly (1944 to 1946). *Recreation*: Rural Reconstruction; Library Movement. Club: Cosmopolitan Club, Madras. Address: 3-4-769, Barkatpura, Hyderabad.

MURMEL, Kamaladevi Manoharlal, B.A., LL.B., D.Litt., Ex-Governor of U.P.; Excc. Chairman, Indian Law Institute; b. 30th Dec. 1887; Educ.: Baroda College. Advocate, Bombay High Court, 1913; Joint Editor, *Young India*, 1915; Secy., Bombay Home Rule League, 1919-20; Editor, *Gujarat*, 1923-31; Fellow of the Universities of Bombay and of Baroda; member, Baroda Univ. Commission, 1925; Chairman, 1944; member, Commission for the Univ. of Gujarat, 1947; M.L.A., Bombay, representing the Bombay Univ., 1937-46; sentenced to six months imprisonment for Salt Satyagraha, April 1930; member, Working Office, Indian National Congress, 1930; member, A.L.C.O., 1930-33 and 1937; sentenced to 3 years

B.L. for C.D., Jan. 1932; Secy., Congress Parliamentary Board, 1934; Home Minister, Government of Bombay, 1937-38; President, Hindi Sahitya Sammelan, Udaipur, 1944; President, Bharatiya Vidya Bhavan, since 1938; Editor, *Social Welfare*, 1940-46; detained under D.O.I. Act, 1940-41; member, Constituent Assembly of India and of its Drafting Office, and of Parliament, 1947-52; Agent-General to the Government of India in Hyderabad, 1947; Chairman, Institute of Agriculture, Anand, since 1951 and of Charotar Vidya Mandal; Trustee: Birla Education Trust and other trusts, since 1948; Food and Agriculture Minister, Govt. of India, 1950-53; Chairman, Sanskrit Vishva Parishad, since 1951; Governor of U.P., 1952-57; Chairman, Indian Law Institute. Publications: (Gujarati): *Novels, Plays, Essays, Memoirs*, (English): *Kulapati's Letters*, Vol. I, II & III; *Gujarat and its Literature: Imperial Gujarati; Bhagavad Gita and Modern Life; Creative Art of Life; To Shadrinath; Sage of Indian Sculpture; End of Era—Hyderabad Memories*. Address: Bharatiya Vidya Bhavan, Chowpatty, Bombay.

MURMEL, Srimati Lilawati, M.P., Rajya Sabha, 1952-58; Vice-Pres., Bharatiya Vidya Bhavan, Bombay, Delhi and Kanpur. President: Bombay Presidency Women's Council, 1950 and 1951; All India Women's Central Food Council, New Delhi, 1954-58; Bharatiya Sangit Shiksha Pith (Academy of Indian Classical Music), since its inception; Bharatiya Kala Kendra of Bharatiya Vidya Bhavan (Academy of Indian Fine Arts), since its inception; Indian Conference of Social Work, New Delhi, 1950-51; Vice-Pres.: National Council of Women in India, 1953-57; Rashtrabhasha Prachar Samiti; National Education Society; member: Bombay Leg. Assembly (Congress), 1936-46; Office of Indian Merchants' Chamber, 1933-36, 1946-50; Bombay Municipal Corporation (Congress), 1935-46; Senate of the Bombay Univ. (Congress), 1937-46; Board of Studies in Gujarati, 1939-44; Ten. Board, 1955-58; P.B.N.; M.P.C.C., 1933-34; A.L.C.O., 1931-34; B.P.C.O., 1935-37; organised a number of Annapurna Cafeterias all over India and a Dining Car Cafeteria, organised the School of Nutrition and Catering at Bombay (three courses), 1952, organised College of Catering and Institutional Management, Bombay, 1954-58; Dy. Leader, Municipal Congress Party, 1942-43; Whip, Municipal Congress Party, 1943; organised Swadeshi Market and was elected its Pres.; Trustee, Kashi Anathalya Assoc., Banaras, 1953-57; courted jail for Salt Satyagraha, 1930, Civil Disobedience, 1932 and 1940. Publications: *Rekha Chitra Ans Bala Lekha* (Collection of character sketches, short stories and plays); *Kumarsdevi* (Historical Play); *Jeevanmaiti Jadedi* (collection of short stories); *Rekha Chitra—Juna Ans Nava* (character sketches—old and new); miscellaneous articles. Address: Bharatiya Vidya Bhavan, Chowpatty, Bombay.

MURMEL, Sumant Khanderao, B.A. (Bom., 1st Class), M.A. (Bom., 1st Class), B.Sc. (Lond.), D.Sc. (Lond.), Member, Tariff Commission. b. April 22, 1900; Educ.: Wilson Coll. & St. Xavier's Coll. (Bombay Univ.); London School of Economics (London Univ.); Bombay Educational Service (1925-55); Principal and Professor of Banking, Sydenham Coll., Bombay (1948-55); Chairman, Bombay State Forward Markets Office; Member, Indian Textile Inquiry Office; Pres., Indian Economic Conference (1956). Publications: *Currency and Prices*; *Modern Banking in India*; *Economics of Post-war India*; *Foreign Central and Commercial Banking*; *Tariff Commission*, etc. Address: 8, Ashley House, 167-A, Colaba Road, Bombay 5.

MURRAY, Henry Lado, B.A. (Hona), Merchant, President, Bombay Chamber of Commerce and Industry, 1952-53; b. May 31,

1907; Educ.: Hatterbury Coll.; Brasenose Coll., Oxford. Joined Mackinnon Mackenzie & Co. in 1928 and has been with them since, except during the period of the 1933-45 war. Address: C/o Mackinnon Mackenzie & Co. Private Ltd., 4, Ballard Road, Ballard Estate, Bombay 1.

MURTHY, B. S., B.A., B.Ed., Deputy Minister, Community Development, Govt. of India. b. Oct. 29, 1907; Educ.: Govt. Arts Coll., Rajahmundry; Govt. Training Coll., Rajahmundry; Madras Christian Coll. and Madras Law Coll. Journalist; interested in Trade Union work, Harijan welfare work and youth movements; M.L.A., Madras 1937; Parliamentary Secy. for Labour and Industry, Madras, 1937-38 and 1946-47; Chief Whip, Madras Leg. Congress Party, 1946-47; Pres.: Andhra Provincial Agricultural Labour Congress since 1946; Andhra Provincial Harijan Sewak Sangh, 1940-49; member, Senate, Madras and Andhra Univs.; Adviser Delegate to the 32nd International Labour Conference, Geneva, 1949; toured Europe and U.K., 1949; Vice-Pres.; Andhra Provincial Journalists' Assoc.; Chairman, Congress Tribunal, Andhra P.C.C., 1940-41; courted jail, 1940-42; was Chief Whip, P.S.P. Group in the Lok Sabha; joined Congress again, 1954; Editor, the *NAYAN*—a Telugu weekly; elected member, Lok Sabha, 1952-57; visited China as a member, Parliamentary Delegation, 1956. Publications: *Revolt of the Crores*; *Agency*; *Andhra Vinayakar*. *Recreations*: Chess and beach walking, Tennis, Football and Table Tennis. Clubs: Chennapuram Andhra Maha Sabha, Madras (life member). Address: "Thandava Bagh", No. 1-B, Raja Annamalai Chetty Road, Pirasawalkam, Madras-7; New Delhi.

MURTHY, Ramnathapur Venkatesa, M.A., Editor, *Records & Statistics*. b. Nov. 12, 1906; Educ.: Mysore and Bombay. After working for a short period in the Mysore Education

Service joined the editorial staff of *Commerce*, March 1936; became its first India editor; resigned from *Commerce*, end of 1951; took over as Chief Editor, *The Bharat*, 1951; after a few months, appointed Special Representative, *Eastern Economist*; immediately after the Second World War, proceeded to the U.K. to make an on the

spot study of post-war industrial conditions and prospects of Indo-British economic relations; edits *Daily Cotton and Textile Market Review*; broadcasts often from the All India Radio on economic subjects; is connected with a number of educational and cultural institutions and is a keen co-operator; as Chairman, Press Guild of India, takes very active interest in the work of this organisation. Publications: Has edited and published a number of specialised publications, including *The History of Technical Education in India and Industrial India*; is a frequent contributor to leading journals, both in India and abroad. Address: 8, Ratan Lodge, Bombay 10.

MURTI, Pandit R. S. N., b. Nov. 29, 1894. Member, Liberal Federation Working Office;

was President of the Ganjam Harijan Sewak Sangh; took part in Non-Party Leaders Conferences; original member of the Indian Council of World Affairs; was a member of the Andhra Univ. Senate; was member, Royal Institute of International Affairs, London; was President, Orissa Millowners' Assoc. and Chamber of Commerce, Bhubaneswar; was an Hon. Magistrate; constructed a Maternity Ward; member: Indian Society of

Agricultural Economics; Indian Economic Association; F.E.N., etc.; is a prominent landowner in Orissa; contributed liberally to Bhodan. Publications: *Free State for India* and other books. Address: Sarvodaya Bhavan, Chhatrapur (Ganjam).

MUSAFIR, Ghans Ganmukh Singh, M.P.; Ex-Pres., Punjab Pradesh Congress Cttee. b. Jan. 1899; Educ.: Rawalpindi and Training Coll., Lahore. Started career as a teacher; took active part in Akali movement, Jathedar Akal Takhat; Gen. Secy., S.G.P.C. and Shiromani Akali Dal; devoted to poetry and journalism; joined Congress, 1923; courted jail in almost every movement; member, A.I.C.C. since 1930; Constituent Assembly, 1947; Working Committee since 1952; Chairman, Jallianwala Bag Trust Managing Cttee.; member of a number of official Cttees. formed by the Central and State Govts.; Chairman, Reception Cttee., 61st Session of the Indian National Congress; member, Delegation to Stockholm Peace Conference, 1954; visited Russia and continental countries; was honoured by the Russian Cultural Society. Publications: Poetry, short stories, etc. in Punjabi. Recreations: Politics, Travel and Hiking. Address: 31, Feroze Shah Road, New Delhi.

MUTHIAN, Chettiar of Chettinad, Rajah Sir Muthiah Annamalai, B.A., M.L.A., Kt. (1941), Pro-Chancellor, Annamalai University. b. 1906; Educ.: Presidency Coll., Madras. Member: Madras Banking Enquiry Cttee., 1929; Madras Leg. Council, 1930-37; Madras Franchise Cttee., 1931; Madras Leg. Assembly, 1934-46, 1946-52, 1952-57 and since 1957; Syndicate, Madras Univ., 1940-46; Indian Constituent Assembly, 1946-50; Chief Whip and Chairman, Justice Party; Mayor of Madras, 1932-33; again Mayor of Madras 1934-35; Education and Public Health Minister, Madras and Pro-Chancellor, Madras Univ., 1936-37; Local Self-Govt. Minister, Madras, 1937; Pres.: Southern India Chamber of Commerce, 1941; Federation of Indian Chambers of Commerce and Industry, 1943-44; Local Board, former Imperial Bank, Madras; Trustee, Pachaiyappa's Coll. Board, since 1928; its Pres., 1942; Director: former Imperial Bank; A. & F. Harvey Ltd., Madras; Madura Mills Co., Ltd., Madras; Pandyan Insurance Co., Ltd., Madras. Clubs: Rotary Club of Madras; Madras Gymkhana Club; Madras Boat Club; Madras Race Club; Madras Cricket Club; Cosmopolitan Club; Bangalore Race Club, Bangalore. Address: Chettinad House, Rajah Annamalaiapuram, Madras 28.

MYRADEL, Her Excellency Mrs. Riva, Swedish Ambassador to India, Burma and Ceylon, since Dec. 5, 1955. b. Jan. 31, 1902, at Uppsala, Sweden; Educ.: B.A. degree from Stockholm Univ., 1924; Stockholm, Uppsala, London, Leipzig, 1925-28, Rockefeller Fellow, U.S.A., 1929-30; Geneva, 1930-31. Director of Studies at Training Coll., Stockholm (1936-47); Head of the Dept. for Social Affairs of the U.N., Lake Success (1949-50); Director, Dept. of Social Sciences, UNESCO (1951-55); has been member of and adviser to numerous Swedish Govt. Cttees and Swedish delegate to several international conferences; has presided over or has been Vice-Pres. of many Swedish and international organisations, among the latter the Federation of Business and Professional Women (1936-47) and the World Council for Pre-school Education (1947-49). Publications: Books: *Crises in the Population Question*, 1934; *City Children*, 1935; *Right Playthings*, 1936; *Official report on Women's Work*, 1938; *Nation and Family*, 1941; *Contact with America*, 1941; *Gross Section of Great Britain at War*, 1943; *Post-war Planning*, 1944; *Comments* (being collection of articles on foreign affairs written for labour daily), 1944; *Are we too many?*, 1949; *America's role in International Social Affairs*, 1954; *Women's Two Roles*, 1956, etc. Address: Royal Swedish Embassy, 27, Frithvira Road, New Delhi.

MYSTORE: His Highness Maharaja Sri Jaya Chamaraja Wadhyar Bahadur, G.C.B. (1946), G.O.S.I. (1945), J.L.D. (1942), D.Litt. (1955), Governor, Mysore



State. b. July 18, 1919; Educ.: Maharaja's College, Mysore; passed B.A. from the Mysore Univ., 1938. Has travelled extensively in the Far East, Europe and East Africa; Went on lecture tour of U.S.A., 1959. Recreations: Music, Riding, Tennis, Raquets and Big game shooting. Address: The Palace, Mysore.

NAG, Kalidas, M.A. (Cal.), D. Litt. (Paris). Officer d'Académie (France), Pres., Iran Society, Calcutta; Chairman, Tagore Centenary Committee; ex-Member, Rajya Sabha and Leader, Democratic Party. b. Jan. 16, 1892; Educ.: Tagore's Rural Univ., Santiniketan; Calcutta Univ.; Univ. of Paris (1920-23). Professor of History, Scottish Church Coll., Calcutta, 1918-19; Principal, Mahinda Coll., Ceylon, 1919-20; Gen. Secy., Royal Asiatic Society of Bengal, 1942-48; edited its Bi-centenary Volume; nominated member, Rajya Sabha, 1952. Publications: Translated Tagore into French; collaborated with the French Nobel Laureate Romain Rolland in his studies on Mahatma Gandhi, Ramakrishna and Vivekananda; Edited: *Bi-Centenary of Sir W. Jones and China and Gandhian India* by Dr. Carsun Chang. *Art and Archaeology Abroad: India and the Pacific World: New Asia: India and the Middle East: Discovery of Asia: Tolstoy and Gandhi: Greater India*, etc., etc. Recreations: Music, Drama and Sea Voyages. Clubs: Tagore Societies of New Delhi, Calcutta, London, New York, Djakarta, Tokyo. Address: 108, Raja Basanta Roy Road, Calcutta 29.

NAGPUR, John William Sadiq, M.A., B.D. (Hons), Bishop of b. July 18, 1910, Educ.: St. John's Coll., Agra with First Class M.A. in Persian; passed B.D. and B.D. (Hons.) examinations of the Serampore Coll. as an external student. Teacher in St. John's School, Agra, 1933-34; Secy., Student Christian Movement, 1934-35; Lecturer and later Prof. of Persian, Wilson Coll., Bombay, 1935-46; Secy., National Christian Council, 1946-57; William Paton Lecturer, Selly Oak College, Birmingham, England, 1950-51; Secy., Bible Society, May-Sept. 1957; Consecrated Bishop at Poona, Sept. 15, 1957; Enthroned as Bishop of Nagpur, Oct 6, 1957. Publications: Pamphlets dealing with Devotional Life and on Youth and Family Life Address: Cathedral House, Nagpur 1.

NAIDU, Sangitha Kalandi, Sangitha Ratnakara Prof. Dwaram Venkataswamy, 'Padma Shri' (Jan 1957), leading musician. b. Nov. 1893 in Bangalore Cantt.; Educ.: Mrs. A. V. N. Coll.; studied violin under his brother. Prof. of Violin, Maharaja's Music Coll., Visianagaram, 1919-36; appointed Principal, 1936; awarded gold medals by Sri Sri Vikramadeo Varma Varu, H.H., the Thakore Sahab of Wadhwan, 1920; H.H. the Maharaja of Jaipur, 1922; All India Music Conference held during 42nd National Congress, 1927; decorated with the title of Ganakala Visarada by the Saraswata Parishat, 1929; presented with a violin and a diamond ring by the citizens of Vishakapatnam under the presidency of Dr. S. Radhakrishnan, 1931; presented with a civic address by Guntur Municipality, 1935; presided over the annual session of the Madras Music Academy and was awarded the title of Sangitha Kalandi, 1941; awarded title of Sangitha Ratnakara and given shawls and gold Royal Insignia by H.H. the Maharaja of Mysore, 1946; presented with a silver casket and a purse of Rs. 55,000 by the Savants of Indian Music in Madras State, 1949; presented a civic reception by Vijayawada Municipality, 1949; awarded honorary Doc-

torate degree of Kala Prapurna by the Andhra Univ. at its convocation, Dec. 9, 1950; won several other awards from prominent personalities in India; has been on the Board of Studies and Board of Examiners in Music, Madras and Andhra Univs. for several years; recipient of President's award for distinction in Carnatic Music (Instrumental) for 1953; Vice-Pres., A. F. Sangeeta Nataka Akademi. Address: Dwaram House, Madras 6.

NAIDU, Gopalaswami Desaiwamy, M.I.S.E., A.S.M.E., M.S.A.E., Industrial Scientist. b. March 23, 1896. Started life as a Cotton Broker; Founder, U.M.S. Transport Co.; inventor of several mechanical devices; travelled round the world six times; member: Zoological Society of India, Prime Movers Panel, State Aid to Industries Board (Madras), American Society of Mechanical Engineers, New York, Society of Automotive Engineers, New York, Board of Technological Education (Madras), Indian Machine-Tool Manufacturers' Assoc., All-India Manufacturers' Organisation; Adviser & Patron, Central Siddha Medical Council, Madras; Adviser, Carbonink-Products, Podanur; U.M.S. Radio Factory; U.M.S. Blade Factory; U.M.S. Works, India Radiators; Cbe. Armature Winding Works, Coimbatore; Pres., South India Centre of the India Society of Engineers (M.I.S.E.); Industrial Labour Welfare Assoc. Ltd., Coimbatore; Director of several Transport Companies in Coimbatore. Clubs: Cosmopolitan Club, Madras and Coimbatore; Lawley Institute, Ooty; South Indian Athletic Assoc. (Madras). Recreations: Gardening, Practical Industrial Education to students. Address: "Gopal Bagh", Avanashi Road, Coimbatore.



NAIDU, M. A. Venkataramana, M.A., B.L., Chairman, Andhra Pradesh Public Service Commission, since 1957. b. Jan. 15, 1900; Educ.: Madras Univ.; Advocate, 1928-42; Legal Adviser to the Corporation of Madras, 1942-43; Judge, Small Causes Court and City Civil Court, Madras, 1943-48; Administrator-General and Official Trustee, Madras, 1948-50; District & Sessions Judge and Chief Presidency Magistrate, Madras, 1950-53; Law Secy., Govt. of Andhra, 1953; Member, Andhra Pradesh Public Service Commission, 1954-56. Address: "Princess Villa", Chirag Ali Lane, Hyderabad.

NAIK, Vasant Rao Phulsing, B.A., LL.B., Minister for Agriculture and Aarey Milk Colony, Govt. of Bombay, since April 1957. b. July 1, 1913, at Gahuli, Yeotmal Dist.; Educ.: Neil City High School, Nagpur; graduated from Morris Coll. now known as Nagpur Mahavidyalaya; passed Law from Univ. Coll. of Law, Nagpur. Was recipient of Social Education Commemoration Certificate; was Pres.: Pusad Municipal Cttee.; Pusad Agricultural Assoc., 1943-47; Pusad Harijan Free Boarding; Dy. Minister in the old M.P. Govt.; has been member, Vidarbha Pradesh Congress; Director, M. P. Co-operative Central Bank, 1951-52; elected M.L.A., M.P. in 1952 General Elections; was Deputy Minister for Revenue, M.P. Ministry; was Chairman, former M.P. Housing Board; was also Dy. Chairman, M.P. Land Reforms Committee; was Chairman, Metric Cttee. appointed by the M.P. Govt.; Minister for Co-operation, Bombay, Nov. 1956-April 1957. Member, A.I.C.C.; Included in the Delegation to the International Rice Commission and F. A. O. meetings at Tokyo (Japan), 1958. Address: "Dunvegun", Mount Pleasant Road, Malabar Hill, Bombay.

NAIK, N. Sreekantam, M.A., Politician and Trade Union Worker; Member, Central Secretariat of the B.S.F.; Secretary, Kerala Committee of the Party; President, All-India United Trades Union Congress. b. July 15, 1915; Educ.: Arts Coll., Trivandrum; passed

M.A., March 1938. Joint Secy., the All Travancore Youth League (1937); joined Travancore State Congress (1938); first arrest and conviction, 1938; detained in 1939 for 19 months; Working Ctee. Member, Trav. State Congress, 1942-46; resigned and joined Congress Socialist Party 1946; resigned from C. S. P. and started the Kerala Socialist Party, Sept. 1947; merged into the Revolutionary Socialist Party, 1950; M.P. (Lok Sabha), 1952-57; General Secy., Revolutionary Socialist Party, 1953-57. *Publications*: *The Chinese Puzzle*—English; several literary and political treatises in Malayalam. *Recreations*: Table Tennis; Cards. *Clubs*: Town Club, Ambalapuzha; Kerala Club, New Delhi. *Address*: Chiraparambu Veedu, Ambalapuzha, Kerala State; *Office*: Revolutionary Socialist Party, Kerala Committee Office, Quilon, Kerala.

NAIR, H. E. Vallikkal Madhathil Madhavan, B.A. (Hons.) (Madras), B.A. (Hons.) (Oxford), M.A. (Cantab.), Bar-at-Law, I.C.S., Indian Ambassador in Cambodia, since 1958. *b.* Oct. 8, 1919; *Educ.*: Board High School, Cherpallcherri; Wardlaw High School, Bellary; B.A. (Hons.) from Presidency Coll., Madras, 1939; B.A. (Hons.) from Brazenose Coll., Oxford, 1941; B.A. (Hons.) from Gonville and Caius Coll., Cambridge, 1942; called to the Bar, Inner Temple, London, 1950. Appointed to the Indian Civil Service, 1942; Asst. Collector, Arrah, Bihar; Sub-Divisional Officer, Sitamarhi, Bihar; under-Secy., Ministry of External Affairs, New Delhi; First Secy., Embassy of India, Cairo; Dy. Secy., Ministry of External Affairs, New Delhi; Deputy High Commissioner and later Acting High Commissioner in Ceylon; Commissioner for India in Singapore; High Commissioner in Malaya. *Recreations*: Tennis; Swimming. *Club*: Gymkhana Club, Madras. *Address*: C/o Ministry of External Affairs, New Delhi.

NAMBOODIRIPAD, E. M. S., Chief Minister, Kerala State, since April 1957; Member, Central Exec. Ctee., C.P.I., *b.* June 14, 1909, *Educ.*: St. Thomas' Coll., Trichur. Left College while in B.A. Class to



join 1932 Civil Disobedience; formed along with others Congress Socialist Party in Kerala, 1934; joined C.P.I. later; Secy., Kerala Provincial Congress, 1935-40; Congress M.L.A., Madras, 1939-40; Member, Central Committee, C.P.I. from 1943; Member, Politbureau, from 1950; Acting Genl. Secretary, June-Dec. 1953, July-Dec. 1954 and 1955-56; elected to the Kerala Leg. Assembly in the General Elections, 1957. *Publications*: Many books in Malayalam and in English; *Short History of Peasant Movement in Kerala*; *Peasant Question in Kerala*; *National Question of Kerala*; *On Agrarian Question*; *Food, Achilles Heel*; *Peasant in National Reconstruction*; *Two Policies on Agrarian Question*; *Social Democracy and Communism*; *On Organisation* (in English). *Address*: Cliff House, Trivandrum, Kerala State.

NANDA, Air Vice-Marshal Diwan Atma Ram, Deputy Chief of the Air Staff, Indian Air Force, since May 1958. *b.* July 27, 1914. Commissioned in the Indian Army, 1935 and posted to the 1st Punjab Regiment. Seconded to the I.A.F. and served with No. 1 I.A.F. Squadron, Sept. 1938; as Flight Commander, formed No. 3 Squadron and subsequently became its Commanding Officer; saw active service on the North West Frontier and successfully carried out operations in Sind against the Huns; was highly commended by the then C-in-C Field Marshal Lord Wavell; had his Staff Coll. training at Quetta; was given after partition command of the I.A.F. Base Repair Depot at Kanpur, the largest maintenance unit in India; appointed Director of Organisation and Establishment at Air HQ; promoted Air Commodore and appointed one of the three Principal Staff Officers at the

re-organised Air HQ as head of the Personnel and Organisation Branch, 1948; Air Officer Commanding, Operational Command, controlling all front-line units in the I.A.F., 1952-56; selected to attend a course at the Imperial Defence Coll., 1956; Air Officer on Special Duty at Air HQ till May 1958. *Address*: Air Headquarters, New Delhi.

NANDA, Gulzar Lal, B.A. (Hons.) in English (1918), M.A., LL.B. (1920), Minister for Labour, Employment & Planning, Govt. of India, since April 1957. Member, National Planning Commission since 1950. *b.* July 4, 1898; *Educ.*: Forman Christian Coll., Lahore, Agra Coll., Agra; Research Scholar, Allahabad Univ. Joined the non-co-operation movement, 1921; Professor of Economics, National Coll., Bombay Parl. Secy., Govt. of Bombay (Labour & Excise), 1937-39; Labour & Housing Minister, Govt. of Bombay, 1946-50; Secy., Textile Labour Association, Ahmedabad, 1922 to 1946; member, National Planning Ctee.; imprisoned for Satyagraha, 1932, 1942-44; Trustee, Kasturba Memorial Trust; Secy., Hindustan Masdoor Sevak Sangh; Chairman, Bombay Housing Board, 1946-48; Chairman, Standing Ctee. of the Ahmedabad Municipality, 1940-42; went to Geneva as a Govt. delegate to the 30th Session of the International Labour Conference in June-July 1947; worked on "Freedom of Association Ctee.", appointed by I.L.C.; visited Sweden, France, Switzerland, Belgium and England and studied the labour and housing conditions there; largely instrumental in organising Indian National Trade Union Congress in May 1947; appointed a substitute Govt. Delegate, Asian Regional Conference, Oct. 1947; elected member, Economic Programme Ctee. of the All-India Congress Ctee.; Leader, Indian Delegation to the Colombo Plan Consultative Ctee., Singapore, 1955; Chairman, Jt. Consultative Board, Labour and Housing Panels; Bharat Sevak Samaj; Advisory Ctee., Bharat Sadhu Samaj; Minister for Planning 1951; Minister for Planning, Irrigation and Power 1952-57. *Publications*: *Some Aspects of Khadi*; *History of Wage Adjustment in the Ahmedabad Textile Industry*; *Approach to the Second Five Year Plan*; *Some Basic Considerations* (Aug. 1955). *Address*: No. 6, Hastings Road, New Delhi.

NANJAPPA, Venkata Subramani Iyer, Capt. A.I.R.O., B.Sc. (Hons.) (Mysore), I.C.S., Joint Secretary, Atomic Energy Dept., since July 1958. *b.* Jan. 26, 1911; *Educ.*: Central Coll., Bangalore; Univ. Coll., London; Jesus Coll., Oxford. Entered I.C.S., 1934; posted as Asst. Collector, Jalgaon, East Khandesh; joined the Army during World War II, 1940-43; Collector and Dist. Magistrate, Nasik and North Kanara districts; appointed Administrator, Kolhapur State, 1948; Joint Commissioner, Cochin-Behar State, 1949-50; Special Commissioner, Telangana, Hyderabad State, 1950-51; Chief Commissioner, Tripura, 1951-55; Textile Commr., 1955-58. *Recreations*: Riding, Tennis, Swimming, etc. *Address*: Old Yacht Club, Bombay 1.

NANJ, Dr. Nemi Ruttonji, B.Sc. (Bombay), Ph.D. (London), B. Pharm. (London), F.R.I.C., F.R.S.A., Managing Director, Itab Private Ltd.; Director, Pharmad Private Ltd. Member, the Pharmacy Council of India and its Vice-Pres.; member, Drugs Technical Advisory Board and Development Council (Drugs and Pharmaceuticals); Pres., Indian Pharmaceutical Assoc. *b.* December 2, 1909; *Educ.*: Institute of Science, Bombay; Imperial Coll. of Science and



Technology, London. *Publications*: Several publications in Chemistry and Biochemistry. *Recreations*: Hockey, Cricket. *Clubs*: W.I.A.A. Club; Willingdon Club; Radio Club; Ripon Club. *Address*: 'Sea View', 13, Pali Hill, Bandra, Bombay 20.

NARAIN, Govind, B.Sc. (Hons.), M.Sc., Chief Secretary, U.P. Govt., since March 3, 1958. *b.* May 5, 1917; *Educ.*: A.P. Mission High School, Mainpuri; Govt. Intermediate Coll., Etawah; Allahabad Univ.; Balliol Coll., Oxford. Joint Magistrate, Faizabad, Jhansi, Allahabad, 1940-44; Commandant, A.R.P. Company, Allahabad; City Magistrate, Allahabad, Addl. Dist. Magistrate, Allahabad, 1944-45; Dist. Magistrate, Farrukhabad, Sub-Div. Officer, Lakhimpur, Dist. Magistrate, Aligarh, Dist. Magistrate, Hamirpur, Dy. Commissioner, Food and Civil Supplies, 1945-47; Dist. Magistrate, Aligarh, Aug. 1947; Home Secy., U.P. Govt., Feb. 1949-March 1951; Adviser-cum-Secy. to H.M. the King of Nepal, March 1951-April 1954; Secy. to U.P. Govt., P.W.D., Power and Information Dept., July 1954-Sept. 1955; Dy. Commr. Commissioner and Secy. to Govt., U.P. Planning; Economic & Statistics and Information Dept., Sept. 1955-Feb. 1958; Chief Secy. and Secy., Information Dept., U.P., since March 3, 1958. *Publications*: Series of 8 talks on Community Development and Five Year Plans. *Recreations*: Reading, Carpentry, Swimming, Hiking. *Clubs*: Boat House Club, Rani Tal, Mohammed Bagh Club, Lucknow. *Address*: 8/1, Vikramaditya Marg, Lucknow, U.P.

NARASIMHAM, Mr. Justice Ramaswamy Lakshmi, M.A. (Madras), B.A. (Hons.) (Oxford), Diploma in Economics (Madras), I.C.S., Chief Justice, Orissa, High Court since March 21, 1956. *b.* Sept. 27, 1906; *Educ.*: Presidency College, Madras and New College, Oxford. Joined the Indian Civil Service, Bihar & Orissa, 1931; after holding various administrative posts, joined the Judiciary, March 1939; officiated as Deputy Secretary, Legislative Department, Govt. of India, May-Sept. 1945; Law Secy. to the Govt. of Orissa, Oct. 1945-June 1948; Judge, Orissa High Court, 1948-56. *Recreations*: Tennis and Bridge. *Club*: Cuttack Club. *Address*: Cuttack.

NARASIMHASWAMY, K. S., Kannada Poet. *b.* 1915. As a student of the Central Coll., Bangalore, was inspired to write verses by the poems of the late Prof. B. M. Srikantha, pioneer of modern Kannada poetry, namely *English Godegala* as well as by Burns' lyrics; wrote his first poem in 1931 which was an invocation to poetry. *Publications*: *Mysore Mallige* (1942); *Irawate* (1945); *Deepada Malli* (1947); *Unguru* (1950); *Iruwantige* (1952); Another collection *Silalatha* is under print. *Address*: Bangalore.

NARAYAN, Jayaprakash, Sarvodaya leader, *b.* Oct. 11, 1902; *Educ.*: Bihar and U.S.A. Founder Secy., Socialist Party (India); Head of Labour Dept., Indian National Congress, 1931; imprisoned on several occasions; was member, Congress Working Ctee.; resigned membership due to difference of opinion with the Congress; Ex-Pres., All-India Railway-men's Federation; made a statement in Oct. 1957 that he had finally renounced politics. *Address*: Kadam Kuan, Patna 3, Bihar.

NARAYAN, Rangapuram Krishnaswamy, B.A. (Mysore), Author; *b.* Oct. 10, 1906; *Educ.*: Christian Coll., Madras; Maharaja's High School and Maharaja's Coll., Mysore; *Publications*: Novels in English:—*Susmita and Friends*, *The Bachelor of Arts*, *The Dark Room*, *The English Teacher*, *An Astrologer's Day*, *Mr. Sampath*, *The Financial Expert*, *Waiting for the Mahatma*, *The Guide*; some of the novels have been republished in the United States and translated into French, German

and other European languages; collections of short stories contributed to important Indian and foreign journals. *Recreations*: Reading, Music, Walking, Travel. *Address*: Yadavagiri, Mysore.

NARAYAN, Shriman, M.A. (English), M.A. (Economics), Member, Planning Commission, since July 1958. *b.* June 15, 1912; *Educ.*: A. P. Mission High School, Mainpuri; Agra Coll., Agra; Univ. of Allahabad. Principal, Commerce Coll., Wardha, 1940-51; Dean, Faculty of Commerce, Nagpur Univ., 1950-58; member: Ex. Cttee., All India Hindustani Talimi Sangh, Sevagram; All India Khadi & Village Industries Commission; Central Advisory Cttee., National Cadet Corps; Trustee, Hindustani Prachar Sabha, Wardha; Chairman: Planning Commission's Prohibition Enquiry Cttee.; Standing Cttee. on Basic Education; General Secretary, Indian National Congress; is a staunch advocate of the establishment of a casteless society; dropped Agarwal from his name as his first contribution towards the establishment of a casteless society; undertook a world tour to propagate Gandhian ideology, 1949. *Publications*: *Fountain of Life (Poems)*; *Gandhian Plan of Economic Development of India*; *Gandhian Constitution for Free India*; *Medium of Instruction*; *The Two Worlds*; *One Week With Vinoba*; *Amar Asha*; *Manav*; *Roti Ka Raag* (Collection of Hindi Poems); *Jugnoo* (Hindi Essays); *Recreations*: Gardening. *Address*: 9, York Road, New Delhi.

NARAYANAN, K. P., M.A. (Madras), Editor, *Madhya Pradesh Chronicle*, English Daily, Bhopal; Representative of the *Hindu* (Madras), at Bhopal. *b.* June 14, 1909; *Educ.*: St. Thomas' Coll., Trichur; Presidency Coll., Madras. Asstt. Editor, 'Insurance Review', Lahore, 1933; Asstt. Editor, 'Daily News', Nagpur, 1935; member, Standing Cttee. of A.I.N.E.C. and of Prov. Press Advisory Cttee. for number of years; former Editor, *Nagpur Times and Journal*; Pres.: Working Journalists Union, M.P., 1952; M.P. Branch of Editors Conference, 1953; member, Railway Users' Consultative Cttee. (Divisional), 1953-56. *Club*: Rotary Club, Bhopal. *Address*: "Bhridayan", Civil Lines, Bhopal.

NARENDRA, Kumar, M.A. (Punjab), Editor, *Daily Pratap*, New Delhi and Jullundur, and *Vir Arjun*, New Delhi. *b.* April 24, 1914; *Educ.*: Govt. Coll., Forman Christian Coll., and Law Coll., Lahore. Joined the *Pratap*, 1939; Hon. Treasurer, Indian and Eastern Newspaper Society. *Recreations*: Music; Tennis. *Address*: 6, Keeling Road, New Delhi.

NAROLA, Dr. Kallias Narain, M.B.B.S. (Bombay), Deputy Minister, Public Health, Govt. of Bombay, since April 12, 1957. *b.* Dec. 12, 1910, at Sirahi; *Educ.*: Maharaja High School and Maharaja's Coll., Jaipur, 1924-30; Grant Medical Coll., Bombay, 1931-36; took M.B.B.S., 1937. Started medical practice, 1938; Congress member, since 1942; Pres.: Uttar Bharatiya Sahyogi Bhandar; Marwari Mitra Mandal; Bharat Sevak Samaj, Kalhadevi Road Branch, Bombay and several other social bodies; Vice-Pres., Hindi Sahitya Sammelan; Rajasthan Ka Kendra etc.; was member: Bombay Municipal Corporation, 1948-52; Bombay Univ. Senate; Ex-Cttee., Rashtra Bhaskar Prachar Samiti; Chief Patron, Young Men's Free Night High School; interested in co-operative movement; member, Prohibition Advisory Board, Bombay Govt.; served on a Special Cttee. of the Bombay Govt. on Hot Springs to develop them into health resorts; re-elected M.L.A., Bombay from Dhobi Talao Constituency in Greater Bombay, 1957; Chairman, Kallias Seva Sadan, Malad. *Recreations*: Football, Hockey, Badminton, Classical Mus. *Club*: National Sports Club of India. *Address*: A-10, Foreshore Road, Bombay 1.

NARPAT SINGH, Raj Kumar, leading sportsman; Assistant Sales Manager, India, B.O.A.C. *b.* Jan. 23, 1923, of the Jodhpur Royal family; *Educ.*: Mayo Coll., Ajmer; represented the Mayo Coll.



at Tennis, Squash and Polo. Joined Jodhpur State Forces Cavalry Unit "Durga Horse", 1945; was also A.D.C. to the Maharaja of Jodhpur; joined Thos. Cook & Son, Ltd., 1949; received extensive training at the Head Office of Cooks in U.K. and offices over the continent; posted at Delhi as incharge of the Air Travel Dept.; joined as Manager, Mercury Travels, Delhi Branch, 1955; has been the national Squash Rackets Champion of India for 11 years; won all the major tournaments in India during that period; has won over hundred trophies in Squash, Tennis and Polo. *Recreations*: Painting; Golf, Pigsticking; Shooting. *Club*: Delhi Gymkhana Club, Delhi; Delhi Golf Club; C.C.I., Bombay; Skat Club, Bombay, etc. *Address*: British Overseas Airways Corporation, Vulcan Insurance Building, Churchgate, Bombay 1.

NASKAR, Puranendu Sekhar, M.A. (History), Deputy Minister for Rehabilitation Govt. of India. *b.* March, 1921; *Educ.*: Calcutta Univ. Elected to the Lok Sabha from W. Bengal (Diamond Harbour Constituency), 1952 and again in 1957; Member, Indian Delegation to U. N. General Assembly, 1954 and 1955; Parliamentary Secy. in the Works, Housing and Supply Ministry, Govt. of India; later Parliamentary Secy. in Rehabilitation Ministry. *Address*: 72, Belegata Main Road, Calcutta 10; New Delhi.

NASKAR, Ram Chandra, Minister-in-Charge of Forests & Fisheries, West Bengal, since April 1947. *b.* Dec. 18, 1890; *Educ.*: Banga's School & Coll., Calcutta. Elected a Commissioner of the Manicktolla Municipality, 1916; after a few years became Councillor, Calcutta Corporation; elected an Alderman, Calcutta Corporation, 1924; became a staunch disciple of Deshbandhu Chittaranjan Das and fully devoted himself to the cause of the country; elected Deputy Mayor, 1938 and Mayor, 1942; elected member, Bengal Leg. Council, 1921-29; elected member, Bengal Leg. Assembly, 1937; again elected in the 1957 General elections; is a social worker; takes active interest in the amelioration of his community; is mainly responsible for great improvement in the condition of allied communities educationally, socially, and politically; is closely connected with many literary and social institutions in and outside Bengal. *Address*: 72, Belegata Main Road, Calcutta 10.

NATEKAR, Nandkumar Mahadeo, B.A. (Econ.), Leading Badminton Player. *b.* May 12, 1933; *Educ.*: Sangli; B.A. Economics from Rula College, 1957-58. India's No. 1 Badminton player for 1953 and 1954; toured England and America and played in all championships, 1954; represented India in Thomas Cup series, 1954-55; Triple Crown holder in the Western India, C.C.I. and Bombay Univ. Badminton Championships; Triple Crown holder again in the Western India, C.C.I. and the Intercollegiate championships, 1956; holder of the Men's Singles in the Selangor open Badminton championships at Kuala Lumpur in Malaya, 1956; Ranked No. 2 in Singles for 1956; during 1957 participated in the 'Merdeka' Championships at Kuala Lumpur; represented India against Thailand at Bangkok; runner-up to Eddy Choong in Singles in the Western India and the C.C.I. Championships and in Mixed Doubles in partnership with Miss Shashi Bhat; Singles winner: C.C.I. Championship, 1958; Western India Championship, 8th year in succession; Men's Doubles with Bopardkar, 1958; W.I.A.A. Bombay State Triple Crown winner. *Address*: 21 A, Sitaram Buildings, Hornby Road, Bombay 1.

NATH, Balleshwar, B.Sc., O.E. (Hons.) M.I.E. (India), Secretary, Central Board of Irrigation & Power, Govt. of India. *b.* March 1, 1911; *Educ.*: Agra Coll., Agra Univ. & Thomason Coll. of Civil Engineering, Roorkee. Has been responsible for the construction of many important works—including the Sarda Hydro-electric Project in Uttar Pradesh; represented India as a delegate in numerous International conferences—particularly the International conference on Irrigation & Drainage at San Francisco, 1957 and International conference on High Dams, at New York, 1958; edits the Journal "Irrigation & Power" & other technical publications issued by the Central Board of Irrigation & Power. *Club*: Rotary Club (Ex-Pres.). *Address*: Secretary, Central Board of Irrigation & Power, New Delhi.

NATH, Prof. Dr. Madhab Chandra, D.Sc., F.N.I., F.B.I.C., F.I.C., Chitnavis Professor & Head of the Department of Biochemistry, Nagpur University, Nagpur, since 1946. *b.* Oct. 1905 at Hashara, Dacca; *Educ.*: Jagannath Intermediate Coll., Dacca; Univ. of Dacca; Lady Tata Memorial Scholar, 1934-37. Lecturer in Physiological Chemistry, Dacca Univ., 1937; awarded Elliot Prize for Chemistry for 1941 by the Royal Asiatic Society of Bengal; elected member of the American Association for the Advancement of Science, Washington, 1948; elected member, Soc. Expt. Biol. and Med., New York, 1950; is connected with several Scientific Societies, Learned Bodies, etc. *Publications*: 107 original papers on various problems of Bio-chemical importance published in India and outside; *Carbohydrate metabolism with special reference to the cause, theory, prevention and treatment of diabetes*; *Biosynthesis of Vitamins*; *Steroids, Enzymes, Nutrition, Lipid Metabolism with special reference to experimental atherosclerosis*, etc., etc. *Address*: Nagpur University, Nagpur.

NATH, Mahendra, General Secretary, Children's Film Society. *b.* Oct. 30, 1928; *Educ.*: Delhi. Founder Secy., Cultural Film Society; started Children's Film Movement under the presidentship of Pt. H. N. Kunzru, 1951; organised four children's film festivals in Delhi and other parts of the country under the Chairmanship of Shrimati Indira Gandhi; studied the reactions of children to films; published the reactions of children to films; published articles in newspapers, specially *The Times of India* and *The Statesman*; gave talks on the A.I.R.; produced children's film 'JALDEEP' which won the first award at the International Film Festival at Venice, 1957; also produced 'Scout Camp', 'Harla', and two short films 'Ganga Ki Lahari' and 'Gulab-Ka Phool'; was member, Cttee. of the International Film Festival of India organised by the Govt. of India, 1951; member, Advisory Panel of Central Board of Film Censors, National Board of Audio-Visual Education in India and of various official and non-official child welfare bodies. *Recreations*: Reading and playing with children. *Address*: Sapru House, New Delhi-1.

NATH, Ram, M.A. (Allahabad), Deputy Governor, Reserve Bank of India. *b.* Nov. 18, 1903; *Educ.*: Allahabad Univ. Joined the State Bank of India, 1925; services transferred to the Reserve Bank of India, 1935; Secy., Reserve Bank of India, 1943-48; M.L.A., Centre, 1946-47; member: first Indian Delegation on Sterling Balances, Jan.-Feb. 1947; Indian Delegation to the Second Annual Conference of the International Monetary Fund and the International Bank for Reconstruction and Development, Sept. 1947; Cttee. appointed by Govt. to report on the application of profit-sharing to Industry, 1948; Managing Dir., Industrial Finance Corporation of India, 1948-51; Pres., Session of the International Credit Conference in Rome, Oct. 1951; member, Company Law Advisory Commission, Jan. 1, 1956. *Recreation*: Walking. *Club*: Calcutta Club; Willingdon Sports Club, Bombay; Delhi Gymkhana Club. *Address*: Reserve Bank of India, Bombay.

NATU, Waman Ramchandra, B.A. (Benares), B.Sc. (Econ.) (Lond.), Chairman, Forward Markets Commission, since 1954. b. Sept. 16, 1910; *Educ.*: B.A. First Class from Benares Univ., 1933; B.Sc. (Econ.) First Class Honours and Banking Prize, London School of Economics, Univ. of London, 1937. Assistant to the Economic Adviser to the Govt. of India, Ministry of Commerce, 1938-39; Bombay Educational Service Class I, Professor of Advanced Banking, Sydenham Coll. of Commerce, Bombay, 1939-44; Economic & Statistical Adviser, Ministry of Food & Agriculture, Govt. of India, 1944-51; Joint Secy. to the Govt. of India, Ministry of Food & Agriculture, 1951; Executive Director for India, International Monetary Fund, Washington, U.S.A., 1951-54. *Publications*: *Burden of the Indian Tariff* (in collaboration with Sir Theodore Gregory), published by the Govt. of India; *Public Administration & Economic Development*, published by the Gokhale Institute of Politics & Economics, Poona. *Recreations*: Dramatics & Literature. *Address*: "Everest", 100, Marine Drive, Bombay-2.

NAWANGAR: Lieut.-General His Highness Maharaja Jam Shree Digvijaysinghi Ramjitsinghi Jadeja, G.C.S.I. (1947), G.C.I.E. (1939), K.O.S.I. (1935), the Maharaja Jamsahab Bahadur, was Rajpramukh of Saurashtra till that State's merger in Bombay on 1st Nov. 1956. b. Sept. 1, 1895; *Educ.*: Rajkumar Coll., Rajkot; Malvern Coll. and Univ. Coll., London. Succeeded to the *Gadi*, April 1933; Chancellor, Chamber of Princes, 1937-44; Capt., late 5th/6th Rajputana (Napier's) Rifles; saw active service with the Egyptian Expeditionary Force, 1920, and with the Wazir Force, Jan. 1922-24; Major, 1936; Colonel, 1942; Lieut.-General, 1949; was elected Rajpramukh or the constitutional head of the United State of Saurashtra, Feb. 15, 1949 and permanent Rajpramukh, 1949; visited the Middle East, 1941; represented Indian Princes on the Imperial War Cabinet and Pacific War Council in London, 1942; Indian delegate at the Annual Sessions of the General Assembly of the U.N.O. at Paris in Sept.-Dec. 1948 and at the 4th Session of the General Assembly of the U.N.O., Flushing Meadows, Lake Success in Sept.-Dec. 1949; again at the 5th Session, 1950; elected member and then Chairman, U.N. Administrative Tribunal at Lake Success, 1950, July-Aug. 1951; at Paris, Dec. 1951; Chairman, Budgetary Cttee., 1950; elected Chairman, U.N. Negotiating Cttee. for Korean Rehabilitation. *Recreations*: Rackets, Cricket, Squash, Tennis, Shooting and Hockey. *Clubs*: Marlborough; Willington Sports Club, Bombay; National Sports Club of India, New Delhi; Jamnagar Rotary Club; Patron-in-Chief: Jamnagar Rifle Club; Summal Sports Club. *Address*: Palace, Jamnagar.

NAYAR, Dr. Sushila, M.B.B.S., M.D., Dr. P.H. M.P. (Lok Sabha) from Jhansi; Minister, former Delhi State; now in active practice of medicine and pediatrics. *Educ.*: Lahore Coll. for Women, Lahore; Lady Hardinge Medical Coll., Delhi, M.B.B.S.; Johns Hopkins in U.S.A. (Baltimore Md.), Dr. P.H.; King Edward Medical Coll., Lahore, M.D. Medical attendant to Mahatma Gandhi and his Ashram; Rural medical work at Sevagram and in Noakhali; Communal Harmony and social work in Noakhali, East-West Punjab and Delhi; Chief Medical Officer, Faridabad; Specialisation in Pediatrics; was Minister for Health, Rehabilitation and Transport, Delhi State; was Speaker, Delhi Legislative Assembly; elected 1st Vice-Chairman, Social Commission of U.N. and Pres., Assoc. of Moral and Social Hygiene in India; Vice-Pres., Bharatiya Gramseva Mahila Sangh; Pres.: S.P.C.A., Delhi; U.N. Assoc., Delhi; Delhi State Council for Child Welfare and some other local organizations. *Publications*: *Kasturba, Karavaa bhakam*. *Recreations*: Painting, writing, etc. *Address*: 19, Rajpur Road, Delhi.

NAYUDAMMA, Dr. Yelavarthy, B.Sc. (Industrial Chemistry) (Benares), M.Sc. Ph.D. (Chemistry) (Lehigh), Director, Central Leather Research Institute, Madras. b. Sept. 10, 1922; *Educ.*: Benares Hindu Univ.; Lehigh Univ. United States. Entered service in the Central Leather Research Institute, 1942; has been actively associated with the planning, design, construction and putting into commission of the various laboratories, the model Tannery and the Pilot Plants; has been conducting and guiding research; actively participated in the Working Party Meeting of the ECAFE on Leather Industry held at the Central Leather Institute, 1957; Conference of the International Society of Leather Trades' Chemists held at Rome, Sept. 1957; Hon. Prof. of Leather Technology, Madras Univ.; member, Univ. Cttee. connected with technological education; is associated with Indian Standards Institution, Leather Export Promotion Council, etc.; is member, Institution of Chemists (India), Society of Leather Trades Chemists, England, etc.; is a Rotarian; member, Board of Directors, Sri Seva Sadan, Madras. *Publications*: Over 100 publications. *Clubs*: Gymkhana Club. *Address*: Central Leather Research Institute, Adyar, Madras 20.

NAYUDU, Mr. Justice Canakapalli Sanjeeva Row, B.A., B.L., Rao Sahib (1941), Judge, Andhra Pradesh High Court, Hyderabad, since March 13, 1958. b. March 8, 1906; *Educ.*: Pachayappa High School, Madras; B.A. from Presidency Coll., Madras, 1920; B.L. from Law Coll., Madras, 1928; Advocate, Madras High Court, since 1929; Senior Advocate, Supreme Court of India; practised in the Supreme Court, 1950-March 11, 1958; Public Prosecutor and Govt. Pleader, Madras State, 1935-43; served as a King's Commissioned Officer during the last war on the Assam Burma front, 1943-45; served in the Judge-Advocate General's Dept., 1945-50; Judge-Advocate, Indian Navy, New Delhi, 1950-1958. *Publications*: *Handbook of Military Law*. *Recreations*: Tennis and gardening. *Clubs*: Delhi Gymkhana Club; Defence Services Club, New Delhi. *Address*: 'Akash', Road 12, Banjara Hills, Hyderabad.

NEHRA, Major-General Rajendra Nath, Director of Ordnance Services, Army Headquarters, since Nov. 1952. b. Oct. 14, 1913; *Educ.*: Prince of Wales Royal Indian Military Coll., Dehra Dun; Royal Military Coll., Sandhurst, England. Commissioned into Indian Army, 1934; attached to 1st Battalion King's Shropshire Light Infantry, 1934; joined 1/14 Punjab Regt., 1935; saw active service in Mohmand operations, 1935 and Waziristan operations, 1937; appointed Instructor Class B in IMA, Dehra Dun, 1940; transferred to Indian Army Ordnance Corps, 1940; appointed Deputy Chief Ordnance officer, 1942; promoted Lt.-Col. as Chief Ordnance officer, Indian Advance Ordnance Depot in operational areas, Oct. 1943; promoted Colonel and appointed Commandant, Central Ordnance Depot, Sept. 1947; promoted Brigadier and took over as B.I.A.O.C., Western Command, 1947; appointed Brigadier in charge Administration, in the same H.Q., Dec. 1949; promoted Major General, Nov. 1956; appointed C.I. Commandant, Army Ordnance Corps, Dec. 1956. *Recreations*: Hockey, tennis and shooting. *Clubs*: Gymkhana Club, New Delhi. *Address*: 7, Kushak Road, New Delhi.

NEHRU, Braj Kumar, B.Sc. (Allahabad), B.Sc. (Kron.) (London), I.C.S., Commissioner General for Economic Affairs, Washington, since 1958. b. Sept. 4, 1909; *Educ.*: Allahabad University; London School of Economics; Balliol College, Oxford; Inner Temple. Joined the I.C.S., 1934; Assistant Commissioner, Punjab, 1934-39; Under-Secretary to the Govt. of India, Dept. of Education, Health and Lands, 1939; Officer on Special Duty, Reserve Bank of India and Under-Secy., Finance Dept., 1940; Dy. Secy., 1944; Joint Secy., 1947; member, U.N. Advisory Cttee. on Administrative and Budgetary Questions,

1951-53. Executive Director, International Bank for Reconstruction & Development, and Minister, Indian Embassy, Washington, 1949-54; Jt. Secy., Dept. of Economic Affairs, 1954-57; Secy., 1957-58; represented India at the Reparations Conference, 1945, Commonwealth Finance Ministers' Conference, 1949-50, 1955-56, 1958, United Nations General Assembly, 1949-52, Food & Agricultural Organisation, 1949-50, Sterling Balance Conference, 1947-48-49 and at the Bandung Conference, 1955; deputed to enquire into Australian Federal Finance, 1946; and to advise the Govt. of the Sudan, 1955. *Recreations*: Bridge, Reading and Conversation. *Club*: Delhi Gymkhana. *Address*: Washington.

NEHRU, Jawaharlal, M.A. (Cantab.), Bar at Law, Bharat Ratna (1954), Prime Minister of India and Minister for External Affairs, since 1947; in charge of Department of Atomic Energy; Defence Minister, 1953, 1954 and 1957; Finance Minister, February to March 1958. b. Nov. 14, 1889, at Allahabad; *Educ.*: Harrow School; Trinity Coll., Cambridge (M.A.); Barrister-at-Law, Inner Temple, 1912. Advocate, Allahabad High Court; Secy. Home Rule League, Allahabad, 1918; member, A.I.C.C., since 1918; joined non-violent non-co-operation movement under Gandhiji, 1920; associated with labour and nationalist movements; imprisoned on several occasions for political activities; General Secy., A.I.C.C., 1929; elected and took over from his father as Pres., Indian National Congress, 1929; re-elected Pres., in 1930, 1937, 1946, 1951-54; Pres., All India States Peoples' Conference and Chairman, National Planning Cttee., 1939; Vice-Pres., Interim Govt. and Minister for External Affairs and Commonwealth Relations, India, 1946; Member, Constituent Assembly, Provisional Parliament and first Lok Sabha; elected to the Lok Sabha on Congress ticket from Phulpur Constituency, Uttar Pradesh, 1957. *Publications*: *India and the World: The Unity of India: Soviet Russia: Eighteen Months in India, 1936: Autobiography, 1936: Glimpses of World History, 1939: Discovery of India, 1946: Independence and After: Jawaharlal Nehru's Speeches, 1949-53. Address: Prime Minister's House, New Delhi; Permanent Address: "Anand Bhavan," Allahabad.*



NEHRU, Shrimati Rameshwari, Padma Bhushan (1956), President, Afro-Asian Solidarity Committee of India; Hon. Adviser and President, Central Advisory Board for Rehabilitation, Central Ministry of Rehabilitation. b. 1886; *Educ.*: Privately. Edited Women's Magazine *Stridhara* from 1909; Founder-President, Delhi Women's League, 1926; Member, Ago of Consent Cttee., 1928; toured England and Continent, 1930-32 and collaborated with League of Nations at Geneva, 1931; President, All-India Women's Conference, 1940; Vice-President, Kasturba Gandhi National Memorial Trust; Pres., The Assoc. for Moral & Social Hygiene in India; led the Indian Delegation to an ad hoc Conference convened at Stockholm, June 1954, for promoting relaxation of international tension; presided over a non-official African-Asian Conference held in New Delhi; led a non-official delegation to the World Conference, against A. & H. Bombs and for disarmament at Tokyo, August 1957; toured China as the leader of a delegation sent by the Afro-Asian Solidarity Committee; Leader, Indian delegation to the Conference at Cairo for the ban of A. & H. Bomb tests, Jan. 1958, Disarmament Congress at Stockholm, July 1958 and representative of the Disarmament Congress to the Secretary General of the U.N. Assembly at New York in Aug. 1958. *Publications*: *Gandhi is my Star* collection of speeches and writings, edited by Prof. Somnath Dhar. *Recreation*: Work. *Address*: 8, Lodi Road Estate, Cornwalls Road, New Delhi.

MEHRU, Ratan Kumar, B.A. (Oxon.), Indian Ambassador to the United Arab Republic and Envoy Extraordinary & Minister Plenipotentiary to Lebanon and Libya, since May 1954; *b. Oct. 10, 1902; Educ.*: Allahabad and Oxford. Joined I.C.S., 1925; Dy. Commr., M.P.; Deputy Secretary to Govt. of India; Collr. of Customs, Bombay (1936); Commissioner, Central Excises, Northern India (1939-42); Joint Secretary, Supply and Commerce (1942-46); Leader, Indian Delegation to International Trade Conference, London (1946); Representative on U.N. Commissions (1947); Additional Secy., Finance (1947); Chairman, C.B.R. (1947); Secretary, Communications Ministry (1947); Minister in Washington (1948); Ambassador of India, Envoy Extraordinary and Minister Plenipotentiary of India in Sweden, Finland and Denmark till Sept. 1951; Delegate to 6th Session of U.N. General Assembly; was Foreign Secretary, Govt. of India; Ambassador to China, Oct. 1955-May 1958. *Recreations*: Hiking, Tennis. *Clubs*: International Club, Stockholm and Peking, and Gymkhana Club, Delhi; Seairah Club, Cairo. *Address*: C/o External Affairs Ministry, New Delhi.

NEOG, Dr. Maheswar, B.A. Hons. (English) (Calcutta), M.A. First Class (Calcutta), D. Phil. (Gauhati), Poet, essayist, art and literary critic; Reader in Postgraduate Deptt. of Assamese Language and Literature, Gauhati Univ., since July 1957; *b. 1918; Educ.*: Silsagar, North Lakhimpur and Jorhat Govt. High English Schools; Gauhati Cotton Coll. Editor, *Ramdhenu*, 1950-51; *Jhankar, music journal*, 1953-54; member: Assam Sahitya Sabha; Ex. Board and General Council of Assam Sangit Natak Academy; Govt. of Assam's nominee on the General Council of the Central Sangeet Natak Akademi; member, the Central Sahitya Akademi; Expert Advisory Cttee. on dances, Central Sangeet Natak Akademi; Secy., Music and Dance Research Cttee. of the Assam Academy; is associated with several research institutes in India and the All India Oriental Conference; Lecturer, Postgraduate Deptt. of Assamese Language & Literature, Gauhati Univ., 1948-57; Leader, Gauhati Univ. Contingent to all the 1st four Inter-Univ. Youth Festival, New Delhi, 1954-57; Editor and compiler of anthologies of Assamese poetry and folk songs. *Publications*: *Sankaradewa* (literary biography); *Dawarar Sipara Dhuniya Deu* (stories of Greeks & Rome for children); *Sankaradewa and His Predecessors* (in English); critical editions of old Assamese texts, *Bhakti-pradipa*, *Kirtana-ghosha*, etc.; *Samaj Aru Sonkriti*; *Asamiya Gitisahitya*; contributes to leading research journals. *Address*: Gauhati University, Gauhati (Assam).

NEPALI, Gopal Singh, Hindi Poet and Film Song Writer. b. Nov. 17, 1919; Educ.: Bettiah Raj Institution, Dist. Champaran, North Bihar. Joint Editor, *Chitrapat*, Hindi Weekly, Delhi (1934); Editor, *Ratnam Times*, Ratlam (1934-37); Editor, *Yogi*, Hindi Weekly, Patna (1937-39); Manager, Bettiah Raj Press, Champaran (1939-43); Song Writer, Film Industry, since 1944; composed songs for 50 pictures. *Publications*: *Panchhi*, *Umang*, *Rasini*, *Neelima*, *Panchmi* and *Navin* (all poems). *Recreations*: Football. *Address*: Chincholi, P.O. Malad, Bombay 46.

NICHOLS-ROY, The Rev. James, Joy Mehm, B.A., Ph.D., D.D., M.D.C., M.L.A., Ex-Minister, Ex-Isle, Jails, Registration and Stamps, Assam Govt.; Christian Missionary. *b. June 12, 1884 at Shella, Khail Hill, Assam; Educ.*: Duff Coll., Calcutta. Member, Assam Leg. Council, 1921-36; M.L.A., 1937-55; Minister, Assam, 1927-29, 1937-38, 1946-50, 1952-56; Chairman, Assam Opium Enquiry Cttee., 1934; Member, A.I.C.C., 1946-47; has travelled widely in Singapore, Japan, China, U.S.A., Canada, South Africa, South America, Australia, etc., 1913-15 & 1943-45; Member of the Constituent Assembly, 1946-50; Deputy Leader, Congress Legislature Party in Assam in 1950 and 1951; re-elected to the

Assam Leg. Assembly from the Shillong Constituency in the general elections, 1952; has been responsible, as Minister, for the passing of the Assam Liquor Prohibition Act, 1953; Resigned from the Ministry on 15th Nov. 1956 and from the Congress in Jan. 1957; and re-elected to the Assembly as an independent in the general elections, 1957; elected member, District Council of the United Khas-Jaintia Hills, Feb. 1958. *Publications*: *Speech on Christianity*; *Hours with Jesus Christ*; *Life of Christ*; *Clarion Call to Christian Unity*; *Christian Unity*; *Hill Districts of Assam*; *Speech on the British Cabinet Mission Declaration*; *Ownership of Minerals in the Autonomous Districts in Assam, etc., etc.* *Address*: Shillong, Assam.

NIGAM, Mr. Justice Bishan Narain, M.A., LL.B., Judge, High Court, Allahabad (Lucknow Bench), Lucknow, since 1958; *b. April 4, 1906. Educ.*: Govt. High School, Kanpur (1914-22); Christ Church Coll., Kanpur (1922-21); Allahabad Univ. (1924-29); M.A., 1928 and LL.B., 1929; School of Oriental Studies, London (1929-31). Passed the I.C.S. competitive examination in India (1929) and was ranked 6th; Asstt. Magistrate, Banaras and Nainital (1931-33); Joint Magistrate, Bahraich, Gonda and Barabanki (1933-37); Dy. Commissioner, Barabanki, 1937; Civil and Sessions Judge, Bareilly, 1937-39; Dist. and Sessions Judge, Farrukhabad, Sitapur, Banaras and Meerut, 1939-49; member: Election Tribunal, 1946-47; U.P. Administrative Tribunal, 1949-50; Dist. and Sessions Judge, Bareilly (1950); Registrar, High Court of Judicature and Member, U.P. Administrative Tribunal, 1951-52; Judicial Commissioner, State of Ajmer (1952-56); Dist. and Sessions Judge, Agra, Lucknow (1956-57); appointed Addl. Judge, High Court (Nov. 1957); appointed Chairman, Mohri Railway Accident Enquiry Commission (1958). *Address*: 39, Butlerganj, Lucknow.

NIJALINGAPPA, Siddavvanahalli, B.A., LL.B., Ex-Chief Minister, Mysore; ex-President, Karnatak Pradesh Congress Committee. *b. Dec. 10, 1902; Educ.*: Davangere, Chitradurga, Bangalore and Poona. Enrolled as Advocate of the Mysore High Court, 1926; convicted for political offence, 1939; debarred from practice, 1940; political detainee, 1942-44 and 1947; member, Mysore Congress Working Cttee., 1939-51; Pres., Mysore Pradesh Congress Cttee., 1945-46; K.P.C.C., 1946-54; member, Working Cttee. of Parliamentary Board, Indian National Congress, and also of Working Cttee., I.N.C., 1948-53; Constituent Assembly, and provisional parliament, 1946-52; member: Parliament, 1952-56; Mysore Constituent Assembly, 1948-50; elected Leader, the Vishala Mysore Legislative Congress Party, Oct. 21, 1956; Chief Minister, Mysore State, Nov. 1, 1956-May 8, 1958. *Recreations*: Tennis. *Address*: Venkateshpura, Chitradurga.

NIJHAWAN, Bal Raj, B.Sc. (Met.) (Banaras), Ph.D. (Met.) (England), F.I.M. (Lond.), F.N.I., Padma Shri (Jan. 26, 1958), Director, National Metallurgical Laboratory, Jamshedpur, since March 8, 1957; Ag. Dir., Feb. 1956-March 1957; *b. Sept. 22, 1915; Educ.*: Punjab, Banaras and Sheffield (England). Joined the National Metallurgical Laboratory, Jamshedpur as Asstt. Director, March 1948; appointed Deputy Director, 1953; toured U.K. and the Continent on U.N. Fellowship, 1951; went to Australia as Govt. of India delegate to attend the Australasian Institute of Mining and Metallurgy, 1953; Chairman, Cttee. on 'Indigenous Foundry Moulding Sands' of the Indian Institute of Foundrymen; Vice-Pres., S.M.D.C. of Indian Standards Institution. *Publications*: About 100 research and technical review papers on metallurgical research and industrial subjects either singly or jointly; author of several patents on metallurgical subjects including nickel-free austenitic chromium-manganese and nitrogen stainless steels. *Address*: National Metallurgical Laboratory, Jamshedpur.

NIJAKANTAN, V., B.E., Managing Director, Sindri Fertilizers and Chemicals Private Ltd. *b. Sept. 9, 1902; Educ.*: Trivandrum and Engineering Coll., Madras; took B.E. degree, 1925. Joined the G.I.P. Railway, on the Transport and Traffic side, 1926; worked in various positions both at the Headquarters and in the Divisions; Dy. Director (Establishment), Rly. Board, 1940-44; Dy. General Manager (Personnel), G.I.P. Rly., 1944-46; rejoined the Rly. Board as Secy., 1946; member (Refugees), Rly. Board, in charge of heavy refugees movement by train from West Pakistan into India, Sept.-Dec. 1947; General Manager, East Indian Rly., 1947-49; brought about many improvements in the railway communications at the time; Member (Staff), Rly. Board, 1949-54. *Address*: Managing Director, Sindri Fertilizers and Chemicals Private Ltd., Sindri, Dist. Dhanbad.

NIJAKANTE, Lady Vidyagauri, B.A. (Bombay), D.Lit. (S.N.D.T. Women's Univ.), Social Worker. *b. June 1, 1876; Educ.*: Gujarat Coll., Ahmedabad; graduated, 1901; was the first lady graduate of Gujarat. Has been doing social work, since 1901; elected Pres., All India Women's Conference, 1932; Gujarati Sahitya Parishad, 1943; twice elected member, Ahmedabad Municipality; elected Chairman, Municipal Schools Cttee. for six years and Vice-Pres., 1931-33; Office-bearer: Gujarat Vidya Sabha; Gujarat Ladies Club; Mahipatram Orphanage; Victoria Jubilee Hospital; S.N.D.T. Univ. Coll.; Diwajibai, Maganbhai and Ranchhodai Girls' Schools and numerous other institutions for more than a quarter of a century; relinquished title of M.B.E. in 1930 as a protest against atrocities on women 'Satyagrahis'; conferred D.Lit. by S.N.D.T. Univ., on completion of her 80th year and 56 years after graduation, 1957. *Publications*: *Sudhaharini*; *Hindustan-na Jiranna Strinu Sthan*; *Hasayamandir*; *Forum*, Nari Kunj, Gnyana Sudha. *Address*: Laldarwaja, Ahmedabad 1.

NIMBKA, Mrs. Kamala Vishnu, B.A. (Columbia), F.T.C. (Frederick Union) (London), O.T.R. (American Occupational Therapy Association), J.P., and Hon. Presidency Magistrate, Social Worker in the field of Occupational Therapy and Rehabilitation of the Handicapped. b. Jan. 6, 1900. Educ.: George School (Quaker Prep. School), Drexel Institute (Phila.); Barnard Coll. of Columbia Univ.; Selly Oak Coll. (Birmingham, Eng.); Phila. School of Occupational Therapy. Statistician in various American organisations, 1920-23 and 1926-30; organised Kindergartens and developed a full Secondary School in Khar, 1934-42; Standing Cttee. Member: for Health, All India Women's Conference, 1942-45; for Handicapped Children, A.I.W.C., 1950-58; Hon. Director, Occupational Therapy Training School and Centre, King Edward VIII Memorial Hospital, Parol, Bombay, 1950-57; member: National Advisory Council for the Education of the Handicapped, Ministry of Education, Govt. of India, since 1955; Standing Cttee., Cttee. for Orthopaedically Handicapped and Cttee. for Mentally Defective, since 1955; Pres., All India Occupational Therapists' Association, since 1952; Advisor to the Govt. of Bombay, Local Self Govt. and Health Deptt. for Nagpur School of Occupational Therapy since 1958; Editor, *Indian Journal of Occupational Therapy*, since 1955; Chairman, The Society for the Welfare of the Physically Handicapped, Poona, since 1958; Chairman, Library Cttee., Khar Residents' Assoc.—Kamalabai V. Nimbkar Pustakalaya, Khar, since 1947; Representative and delegate of the Govt. of India, Ministry of Health, to Seminar on Rehabilitation for Asia and the Far East, Solo, Indonesia, Aug.-Sept. 1957. *Publications*: *Service for the Disabled and Handicapped—Roohi* (All India Women's Conference), December 1955; *Occupational Therapy for Medical Conditions*—'Journal of the Indian Medical Profession, 1956', and

What the Doctor should expect of an Occupational Therapist—Proceedings of the Fourteenth Tuberculosis Workers' Conference, Jan 1958, and several other articles in journals *Recreations*. Needlework, Weaving, Stamp Collecting. Address The Amerind, 15th Road, Khar, Bombay 21.

NIMSEKAR, Vishnu, B.Sc., M.E. (N.Y. Univ.), M.A. & M.E. (U.S.A.), A.M.I. Mech.E. (London), A.I.Loc.E. (London) b June 25, 1900, Educ. Deccan Coll., Poona, New York Univ., N.Y., U.S.A. and Columbia Univ., N.Y., U.S.A.



Employed in Foreign Trade Department, Chicago Pneumatic Tool Co., New York, 1927-29, Asst. Engineer, Consolidated Pneumatic Tool Co. Ltd., Glasgow, Scotland, 1929, Service Engineer, Consolidated Pneumatic Tool Co. Ltd., Bombay, 1929-32, Manager for Bombay, 1932-34, Acting General Manager for India, 1939-42 and apptd. Resident General Manager, 1943, General Manager, 1945, General Manager, India & Pakistan, 1948-57, retired, Oct 1, 1957, Managing Director, Consolidated Pneumatic Tool Co. (India) Private, Ltd., 1957-58, Justice of the Peace and Hon. Presidency Magistrate, 1958, Director: Mineral Mining Co. Pt. Ltd., Madras, Bombay Pottery and Tiles Co., Ltd., Bombay, Korla Rubber Co., Pt. Ltd., Bombay, Ogale Glass Works Ltd., Ogalewadi, Fuel Injections Ltd., Bombay, Kurlskar Oil Engines Ltd., Poona, Bemco Eng. Products Pt. Ltd., Belgum, Southern Standards Ltd., Madras, Managing Director, Hindustan Mineral Products Pt. Ltd., Bombay (Club), Willington and National Sports, Bombay, Roshanara New Delhi, Mysore Sports Club, Mysore, Century Club, Bangalore, Calcutta Club, Calcutta, *Hobbies*: Gardening, small scale industries, Educational, medical and social work. Address 'Amerind', 15th Road, Khar, Bombay 21.

NOEL-TOD, Geoffrey Noel, M.A. (Cantab.) O.B.E. (Mily), Chairman, Parry & Co., Ltd., The Travancore Sugars and Chemicals Ltd. b Sept 8 1908, Educ. Uppingham School, Cambridge Univ., England, United Africa Co., Ltd., Nigeria, 1930-31, Metropolitan Police, London, 1932, Parry & Co., Ltd., Madras, since 1933, served in Indian Army, First Punjab Regiment, 1940-45, reaching rank of Lt.-Col., awarded the O.B.E. for services in Burma, Vice Chairman and Managing Director, East India Distilleries & Sugar Factories Ltd., Director: The Deccan Sugar & Abkhari Co., Ltd., Cauvery Sugars & Chemicals Ltd., Parrys Confectionery Ltd. and several other companies. *Recreations*: Golf, Fishing, Bridge, Philately. *Clubs*: Madras Club, East India and Sports Club, London. Address: c/o Parry & Co., Ltd., "Dare House", Madras 1.

NOPANT, Rameshwarlal, Millowner and Merchant b in 1902 at Calcutta, Educ. Scottish Church College, Calcutta. Partner. Messrs. Daulatram Rawat-mull and Daulatram Rameshwarlal, Calcutta and Bombay; Director: Shree Hanuman Sugar Mills Ltd., Mewar Sugar Mills Ltd., North Bihar Sugar Mills Ltd., Belund Sugar Co., Ltd., Naskarpura Jute Mills Ltd., Hind Mills Ltd., United Commercial Bank Ltd., Ruby General Insurance Co. Ltd., and several other industrial and commercial concerns. Member: Indian Central Sugarcane Cttee. (1944-53); Indian Central Oil-seeds Cttee. (1947-53); Indian Chamber of Commerce, Calcutta; Indian Sugar Mills Assoc., Calcutta,



etc., Pres. Indian Chamber of Commerce (1942-43), Indian Hemp Association (1941-43); Indian Sugar Mills Association (1940-41); Hon. Treasurer, Federation of Indian Chambers of Commerce and Industry (1933-34), takes active interest in social work, has founded Charitable Trusts and Institutions for social and educational uplift and medical relief. Address: 178, Mahatma Gandhi Road, Calcutta 7.

NORGAY, Sherpa Tenzing, Padma Bhushan (1959), Mountaineer, Director, Himalayan Institute of Mountaineering, Darjeeling b 1914, in Solo Khumboo village, Eastern Nepal. Had a natural love for mountains early in his childhood. began life as a porter attached to party of mountaineers at Darjeeling, participated in expeditions. has taken part in more Everest expeditions than any other person, first visited Everest as a youth of 21 when he accompanied Shipton's Reconnaissance Party, 1935, participated in the expedition under Rutledge, 1936, went with Tilim's party where he earned a name for himself, reached a height of 28,210 ft. with Raymond Lambert, May 24, 1952, conquered the summit of Mount Everest with the New Zealand mountaineer Sir Edmund Hillary under the leadership of Sir John Hunt of the British Expedition, May 29, 1953, presented by the King of Nepal with the Star of Nepal 1st Class, June 1953, awarded George Medal by Queen Elizabeth, awarded Iran's highest sports medal by the Shah of Iran, presented with a special gold medal by Dr. Rajendra Prasad, President of India for extraordinary courage and heroism in the Everest Expedition, awarded the U.S. Hubbard Medal, the medal of the National Geographical Society of America, March 16, 1954. Address: Darjeeling, West Bengal.

NORRIS, Eric George, B.A. (Hons.) (Cantab.), Deputy High Commissioner for the United Kingdom, Bombay, since Nov. 1957. b March 14, 1918, Educ. Hertford Grammar School & St. Catharine's Coll., Cambridge, B.A. (Hons.) (Cantab.), 1939. Service in Army 1939-40, entered Dominions Office, 1946, Office of U.K. Representative in Dublin, Feb 1948 to Sept 1950, Office of U.K. High Commissioner in Pakistan, 1952-55, Counselor, Office of High Commissioner for U.K., New Delhi, 1956. *Recreations*: Golf & Sailing. *Clubs*: Willington, Bombay Club, Royal Bombay Yacht Club, Delhi Golf Club. Address: 2, Mount Pleasant Rd., Bombay 6.

OAK, Mr. Justice Vidyadhar Govind, B.Sc. (Hons.), LL.B., Judge, High Court, Allahabad, since March 1955 b May 18, 1909, Educ. Jaipur, Indore, Allahabad, passed B.Sc. (Hons.), 1929. Joined Indian Civil Service, 1931, served in U.P. as Joint Magistrate and as District Judge. *Recreations*: Music, Bridge. Address: High Court, Allahabad.

OLAV, His Excellency Hans, Grand Cross Finland's Lion Order (1958), Comdr. Sweden's North Star (1952), Denmark's Dannebrog (1951), Knight of St. Olav (1939), medal of St. Olav (1939) Norwegian Ambassador in India, since 1958, also accredited as Norway's Envoy to Ceylon and Burma b May 12 1903, Educ. Stavanger Junior Coll. and Oslo Univ. Journalist, 1926-40, Roving Correspondent, foreign countries, Editor, *Nordisk Tidende*, New York, Press Attache with King Olav, 1939, Chief of Norway's Information Service, Washington, D.C., 1940. Counselor of Embassy in Washington, 1942-49, Director of Dept. of Public Affairs, Foreign Ministry, Oslo, 1949-53; Minister to Finland, 1953; Ambassador to Finland, 1954-58. *Publications*: *With the Crown Prince in America*, 1939, several documentary books on Norway during the war, 1940-45. *Recreations*: Painting, Reading, Fishing, Mountaineering. *Clubs*: Delhi Gymkhana Club, Delhi Golf Club. Address: Royal Norwegian Embassy, New Delhi.

OLIVARES y BRUGUERA, Luis De, Count de Artaza, B.A., Doctorate in Law, Ambassador of Spain in India, since Aug 21, 1956. b March 22, 1894, Educ. in Spain. Diplomatic Attache to the Spanish Embassy in Berlin, Jan 18, 1917 and to the Spanish Embassy in London, Jan 21, 1919; 3rd Secy., Spanish Embassy in London, Dec 17, 1919, Third Secy., Spanish Ministry of External Affairs, March 28, 1921; Second Secy. to the Holy See Embassy near the Holy See, Nov 14, 1922; First Secy., Consul in Bombay, March 1, 1929, First Secy., Spanish Ministry of External Affairs, April 1, 1932, First Secy. to the Spanish Embassy, Washington, Jan 1, 1933; Sub-Agent-in-Charge of the Consulate in Southampton, Feb. 22, 1938, (Charge d'Affaires in Riga, April 26, 1939, Consul at New Castle and Cardiff, April 30, 1940 to June 9, 1943, Minister in La Astunclon, June 21, 1943; Minister at External Affairs, Oct. 14, 1943, Minister in Dublin, May 28, 1945, Director General for Philippines and Far East at External Affairs, Nov 5, 1947, Consul-General in London, Feb 19, 1949, Minister Counsellor to the Spanish Embassy, London, March 5, 1951; awarded Grand Cross of the Civil Merit, Commander of the Order of Isabel of Spain and of Charles the Third and San Gregorio, Plans of the Holy See, and other distinctions of Belgium, Portugal, etc. *Recreations*: Hunting, Tennis, Golf, etc. *Clubs*: Gymkhana Club. Address: Spanish Embassy, 12, Prithviraj Road, New Delhi.

OSTROG, His Excellency Count Stanislas, French Ambassador in India, since 1951. b May 20, 1907, Educ. Paris and London. Attache in Peking, 1927-30, Secy. in Ankara, 1930-33, Paris, 1933-35, Beyrouth and Damascus, 1935-39, Moscow, 1939-40, France, 1940-42, Algiers, 1943, Beyrouth, 1943-46, New York, 1946, Minister and Ambassador, Dublin, 1947-51. Address: 16, Harding Avenue, New Delhi.

OZE, Keshavlal Karsanji, B.A. (Hons.), LL.B. Ex-Deputy Collector (Gharkhed), Zalawad District b December 9, 1895; Educ.: Wankar High School; Bahadur College, Junagadh; and Government Law School, Bombay. Practised as a Pleader in Junagadh State, 1921-22; Sarnayayadhi, Lakhtar State, 1922-27; Treasury Officer, Wankar State, 1927-31 and 1941; Dewan, Lathi State, 1931-33; Dewan, Mansa State (Mahikant), 1938-41; Dewan, Vala State, 1943-48, was elected President, Executive Committee of the 11th "Gujarati Sahitya Parishad" convened at Lathi under the Presidentship of late Dewan Bahadur Jhaveri Krihmal Mohanlal, retired Chief Judge, Court of Small Causes, Bombay; on integration of Kathiawar States into the United State of Saurashtra, was first appointed as Officer-in-Charge, Muli and Sayla; District Treasury Officer, Zalawad and Dy. Collector (Gharkhed), Zalawad; retired from Govt. service, March 2, 1953. Address: Valabhipur, Gohilwad Dist., Bombay State.



PADMANABHAN, Mannath, Social Worker. Founder, the Nair Service Society, Kerala b. in Changanacherry, Jan 5, 1877; Educ. Has had only primary education at Changanacherry. Teacher in primary school, 1893-1903, practised as Vakil, 1903-13, then took up social work; founded the Nair Service Society, mainly to promote education—on the model of the servants of India Society, 1915; formed the Kerala Vimochana Samara Samiti, a body that led the agitation against the Communist Government in Kerala, 1959. *Publications*: Six books in Malayalam. Address: Changanacherry.

PAI, Annamabai Vittal, B.A., I.C.S., C.I.E. (1946), O.B.E. (1939), Secretary to the President of India, since Jan. 15, 1958. *b.* Oct. 11, 1901; *Educ.*: Presy. Coll., Madras and Wadham Coll., Oxford. Asst. Collector, North Arcot Dt., Madras, 1926-27; Sub-Collector, Palghat and Kumbakonam, 1928-30; Under-Secy., Govt. of Madras, Public Works and Labour Depts., 1931-34; Addl. Dt. Mgte., Tanjore, 1936; Agent of the Govt. of India in Ceylon, 1936-40; Dy. Secy. to the Govt. of India, Dept. of Indian Overseas, 1941-44; nominated Official member of the Council of State, 1942, and nominated Official member of the Leg. Assembly, 1943; Joint Secy. to Govt. of India, Commonwealth Relations Dept., and Controller-Genl. of Emigration, 1944-47; Minister-Counsellor, Indian Embassy, Moscow, 1947-48; Principal Private Secy. to the Prime Minister of India, 1948-50; Secy., Ministry of Communications, 1950-53; Secy., Ministry of Home Affairs, March 1953-Jan. 1958. *Address*: President's Secretariat, New Delhi.

PAI, Mangalore Govind, B.A. (Madras), Kannada Writer. *b.* March 23, 1883; *Educ.*: Primary School, Manjeshwar; Basel Mission High School and Manara High School, Mangalore; Govt. Coll., Mangalore; Christian Coll., Madras; B.A. with 1st Class in English, 1906. Introduced changes in the method of writing verses in Kannada as in the European sonnet; coined new words by introducing foreign words into Kannada language; nominated Kannada Poet Laureate of Madras State, 1948-53. *Publications*: *Verne libre* (1911); contributed several research articles in English and Kannada to periodicals; Books: *Gill-rindu*, a collection of lyrics and other poems (1930); *Golgotha*, or the last day of Jesus Christ (1936); *Hebburulu*, a one Act drama (1946); *Vaishakhi* or the last day of Buddha (1947); *Jina Gomada Stuti*, a short poem of 35 verses (1928). *Recreations*: Walking. *Address*: Manjeshwar, Kerala.

PAI, Mangalore Parashottam, B.A. (Madras), B.A. (Hons.) (London), I.C.S., Chief Secretary, Andhra Pradesh Govt., since May 20, 1957. *b.* December 1, 1906; *Educ.*: Madras, London and Oxford. Controller of Office, Indian Coffee Board, 1940-42; Provincial Textile Commissioner, Madras, 1942; Controller of Supplies, S. 1. Circle, Govt. of India, 1942-45; Joint Secy., Ministry of Industry & Supply, 1946-49; Jt. Secy., Ministry of Works and Supply, 1949-52; officiated as Managing Dir., Sindri Fertilisers and Chemicals Ltd., April-July 1952 and Feb.-Sept. 1953; Jt. Secy., Ministry of Production, Govt. of India, 1952-53; Member, Board of Revenue, Andhra, Oct. 1953 to Oct. 1956, and of Andhra Pradesh, 1st Nov. 1956 to May 19, 1957. *Club*: Delhi Gymkhana. *Address*: Hyderabad.

PAKVASA, Mangaldas Manchharam, Vice-Chairman, Central Board of Directors, State Bank of India; Acting Governor, Bombay, Dec. 1954-March 1956. *b.* May 7, 1882; *Educ.*: Elphinstone High School and Elphinstone College, Bombay; some time Dakshina Fellow, Elphinstone College, and won Dhirajlal Mathuradas Scholarship in LL.B. Solicitor for thirty years; was in jail 14 months in connection with the 1932 Satyagraha, 12 months in 1940 and 17 months in 1942-43; went on a world tour and visited Italy, Switzerland, France, Belgium, Germany, Austria, Hungary, England, America, Japan and China, 1935; as Solicitor for the All-India Spinners' Assoc. helped in saving income-tax, and fought up to the Privy Council when it was decided that that body was not liable to income-tax; was the Chairman of Bombay City Adult Education Cttee., Bombay Historical Society, Hindustan Scout Assoc., etc.; President, Bombay Legislative Council from July 1937 to 14th August 1947; was Governor of M.P.; acted as Governor of Mysore, 1959. *Address*: 20, Doongersey Road, Malabar Hill, Bombay 6.

PAL, Benjamin Peary, M.Sc., Ph.D. (Cantab.), F.L.S., F.B.S., F.N.I. (Padma Shri, 1958), Director, Indian Agricultural Research Institute, New Delhi, since 1950. *b.* May 26, 1906;

Educ.: Rangoon University (1924-29); Cambridge Univ., Downing College (1929-32). Joined the Indian Agricultural Research Institute, 1933; appointed Director, 1950; President, Botany Section of the Indian Science Congress (1945-48); Indian Society of Genetics and Plant Breeding (1947-48); member, Agricultural Mission to China (1944); member, Indian Scientific Delegation to Australia (1949); Pres., Indian Botanical Society, 1950; Vice-President, All-India Fine Arts and Crafts Society; Leader, Indian Delegation to the VIIIth International Congress of Botany in Paris, 1954; Secy., National Institute of Sciences of India, 1954-56; Pres., Agricultural Sciences Section, Indian Science Congress, 1954; official Delegate to the International Genetics Symposia, Japan, 1956; Member of Council, Indian Science Congress Assoc., 1956; Hon. Member, Genetics Society of Japan. *Publications*: About 100 papers on plant breeding and genetics of crop plants. *Address*: New Delhi.

PALSHAKAR, Shankar Balwant, G.D. Art (Painting), Painter; Teacher, Deptt. of Fine Art, Sir J. J. School of Art, Bombay. b. May 17, 1916; *Educ.*: Sir J. J. School of Art, Bombay; took G.D. Art (Painting), 1947. Awarded gold medal of Bombay Art Society and Academy of Fine Art, Calcutta, 1950; exhibited paintings in all the leading exhibitions in India and abroad, Russia, America, Japan, England. *Address*: 43, Machalimar Camp, Versova, Andheri, Bombay 41.

PANDEY, Mr. Justice Kanhaiyalal, B.Sc., LL.B., Judge, High Court of Madhya Pradesh, Jabalpur, since Sept. 26, 1958. *b.* Sept. 20, 1909; *Educ.*: Bilaspur, Nagpur, Jabalpur and Allahabad, B.Sc., 1930, LL.B., 1932, placed 2nd in order of merit in Allahabad Univ. Sub-Judge, Oct. 16, 1934-Nov. 1947; Addl. Dist. & Sessions Judge, Nov. 17, 1947-54; Dist. & Sessions Judge, June 20, 1954-56; Legal Remembrancer and Secy. to the Govt. of Madhya Pradesh in the Law Deptt., Dec. 2, 1957. *Address*: Civil Lines, Jabalpur.

PANDEYA, Gayanacharya Avinash Chandra, M.A. (I), B.Com., J. D., Musicologist and Dancerologist; Asst. Information Officer, Press Information Bureau, Govt. of India, since July 1948. b. Aug. 26, 1923; *Educ.*: Univs. of Lucknow, Punjab (old) and Agra; Disciple of the late Ustad Allabande Khan of Alwar (in music) and Padma Shri Guru Shambhu Maharaj and Guru Gopinath (in dancing). Culture study tour of East India, etc., 1938-39; Delegate, International Congress of Music, 1938; Associate Editor, *Globe*, 1941; Editor, *Music & Dancing*, 1941-42; Staff and Special Correspondent of *The Hindustan Times*, *The Amrita Bazar Patrika*, *C.P.I.*, etc., 1945-46; Delegate, All-India Writers' Conference, 1944 and 1954; Journalist on Special Duty, Deptt. of Information, U.P. Govt., 1946-47; Publicity Officer, Modi Industries, 1947-48; General Editor, F.I.P. Corporation 1948; Observer, All-India Cultural Conference, 1951; participant in Sangeet Natak Akademi's Music Seminar (1957) and Dance Seminar (1958); Delegate, All-India Oriental Conference, 1957; etc. *Publications*: *The Art of Kathakali*, *Rag Darshan* (I) co-edited; *Bharatiya Nriyakala, Dhruvopad, The Art of Bharat Nriya (Natrari)*, etc. *Recreations*: Painting and photography. *Clubs*: Indian P.E.N. *Address*: 16E/17-East Patel Nagar, New Delhi 12.

PANDIT, Anand Dattatraya, B.Sc. (Alld.), I.C.S., Chief Commissioner, Delhi. *b.* April 1, 1909. Was Chief Commissioner, Ajmer, Jan. 1952-March 1954. *Address*: Delhi.

PANDIT, Chintaman Govind, M.B.B.S. (Bombay), Ph.D. (Lond.), D.P.H. (Lond.), D.T.M. (Lond.), Padma Shri (1956), O.B.E. (1943); Director, Indian Council of Medical Research, New Delhi, since 1948. *b.* July 25, 1895; *Educ.*: Bombay & London. Officer, Medical Research Deptt., Govt. of India,

1924-50; Professor of Bacteriology, Medical Coll., Madras, 1928-28; Asst. Director, King Institute of Preventive Medicine, Guindy, 1924-40; Director, 1940-48; Director, Medical Research Institute and Pasteur Institute, Shillong, 1933, 1935 and 1940; Pres., Medical Section of the Indian Science Congress, 1942; Member: WHO/OIHP/Expert Groups, Cholera, Smallpox, Trachoma; W.H.O. Expert Group, Cholera, Babies; awarded Minto Medal for Medical Research, 1937; Lady Brahmachari Reader in Medicine, Calcutta Univ., 1937; member: Indian Assoc. of Leprologists, Indian Assoc. of Pathologists, Indian Public Health Assoc., Fellow of the National Institute of Sciences, India. *Publications*: Over 70 original publications on Plague, Cholera, Virus Diseases, Fluorosis, etc. *Clubs*: Delhi Gymkhana Club. *Address*: Indian Council of Medical Research, Medical Enclave, P.O. Box 494, New Delhi.

PANDEIT, Srimati Vijaya Lakshmi, High Commissioner for India in London and concurrently India's Ambassador to Ireland and Spain; Ex-Ambassador of India in U.S.A. and U.S.S.R. b. 18th August 1900; *Educ.*: Privately by tutors and governesses. Elected Chairman, Education Cttee., Allahabad Municipal Board, 1935; elected U.P. Assembly, 1937; appointed Minister of Local Self-Government and Public Health in U.P. Congress Government; Pres., All-India Women's Conference, 1940-42; Vice-Pres., Women's International League for Peace and Freedom; attended Pacific Relations Conference at Hot Springs, Virginia, U.S.A., as leader of Indian delegation appointed by the Indian Council of World Affairs; toured extensively in U.S.A.; was present in San Francisco at the time of the United Nations Conference, and presented India's case in an unofficial capacity to the world as spokesman for the India League of America and the National Committee for India's Freedom; Leader of the Indian delegation to the U. N. O., 1947 and 1948 Peace Conference; imprisoned three times in connection with Congress Civil Disobedience Movement—one year, four months and 11 months in 1931, 1941 and 1942, respectively; returned unopposed to U.P. Assembly from the old constituency; appointed Minister for second time by Congress Government holding portfolios of Local Self-Government and Public Health; Indian Ambassador in U.S.S.R., 1947-49; Ambassador in U.S.A., 1949-52; President, United Nations General Assembly, 1953-54. Has received ten honorary doctorates from Indian and foreign universities and a number of awards for work in the international fields. *Address*: The High Commission of India, India House, Aldwych, London, W.C. 2.

PANDURANGIAN, Vummidi, Partner, Vummidi Ramiah Chetty Guruswamy Chetty & Co., Jewellers and Diamond Merchants, Madras; Managing Director of Vummidiars (Mfrs.) Ltd., Stainless Steel Fabricators, Madras. b. 1908; *Educ.*: Presidency Coll., Madras. Pres., Madras Jewellers' and Diamond Merchants' Assoc., Madras; Southern India Chamber of Commerce, Madras (1947-48); was a Delegate to the International Chamber of Commerce, Paris, 1946; visited Germany and other countries in Europe as Delegate, Govt. of India Trade Delegation for Germany, 1948. *Recreations*: Billiards, Tennis. *Club*: Cosmopolitan Club, Madras. *Address*: *Residence*: 5, Dr. Nair Road, T. Nagar, Madras 17; *Office*: 25, N. S. C. Bose Road, Madras 1.

PANIGRAHI, Lingaraj, B.A., B.L., M.L.A., ex-Minister for Home, Law, Education, Govt. of Orissa. *b.* March 21, 1896; *Educ.*: Madras Presidency College. Practised at Berhampur (Ganjam); was Public Prosecutor for two terms; Advocate-General, 1948-49; Judge,

Orissa High Court, July 1948-March 1953, Chief Justice, Orissa, 1952-56, retired, March 1956, returned to the Orissa Leg Assembly, 1957, attended the Round Table Conference and gave evidence before the Joint Parliamentary Ctee, 1934, one of the leaders responsible for the creation of the Orissa Province, a forceful speaker and writer, Rotarian, Recreation Tennis Club Cuttack Club Address Bhubaneswar

PANIKER, K. C. S., Artist, Principal, Govt School of Arts & Crafts, Madras 6 May 30, 1911, Educ Madras Christian College graduate of the Madras School of Arts & Crafts. Joined the staff of the school as teacher 1941 exhibited widely in India and abroad with distinction, one-man shows held at India House, London and Paris, 1954, represented at The National Art Gallery, New Delhi, the National Art Gallery, Madras and various private collections in India & Europe, member, Executive Board of the Lalit Kala Akademi as one of the nine eminent artists Address Madras 3

PANIKKAR, Kavalam Madhava, L. Indian Ambassador in France 6 June 9 1895, Educ Madras & Oxford, Scholar of Christ Church Bar at Law (Middle Temple) Professor, Aligarh Muslim Univ, Editor *The Hindustan Times* Secretary to the Chancellor, Chamber of Princes, Foreign Minister, Patiala, Foreign & Political Minister, Bikaner Prime Minister Vice President of State Council and Foreign & Political Minister and Minister for Education & Health, Bikaner State (1944), Secretary, Indian States Delegation to the Round Table Conference, official witness on behalf of the States before Joint Select Committee, Indian States Representative to the Pacific Relations Conference, Canada, 1942 and Commonwealth Relations Conference, 1945, member of Indian Delegation to United Nations General Assembly Session, 1947, Vice-President, Royal India Society, London, Pres, Kerala Academy of Letters, member, National Academy of Letters, Ambassador in China, 1948-52, Ambassador in Egypt, Sept 1952 Dec 1953, member Statist Reorganisation Commission 1954-56 Publications *Indian States and Government of India, Interstate Law, Portuguese in Malabar, Dutch in Malabar, Caste and Democracy, Hinduism and the Modern World, Kingship in India, Education Reconstruction, India and the Indian Ocean, Future of South East Asia, The Basis of Indo-British Treaty, Survey of Indian History, Asia and Western Dominance, In Two Chinas, Geographical Factors in Indian History India and China, etc.* has also contributed to *The Times*, *The Manchester Guardian*, etc and published novels, plays and poems in Malayalam Address C O External Affairs Ministry New Delhi

PANJWANI, Ram Partabrai, B.A. Sindhi novelist, dramatist, poet and singer chairman Board of Studies in Sindhi, Urdu and Kannada, Prof and Head of the Deptt of Sindhi, Jai Hind Coll, Bombay, since 1948 b Nov 20, 1911, Educ D J Sind Coll Karachi, Graduated, 1935 Lecturer in Sindhi D J Sind Coll, 1937-43, Prof of Sindhi Sind Coll, 1943-48, travelled widely in India and Ceylon at the invitation of different cultural groups to collect money for local charities and to interpret Sindhi culture to those who are unfamiliar with it, exponent of folklore of Sind, has written dialogues for Sindhi pictures 'Abana and Rai Dyach' acted as Bhagat Kanwar Ram in the Sindhi picture 'Bhagat Kanwar Ram', member Academic Council (Univ. of Bombay) since 1954, Sindhi Advisory Board, Sahitya Akademy, since 1957 Audition Ctee, All India Radio (Sindhi Section) 1958 Publications: Original Novels *Qaidi, Sharmila, Latifa*, etc, Plays *Sindh Ja Sat Natak* (Dramatised version of stories of Shah Latif), *Pureb Joti* (Budha) and *Maya Jo Moh*, Translations *Padma* (Eternal City by Hall Caine), *Dost Kian Kajan* and *Dilun Kian Chhikhan*, (How to win Friends and influence People by Carnegie) Essays *Abadi Ghuncho* Compilations *Shirun Sharir, Chund Kalam*, *Sindh Ji Sookhari* and *Sita Ji Soghar*,

etc, some of his books have been prescribed as text books *Reverations* Music and travel, *Clubs* Sind Citizens Club Ltd Address 8, Qureshi Mahal, Mahim, Bombay 16

PANT, Khasabhai Balasahab, B.A. (Bombay), M.A. (Oxon), Bar at Law, Padmaswari (Aug 15 1954), Political Officer in Sikkim and Bhutan with control over Indian missions in Tibet since Feb 1955 b Sept 11 1912, of the family of the Pratidhhis of Aundh, Educ Deccan Coll, Poona, Oxford (B.N.C.) Lincoln's Inn Started work in the Aundh State under his father Shrimant Bhawanrao Pratidhhi, Rajasahab of Aundh, worked as Education Minister, prepared a draft constitution for the Aundh State with the consent of Mahatma Gandhi when his father granted Responsible Govt to his subjects 1939, first elected Prime Minister, Aundh State, for six years, was Minister for four years till the State was merged into Bombay State March 1948, member A.I.C.C. 1948, represented Govt of India at the U.N.O. as its alternate delegate, 1951 and 1952 Commissioner for the Govt of India in British East Africa July 1948-Feb 1954, apptd Consul General for Belgian Congo & Ruanda (Lundi Nov 1950 & Commissioner for Central Africa and Nyasaland, Dec 1950, Officer on Special Duty External Affairs Ministry 1954-55 Address Amrahi Camp Deccan Gymkhana Poon 4 C O External Affairs Ministry New Delhi, Residence, Gangtok

PANT, Pandit Govind Ballabh, B.A., LL.B. LL.D. (Allahabad, Benares and Lucknow) Bharat Ratna (Jan 26 1957) Minister for Home Affairs Government of India since Jan 10 1955 b Sept 10, 1897 in Almora District, Educ Almora, Muir Central College, Allahabad School of Law, Allahabad Univ Enrolled Advocate, Allahabad High Court 1900 joined the Bar at Allahabad took active part in politics started Kumaon Parishad in 1916 to study local problems and redress grievances gave evidence before the Southborough committee and succeeded in bringing the Kumaon districts under the Southborough committee and the Montford Reforms, elected member, A.I.C.C. 1916, U.P. Leg Council, 1923, on Swaraj Party ticket, leader, Swaraj Party, U.P. Council, for 7 years, elected Pres, U.P.C.C. 1927, and presided at Allgarh Session, took prominent part in anti-Simon Commission agitation twice imprisoned for C.D. 1930-32, appointed Chairman, U.P. Agrarian Ctee by the U.P.C.C., submitted Pant Report, 1931, Member, Congress Working Ctee, since 1931, Genl Secy, All-India Parliamentary Board, 1934, elected M.L.A. (Central), 1934 and was Deputy Leader of the Congress Party, elected Leader of the Congress Party in U.P. Assembly, 1937 and Premier, 1937-39, resigned on War issue, offered Satyagraha, Nov 1940 and was jailed for one year, arrested and kept in detention in Ahmednagar Fort, August 9, 1942-March 31, 1945, attended Simla Conference, June 1945, and carried on negotiations with Jinnah, member, Central Parliamentary Board and Chairman, U.P. Parliamentary Board, re-elected to U.P. Legislative Assembly and Leader of Congress Party in the U.P. Assembly, elected member, Constituent Assembly and member of several Committees and Sub Committees of the Constituent Assembly Chief Minister U.P. April 1946 to Jan 1955, Home Minister, Govt of India and deputy leader, Congress Parliamentary Party, Address New Delhi

PANT, Sumitramandan, Hindi Poet Sahitya Akademi, All India Radio b 1900 at Kosani in Almora Dist, Educ Early education at Almora Matriculated from Banaras, Allahabad Univ Gave up studies in response to Mahatma Gandhi's appeal to students, 1922, made an extensive study of Sanskrit, English,

Bengali and Hindi literature, Shelley and Tagore were among the early influences in moulding his poetic career, one of the principal architects of the Chhayavad (romantic) school of poetry in Hindi, gave a new trend to poetic writing in Hindi, joined A.I.R. as Adviser, Hindi programmes, 1950, became Chief Producer, Hindi (Spoken Word) programmes, 1955 Publications *Vina, Granthi, Jyotna, Yugani, Pallava Gunjan, Gramya, Swarnadholi, Swarna Kirana, Yug Path, Ullara, Rajat Shikhar, Atma Shipi, Sautarna, Vani* Address 18 B 7, Stanley Road, Allahabad.

PARAMPTE, Dr. Sir Raghunath Parashottam, M.A. (Cantab), B.Sc. (Bombay), D.Sc. (Calcutta), D.Litt. (Poona), Ex-Vice-Chancellor, Poona University b Murdi, 16th Feb 1878, Educ Maratha H.S., Bombay; Ferguson Coll, Poona St John's Coll, Cambridge (Engl), 1901-07, and Hon Fellow, 1945 Paris and Göttingen, Govt of India Scholar, bracketed Senior Wrangler at Cambridge, 1899 Principal and Prof of Math, Ferguson Coll, Poona, 1902-24, Hon Associate of the Rationalist Press Association, has taken prominent part in all social, political and educational movements in Bombay State, Vice-Chancellor of Indian Women's Univ, 1916-20, member, Bombay Leg Council, 1913-24, 1927, Kavarli Hind Gold Medal in 1916 knighted 1942 Minister, Bombay Government 19-23, 1927 member, Reforms Inquiry Committee, 1924, Auxiliary and Territorial Forces Committee, 1924, Indian Taxation Inquiry Committee, 1924-25, India Council, 1927-32, Vice-Chancellor, Lucknow University, 1932-38, President of the National Liberal Federation, 1924, 1939, High Commissioner for India in Australia, 1944-47 Publications *Gokhale, Kari The Cruz of the Indian Problem, Rationalism in Practice* Address Poona 4

PARACATTIL, Most Rev. Dr. Joseph, B.A., D.D. Archbishop of Ernakulam b April 1, 1912 at Kidangoor, Ankamaly Educ Papal Seminary, Kandy Ceylon Ordained priest, 1939, worked as Assistant and Vicar in some parishes, Lektor, *Satyadeepam* for 6 years, consecrated titular Bishop of Arethusa and Auxiliary to the Archbishop of Ernakulam by His Eminence Cardinal Lissarant, Nov. 30, 1953 Installed as Archbishop, January 9, 1957 Address Archbishop's House, Ernakulam 1

PARAKE, Hasmukh Thakordas, B.A., B.Sc. (Econ) (London), General Manager, The Industrial Credit and Investment Corporation of India Ltd, since 1956 b March 10, 1911, Educ Wilson Coll, Bombay, London School of Economics, London Part-time Lecturer in Economics St Xavier's Coll, Bombay, 1937-39, with Messrs Harkisondass Lakhmidass, Share & Stock Brokers, Bombay, 1936-56, Director, Bombay State Co-operative Bank Ltd, since 1955, member, Investment Ctee, Life Insurance Corporation of India, since 1956 Publications *The Bombay Money Market* (1953 by Oxford Univ Press) *The Future of Joint Stock Enterprise in India* (1958, by Jalco Publishing House) Address Kastur Nivas No 1, French Road, Chowpatty, Bombay-7.

PARIJA, Dr. Pran Krishna, O.B.E., M.A. (Cantab), D.Sc., I.E.S. (Retd), F.N.I., Vice-Chancellor, Utkal Univ, since 1955 b April 1, 1901, Educ Ravenshaw Coll, Cuttack, Presidency Coll, Calcutta, Christ's Coll, Cambridge, Cambridge Univ Appointed to the I.E.S. and joined Ravenshaw Coll, as Professor of Botany, 1921, elected Fellow, Patna Univ, 1925-43, member, syndicate of Patna Univ for a number of years, nominated to the Bihar & Orissa Leg Assembly in connection with the Amendment of the Patna Univ Act, elected Foundation Fellow, National Institute of Sciences of India, 1934; Principal, Ravenshaw Coll, Cuttack, 1938, First Vice-Chancellor, Utkal Univ, 1943; Director of Agriculture, Orissa, 1945; Pro-Vice-Chancellor, Banaras Hindu Univ, 1949,



Pro-Chancellor, Utkal Univ., 1951, elected M L A, Orissa, 1952, member Official Language Commission, India, 1953, elected Pres., Indian Science Congress for 1960, Pres., Indian Society for Plant Physiology, 1954. Address 10, Cantonment Road, Cuttack-1

PERKHE, Rasiklal Umedchand, B.Com. (Bombay), B.Com. (London), Minister for Revenue, Bombay since Nov. 1, 1946 to May 18, 1950, *Educ.* Jaswantinil High School, Linsell, Ferguson College Poona (1926-27), Sydneyham College of Commerce and Economics, Bombay, London School of Economics, London. Courted imprisonment three during Satyagraha movement, in 1930-1933 and 1942, was Secretary, Kathiawar Political Conference Member Constituent Assembly of India 1944. Joined the first Saurashtra Constituent Assembly, 1949, elected Member, Lok Sabha Feb. 1952, resigned and elected to Saurashtra Leg. Assembly Minister, Home, Services P.W.D., Medical and Health, Information, Printing Press and Stationery and Communications Deptt., Chief Minister, Saurashtra Dec. 20, 1954 Oct. 31, 1956. Address Ridge House, Ridge Road Bombay 6

PARKER, Ernest, O.R.E., Chartered Accountant, Director I.C.I. (India) Ltd., President Bombay Chamber of Commerce 1957-58 to Sept. 27, 1959, *Educ.* St. Lawrence, Ramsgate, (Club) Royal Bombay Yacht Club, Bombay Gymkhana (President), Willington Sports Club Address 14, Pali Hill, Bandra

PARTHASARATHI, G., B.A. (Hons.) (Madras), B.A. (Oxon), Barrister-at-Law, Indian Ambassador to China, since June 1954 to July 7, 1952, *Educ.* Presidency Coll., Madras, Wadham Coll. Oxford Lincoln Coll., London Assistant Editor *The Hindu* 1946-49, Chief Representative of P.T.I. in London 1949-52, Chief Editor, Press Trust of India 1951-53, Chairman, International Commission for Cambodia 1951-55, Chairman International Supervisory Commission for Viet Nam, 1953-56, Ambassador to Indonesia, Jan. 1957-June 1958. *Recreations* (Cricket, Tennis and Hockey Club) Cosmopolitan Club, Madras Address Embassy of India Peking, 'Nanga Parbat', 49, St. Mary's Road, Madras

PATSEKAR, Hari Vinayak, B.A., LL.B. (Bombay), Governor of Madhya Pradesh since June 1957 to May 15, 1962. *Educ.* Ferguson College, Poona, Govt. Law Coll., Bombay. Enrolled as an Advocate Bombay High Court and set up practice in Khandesh, 1917, Congressman since 1920, member A.I.C.C., 1929, entered Bombay Leg. Council 1927, resigned as a protest against the incarceration of Gandhiji, 1930, elected, M.L.A., Bombay, 1937, elected again, 1945, member, Constituent Assembly of India 1947, returned



to the Lok Sabha, 1952. Jailed for taking part in the freedom movement, 1942, was elected Pres., Borough Municipality, Chalisgaon, continuously and unanimously for 15 years, Chairman, Educational Society, Chalisgaon, since 1922; has been taking part in all social, educational and political activities of Maharashtra, since 1922, Chairman, (Local Ctee.), Blind Relief Assoc., Chalisgaon Minister for Legal Affairs, Govt. of India, 1954-57, Minister for Civil Aviation, Dec. 1956-Apr. 1957. Address: Raj Bhavan, Bhopal, M.P.

PATEL, Babubhai Jasbbhai, B.A., LL.B., Vice-Chancellor, Sardar Vallabhbhai Vidyapeeth, Vallabh Vidyanagar to Feb. 9, 1911, *Educ.* Govt. High School, Nadiad, Ferguson, Wilson, St. Xavier's and Govt. Law Colleges, Bombay. Joined Congress movement, 1930, was Parliamentary Secretary to Chief Minister, Bombay, till 1952, Dy. Minister, Public Works and Transport, Bombay, 1952-Oct. 31, 1956, Secretary, Constructive Work Deptt., All-

India Congress Ctee.; Minister for Development, Planning, Electricity & Housing, Bombay. Address "Shreyas", Nadiad, Dist. Kaira, Vallabh Vidyanagar, Taluka Anand, Dist. Kaira

PATEL, Baburao, Critic, Author, Journalist, Film Producer, Director, Editor, Film India and Managing Dir. Sumati Publications Private Ltd. to April 4, 1964, at Maswan, Thana Dist., Bombay. Took up free-lance journalism as a career, 1922, wrote, directed and produced motion pictures simultaneously, with journalistic activities; specialized as a critic of art, stage and films, started *Film India*, a popular magazine in India, April 1935; agitated against anti-Indian pictures produced by British and Hollywood producers, carried the campaign successfully to Europe and Hollywood in 1939 and obtained guarantees from foreign producers to stop films slandering India, lectured in Europe and United States on India's ancient culture and civilization, launched another campaign against indigenous crime and anti-social pictures, 1940, set up a production code and compelled revision of film censorship, recognized as one of India's foremost critics of art, stage, films and politics, visited America again for sociological study and survey, 1948. *Hobbies*: Music, Gardening and Travelling. *Publications*: *Grey Dust*, *Burning Words*; wrote and produced the following films: *Kismet*, *Mahananda*, *Bala Joban*, *My Darling*, *Maharane*, *Draupadi* and *Gagan*; wrote numerous articles for several Indian and overseas periodicals. Address: "Gitar", Pali Hill, Bombay 20.



PATEL, Bahadurbbhai Kunthabhai, B.Sc., Deputy Minister for Social Welfare, Govt. of Bombay, since April 1957 to Nov. 11, 1953, *Educ.* Shri Pratap High School, Bandra, Baroda Coll., Baroda, passed B.Sc., 1935. Was Science Teacher for 12 years, Social Worker in Congress since 1947, Pres. Bandra Rajya Praja Mandal, Taluka Congress Ctee., Bandra, Congress delegate, A.I.C.C. *Recreations* Spinning, Sports (Club) Shri Digvijay Club, Bandra Address Bhinar (Bandra), via Billimora (W. Rly.), Sachivalaya, Bombay

PATEL, Bhagvatprasad R., M.A., A.I.A., I.C.S., Vice-Chairman and General Manager, Air India International, since Sept. 1953. *Educ.* Proprietary High School, Ahmedabad and Gujarat College and Baroda College. M.A., 1933, passed I.C.S. Examination, 1935. Became Associate of the Institute of Actuaries, London, 1936. Joined I.C.S., 1936, took service in Sind, served as Asstt. Collector, Asstt. Revenue Officer, Barrage, Collector, Dy. Secy. and Secy., Food & Civil Supplies Department; was in Ministry of Food, Govt. of India, April 1947 to Aug. 1948; was Chairman, Capital Selection Ctee. for Saurashtra and Rajasthan, Chief Secy., P.K.P.S.U., Aug. 1948-March 1950, Chief Secretary, Saurashtra, March 1950-May 1954, Director-General of Shipping, May 1954-Aug. 1955. Address: Air India International, New India Assurance Building, Mahatma Gandhi Road, Bombay 1.

PATEL, Dr. Bhaskar Rambhai, M.D., M.R.C.P., D.D., Deputy Minister for Prohibition, Govt. of Bombay, since Nov. 24, 1957 to Aug. 3, 1947; *Educ.* Soljira, passed Matric, 1917, Wilson Coll., Bombay, studied Inter Sc. in Ahmedabad and Baroda, studied Medical Coll., passed M.D., from Germany, 1927. Left Medical College in Aug. 1920 to join the national movement, at the Maharmati Ashram for some time, was in charge of Khadi Production Centre at Pottlad, 1921-22, Hon. General Secy., Gujarat Provincial Political Conference, Anand, May 1922, started consulting practice in Bombay, March 1929; courted jail several times in freedom movement, elected member of Royal College of

Physicians in Edinburgh, 1938; got the special diploma in Tuberculosis, 1938, started practice, 1939, appointed member, Prohibition Board, Province of Bombay and Hon. Secy. to Prohibition Medical Board, Bombay State, Aug. 1949, Hon. Specialist in T.B., J.J. Hospital and Lecturer in Tuberculosis, Grant Medical Coll., 1940, Hon. Special Officer in Tuberculosis, Govt. of Bombay, 1947, Reappointed as Dy. Minister for Prohibition on 1-11-56, resigned as Dy. Minister, Oct. 1957, again sworn in, Nov. 1957. *Publications* Many publications in Medical Literature on T.B. Problems & B.C.G. Vaccination Clubs Rotary, National Sports Club Address 20A, Little Gibbs Road, Bombay 6

PATEL, Bhogilal P., B.Sc., Bar-at-Law, I.C.S., J.P., Managing Director, State Bank of India, Bombay to Oct. 16, 1912, *Educ.* Primary Education, Khanpur, secondary education, Nar and Baroda, Baroda College and Royal Institute of Science India, London School of Economics and Middle Temple Inn, England, 1933-37. Asstt. Collector, Satara, 1937-41, Collector for a month, 1940, Settlement Officer, Central Division, Sholapur, 1941-42, did Revision Settlement of Land Assessment in the Talukas of Karmala, Madha, Malsiras and Sholapur, Asstt. Commissioner, Central Division, Poona, in charge of supplies and controls for Maharashtra, 1942, Collector of Ahmednagar, Jan. to June 1943, Collector of Ratnagiri 1943-46, Registrar of Co-operative Societies and Director of Agricultural Marketing and Rural Finance, also Registrar General of Moneylenders, Bombay State, 1946-50; Commissioner, Ahmedabad Municipal Corporation, 1950-54, General Manager, B.E.S.T. Undertaking, Bombay, 1954-56. *Recreations* Swimming, Riding, Bridge, shooting. Address: State Bank of India, Fort, Bombay 1.

PATEL, Mr. Justice Dahyabhai Vallabhbhai, B.Sc., LL.B. Judge High Court Bombay to 1909. *Educ.* Ferguson Coll. Poona Law Coll., Poona. Joined the Bar, 1914. Address: High Court, Bombay

PATEL, Jehangir Pestonji, M.A. (Cantab.), Cotton Merchant to 1st February 1905, *Educ.* St. Xavier's High School Bombay and Downing College (Cambridge) Mg. Director of The Patel Cotton Co. Private Ltd., Director Bhojal Sugar Industries Ltd., The New Great Insurance Co. of India Ltd., G. Claridge & Co. Ltd., Indian Schering (Private) Ltd., The Khatau Mahanji Spg & Wvg. Co. Ltd., Wallace Flour Mills Ltd., Central India Flour Mills Private Ltd., Bombay Steam Navigation Co. (1953) Private Ltd., Scindia Workshop Private Ltd., The Scindia Steam Navigation Co. Ltd., The Assam Match Co. Ltd.; W. H. Brady & Co. Ltd.; State Bank of India, Bombay, Hindustan Shipyard Private Ltd., The New Great Eastern Spg & Wvg. Co. Ltd., Partner, Messrs. Patel Brothers, Cotton Brokers, Bombay, Member New York Cotton Exchange, New York and Liverpool Cotton Assoc. Ltd., Liverpool, Pres., Adivasi Seva Mandal (Club) Willingdon, Rotary, Cricket Club of India, Radio Club, The Royal Western India Turf Club Ltd., The Western India Automobile Association (Club) Ltd., The National Sports Club of India and Ootacamund Gymkhana (Club) Address "Goolestan", 37, Cuffe Parade, Bombay 6.



PATEL, Pannalal Nanalal, Gujarati Short Story Writer and Novelist to May 7, 1912; *Educ.*: Idar Middle School Services in various walks of life; Liquor Godown Manager, Water Pipe Fitter, Farming, Oilman in Electricity Co. & Water Works, Clerk, Small Merchant, Film Story Writer. *Publications*: Novels: *Malela*, *Ju*, *Valamnan*; *Bhuru Nath*, *Surabhi*; *Yauvan*, *Manavim Bhavav*; *Pachale Barane*, *Na Chhukate*, *Fakiro*, *Bhagyanan Bheru*, *Naru Lohi*;

Short Stories: *Sukh Dukkhan Sathi*; *Jiro Dand*; *Jindagina Khel*; *Lakh Chorani*; *Pandarna Rang*; *Sachan Shananan*; *Vatrakne Kantha*; *Orta*; *Duni Vat*; *Parredan*; *Manana Morala*; Play: *Jamairaj*. Address: Fragna Society, 15, Ahmedabad 9.

PATEL, Mrs. Sushila Rani Babarao, M.A., L.T., Journalist, Associate Editor of *Filmindia* and Director, Sumati Publications Private Ltd. b. Oct. 20, 1918, at Madras; Educ.: Had a brilliant



first class career; obtained M.A. degree in Science from Madras Univ. with first class honours winning Pulney Andey Gold Medal for Botany, May 1939; passed L. T. (Madras Univ.) in 1941 standing first and won the Univ. Gold Medal. After some experience of teaching, took up journalism in 1942 and joined *Filmindia*; worked in two motion pictures *Dravpadi* (1944) and *Uralan* (1946); is a proficient classical singer; visited America for social studies, 1948. Hobbies: Music, Arts, Gardening. Publications: *Grey Dunt*; *Burning Words*. Address: "Girnat", Pali Hill, Bombay 20.

PATELL, Jehangir J. K., B.A., A.C.A., F.C.C.S., R.A., F.C.B.A., F.I.C.S., J.P. and Hon. Presidency Magistrate, Secretary, W. I. A. Association, Bombay, since 15th April 1939 b. 2nd August 1905; Educ.: St. Xavier's School and College; Davar's College of Commerce and School of Accountancy, London; completed article-ship for Incorporated Accountancy with Messrs. S. B. Billimoria & Co., Bombay. Assistant Secretary, W.I.A. Association, 1931-39; contributed articles on various subjects, particularly on "Motoring" and "Photography"; Secretary of the Asian Zone of the Alliance Internationale de Tourisme; Vice-Patron and Life Member of the Bombay Presidency Olympic Association and the Bombay Symphony Orchestra Society; Honorary Treasurer of the Western India Football Association; Life Member of the Western India Automobile Association and the Cricket Club of India, Limited; Member of the Asiatic Society of Bombay; member, Govt. Traffic Advisory Cttee.; Hony. Secy., Governor's Hospital Fund Cttee.; member: "D" Ward Rifle Club; Flag Day Appeal Fund Cttee.; Vice-Pres., Motor Cycle Assoc. (Club); Willingdon; Rotary Club of Bombay; Royal Western India Turf Club; Royal Western India Golf Club, Nasik; President for the last twelve years of the W.I.A.A. Staff Sports Club and the W.I.A.A. Staff Association. Recreations: Football, Motoring and Photography. Address: Jer Manor, Chanda Ramji Estate, Colaba, Bombay.



PATIL, Lieutenant-General His Highness Maharajadhiraj Sir Yadavendra Singh Mahendra Bahadur, G.C.I.E. 145, G.B.E. (1941), LL.D. (1939), Maharaja b. January 7, 1913; Educ.: Alchison College, Lahore; also studied under an English tutor. Accompanied his father the first Round Table Conference, 30; worked with Sir Tej Bahadur Sapru, Col. Akar and other leading Indian personalities; a member, Standing Cttee. of the Chamber Princes for many years; elected its Pro Chancellor and finally Chancellor; conferred a Hony. degree of LL.D. by the Banaras d Punjab Univ.; underwent complete valry and infantry courses; served for many ars in the infantry; served in the Police r 5 years; is looked on by all sections of e Sikhs as their head; has always taken a ominent part in social and political activi- is; is an international cricketer having

captained India in Test Matches; is very fond of mountaineering; Pres., Indian Olympic Assoc.; Founder and Life-Pres., Asian Games Federation; Rajpramukh of PEPSU till reorganization of States. Recreations: Practically all games, particularly Cricket, Tennis, Horticulture, Agriculture, Gardening. Address: Motibagh Palace, Patiala (in Winter); Chail, Simla Hills (in Summer).

PATIL, Gundu Dashrath, B.A., Bar-at-Law, Deputy Minister for Planning and Development, Govt. of Bombay. b. 1921; Educ.: Lingraj Coll., Belgaum; Willingdon Coll., Sangli; during College days, was a wrestling champion for the Univ. of Bombay and keen sportsman. After working underground for about four years in the Quit India Movement, was arrested, 1946; returned to the Bombay Leg. Assembly from Taggaon East-Kavthema-hankal Constituency in S. Satara Dist., 1952; again elected to the Assembly from Miraj-Kavthema-hankal Constituency, 1957; member, A.I.C.C. Address: A-7, Foreshore Road, Bombay 1.

PATIL, Kallangouda Fakirgouda, B.A., Minister for Forests and Transport, Mysore, since May 1959. b. at Kakol, Dharwar Dist.; Educ.: Kakol, Motebennur, Byadgi and Hubli; Lamington High School, Hubli; Karnatak Coll., Dharwar; Rajaram Coll., Kolhapur. Took active part in the freedom movement; courted jail; Secy., Karnatak Harjan Sevak Sangh, 1934-36; elected Pres., Byadgi Municipality, 1940; elected M.L.A., Bombay, 1946 as a Congress candidate from the Dharwar South Constituency; Parliamentary Secy. to the Minister for Revenue, 1946; elected in the General Elections of 1952; Dy. Minister for Agriculture and Forest, Bombay, 1952-56; again M.L.A., Mysore, 1957; was Gen. Secy., M.P.C.C.; member, A.I.C.C.; was Chairman, Estimates Cttee.; Minister for Food and Agriculture, Mysore, May 1954-May 1959. Address: Bangalore.

PATIL, S. K., Minister for Transport and Communications, Govt. of India, since March 20, 1958. b. Aug. 13, 1900 in Ratnagiri Dist.; Educ.: St. Xavier's Coll., Bombay and London Univ. Joined non-co-operation movement, 1920 and conducted National



Schools, till 1921; studied journalism at the London School of Economics and London Univ. Coll. Took part in C.D. movements and was sentenced 8 times; member: A.I.C.C. for last 28 years; Congress Working Cttee., Sept. 1947-51; Bombay Municipal Corporation for 17 years; was General Secy., Bombay P.C.C. for 17 years until he became Pres. in 1946; was M.L.A., Bombay for 10 years; was member: Central Board of Film Censors; Chairman, Govt. of India's Film Enquiry Cttee. and Cantonment Cttee.; member, C.C.I., Central Council, N.S.C.I., W.I.A.A., etc.; Pres.: Local Self-Govt. Institute of India; All-India Motor Unions Congress; Marathi Granth Sangrahalaya, Bombay; International Club and Indo-German Cultural Society; closely connected with aious social organisations and educational institutions in the City of Bombay; toured important cities of Europe, America and Pacific coast several times to study City Administration and Motion Picture Industry and met important personalities; had the unique honour of being elected Mayor of Bombay for three consecutive terms, 1949-52; Fellow of the Royal Geographical Society for four years; Pres., Brihad Bharatiya Samaj since its inception; toured African and Middle East countries many times in connection with the work of the Samaj; organized the Congress campaign in the Andhra General Elections of 1955; was Pres., I.M.P.P.A. for a year; was nominated member, Congress Working Cttee. in Oct 1956; was Pres., Bombay Pradesh Congress Cttee.,

1946-57; Minister for Irrigation and Power, Govt. of India, April 1957-March 1958. Address: Shanti Kutir, Marine Drive, Bombay 1; 5, Queen Victoria Road, New Delhi.

PATIL, Shamrao Ramchandra, Deputy Minister, Harvodaya, Bombay, since April 1957. b. Aug. 15, 1902; Educ.: Bardi (Thana Dist.). Joined N.C. movement, 1920 and C.D. movement, 1932; courted jail in freedom movement; Secy., Thana Dist. Congress Cttee., 1935-46; its Pres., 1946-April 1952; member, A.I.C.C., since 1953; was General Secy., Maharashtra-P.C.C.; elected M.L.A., Bombay from Dahanu-Umbergaon constituency, 1952 and 1957. Publications: *Gandhiji's Life for Children*, in Marathi; contributed articles to various magazines. Recreations: Agriculture. Address: Sachivalaya, Bombay 1.

PATTABHI RAMAN, C. R., B.A., LL.B. (Lond.), Barrister-at-Law, Senior Advocate, Supreme Court; M.P. (Lok Sabha); b. Nov. 11, 1906; Educ.: B.A., Presidency Coll., Madras; LL.B., London



School of Economics and Political Science; Barrister-at-Law, Middle Temple. Accompanied as Private Secy. his father who was Chief Delegate to the League of Nations, Geneva, 1927; Pres. for eight years, now Patron: Madras Cricket Assoc.; Pres., South Madras Bharat Scouts and Guides; member: Trust Boards and Governing Bodies of the P.M. High School, Mysapore, Madras; The National Girls' High School, Triplicane, Madras and Sri Somasundara Kanya Vidyalaya, Kancheepuram; Chairman, Pradesh Election Tribunal of the Tamil Nad Congress; member, Indian Council of World Affairs and the International Law Assoc., Indian Branch; Foundation member, Indian Law Institute; Hon. Secy., Madras State Bar Federation; Legal Adviser, Indian Delegation to the tenth Session of the Assembly of the United Nations, 1955; returned to the Lok Sabha as Congress candidate from Aduthurai Kumbakonam-Papanasam-Thiruvaiyur Constituency, March 1957; Panel of Chairmen, Lok Sabha & Member, Rules Cttee.; Chairman: Joint Select Cttee. of both House, Mines and Minerals Bill; Select Cttee., Gift Tax and Estate Duty Amending Bills; Neyveli Lignite Corporation (Private) Ltd.; toured U.S.S.R. and Poland as member, Indian Lawyers' delegation, Nov. 1958; Reception Cttee.; member, International Commission of Jurists, member, Transport Reorganization Cttee., Govt. of India. Publications: "Periyar Water Rights Arbitration" proceedings as Counsel with a foreword by the late Sir Maurice Gwyer, former Chief Justice of India; collaborated with Justice N. Chandrasekhara Aiyar in the XI Edition of Mayne's Hindu Law; articles to various legal and other journals on various subjects. Address: "The Grove", Teynampet, Madras 18; "De Lisle", Ootacamund; 22, Janpath, New Delhi 1.

PATWARDHAN, Dr. Vinayak Narayan, M.Sc. (Bom.), Ph.D. (Lond.), A.I.L.S.C. (Bangalore), Director, Nutrition Research, Indian Council of Medical Research, Coonoor, since 1946. b. 10th Jan. 1905; Educ.: Ewing Christian Coll., Allahabad, Ferguson Coll., Poona, Indian Institute of Science, Bangalore. Research Asst., Biochemistry Dept. of the Indian Institute of Science, Bangalore, 1927-32; Grocers' Company Research Scholar, Uster Institute of Preventive Medicine, London, 1933-34; Asst. Prof. of Biochemistry, Seth G. S. Medical Coll., Bombay, 1935-46; member, Nutrition Advisory Cttee., I.R.F.A. since 1939; F.A.O./W.H.O. Expert Cttee. on Nutrition. Publications: Papers on (1) Cheap balanced diets, (2) Basal metabolism, (3) Metabolism of Calcium, phosphorus fats and proteins, (4) Vitamin action and requirements, etc. Address: Director, Nutrition Research, Coonoor.

PAULRAJ, Gediion Devapriam, Diploma in Fine Arts, Painter. b. Sept. 22, 1914; *Educ.*: Govt. School of Arts & Crafts, Madras; took diploma in fine arts, 1936. Has been a painter after completing his education. *Address*: Present: 17, Muthukrishna Mudali Street, San-Thome, Mylapore, Madras 4; *Permanent*: 'Diamond Cottage', Kodalkanal.

PAVATE, Dadasaheb Chintamani, B.A. (Hons.) (Bombay), M.A. (Cantab.), Vice-Chancellor, Karnatak University, since July 1954. b. Aug. 2, 1899; *Educ.*: Karnatak Coll., Dharwar; B.A. (Hons.), first class, Bombay Univ., 1923; Sidney Sussex Coll., Cambridge; obtained a double first class in Mathematics Tripos exams. of the Cambridge Univ. and became a Wrangler, 1927. Professor of Mathematics, Benaras Hindu Univ., 1928-30; was admitted to the Bombay Education Service Class I in the Administrative Branch, June 1930; Director of Public Instruction, Bombay State, Jan. 1947-July 1954; appointed by the Govt. of India as a member of the official Language Commission, 1955-56; deputed as Leader of the Indian Delegation to the 19th International Educational Conference, Geneva, July 1956; visited 25 Universities in France, England, America and Japan in the summer of 1957 with a view to studying their administrative structure, courses of studies and the system of examinations. *Publications*: *Elements of Calculus* and some other books in Mathematics. *Address*: Vice-Chancellor, Karnatak University, Dharwar.

PAVRY DASTURZADA, Dr. Jal, M.A., Ph.D., Spiritual Head of the Liberal Zoroastrian Church of Europe and America; Orientalist and Author. Received highest academic honours at Bombay Univ., 1916-20, and at Columbia Univ., New York, 1921-25. First scholar from India to be elected a Fellow and appointed a member of Columbia Faculty; awarded the Univ.'s most coveted Alumni Medal on his 50th birthday, 1950; represented Bihar Univ. at Columbia Univ. Bicentennial Convocation, New York, 1954; awarded Bicentennial Medal; represented Columbia Univ. at Univ. of Calcutta, Madras and Bombay Centennial Celebrations, 1957; Author of several important works on history and religions of Israel and Iran; delivered lectures upon aspects of Indian and Iranian civilizations at several leading Universities of Europe and America; President, Emeritus, Columbia University, Alumni Association of India; Hon. Member, Institute Littéraire et Artistique de France; Director, Pan Asian Union; Vice-Pres., World Alliance for International Peace through Religion, of World Fellowship of Faiths and of All-Inclusive Spiritual Centre of Geneva; Edited, *Dastur Pary Memorial Volume* in English, French and German, prepared by 70 savants from 17 countries and published by Oxford Univ. Press in England (1959). *Address*: Malabar Hill, Bombay.

PENDHARKAR, Yeshwant Dinkar, Rajkavi (Poet Laureate) of Baroda (1940), Poet and Author. b. March 9, 1899, at Chafal, Dist. Satara; *Educ.*: Sangli High School. Served as a clerk in the Education Dept. for 17 years; a poet of Maharashtra; popularly known as "Yeshwant"; Pres., Marathi Literary Conference at Bombay, 1950; Literary Editor, 'Dnyanprakash', 1947-50; Chairman, Maharashtra Sahitya Parishad, Poona (1958-61). *Publications*: Seven collections of lyrics and 3 longer narrative poems, viz., *Bandishala*, *Jayamangala* and *Karyakirt*. A collection of essays and a novel and 6 books for children (Bal Vangmaya). *Address*: 196/34, Sadashiv Peth, Poona 2.

PENDSE, Shripad Narayan, B.Sc. (Bombay) Marathi Writer. Rockefeller Fellow, 1955-56. b. Jan. 5, 1913; *Educ.*: Bombay. Took up writing, 1937; his first book was representative of characters found in a typical Konkani village; stopped writing, 1940; again took up pen to write his first novel *Elgar*, 1948;

awarded a travelling fellowship by the Rockefeller Foundation and toured the Continent, U.K., U.S.A., Japan, Philippines, Indonesia, Burma, Ceylon and Pakistan, 1955; critics held *Elgar* as a turning point in Marathi fiction. *Publications*: Two collections of short stories; Novels: *Elgar*, for which he was awarded a prize as the best book of the year; *Haddapur* of which 'The Sky is the Limit' is a translation; *Garambecha Rapoo*; *Hatya* (Oct. 1954). *Recreations*: Music, Reading. *Address*: Gokhale Wadi, B. S. Road, Bombay 28.

PERIER, Most Rev. Ferdinand, S.J., Catholic Archbishop of Calcutta, since 1924. b. Antwerp, 22nd Sept. 1875. Joined Society of Jesus, 1897, nominated Superior of Jesuit Mission in Bergal, 1913; consecrated Co-adjutor Bishop, Dec. 21, 1921; Archbishop of Calcutta on June 23, 1924; Grand Cross of Leopold of the Crown; Grand Officer Order of Leopold; Assistant at the Pontifical Throne, 1949. *Address*: 32, Park Street, Calcutta 16.

PETIT Dinshaw Manockjee, 3rd Baronet, cr. 1890 b. June 21, 1901; *Educ.*: St. Xavier's, Bombay; Trinity Hall, Cambridge. Called to the Bar, Inner Temple, 1925; member, Lloyds of London; Pres.: N. M. Petit (Charities); Sir D. M. Petit (Charities); F. D. Petit (Parliamentary); Persian Zoroastrian Amelioration Fund; Petit Girls' Orphanage; Sir D. M. Petit Gymnasium; J. N. Petit Institute; Native General Dispensary and the Bombay Society for the Prevention of Cruelty to Animals; Trustee, V. J. T. Institute, Bombay; member, Managing Cttee., B. D. Petit Parsee General Hospital. *Heir*: s. Nasserwanji Dinshaw Petit, b. Aug. 13, 1934. *Address*: Petit Hall, Bombay 6.

PHILIP, Modell Mani, B.A. (Madras), Secy. to the Govt. of India, Ministry of Transport & Communications (Depts. of Communications & Civil Aviation), since Jan. 1958. b. Feb. 30, 1904; *Educ.*: Christian Coll., Madras; Selwyn Coll., Cambridge. Joined the Indian Civil Service, 1928; served in various executive capacities in Bihar, as an Asst. Collector, Joint Magistrate, Collector and District Magistrate, Commissioner, Revenue Division and Member, Board of Revenue; Director General, Posts & Telegraphs, 1954-58; was Leader of the Indian Delegation to the Congress of the Universal Postal Union, 1957. *Clubs*: Delhi Gymkhana Club. *Address*: 12, Akbar Road, New Delhi.

PHILIPS, Royappa Nalliah, B.A., L.T. (Madras), Director, European Trade, Frankfurt. b. April 14, 1905; *Educ.*: American Coll., Madurai; Bishop Heber Coll., Trichinopoly; Teachers' Coll., Madras; B.A., 1928; L.T., 1932. Vice-Principal, Mehboob Coll., Secunderabad, 1943; commissioned in the Air Force, Dec. 1943; Adjutant, Air Force Units; Asst. Commissioner of Civil Supplies, Govt. of Madras, 1945; Associate Member (G.T.O.), Civil Selection Board, Govt. of India, 1946; Under-Secy., Home Dept. to the Govt. of India, 1947; Deputy Secy., Ministry of Home Affairs, 1951; Jt. Chief Controller of Imports and Exports, Bombay, 1953-57; Custodian of Enemy Property to the Govt. of India, 1955-57; Director of Export Promotion, Ministry of Commerce and Industry, 1957-59. *Recreations*: Tennis, Horse Riding. *Address*: c/o Ministry of Commerce and Industry, Govt. of India, New Delhi.

PHOOKAN, Nilmasi, leading Assamese poet and journalist; for some time President, Assam Sahitya Sabha. Is a prominent figure in the public life of Assam; is also a gifted orator and is popularly known in his State as 'Bagmibar'; occupies a distinctive place in modern Assamese literature both as a master of prose style and as a poet. *Address*: Jorhat.

PILLAI, Mr. Justice G. Kumara, M.A., B.L., Judge, High Court of Kerala, since Nov. 1, 1956. b. June 24, 1899, at Tiruvalla; *Educ.*:

M.G.M. High School, Tiruvalla; Presidency Coll., Madras; Law Coll., Trivandrum; took his Law degree, 1923. Enrolled as a Vakil, High Court of Travancore, Dec. 22, 1924, and as Advocate, Oct. 30, 1937; appointed Addl. Dist. and Sessions Judge, 1939; from 1943 to 1952 Dist. and Sessions Judge at Quilon, Kottayam and Trivandrum, 1943-52; also functioned as Arbitrator, Labour Disputes, Quilon, 1943 and 1947 and as Chairman, Travancore Income Tax Appellate Tribunal, 1948-49; was sole member, Travancore-Cochin Agricultural Income Tax Appellate Tribunal, 1951 and 1952; Chairman, Parliamentary Election Tribunal, Trivandrum, 1952-53; Judge, Travancore-Cochin High Court, Nov. 13, 1952 Oct. 31, 1956. *Address*: 'Govardhah', Ernakulam.

PILLAI, J. Shivashunmugam, M.A., Member, Union Public Service Commission, since Aug. 16, 1955. b. Feb. 24, 1901; *Educ.*: Loyola College, Madras. Mayor of Madras, 1937-38; Speaker, Madras Legislative Assembly, 1945-55. *Address*: Mayor Shivashunmugam Pillai Street, Nungumbakkam, Madras; 4, Robert's Road, New Delhi.

PILLAI, Namakkal Kavignar Ramanigam, Poet Laureate (1918), M.L.C. (Madras), Tamil Writer. b. Oct. 19, 1888; *Educ.*: B. H. School, Namakkal; Arts Coll., Coimbatore. Professional Artist and portrait painter, 1909-20; attended the Coronation Durbar of King George V at Delhi as an artist at the instance of the Madras Govt., 1912; joined the N. C. Movement, 1921; composed songs for the Movement; courted jail in the movement; gave up the artist's profession and continued composing songs for the Gandhian cult; was popularly called the Gandhian poet; nominated M.L.C., Madras. *Publications*: Five books of poetry, four novels, five research books and six treatises; new commentary of *Thirukkural*. *Recreations*: Football, Cricket, Tennis. *Club*: Literary Institute and Tennis Club, Namakkal. *Address*: Namakkal, Dt. Salem, Madras State.

PILLAI, Sir Narayana Raghavan, K.C.I.E. (1946), B.A. (Madras), 1918, B.A., LL.B. (Cantab.), 1922, Hon. D. Litt. (Travancore), 1953, C.I.E., C.B.E., I.C.S., Secretary-General, Ministry of External Affairs, Govt. of India and Chairman, Board of Directors, Hindustan Machine Tools. b. July 24, 1898; *Educ.*: Christian College, Madras and Trinity Hall, Cambridge. Entered I.C.S. in 1922 and served till 1927 in Madhya Pradesh; Assistant Collector of Customs, 1927; Deputy Director of Commercial Intelligence, 1929; Deputy Secretary to the Government of India, Commerce Department, 1931; Collector of Customs, 1936; Joint Secretary to the Government of India, 1938; Addl. Secretary to the Govt. of India, 1941; Secretary to the Govt. of India, 1942; Commissioner General for Economic and Commercial Affairs in Europe, Paris, 1948; Secy. to the Cabinet till 1952; Chairman, Hindustan Shipyard, 1952-58. *Address*: Ministry of External Affairs, New Delhi.

PILLAI, Mr. Justice S. Velu, B.A., B.L., Addl. Judge, High Court, Kerala, since Feb. 9, 1959. b. Oct. 14, 1905; *Educ.*: Chiefly Trivandrum. Enrolled as a member of the Bar in Trivandrum, 1927; directly appointed as Dist. & Sessions Judge, Nagercoil, Aug. 25, 1948; has been Dist. & Sessions Judge in Kottayam and Trivandrum and for a few months in Ernakulam. *Publications*: Published Commentaries on Jenmi and Kudiyar Act of Travancore as amended by the Act of 1108. *Recreations*: Tennis. *Address*: High Court Judge, Ernakulam, Kerala.

PILLAI, Mr. Justice Subramaniam Ganapathi, B.A., B.L., Additional Judge, Madras High Court, since Sept. 1957. b. Feb. 5, 1903; *Educ.*: Caldwell High School, Tuticorin; Pachaiyappa's Coll., Madras; Univ. Law Coll.,

(Calcutta; passed B.A. in first class, took B.L. 1926. Practised law, 1927-35, entered Madras State Judicial Service as District Munsiff July 1935. Subordinate Judge, June 1949, District Magistrate, June 1953. Dist and Sessions Judge, Oct 1954. *Recreation*: Tennis, Card games. *Clubs*: The Cosmopolitan Club Madras. *Address*: 25, Santhome High Road Madras-4.

PILLAI, T. M. Narayanaswamy, M.A., B.L. Dewan Bahadur (Jan. 1, 1937), Vice-Chancellor, Annamalai University, Aug 31, 1941. *Educ*: St. Joseph's Coll. Tiruchirappalli. Presidency Coll. and Law Coll. Madras. Was a leading Advocate at Tiruchirappalli, appointed Govt. Pleader and Public Prosecutor, was Pres. Dist. Board for eight years and Chairman Municipal Council Tiruchirappalli for a year, elected member former Madras Leg. Council, 1924-32, also took a prominent part in the field of co-operation, was Pres., Trichy Dist. Co-operative (Central Bank for six years, represented Madras Presidency at the All India Co-operative Conference, 1936, Chairman, Ctee. on Co-operation appointed by the Govt. of Madras, appointed Pres., H.R.E. Board by the Govt., 1940, Member, Madras Public Service Commission 1941-48. Chairman 1948-53, retired 1953, elected to the Madras Leg. Council 1953, was member Senate of Madras Univ. from 1942, also Chairman, Board of Studies in Tamil nominated to the Senate of the Annamalai Univ. 1954. *Publications*: A pamphlet on *Thirumoolar Club* Madras, Cosmopolitan Club. *Address*: Vice-Chancellor Annamalai University, Annamalai Nagar (South India).

PODAR, Ramnath Anandlal, Industrialist and business man b. Jan. 21, 1910. *Educ*: Mirwari Vidyalyaya High School. Joined father's business, 1927. Chairman, Podar Group of Concerns, The Rajasthan Financial Corporation, Development Council for Art Silk Industry, Millowners Assoc., Bombay Cotton Advisory Board, Director, State Bank of India, P. Member, Parliament of India (1952-54). Bombay Leg. Assembly (1948-52). Bombay Municipal Corporation (1943-52). (Constitutional Reforms Advisory Ctee. Talpur State (1943). Member (Ctee. of Education of Indian Chambers of Commerce & Industry, Indian Merchants' Chamber, All India Organisation of Industrial Employers, Swadishi League, Senate Univ. of Rajasthan, Senate Univ. of Bombay, All India Handloom Board, numerous institutions having activities connected with research, medical relief, social welfare and imparting of education. Dir. many commercial and industrial enterprises. Vice-Chairman, Bombay Textile Research Assoc., member Indian Central Cotton Ctee. *Address*: Podar Chambers, Fort, Bombay 1.

POTDAR, Datto Vaman, Mahamahopadhyaya (1946) B.A. (Bombay). Member State Board for Historical Records (Bombay). b. Aug. 5, 1890. *Educ*: Poona Ex. Professor of Marathi and History, the S.P. College, Poona. Orator, Educationalist, researcher in the field of Maharashtra History and Literature, reared up the Bharat Itihasa Sanshodhak Mandal, Poona, founded the Indian History Congress in Poona, 1935, presided over its Delhi session, 1948 and the Ahmednagar session of the Maharashtra Sahitya Sammelan, 1939; nominated to the Court and Academic Council of the Poona Univ.; Chairman, Shikshana Prasarak Mandal, Poona, member, Indian Council of Cultural Relations, Govt. of India, Advisory Board, All India Radio, Poona, Kul-Guru of the Tilak Vidyapeeth, Poona, Pres., Maharashtra Rashtra Bhasha Sabha, represented the Govt. of Bombay at the 3rd International Congress on Archives at Florence, 1956. *Podar Commemoration Volume* presented on Oct. 23, 1950. *Publications*: *A History of Marathi Prose Literature*, etc. *Address*: 77, Shanwar Peth, Poona 2.

PRAKASH, Sri, B.A. (Allahabad), B.A., LL.B. (Calcutta), Bar at Law, Padma Vibhushan (Jan. 26, 1957). Governor of Bombay since December 10, 1956. b. August 3, 1890. *Educ*:



B.A., 1911, called to the Bar, 1914. Educationist, Journalist and Politician, connected with the Benares Hindu Univ. (1914-17), *Leader* Allahabad (1917-18), *Independent* Allahabad (1918). *Aj Benares* (1920-41). *National Herald* Lucknow since 1938. member A.T.C. (1918-45), Foundation member Kashi Vidyapeeth (1921), Municipal Board (1921-23), General Secy. I.P.C. (1928-34) and Indian National Congress (1929-31). Pres. I.P. Political Conference (1934) and Pres. I.P.C. (1934-35). M.I.A. (Central) 1934. re-elected 1945. Pres. Karnataka Provincial Conference 1935. Chairman Reception Ctee. Indian National Congress 1938. Imprisoned for Congress activities in 1930, 1932, 1941 and 1942. elected member Indian Constituent Assembly from U.P. 1946. High Commissioner for India in Pakistan Aug. 1947. Govt. of Assam 1st b. 1919. May 1950. Member of Commerce Govt. of India. May 1950. 1st b. 1951. Minister for Natural Resources & Scientific Research Govt. of India. 1st b. 1951. March 1952. elected M.P. in the 1st general elections. Feb. 1952. subsequently resigned. Governor of Madras March 1952-Dec. 1956. *Club*: Rotary Club, Benares. *Publications*: *Anne Bantam and as a leader* (in English) and *Gracheta Gida* (Sphul Vihar and Narak Shastri). *Hamari Entari Gatha* (in Hindi). *Address*: Sevashram, Benares. Raj Bhavan, Bombay 6.

PRASAD, Dr. Balbhadra, B.Sc. (Lond.) D.Sc. (Lond.) F.N.I. Vice-Chancellor Patna Univ. since March 1957. b. Jan. 31, 1905, *Educ*: Patna Coll. Patna 1922-27. graduated with 1st class Hon. in Chemistry 1926. secured Univ. scholarship for foreign studies. Univ. Coll. London 1927-29. got 1st class Hon. in Chemistry 1929. D.Sc. from London 1933. Asst. Prof. of Chemistry Ravenshaw Coll. (Cuttack) 1923-36. Professor in the same Coll. 1st b. 1936-52. appointed Director of Public Instruction Orissa 1952. Pres. Board of Secondary Education Orissa 1954-March 1957. member Academic Council, State and Syndicate of Patna Univ. upto March 1957, Dean Faculty of Science Patna Univ. 1945-57. member Council of the Indian Chemical Society for some time. Pres. Orissa Branch Indian Chemical Society upto 1957. Working Pres. Orissa Athletic Assoc. 1953-57. Vice Pres. Orissa Olympic Assoc. 1955-57. *Publications*: Over three dozen papers in Indian and foreign journals independently and with co-workers on (a) Viscosity of Liquids and Solutions and (b) Electrochemistry. *Address*: Vice-Chancellor's Residence, 1st b. Road, Gandhi Vaidika Corner, Patna 1.

PRASAD, Jagdeoah, (L. Hons.) Managing Director Indian Telephone Industries Private Ltd. since July 1963. b. March 19, 1908, *Educ*: Lahore and Roorkie. Joined the Telegraph Engineering Service April 1933, worked in different capacities in the Posts & Telegraphs Deptt. In 1952 represented India at the Plenipotentiary Conference of the International Telecommunication Union held at Buenos Aires, 1952. Pres. Mysore State Industries Sports Assn., Mysore Industries Fine Arts Society, Institute of Management Bangalore. *Clubs*: National Sports Club of India, Rotary Club of Bangalore, Bangalore Club, Duravani Nagar Club. *Address*: Managing Director Indian Telephone Industries Private Ltd., Duravani Nagar P.O., Bangalore Dist., Residence No. 1—Central Avenue (ITI Township), Duravani Nagar.

PRASAD, Lt.-Col. Dr. Mata, M.Sc., D.Sc., F.R.I.C., F.N.I. Vice-Chancellor Vikram Univ., Ujjain, since October 1956. b. Feb. 1898, *Educ*: Agra, Banaras and London, was the recipient of merit scholarship at the B.Sc. examination, was the U.P. Govt. Scholar for research at Banaras, worked at the Royal Institution London, 1926 and 1934, Fellow of several societies in India, President, Indian Science Congress, Chem. Sec., 1941, Principal, Institute of Science, Bombay, 1946-53 and Professor of Physical and Inorganic Chemistry, 1925-53. Director, Central Salt Research Institute, Bhavnagar, 1953-55, was invited by the U.S. Govt. to visit U.S.A. on Leaders Programme 1951, Pres. Indian Chemical Society, 1953-54, Institution of Chemists (India) 1954-55, Pres. Rotary Club of Ujjain member, Court of Banaras Hindu Univ. (nominated by the Pres. of India). *Publications*: About 140 original papers published in journals in India and abroad on Colloidal Chemistry, Magneto Chemistry, Photo Chemistry, X-rays and crystal structure, chemical kinetics and many industrial topics. *Address*: Vikram University, Ujjain.

PRASAD, Mr. Justice Raj Kishore, M.A., B.L. (Patna), Judge Patna High Court, since May 12, 1955. b. March 3, 1902, *Educ*: Patna U.S. School, Daltonganj, Patna Coll. and Patna Govt. Law Coll. Patna, M.A. 1922 and B.L. 1924. Practised as Pleader Dist. Courts at Gaya, July 1924-June 1933, practised as Advocate, Patna High Court July 1924-May 11, 1955, enrolled as Advocate, Federal Court 1939, Supreme Court 1950 and as Senior Advocate, Supreme Court of India 1953. Part-time Lecturer, Patna Law Coll. 1950-43. member Senate and Syndicate of Patna Univ. 1943-52 and of Bihar Univ. 1952-55, Faculty of Arts, Patna and Bihar Univs., Faculty of Law, Patna Bihar and Rajputana Univ. Governing Bodies of four Degree Colleges, Pres., Rotary Club of Patna 1950-51, Governor, District 325 Rotary International, 1957-58, and Rotary Information and Extension Counsellor, Rotary International 1958-59. Visited U.K., France, U.S.A., Canada, Switzerland, Burma and East Pakistan 1957 and Singapore, Malaya, Bangkok in Thailand and West Pakistan, 1958 as an officer of Rotary International Foundation Member Indian Law Institute. Lt. Pres. Kishore Lal Central Hqs. Patna. *Publications*: Law of Forts. *Recreation*: Social, Educational, Cultural pursuits. *Clubs*: Rotary Club of Patna. *Address*: Shashi Sadan, Patna 3, Bihar.

PRASAD, Dr. Rajendra, M.A., M.L., LL.D. President, Indian Republic, since Jan. 26, 1950. b. Dec. 3, 1884, *Educ*: Presidency Coll., Calcutta. Prof. of English, G.B.B. Coll., Muzaffarpore, 1908, practised as lawyer, Calcutta High Court, 1911-16, Patna High Court, 1916-20. joined Mahatma Gandhi in Champaran agrarian movement, suspended practice as lawyer and joined non-co-operation movement, 1920, General Secretary, Indian National Congress; member, Congress Working Committee, President, Indian National Congress, 1934, 1939, 1947-48, imprisoned several times for taking part in Civil Disobedience Movement, for last time, Aug. 1942, released, 1945, Minister for Food and Agriculture, Govt. of India, 1946-48, Pres., Indian Constituent Assembly, 1946-50, other activities include propagation of Hindi, journalism and social, humanitarian and relief work in general, one of the founders of the Patna English daily newspaper, *Searchlight* and the Hindi Weekly, *Desh*, paid State visits to Japan Sept. 1958, Malay and Indonesia, Dec. 1958, Indo-China States, March 1959. *Publications*: *India Divided*, *Ahimsa Katha* (autobiography), *Mahatma Gandhi in Champaran* and *At the Feet of Mahatma Gandhi*. *Address*: Rashtrapati Bhavan, New Delhi.



PRASAD, Mr. Justice Shib Chandra, B.A. (Hons.), B.L. Judge, Patna High Court, since Jan. 3, 1958. b. Sept. 3, 1905; *Educ.*: Darbhanga, Muzaffarpore and Patna; graduated from G.B.E. Coll., Muzaffarpore with honours in History, 1925; B.L. from Law Coll., Patna with first class, first in the Univ., 1928. Appointed Munsif, March 1930; Subordinate Judge, 1944; District Judge, 1951; Chairman, Election Tribunal, 1954; Legal Remembrancer to the Govt. of Bihar, 1956. *Recreations*: Reading books on Philosophy and Politics; Tennis and Cricket. *Address*: Patna.

PRASADA, Krishna, I.C.S. (ret'd.), Secretary, Bharat Sewak Samaj. b. Aug. 4, 1894; *Educ.*: Bareilly College, Bareilly, and New College, Oxford. Started service in 1921 in U.P. where he was Collector & District Magistrate till 1934, when he was appointed P.M.G. Led the Indian Delegations to the International Telecommunications Conferences, Cairo, in 1938, Buenos Aires, 1952, and to the International Postal Congress, Paris, in 1947; Oxford Tennis Blue (1921); played for India in the Davis Cup in 1927 and 1932; Pres., Indian Lawn Tennis Assoc., 1951; Director-General, Posts and Telegraphs, 1946-55. *Address*: 2, Lodi Estate, New Delhi 3.

PRASADA, Shankar, M.Sc., I.C.S., Secy, Kashmir Affairs, Ministry of Home Affairs, since Aug. 25, 1958. b. March 11, 1905; *Educ.*: Allahabad Univ., Allahabad; Magdalen College, Cambridge. Joint Magistrate, 1930-36; Magistrate & Collector, Shahjehanpur, 1937-38; Dy. Secy, Govt. of U.P., Education & Industries Dept., 1938-41; Settlement Officer, 1941-42; Excise Commissioner, Uttar Pradesh, 1942-46; Magistrate & Collector, Meerut, 1946-47; Chief Commissioner, Ajmer, 1947-48; Chief Commissioner, Delhi, 1948-54; Chairman, Joint Water and Sewage Board, Delhi, 1948-54; Delhi Road Transport Authority, 1951-54; Chairman, Indian Airlines Corporation, March 1954-Jan. 1958; member, Air India International Corporation, till Jan 1958. Dir.-General, Posts and Telegraphs, Jan.-Aug. 1954. *Club*: Koshanara Club. *Address*: Delhi.

PREMI, Harikrishna, Hindi Writer; Hindi Producer, All India Radio, Jullundur. b. Oct. 27, 1907. Joint Editor: 'Tyag Bhoomi', Ajmer, 1927-29; 'Karmveer', Khandwa, 1931. Editor, 'Bharati', Lahore, 1932; Story Writer, Roopum Art Productions, Bombay, 1932; worked in: Pancholi Productions, Lahore, 1944, Murari Pictures, Bombay, 1946; Rajkirti Chitra, 1947; was Proprietor and Producer, Kalakar Chitra, Bombay; established Bharti Printing Press and Samayik Sahitya Sadan, Lahore, 1935 and 1944; imprisoned in national movement, 1930 and 1942. *Publications*: Poetic works: *Ankhor Men*; *Jadugarni*; *Swarna Bhan*; *Anant Ke Path Par*; *Agnigan*; *Pratima*; *Roop Darshan*; *Bandana Ke Bol*; Plays: *Raksha Bandhan*; *Patel Vijay*; *Shiva Sadhana*; *Pratishodh*; *Ahuti*; *Bandhan*; *Prakas Sambha*; *Chhaya*; *Swasna Bhang*; *Vishpan*; *Shatranj Ke Khiladi*; *Uddhar*; *Shopath*; *Badalon Ke Par*; *Kirti Stambh*; *Bhagna Prachir*; *Sanrakshak*; *Mamta*; *Vida*. *Address*: 414-2C, New Palasia, Indore City.

PREMI, Mahomed Hussain Hasham, B.A., J.P., Business man and Industrialist; Ex-Chairman, Bombay State Electricity Board; Member, Central Board of Directors, State Bank of India; member, Life Insurance Corporation of India and its Investment Cttee.; Dir. of several other Cos., Sole Proprietor of Hasham Premji with offices in several parts of India. b. May 30, 1915; *Educ.*: Nowroji Wadia Coll., Poona; Elphinstone Coll., Bombay. Ex-Pres., Indian Merchants' Chamber, Bombay; member, Managing Cttee., Indian Merchants' Chamber, Bombay; served on various Cttees. appointed by the Govt. of India and the Govt. of Bombay on food and industries; member, Koyna Control Board. *Recreations*: Horse Riding, Tennis. *Clubs*:

Lady's Club, Poona; Willington Sports Club; C.C.I.; Orient Club. *Address*: Residences: 54, Byramjee Hill Road, Bandra, Bombay 20.

PROSAD, Mr. Justice Sarjee, B.A. (Hons.), M.A., B.L., Chief Justice of Rajasthan, since Feb. 1959. b. Oct. 11, 1901; *Educ.*: Patna. Advocate, Patna High Court, 1924; Part-time Lecturer, Govt. Law Coll., Patna, 1929-39; Fellow, Patna Univ., 1937-50; member, Bar Council, Patna, 1946-52; Judge, Patna High Court, 1950; Pres., Governing Body, Govt. Law Coll., Patna, and Examiner in Law for Honours and Master of Law Degrees and Member, Faculty of Law and Board of Studies in Law, Patna Univ., 1950-53; Chief Justice, Assam, 1953-59; Pres., Rotary Club, Gauhati, 1955-59. *Address*: Jodhpur.

PURANIK, G. V., alias Nanasaheb, Registered Medical Practitioner, Panvel, Bombay. b. March 1, 1907; *Educ.*: V. K. High School, Panvel; Fergusson Coll., Poona; Grant Medical Coll., Bombay. Ex-Pres., Maharashtra Chamber of Commerce, Bombay; Chief Editor, *Arogya-Mandir* (Monthly Magazine, devoted to Health, Physical Culture and Indigenous Systems of Medicine), Panvel; Director, Sathe Biscuit and Chocolate Works Ltd., Poona, Indian Pharmacists' Assoc., Bombay; Pres., Ayurvediya Prasarak Mandal, Bombay; All-India Manufacturers' Organization; presided over the Maharashtra Provincial Ayurvedists Conference, Kolhapur, 1949; Managing Director, Dhoota, Apeshwar Industries Ltd., Bombay. Dhoota, Apeshwar Sales Corporation Private Ltd., Bombay; Director: Dhoota, Apeshwar Pralashan Private Ltd., Bombay, Swastik Textiles, Ltd., Bombay, Panvel Taluka Electric Development Co. Ltd., Panvel, Property Owners' Assoc., Bombay; member, All-India Manufacturers' Organization Delegation which visited U.K., Europe and U.S.A., 1946-47; member, Indian Delegation to the World Economic Conference, held in Moscow, 1952; Sales Tax Cttee., Bombay State; Cttee. for Standard Ayurvedic Herbs & Drugs, Bombay; presided over the All Maharashtra Physical Culture Conference, Poona, 1944; Vice-Pres., Mumbai Marathi Sahitya Sangha; Chairman: Board of Research in Ayurveda, Bombay State; The Executive Cttee., Bombay Physical Culture Assoc., Bombay; member, Executive Cttee., A.I.M. Organisation; Assoc. of Indian Industries, Bombay; Indian Merchants' Chamber, Bombay; Indo-Japanese Assoc., Bombay; member, Local Board, Western Area, Reserve Bank of India, Bombay; ex-member, Sales-Tax Enquiry Cttee., Bombay State, 1957-58. *Recreations*: Tennis, Photography. *Clubs*: W.I.A.A.; C.C.I.; Club of Maharashtra; P. J. Hindu Gymkhana, Bombay; National Sports Club of India; Rotary Club of Bombay. *Address*: Dhoota, Apeshwar Prasad, Gurgaum, Bombay.



PURI, Dev Datt, B.A. (Punjab), M.L.A. (Punjab), Business man. b. August 4, 1914; *Educ.*: Central Model School, Lahore; Forman Christian College, Lahore. Started career as an apprentice in 1933 with the Jallakhami Sugar Co. Ltd., Doiwala; appointed Manager of the Saraswati Sugar Mills, Yamunanagar (Distt. Ambala), 1935; promoted General Manager, 1937; Managing Director, 1941; appointed Managing Director of The Saraswati Sugar Syndicate Ltd., Yamunanagar, owning the Saraswati Sugar Mills, Yamunanagar (Distt. Ambala), 1946; appointed Mg. Dir., The Indian Sugar & General



Engineering Corporation Ltd., Yamunanagar (Distt. Ambala), 1946; Pres., Municipal Cttee., Yamunanagar; elected member, Punjab Vidhan Sabha, 1952; re-elected, 1957; Delegate to the United Nations Sugar Conference, New York, 1950 and Geneva, 1956 & 1958. *Address*: 'Saraswati House', P.O. Yamunanagar, Distt. Ambala, Rly. Stn. Jagadhri, Northern Rly.

PURI, Som Prakash, B.A. (Hons.), C.A.I.B. (London), Managing Director, State Bank of India, Bombay, since 1958. b. July 26, 1909; *Educ.*: Central Model School, Lahore; D.A.V. Coll., Lahore; Govt. Coll., Lahore; London School of Economics, London. Joined the service of the Imperial Bank of India in London, 1930; transferred to India as a Probationary Officer, 1932; after confirmation as a Staff Officer, served at various branches of the Bank; appointed Supdt., Advances Dept., Calcutta, 1949; appointed Dist. Manager, Kanpur, 1951, Deputy Secy. & Treasurer (Bengal Circle), Calcutta, 1952, Deputy Secy. & Treasurer (Bombay Circle), Bombay, 1954, Secy. & Treasurer (Bengal Circle), Calcutta, 1957. *Recreations*: Golf, Tennis. *Clubs*: Calcutta Club Ltd., Calcutta; Willington Sports Club, Bombay; Royal Calcutta Golf Club, Calcutta. *Address*: "Kinellan", Nepean Sea Road, Malabar Hill, Bombay.

PUROHIT, K. J., alias Shantaram, M.A., Marathi Short Story Writer; Lecturer in English, Vidarha Mahavidyalaya, Amravati, since 1946. b. June 15, 1923; *Educ.*: Coll. of Science and Morris Coll., Nagpur. Often broadcasts from Nagpur *Publications*: *Santracha Bay*; *Manmor*; *Shirur Chhal* all collections of short stories; *Santalarchi Rang Tuzi*—a collection of personal essays in Marathi; several articles, stories and the like mostly in Marathi and a few in English. *Recreations*: Tennis, Bridge, Hiking. *Clubs*: Reforms Club, Amravati. *Address*: P.W.D. Bungalow No. 9, V. M. V., Amravati (Bombay).

PURUSHOTTAM, Jatsavallabha, M.A. (Madras) in Sanskrit and Telugu, Lecturer in Sanskrit, S.R.R. and C.V.R. Govt. College, since June 1948. b. Aug. 2, 1906; *Educ.*: Taylor High School, Narsapur; Maharajah's College, Vizianagaram. Principal, S.V.J.V. Sanskrit College, Kovvur, West Godavari Dist., 1932-48; Congress Itenary, 1943. *Publications*: *Vedic Women*; *Women in the Smritis*; *Hinduism. Introduction to Bhagavad Gita*, *Chitra Salakam*, a century of slokas in Sanskrit, *Bharatya Vaidhara*, *Dharma Munjari*, etc. *Address*: Vijayawada (Bezawada).

QASIM, Mir, M.A., LL.B., Member, Exec. Cttee. of the Democratic National Conference, Jammu and Kashmir. b. Feb. 16, 1922; *Educ.*: Aligarh. Entered political career, 1943; was arrested during Quit Kashmir movement, 1946; member: Kashmir Constituent Assembly, 1951-56; Kashmir Leg Assembly, since 1957; became Revenue Minister in Bakshi's Cabinet, 1953; Secy., Basic Principles Cttee. and Drafting Cttee. of Kashmir Constituent Assembly; is an Advocate of Srinagar High Court. *Address*: Daru, Anantnag, Kashmir; Gagrithal, Srinagar, Kashmir.

RACHAN, N., B.A., B.L., Minister for Agriculture, Social Welfare, Prohibition, Mysore, since May 1959. b. May 8, 1920 in Nagaric Village, Mysore Dist.; *Educ.*: B.A. from Maharaja's Coll., Mysore; B.L. from Law Coll., Bangalore. Was member of Parliament, 1951-57; was elected member, Cttee. of the Congress Party in the Parliament; member, Estimates Cttee. of Lok Sabha; associated with many social, educational and other cultural activities; elected M.L.A., Mysore, 1957; Minister for Social Welfare, Excise and Prohibition, May 1958-May 1959. *Address*: Bangalore.

RADHAKRISHNAN, Sir S., Kt. (1931), F.R.S.L., M.A., D.Litt. (Hon.), LL.D., D.C.L., Litt.D., F.B.A., Bharat Ratna (1954), German pour la merite (1955), Master of wisdom (Mangolia 1957), Vice-Pres., Indian Republic. b. 5th Sept. 1888; *Educ.*: Madras Christian College. For some time Prof. of Philosophy, Presy. Coll., Madras and in Mysore Univ.; Upton Lecturer in Comparative Religion, Manchester Coll., Oxford; Hibbert Lecturer, 1929-30; Vice-Chancellor, Benares Hindu Univ., 1930-48; Spalding Professor of Eastern Religions and Ethics, Oxford, 1936-52; George V Professor of Philosophy, Calcutta, 1921-39; member, International Cttee. on Intellectual Co-operation, 1931-39; member and leader, Indian Delegation, U.N.E.S.C.O., 1946, 1947, 1948, 1949, 1950; Pres., 1952; elected Chairman of the Executive Board, U.N.E.S.C.O., 1948; Chairman, Univ. Commn., Govt. of India, 1948; Indian Ambassador Extraordinary and Minister Plenipotentiary to Soviet Russia, 1940-52; Chancellor, Delhi Univ., 1953; Chairman, Indian P.E.N.; Vice-Pres., International P.E.N. Elected Vice-President, Indian Republic, 1952 and again 1957; went on a two-month goodwill tour of European countries namely Belgium, Poland, Czechoslovakia, the Soviet Union, Hungary and Bulgaria, and African countries namely East and Central Africa, June-July 1956; received the Hon. Professorship of Moscow Univ., June 18, 1956; visited Singapore, Indonesia, Japan and China on a goodwill tour, Sept.-Oct. 1956; went on a three-week tour of the Indo-China States, China, Mongolia and Hong-Kong, Sept. 1957. Attended East-West Philosophers' Conference in Honolulu, visited U.S.A., attended the P.E.N. Congress in Germany, July-Aug. 1950.



Publications: *Philosophy of Rabindranath Tagore, Origin of Religion in Contemporary Philosophy, Indian Philosophy*, 2 Vols., *The Hindu View of Life, An Idealist View of Life, East and West in Religion, Kalki or the Future of Civilization, The Religion We Need, Gautama the Buddha, Eastern Religions and Western Thought, India and China, Religion and Society, Education, Politics and War, Bhagavadgita, Dhammapadam, The Principal Upanishads, Recovery of Faith, East and West, Some Reflections*. Articles on Indian Philosophy and others in *Encyclopaedia Britannica*. *Address*: 30, Edward Elliot Road, Madras; 2, King Edward Road, New Delhi.

RADHAMOHAN, Gadanayak, Oriya Writer. b. 1911; *Educ.*: Angul High School and Christian (Now 'Hrist) Coll. Joined Freedom movement and gave up studies, 1929; resumed coll. studies, 1947; Branch Manager, Angul Bharat Industrial Bank, Calcutta, 1940-47; Production Officer, Adult (Social) Education, Education Deptt., Orissa Govt., 1950-57. *Publications*: First poem in *Garajit* Vachni, a weekly in 1925; then in 1926 in *Sahakar*, a literary monthly; contributed poems and articles on criticism to all important magazines of Orissa since 1926; *Kalidasa* (dramatic lyric), 1940; *Hiplahi Radhanath*, 1942; *Wikalika* (Orissa ballads), 1945; *Karyanayika* (an anthology of lyrics), 1945; *Smaranika* (Indian ballads), 1949; *Kutisorika* (Poems), 1953; *Dipavika* (Poems), 1958; *Meghaduta* (Translation), 1953; *Panupakshir Kavya*, 1958; *Dhruvar Bhumika*, 1959; *Jajavar O. Jaya* (Love poems), 1959. *Address*: P.O. Angul (Orissa).

RAGHAVACHARI, Nemam Echambadi Srinivasa, M.A., I.C.S., Chief Secretary to Govt. of Kerala, since October 1956. b. June 10, 1912; *Educ.*: Venkatasagiri Rajah's Coll., Nellore and Presidency Coll., Madras; B.A. (Hons.) in Mathematics, 1932; passed I.C.S. in open competition from London, 1935. Asst. Collector, Kurnool, 1936-38; Sub-Collector, Tindivanam and Negapatnam, 1938-41; Under Secy. to Madras Govt. in

Public and P. W. Depts., 1942-45; Joint Provincial Textile Commissioner, Madras, 1945-47; Agent of Govt. of India in Ceylon, Kandy, 1947-48; First Secy. to High Commissioner for India, Ceylon, 1948-51; Representative, U.N. Technical Assistance Administration for Asia and Far East, Bangkok, 1951-53; Collector of Malabar, 1953-54; Dir. of Community Devpt., Madras, 1954-56. *Recreations*: Golf. *Address*: Trivandrum.

RAGHAVAN, E. E. Shri Nedyam, B.A. (Madras), Barrister-at-Law (Inner Temple), Indian Ambassador to France, since June 1959. b. June 23, 1900; *Educ.*: Christian College, Madras; Council of Legal Education, London. Practised Law in Malaya, 1928-47; Consul-General for India in Indonesia, 1947-48; Indian Ambassador to Czechoslovakia, 1948-50; Ambassador to Belgium and Minister to Luxembourg, 1950-51; Ambassador in Switzerland and Minister to the Holy See and Austria, 1951-52; Ambassador in China, 1952-55; Ambassador to the Republic of Chile, 1955-58; Ambassador to the Republic of Argentina, 1958-59; as leader of the Indian delegation, negotiated the Sino-Indian Agreement on Tibet, 1954. *Address*: C/o Ministry of External Affairs, New Delhi.

RAGHAVAN, Venkatarama, M.A., Ph.D., Kavi-Kukila and Kane Gold Medal, 1954, Hon. Corresponding Member, Ecole Française d'Extreme-Orient, 1947 and Austrian Academy of Sciences, 1958; Sanskrit scholar; Professor of Sanskrit, Madras University. b. Aug. 22, 1904; *Educ.*: Tiruvannur (School); Presidency Coll., Madras; M.A., 1930, Ph.D., 1935. Supdt., Sarasvati Mahal Library, Tanjore; Research Scholar, Madras Univ.; Research Assistant, Lecturer, Reader and Professor, Madras Univ., 1935-58; member of many Govt. bodies and Research organisations; Hon. Secy., All India Oriental Conference; member: Sanskrit Commission, Govt. of India; Sahitya and Mangita Nataka Academies, Delhi; is also connected with several Indian Univs. and Research Institutes and Research projects; has toured extensively in Europe (1953-54). *Publications*: *New Catalogues Catalogorum: Indian Heritage: Sanskrit and Allied Studies in Europe: The Number of Rasas: Some Concepts of Alankara Sastra: Varalakshmi vratham* (Tamil short stories); *Prayers, Praises and Psalms: Yantras or Mechanical Contrivances in Ancient India, The Social Play in Sanskrit Nritradhvani of Jayasena-nati: Love in the Poems and Plays of Kalidasa: Naradevargitasa: Poems and Playlets in Sanskrit; Bhoja's Sringeri Prakasa*, etc. (about 25 books and 300 papers). *Recreations*: Music and dance activities. *Address*: Madras University, Madras 5.

RAGHU RAMAIAH, Kotha, M.A., LL.B., Barrister-at-Law, Deputy Minister for Defence, Govt. of India, since May 1957. b. Aug. 6 1912; *Educ.*: Andhra Christian Coll., Guntur; Lucknow Univ.; Middle Temple, London. Practised in Madras High Court, 1937-41; joined Provincial Judicial Service, 1941; held various posts in the Madras Govt. and Govt. of India; resigned from Govt. service, 1951; enrolled as Advocate, Supreme Court; member: Estimates Cttee., Lok Sabha, 1954; Ex.-Cttee., Congress Party in Parliament, 1954; Ex.-Cttee., Indian Institute of Public Administration, 1954; Railway Corruption Enquiry Cttee., 1954; Indian Central Tobacco Cttee., since 1953; General Purposes Cttee. of Lok Sabha, since 1955; Rules Cttee. of Lok Sabha, since 1955; Legal Advisory Cttee., A.I.C.C., since 1956; Secy., Congress Party in Parliament, 1955; Vice-Pres., Indian Central Tobacco Cttee., 1955-56; Alternate delegate to the Trusteeship Cttee. of the U.N., 1956; Alternate delegate to the General Assembly of the U.N., 1956; Delegate to the Inter-Parliamentary Union Meeting at Nice (France), 1957; Chairman, Petitions Cttee. of Lok Sabha, 1955. *Address*: 14, Asoka Road, New Delhi.

RAGHUBIR SINGH, Mahara] Kumar Dr., M.A., D.Litt., LL.B., M.P. (Rajya Sabha), Hair-Apparent of Sitamau (Malwa). b. Feb. 23, 1908; *Educ.*: At home and the Holkar Coll., Indore; took B.A. (1928), LL.B. (1930) and M.A. (1933) from the Agra Univ.; awarded D.Litt. on the thesis *Malwa in Transition*, 1936. Closely associated with the Sitamau State Administration, 1934-38; High Court Judge, Sitamau State, 1932-40; Pres., Sitamau State Shasan Samiti (Executive), 1939-41, 1945-48;



Pres., Sitamau State Rajya Parishad (Legislature), 1939-41 and 1945-46; actively participated in the Chamber of Princes affairs; took a leading part in bringing about the formation of the Madhya Bharat Union, 1948; member of Parliament (Rajya Sabha) since Apr. 1952; attended the Xth Session of the United Nations General Assembly as the Parliamentary Adviser to the Indian Delegation to U.N.; served in the Indian Army as an Emergency Commissioned Officer, 1941-45; Capt. (1941), Major (1942); an eminent writer of Hindi prose and a historian of great repute; awarded the Mangala Prasad Prize for the year 1945 for his Hindi book *Malwa Men Yugantar* by the Hindi Sahitya Sammelan, Allahabad; awarded a prize by the U.P. Govt. for his Hindi book *Purva-Adhunik Rajasthan*, Feb. 1954; Corresponding member, Ind. Hist. Rec. Comm., 1937-42 and since 1952; provided over Local Hist. Section (Dec. 1952) and Mughal Hist. Section (Dec. 1953) of Ind. Hist. Cong. at Gwalior and Waitair Sessions respectively; owns a library, Shri Raghubir Library, at Sitamau, having a large collection of important historical manuscripts and rare printed books on the Muslim and Maratha periods of Indian History. *Publications*: (Hindi) *Purva-Madhya-kalin Bharat, Bikhare Phool, Sapta Deep, Malwa Men Yugantar, Shekha Smrityan, Jeevan Dhuli, Jeevan Kan, Ratlam ka Pratham Rajya, Purva-Adhunik Rajasthan*; (English) *Malwa in Transition, Indian States and the New Regime, A Hand-List of Important Historical Manuscripts in Shri Raghubir Library*. Edited, (Hindi) *Kehani: Nai-Purani; Ram-Charitra* by Raghunath 'Rasul'; *Vachunika Rathore Ratan Singh ri Maheshdasot ri* by Khadija Jaga; (English) Poona Residency Correspondence Series, (Vol. IX) *Daulat Rao Sindhia and Northern Indian Affairs (1800-1803)*; (Vol. X) *Treaty of Bassein and the Anglo-Maratha War in the Deccan (1803-04)*; (Vol. Extra) *Selections from Sir C. W. Malet's Letter-Book: 1780-1784*. Translated into Hindi Dr. Jadunath Sarkar's *A Short History of Aurangzeb* under the title *Aurangzeb*. *Address*: "Raghubir Niwas", Sitamau.

RAHA, Khetra Mohan, B.A. (Cantab.), D.I.C., A.F.R.Ae.S., M.Ae.S.L., Director General of Civil Aviation, Govt. of India. b. Nov. 7, 1908; *Educ.*: Hastings House School, Calcutta; Perse School, Cambridge; Trinity Coll., Cambridge; Imperial Coll. of Science & Technology, London. Appointed Aerodrome Officer Civil Aviation Directorate, Govt. of India, 1931; Representative of India on the Council of the International Civil Aviation Organization, Montreal, 1946-47; Dy. Director General of Civil Aviation, 1947-58. *Recreations*: Indoor hobbies (Electronics). *Clubs*: Delhi Gymkhana Club, National Sports Club. *Address*: 12, Asoka Road, New Delhi.

RAJ, Aftab, Barrister-at-Law, Hon. Adviser (Industries), Ministry of Rehabilitation, Govt. of India. b. Oct. 24, 1893; *Educ.*: Benares, Glasgow and Dublin. Served 1st World War with Indian Volunteers Ambulance Corps, 1914-16; in business in Lahore, 1919-43; appointed as Deputy Director-General (Supplies), Ministry of Industries and Supplies, 1943; Materials Economy Officer, 1944-45; Director-General of Disposals, 1947; Chair-

man Rehabilitation and Development Board and ex-officio Additional Secy to the Govt of India, Ministry of Rehabilitation 1948 (Consul General for India in Buenos Aires (Argentina) 1949 (Charge d'Affaires and Minister, Brazil 1949) Managing Director, Hindustan Machine Tools Ltd. Bangalore, 1952-55. *Clubs*: Calcutta Club (Calcutta) Delhi Gymkhana Club New Delhi Address: 6 Aungmye Road, New Delhi

RAINA, Jagat Mohan Nath, M A (History) I A S (Chief Commissioner Manipur since April 1956) Jan 1 1911 *Educ*: C A V High School Allahabad High School Bijnor K P Inter Coll Allahabad Univ of Allahabad came first in the M A Exam in History Allahabad Univ 1935 Allahabad Univ (Cricket) capt in 1930-31 Season Selected for I P (Civil Service) 1933 appointed Deputy Collector Banda March 23 1934 removed on Dist Staff in Banda Mirzapur and Ghazipur Districts 1934-41 Special A R P Officer Kanpur March July 1941 (Civil Defence Staff Officer Rohilkhand Division Bareilly Aug 1941 May 1943 Dist Supply Officer Bareilly May 1943 July 1946 City Magistrate Aligarh Jan 1947 May 1948 appointed as Adm Agra May 1948 March 1951 Magistrate and Collector Aligarh March 1949 May 1951 Magistrate and Collector Agra May 1951 March 1951 Magistrate and Collector Allahabad March 1950-April 1952 1958 *Recreations*: (Cricket) Hockey Tennis and Shooting (Clubs) Agra Club Agra (Cosmopolitan Club Allahabad) Address: Chief Commissioner's House, Imphal Manipur

RAJA, Chittanjore Kunhan, M A (Madras) D Phil (Oxon) (Gaveshaka Lalaka (1948) Sanskrit scholar Professor of Sanskrit Andhra Univ since 1934 b Sept 14 1891, of the Chittanjore Royal Family in Madhur. *Educ*: studied Sanskrit in the Palace Presidency Coll Madras went to Europe on Govt of India scholarship 1920 Oxford Heidelberg and Marburg toured widely in Europe Prof of Sanskrit Madras Univ 1927-30 in charge Advst Library 1926-33 Prof of Sanskrit in Tehran on deputation by the Govt of India 1930-34 is connected with various academic bodies in India organised and catalogued many oriental libraries in Rajasthan a linguist, knows Greek Latin, Avesta Old Persian Cuneiform Assyrian Hittite and Persian is a scholar in Pall and Buddhism awarded Gold Medal and Gold Starlet by the Maharaja of Cochin in recognition of his research and volume of scholarly work 1945 *Publications*: Editions of rare works in Sanskrit mostly from single manuscripts in the Madras Univ and Adyar library series Bikaner series and Poona oriental series many original publications and translations Address: Professor of Sanskrit Andhra University Waltair

RAJA, Dr. Kishakke Cevilagaras Katty Ettan, I M & S (Madras), L R C P & S (Ldn) I R F P S. (Glasgow), D P H (Cambridge) D C M & H (Cambridge) Ialma Bhusan (January 26 1957) Director Demographic Feiching and Research Centre, Bombay since Sept 1956 b Aug 10 1893 *Educ*: Madras Medical Coll Edinburgh Cambridge & London at the London School of Tropical Medicine and Hygiene Medical Officer of Health Madras Public Health Service for 11 years Asstt Professor and Professor of Epidemiology and Vital Statistics All India Institute of Hygiene & Public Health (Calcutta) 3 1/2 yrs Medical Statistician Central Health Dept 1 1/2 years Asstt Public Health Commissioner over 2 years Dy Public Health Commissioner 2 1/2 years Secy Health Survey and Development Cttee. (Bhore Cttee), 2 years, Officer, Health Planning & Development, Central Health Dept, 1 1/2 years; Dy Director General of Health Services, Govt. of India, about 9 months Director-General, 1948-52, Officer on Special Duty, Ministry of Health, Govt of India for the development of the All India Institute of Medical Sciences, New Delhi, 1952-56 *Publications*: A life table for London, The Use of Bacteriophage against

Cholera in North Arcot District, Madras Presidency in 1933, Probable Trend of Population Growth in India; A Plea for a Forward Public Health Policy in India; Health Problems of India, a number of papers on population problems and on medical education in India etc Address Chembur, Bombay 38

RAJA, Shantikumar Tribhuvandas, B A, LL B Bar at Law, Managing Director, Hindustan Antibiotics (Private) Ltd Poona since Jan 1 1958 b Oct 2 1914 *Educ*: Kiphinstone Coll Bombay Govt Law Coll, Bombay Middle Temple London Practising Barrister 1938-42 Dewan of Jawhar Janjira & Akalkot States in Maharashtra 1942-46, Director of Food & Civil Supplies Deccan States Kolhapur Residency 1946-47 Food Adviser to the Indian Embassy in Washington Sept 1947 Aug 1948 Under Secy to the Government of India Ministry of Agriculture, 1948-50 Deputy Secy in the same Ministry, 1950-53 Administrator Tubewell Projects, Ministry of Agriculture 1953-56 Joint Secy for Co-operation and Marketing 1956-57 *Publications*: Self Sufficiency in Food Ganga Khadar Reclamation of Kans Lands.—Published by the Ministry of Agriculture *Recreations*: Tennis (Clubs) (Cricket) Club of India Rotary Club of Poona Address: Managing Director, Hindustan Antibiotics (Private) Ltd, Pinupri, near Poona

RAJA, Tribhuvandas Jagjivandas, M A I I B, retired Dewan of former Kutch State b Nov 6 1893 *Educ*: Bahadurkhanji High School Junagadh Bahauddin Coll Junagadh, Wilson Coll Bombay & Govt Law School, Bombay Lecturer in History, Wilson Coll, 1914-16 Naib Dewan and Saranyadhis, Wankaner State, 1917-20, Deputy Revenue Commissioner, Junagadh State, 1920-21 Huzur Personal Asstt and Revenue Minister, Limbdi State 1921-30, appointed Dewan Lunawada State 1930 Foreign Political and Finance Minister, Bikaner Jan 1931 reverted to Lunawada July 1933, appointed Dewan Porbandar State 1934 created a Fanni Sirdar (Dowd) of the Porbandar State July 1936 retired with grant of a special varshisi (annuity for life) Nov 1938 appointed Dewan Partabgarh State, Nov 1939, appointed Chief Minister Ratlam Nov 1942 received the decoration of Dohri (double) Fanni and Gold from His Highness of Ratlam Jan 1944 appointed Dewan Kutch State Jan 1947, was granted by the Ruler of Ratlam a life Pension of Rs 3,000 on his leaving Ratlam service and a moiety the profit to his heirs and successors from generation to generation in lieu of Jagir, worked hard for the participation of Kutch State in the work of the Constituent Assembly in drafting the Constitution of India, resulting in the accession of Kutch State to India, 1947, also actively worked under the personal guidance of Gandhiji for the resettlement of displaced Hindus from Sind near the Port of Kandla by building a new town to be called Gandhidham obtaining a grant of 15,000 acres of land near Kandla Port free of all costs from His Highness the Maharaja of Kutch, together with many other valuable concessions, retired from Kutch service, March 1948, on the demise of the late Ruler of Promoter, Bharat Salt & Chemical Industries, Ltd, Mundra, Kutch Address: 'Dev-kunj', 81, Shivaji Park, Cadell Road, Bombay 28



RAJABHOJ, Pandurang Nathuji, M P Journalist and Agriculturist b March 15, 1906, *Educ*: Nutan Marathi Vidyalaya and Maharashtra Education Society's High School, Poona Left Govt service to work for the amelioration of the backward classes, 1925, edited *Indian States* for two years, ex member I N Congress Secy, All India Depressed Classes League, 1935-37, represented the depressed classes on the Franchise Cttee of the

Simon Commission, imprisoned several times in connection with satyagraha movement of Scheduled Castes, one of the signatories to the Poona Pact, was General Secy A I S C F since its inception in 1942 to 1964, attended the 2nd World Buddhist Conference at Tokyo, 1952 & 5th World Buddhist Conference at Thailand, 1958, Pres Indian Buddhist Society Bharat Dalit Sevak Sangh, travelled in Holland, Switzerland, England, France West Germany, U S A, Turkey, Japan Australia, Ceylon Hongkong Singapore, etc has now resigned from the A I S C F and rejoined the Congress, member Central Harijan Welfare Board, Scavengers Civic Enquiry Cttee, Panel of Development of leather goods industries *Hobby*: Reading *Publications*: *Lashkari Pesha* (Marathi), pamphlets in Marathi on Buddhism translation of Dr Ambedkar's books Address 207 Ghorpade Peth Poona 2

RAJAGOPALACHARIAR, C., B A, B L, Bharat Ratna (1954) Leader Swatantra Party b 1879 in a village near Hosur, Salem Dist, *Educ*: Central Coll, Bangalore, Presidency Coll and Law Coll, Madras Joined Bar in 1900, joined Satyagraha campaign, 1919 and the Non-co operation Movement in 1920, edited Mahatma Gandhi's paper *Young India* during the latter's imprisonment, General Secretary of the Indian National Congress 1921-22, member working Committee of Congress 1922-42 and again 1946-47 served sentences of imprisonment on five occasions in Congress campaigns Member of the Council of the All India Spinners' Association from the beginning up to 1935, Secretary, Prohibition League of India, 1930 Vice Pres, Dakshin Bharat Hindi Prachar Sabha, Prime Minister Government of Madras in charge of Home and Finance Portfolio, July 1937-39 resigned Prime Ministership of Madras, October 1939 with other Congress Ministers, resigned in April 1942, from Congress on account of difference of opinion assisted Mahatma Gandhi in the Gandhi Jinnah talks in Sept 1944 member of Governor General's Council, September 1946 August 15, 1947, holding the Portfolios of Industries and Supplies, of Education and of Finance for different periods Governor of West Bengal, Aug 1947, acted as Governor General of India, Nov 1947, Governor General of India, June 1948 Jan 20, 1950 Minister Govt of India, without portfolio, May Dec 1950 and Home Affairs, Jan-Nov, 1951, (Chief Minister, Madras 1952-54 among first recipients of Indian decoration Bharat Ratna 1956 *Publications*: Tamil books on Socrates Marcus Aurelius, Bhagavati Gita Mahabhaata Ramayana and Upanishads *Patel* (art & other stories (in English) Mahabhaata Ramayana Paghavade Gita Upanishads and Hinduism Doctrine and Way of Life Address: Parulullah Road, Thyagarajanaar, Madras 17

RAJAGOPALAN, G, B A Parliamentary Secretary to the Minister of Information and Broadcasting Govt of India since Dec 1953 b Sept 22 1921 *Educ*: Hindu High school, Triplicane Presidency Coll and Law Coll Madras Is interested in Congress organisational work, member Indian National Congress since 1930, was convicted and sentenced to four months B I during the 1942 movement for offering Satyagraha, Office Secy Tamil Nad Congress Cttee, 1945 member Home Guard Recruitment Cttee 1948 Film Board of Censors, 1949-Dec 1953 Prohibition Propaganda Selection Cttee, South Indian Journalists Federation *Recreations*: Table Tennis, Football, Hockey Address: 68, T P Coll Street, Triplicane, Madras 5, 11, Ferossah Road, New Delhi

RAJAGOPAL, G. R., B A (Hons), B L, Advocate, M B L (1945), Secretary to the Govt of India, Ministry of Law b Aug 16, 1905, *Educ*: Univ Coll, Rangoon, Research Scholar, Rangoon Univ, 1928-37 Reporter and Editor, Rangoon Law Reports, 1931-42, Junior to the Advocate General, Burma, 1928-42, Deputy Legal Adviser to the Govt of

Burma, Simla, 1942-45; Chief Judge, City Civil Court, Rangoon, 1945-49; Chief Legal Draftsman to the Govt. of India, since 1948. *Publications*: Worked in collaboration with the Advocate-General, Burma, on *The Law of India and Burma 4 Vols.*; *Burma Code*. *Recreations*: Badminton, Tennis. *Address*: 3, Safdarjag Lane, New Delhi.

RAJAMANNAR, Chief Justice Dr. P. V. B.A., B.L., D.Litt., Chief Justice, High Court, Madras from 18th January 1948. b. May 10, 1901; *Educ.*: Christian Coll. and Law Coll., Madras. Apprenticed and later served as junior under his father, Dewan Paladur P. Venkataramaru Rao; Advocate-General, Madras, 1944-45; Pulne Judge, July 25, 1945; conferred the Hon. Degree of Doctor of Letters by the Andhra Univ., Jan. 1953 and by the Annamalai Univ., Oct. 1957; Chairman, Sangeet Natak Academy; acted as Governor of Madras, Oct. 1957-Jan. 1958. *Publications*: Some time edited a Telugu Journal of Art and Letters called *Kala*; many plays in Telugu. *Address*: 9, Victoria Crescent, Egmore, Madras.

RAJAN, Viswanatha Naja, B.A. (Hons.) (Madras), I.C.S., Director General, Supplies & Disposals, Govt. of India, since 1954. b. Oct. 22, 1907; *Educ.*: Presidency Coll., Madras; passed B.A. (Hons.), 1928; London School of Economics; London School of Oriental Studies; passed I.C.S., 1930. Served as Asstt. Collector, Joint Magistrate and Dist. Magistrate in various districts in Bengal, 1931-43; Deputy and later Director of Civil Supplies, 1943-46; Secy., Education Dept., 1947; Collector and Deputy Commissioner, Civil Supplies, Madras, 1947-52; Chief Secy., Travancore-Cochin Govt., 1952-54; Leader, Teak Purchase Delegation to Burma, 1957 and to Burma & Thailand 1958; Dir., State Trading Corp. and Hindustan Cables Ltd. *Clubs*: Calcutta Club, Calcutta; Delhi Gymkhana Club, New Delhi. *Address*: Director-General, Supplies & Disposals, New Delhi.

RAJENDRASINGHI, General, Maharaj, D.S.O. (1941), American Legion of Merit, Degree of an Officer (1946), mentioned in despatches, 1941, Ex-Commander-in-Chief and Chief of Army Staff, Indian Army, b. June 15, 1899; *Educ.*: Rajkumar College, Rajkot; Malvern College, U.K.; Royal Mil. College, Sandhurst. Joined 60th Rifles in 1921 and 2nd Royal Lancers; Gardner's Horse in 1922; saw service in Egypt and Western desert, 1941, being awarded the D.S.O., and mentioned in despatches in the same year; on special deputation to U.S.A., 1942-43 and as Military Attache, U.S.A., 1945-46; promoted Brig., 1946; Maj.-Gen., 1947 and Lt.-Gen., Jan. 1948 and posted as G.O.C.-in-C., East Comd., G.O.C.-in-C., South Comd., May 1948-Jan. 1953; promoted General, 1953; G.-in-C. and Chief of Army Staff, Indian Army, Jan. 15 1953-May 1, 1955; C.O.A.S., May 1-May 14, 1955; retired from active list, May 15, 1955. *Recreations*: Rackets, Cricket, Polo, Golf and Shooting. *Address*: Sukh Niwas, Jamnagar.

RAJKUMAR, Dip. Ing., Proprietor of Khemchand Rajkumar and Director of several other companies. b. Nov. 12, 1916; *Educ.*: Dresden Univ., Germany; Leeds Univ., England; took Dip. Ing., 1938. Has established large industrial and commercial concerns all over India; has travelled widely and has represented India in many trade delegations and industrial and commercial conferences all over the world; has very good connections all over the world. *Recreations*: Reading, Photography, Outdoor sports. *Clubs*: Rotary Club; Calcutta Club and various



other clubs throughout India. *Address*: Khemchand Rajkumar, 33, Netaji Subhas Road, Calcutta 1.

RAJKUMAR, Dr. Nagoji Vasudev, B.A. (Hons.) (Eng. Litt.), M.A. (Pol. Sc.), L.L.B., Dr. Phil., F.R.Kron.S. (Lond.), Commissioner for India in West Indies and British Guiana and Consul-General, Surinam. b. 1915; *Educ.*: Madras, Santiniketan, Benares, Lucknow, etc. Secy., Foreign Relations Dept., A.I.C.C. (1946-53); Adviser, Indian delegation to the U.N. (1952-53); Commissioner for India in Fiji (1953-54); Dy. Secy.-General, International Supervisory Commission in Viet Nam (1954-55); Consul-General and Chargé d'Affaires, Legation of India in Laos (1955-56); Former Editor, *Indian Affairs*. *Publications*: *Indian Political Parties* (1949); *One Year of Freedom* (1949); *Development of the Congress Constitution* (1950); *The Problem of French India* (1951); *Indians Outside India* (1951); *Pilgrimage and After* (1952); *Background of India's Foreign Policy* (1952). *Recreations*: Reading, Photography. *Address*: Port of Spain, Trinidad.

RAJU, Aluri Satyanarayana, M.P., Hindi Sahitya Visharad, General Secy., A.I.C.C., New Delhi. b. Jan. 25, 1913; *Educ.*: Primary education at Valamarru village and middle school education at Rajakuduru; the rest in jails for 10 years. Joined National movement as a volunteer, Jan. 19, 1930; courted jail; after release became Pres., Andhra Provincial Youth League; was Pres. for four terms; Pres., Dist. Congress, 1937-40; again jailed for 6 years; was M.L.A., Madras upto 1952; became General Secy., A.P.C.C.; elected Pres., A.P.C.C., defeating Prof. Banga, 1954; elected Pres., Andhra Pradesh Congress Ctee., 1957; appointed Gen. Secy., A.I.C.C. and member, Congress Working Ctee. during the Gauhati Congress session; has a good knowledge of English, Hindi and Bengali besides his mother tongue Telugu. *Publications*: Translation into Telugu of Pandit Rahul Sankrityan's work "Volra to Ganga"; contributed articles on various subjects to Telugu magazines and dailies. *Recreations*: Horticulture. *Address*: 7, Jantar Mantar Road, New Delhi.

RAJU, Mr. Justice Peametsa Satyanarayana, B.A., B.L., Judge, High Court of Andhra Pradesh, Hyderabad, since Nov. 1, 1956. b. Aug. 17, 1908; *Educ.*: Tanuku, Vijayanagar and Madras. Enrolled as Advocate, High Court of Madras, Sept. 25, 1930; practised at Madras mostly on the appellate side; appointed Govt. Pleader of Composite Madras State, July 15, 1950; appointed State Counsel, Madras, Dec. 21, 1951; Govt. pleader, Andhra State, Nov. 26, 1953-Oct. 1954; Judge, High Court of Andhra, Nov. 1954-Oct. 31, 1956. *Clubs*: Cosmopolitan Club, Madras. *Address*: Raj Bhavan Road, Somajiguda, Hyderabad.

RAKSHIT, Krishikesh, D.Sc., F. Inst. P. (1937), F.N.I. (1943), Head of the Deptt. of Electronics & Electrical Communication Engg., Indian Institute of Technology, Kharagpur, since Oct. 1955. b. Feb. 8, 1900; *Educ.*: Dupleix Coll., Chandernagore; Hooghly Coll., Chinsurah (upto B.Sc.); Univ. Coll. of Science and Technology, Calcutta (M.Sc. & D.Sc.). Sound Engineer for producing Talking Films (July 1933-June 1935); Asstt. Lecturer in Physics, Calcutta Univ. (July 1935-June 1944); visited England (Nov. 1938-Dec. 1939) for advanced technical studies in Radio and allied subjects; Lecturer in Applied Physics, Calcutta Univ. (July 1944-Nov. 1948); Asstt. Director, National Physical Laboratory, Delhi, in charge of Electronics Division (Dec. 1948-Oct. 1949); Head of Deptt. of Physics and Electrical Communication, Bengal Engg. Coll., Howrah. *Publications*: Author of a large number of original papers on radio electronics and allied subjects in noted scientific journals.

Recreations: Literature, Music, Gardening. *Address*: Indian Institute of Technology, Kharagpur.

RAM, Dr. Atma, D.Sc., F.N.I., F.S.G.T., F.I.C., Padma Shri (1959), Director, Central Glass & Ceramic Research Institute, since 1952. b. Oct. 12, 1908; *Educ.*: Allahabad Univ.; F.N.I., 1953; F.S.G.T., 1954; F.I.C., 1952. Research Officer, Council of Scientific & Industrial Research, 1942-44; Asstt. Dir. & Officer-in-Charge, Central Glass & Ceramic Research Institute, 1945-49; Joint Dir., Central Glass & Ceramic Research Inst., 1949-Jan. 1952; member, International Commission on Glass, 1948; International Academy of Ceramics (Geneva), 1955; International Relations Ctee. of the Indian Science Congress Assoc., 1957; Indian National Commission for Co-operation with UNESCO, 1957; Reviewing Ctee. of the Indian Institute of Technology, Kharagpur, 1958; Indian Scientists' Delegation to U.S.S.R.; Pres., Indian Ceramic Society, 1952-54; Chairman, Glassware Sectional Ctee., Indian Standards Institution, 1954; Chairman, Ceramicware Sectional Ctee., Indian Standards Institution, 1956; Specialist Member from India on the Commission on the Chemistry of High Temperatures of the International Union of Chemistry, France; has been connected with a number of technical, planning and developmental Ctees. set up by the Govt. of India, since 1945. *Publications*: Has published more than 70 papers on glass and ceramic subjects. *Address*: Director's Bungalow, Central Glass & Ceramic Research Inst., P.O. Jadavpur University, Calcutta-32.

RAM, Jagjivan, B.Sc., Railways Minister, Govt. of India, since April 1957. b. April 1908 at Arrah in Bihar; *Educ.*: Benares Hindu Univ.; Calcutta Univ.; B.Sc., 1930. Took active interest in the uplift of depressed classes early in life; Pres., All India Depressed Classes League, 1930-10; was associated with Hindustan Scout Assoc.; was Provincial Dy. Commissioner, Bihar Branch 1930-40; nominated M.L.C., Bihar, 1936; elected M.L.A., Bihar, 1937; Parliamentary Secy., Bihar, 1937-39; Secy., Bihar P.C.C., 1940-46; jailed, 1940; released Oct. 1943 on medical grounds; appeared before the Cabinet Mission as the accredited leader of the Scheduled Castes; leader of Indian Delegation to the I.L.O. Conference, Geneva, June 1947; elected Chairman, Preparatory Asia Regional Conference of the I.L.O. held in New Delhi, Oct.-Nov. 1947; member, Working Ctee., A.I.C.C., since 1948; Leader, Indian Delegation to 33rd Session of I.L.O. Conference, June 1950 and unanimously elected Chairman of the Conference; member: Central Parliamentary Board, A.I.C.C., since 1950; Central Election Ctee., 1951; Congress Economic Planning Ctee., since 1950; Gandhi National Memorial Trust and Sardar Vallabhbhai Patel Memorial Trust; sponsored many bills to better the condition of industrial workers; ordered an inquiry into condition of Agricultural Labour to consider what protective and ameliorative measures should be undertaken to improve their condition; was Pres. of several trade unions; started agricultural labour movement in Bihar; Labour Minister, Govt. of India, Sept. 1946-May 1952; Communications Minister, Govt. of India, May 1952-Dec. 1956; was responsible for the nationalisation of air transport in India; Minister for Transport and Railways, 1956-57. *Address*: 3, Queen Victoria Road, New Delhi.



RAM, Mr. Shri, Director, Delhi Cloth and General Mills Co., Ltd., Chairman, Jay Engineering Works Ltd., Bengal Pottery Ltd. b. 1884. Chairman: Rehabilitation Housing Corp.; Kirloskar Oil Engines Ltd.; Regional Ctee. for northern India of the All-

India Council for Technical Education; Lady Shri Ram Coll. for Women; Sir Shri Ram Inst. of Industrial Research; Sindri Fertilisers and Chemicals Private Ltd.; Director, Central and Local Boards of the Reserve Bank of India, Delhi; Sindri Fertilisers and Chemicals Ltd.; past President and member, Executive Cttee. of Federation of Indian Chambers of Commerce and Industry and All-India Federation of Industrial Employers; Director: National Research Development Corpn. of India; member, Board of Scientific and Industrial Research and Chairman of its Cttee. Chairman, Governing Bodies and Trusts of the Indraprastha, Ramjas and Hindu Colleges; Vice-Chairman, Delhi Polytechnic; member: Synthetic Petrol Cttee.; Central Advisory Council for Industries. *Address*: 22, Curzon Road, New Delhi.

RAMACHANDRAN, Kalyanarama, M.E., A.M.I.Loco.E. General Manager, Chittaranjan Locomotive Works, since March 1957. *b.* March 2, 1903; *Educ.*: Pachaiyappa's Coll., Madras; Coll. of Engineering, Guindy, Madras. Joined the former B.N. Rly., Aug. 3, 1925; was in England for further studies, Feb.-June, 1934; resumed on the B. N. Rly.; Dist. Loco & Carriage Supdt., 1942-47; Dy. Chief Mechanical Engineer, March 1947; posted on special duty as Chief Mechanical Engineer, Rly. Board, Sept. 1947; served as member, Three-men Classification Tribunal set up in 1948 by the Rly. Board; posted as Chief Mechanical Engineer, B. N. Rly. till the regrouping of Railways in Eastern India; became the first Chief Mechanical Engineer, Eastern Rly.; Addl. Member (Mechanical), Rly. Board, June 1950-March 1957. *Recreations*: Reading, Tennis and Football. *Address*: General Manager, Chittaranjan Locomotive Works, Chittaranjan.

RAMADHYANI, Rangaswamy Kalkunte, I.C.S., Secretary, Ministry of Information and Broadcasting, since May 1957. *b.* Feb. 20, 1908; *Educ.*: Mysore Univ., Univ. Coll., London; London School of Oriental Studies. Served in Madhya Pradesh as Asstt. and Deputy Commissioner, 1930-39; Supdt., Census Operations, M.P., 1939-41; Officer on Special Duty, Eastern States Agency, 1941-42; Jail Deptt., Madhya Pradesh, 1943-44; Controller of Rationing & Dir. of Civil Supplies, Delhi, 1944-46; Joint Secy., Constituent Assembly, 1947; Joint Secy., Defence Ministry, 1947-51; Coal Commissioner, 1952-55; Secy., Ministry of Natural Resources and Scientific Research, 1955-May 1957. *Recreations*: Books; music. *Address*: New Delhi.

RAMAIAH, V., Minister for Electricity and Transport, Madras, since 1957. *b.* 1920; *Educ.*: B.A. degree from the Loyola Coll., Madras. Participated in the students movement at the Annamalai Univ. where he was a student and was expelled during the 1942 movement; took active part in the Students Congress movement, in the Loyola Coll.; Secy., Indian Students Congress (Madras State), 1944-45; was elected to the Constituent Assembly and the Provisional Parliament; Pres., Podukottal Dist. Congress, 1952-55; was member, A.I.C.C. and Tamilnad Congress Exec. Cttee. for a term; took active part in the Scout Movement and in the St. John's Ambulance Bridgade; elected M.L.A., Madras from the Thirumayam Constituency, Tiruchy District. *Address*: Minister for Electricity and Transport, Madras.

RAMAMURTI, P., B.Sc., Communist Leader. *b.* Sept. 20, 1909; *Educ.*: Banaras Univ. and Presidency Coll., Madras. Court'd Jail in 1930-32 Congress Movement; political worker, ever since; was in the executive of the Tamilnad Congress Socialist Party, 1935-39; member, A.I.C.C. for about 4 years; Working Cttee. member, A.I.T.U.C.; a top ranking Trade Union leader in Madras State; is an

orator; went to I.L.O. Conference, 1946. *Publications*: *Kandal Deeparati* (on cloth famine, in Tamilnad); *Open Letter to Kumaramaji Raja*. *Address*: 3, Anthony Street, Royappetta, Madras.

RAMAN, Bangalore Venkata, Editor, *Raman Publications*, Bangalore. *b.* August 4, 1912; *Educ.*: Govt. Collegiate High School and Central Coll., Bangalore; underwent training in Astronomy and Astrology under Prof. B. Suryanarain Rao. Started *Raman Publications* for publishing books on Indian Culture and Astrology, 1936; restarted *The Astrological Magazine*, 1936; Fellow of the Royal Astronomical Society, London, 1948; has toured widely all over India; has written a number of books in English on Astrology, Astronomy, etc., some of which have been translated into German and French; has made several successful predictions in the pages of *The Astrological Magazine* about national and international events; has been conducting research in astrology, especially in reference to weather and political forecasts; Pres.: Jyotibhya Sammelana of the Agmatraya Conference, Bangalore, 1950; First Andhra Astrological Conference, Nellore, 1955; inaugurated the All Kerala Astrological Conference, Trichur, 1958. *Publications*: Books in English on Astrology, Astronomy, etc., some of which have been translated into German and French. *Recreations*: Lawn Tennis; Gardening. *Address*: "Sri Rajeswari", 115/1, New Extension, Seshadripuram, Bangalore 3.



RAMAN, Sir Chandrasekhara Venkata, Kt., M.A., Hon. Ph.D. (Freiburg), Hon. Ll.D. (Glasgow), Hon. D.Sc. (Paris), and Bordeaux, F.R.S., Bharat Ratna (1954), Nobel Prize for Physics (1930); Franklin Medalist of the Franklin Institute, Philadelphia; International Lenin Prize for 1957; Foreign member, Soviet Academy of Sciences (1957); Foreign Associate, Paris Academy of Sciences (1949); *b.* Nov. 7, 1888; *Educ.*: A.V.N. Coll., Vihakapatnam & Presidency College, Madras; Officer, Indian Finance Deptt., 1907-17; British Association Lecturer (Toronto), 1924; Research Associate, California Institute of Technology, 1924; Matrucci Medalist, Rome, 1929; Hughes Medalist of the Royal Society (1930); Hon. Fellow, Zurich Phys. Soc., Royal Hungarian Acad., Royal Irish Acad., Chinese Phys. Soc., Royal Phil. Soc., Glasgow, Optical Society of America, Franklin Institute, Societe Philomathique (Paris); President, Indian Academy of Sciences, 1934; National Research Professor of Physics, 1949. *Publications*: *Molecular Diffraction of Light*; *Music Instruments*; and numerous scientific papers in Indian, British and American Journals. *Address*: C/o Raman Research Institute, Hebbal, Bangalore.

RAMANUJACHARI, R., M.A., Vidyaratna and Tatvasatratna, Professor and Head of the Deptt. of Education and Dean, Faculty of Education, Annamalai Univ., since 1953. *b.* Dec. 4, 1902, a descendant of one of the important disciples of Sri Ramanuja; *Educ.*: Presidency Coll., Madras. Chief Lecturer in Philosophy, Sri Meenakshi Coll., Chidambaram, 1924-29; joined the teaching staff of the Annamalai Univ., 1929; Reader, 1929-32; Professor from 1936; represented the Univ., at the 8th Quinquennial Session of the Congress of Univs. of the British Commonwealth at Montreal, and visited Univs. and cultural institutions in U.S.A. and the U.K. at the invitation of the U.S. Govt. and the British Council respectively. *Publications*: Has contributed papers to periodicals and conferences; published critical editions of Indian philosophical classics with English translations, such as *Nyayakulisa*, *Nitimala*,

Siddhitraya and *Bhavanopanisad*; publications in Tamil on psychology, such as *Educational Psychology*, *The Children We Teach* and *Learning and Teaching*. *Recreations*: Bridge. *Clubs*: P.E.N., India. *Address*: Professor of Education and Dean, Faculty of Education, Annamalai University, Annamalaiagar.

RAMANUJAM, G., President, Indian National Trade Union Congress. *b.* Feb. 2, 1916; *Educ.*: Srirangam, Trichinopoly Dist. Joined Hindustan Masdoor Sevak Sangh as a worker in Ahmedabad, 1946; Founder Secy. of the Tamil Nad I.N.T.U.C., 1947-58; elected Pres., I.N.T.U.C., 1958; attended the 2nd I.L.O. Textile Cttee. Conference in Lyons (France), as a workers' delegate, 1950; visited China, 1954; elected Pres., Indian National Textile Workers Federation, 1956; attended the Ceylon Workers Congress as fraternal delegate, May 1957; is a member of several Cttees. connected with labour including the Tia Beard; was a member, Textile Tripartite Enquiry Cttee. appointed by the Govt. of Madras; is member, Central Wage Board for the Cotton Textile Industry in India; attended the 42nd Session of the I.L.O. as workers' delegate in June '58. *Address*: 3, 66, Trichy Road, Coimbatore.

RAMASUBBAN, C., B.A. (Hons.) (Madras), Chairman, Tariff Commission, Govt. of India, Bombay, since April 14, 1958. *b.* Aug. 27, 1900. *Educ.*: Madras Christian Coll. Joined former Imperial Bank of India as an Assistant, 1921; worked as Agent at several of its branches in Madras Circle; was Dy. Accountant and Supdt. of Securities and Advances at Madras Head office; retired as First Grade Officer, 1952; was Chairman, Indian Council of World Affairs, Madras Branch, for two years; was a representative of the Govt. of India at the 10th session of the GATT Conference at Geneva, Oct. 1955; Member, Tariff Commission from 1953. *Publications*: A large number of contributions to Tamil journals and English periodicals on music, social customs, socio-economic problems and humour. *Recreation*: Tennis. *Club*: Madras Cosmopolitan Club. *Address*: Second Floor, Eros Building, Churchgate, Bombay 1.

RAMASWAMI, Perier, E. V., has been Pres., Inavida-Kazhagam. *b.* 1878. Ex-Chairman, Municipal Council, Erode; ex-President, Taluk Board, Erode; was President, Tamil Nad Congress Cttee.; successfully led Vaikam Satyagraha as a result of which untouchability and unapproachability came to be abolished in Travancore State; jailed about 19 times for political and social reasons; left the Congress, 1925; fights for eradication of all social evils in general through his Self-Respect Movement and his Tamil papers *Kudi Arasu* and *Viduthalai* and *Revolt* (English); toured Malaya in 1929; toured the Continent, England and Russia in 1931 particularly to study Communism; led anti-Hindi agitation, 1938; started Rational Books Publishing Co. and has published more than 200 books of criticism on God, Religion and Superstition including 10 volumes under the title 'Vulgaries in Ramayana'; founded Dravidian Federation and its ally Black Shirt Volunteer Corps; toured Burma & Malaya, 1954; attended the World Buddhist Conference, Burma; *Address*: Erode; Tiruchirappalli.

RAMASWAMI, Mr. Justice Vaidyanathier, M.A., M.Sc., Barrister-at-Law, Chief Justice, Patna High Court, since April 30, 1956. *b.* Oct. 30, 1904; *Educ.*: Madras, Allahabad and Oxford Univ., called to the Bar from the Inner Temple. Entered Indian Civil Service, Oct. 1929; Addl. Judge, Patna High Court, on the 1st Nov. 1947-Oct. 1948; Puisne Judge, Patna High Court, Oct. 28, 1948-April 1956. *Publications*: Articles on legal topics in various periodicals. *Recreations*: Golf; Tennis; Legal Research; Research in old Sanskrit literature. *Clubs*: Bankipore Club, Patna. *Address*: Chhajubagh, Patna.

RAMASWAMI AYYAR, Dr. Sir C. P., K.C.S.I. (1941), K.C.J.E. (1925), C.I.M. (1923), ex-Dewan of Travancore, Fellow of Madras University, b. Nov. 12, 1879; *Educ.*: Wesleyan High School, Presidency College, and Law College, Madras. Joined the Madras Bar, 1903, and led the original side soon afterwards; enrolled specially as an Advocate, 1923; Fellow of University, 1912; member of Madras Corporation, 1911, served on many committees; member, Indian National Congress and was its All-India Secretary, 1917-18; Madras Delegate to Delhi War Conference; Trustee, Pachayappa's College Trusts, 1914-19; gave evidence before the Southborough Commission on Indian Reforms and the Meston Committee on Finance, also before Mr. Montague and Lord Chelmsford; gave evidence in London before the Joint Parliamentary Committee on Indian Reforms, 1919; University Member of Legislative Council, Madras, 1919; member of Committee to frame Rules under Reforms Act, 1919; member of Legislative Council under Reformed Constitution for Madras, 1920; Advocate-General for the Presidency, 1920; one of the Indian representatives at the Assembly of the League of Nations at Geneva 1920 and 1927; Rapporteur to the League of Nations Committee on Public Health, 1927; Law Member of Madras Government, 1923-28; Vice-President, Executive Council, 1924; resigned membership of Madras Government, March 1928 and rejoined the Bar, April 1928; delivered the Sri Krishna Rajendra University Lecture at Mysore, 1928; represented the State of Cochin before the Butler Inquiry Committee, 1928; member of the Sub-Committee to draft constitution for uniting British India and the Indian States in a Federation, 1930; Delegate to the Indian Round Table Conference and member of the Federal Structure Committee of the R.T.C., 1931; Acting Law Member, Government of India, 1931; Legal and Constitutional Adviser to the Government of Travancore; member, Consultative Committee of the R.T.C.; delivered the Convocation Address of the Delhi University, 1932; Tagore Law Lecturer, Calcutta University, 1932; Acting Commerce Member of the Government of India, 1932; Chairman of the Committee appointed by the Chamber of Princes to consider the White Paper, 1933; member, Joint Select Committee of Parliament on Indian Reforms, 1933; Delegate to World Economic Conference, 1933; drafted a new constitution for Kashmir, 1934; member, Government of India Committee on Secretariat Procedure, 1935; Dewan of Travancore, 1936-47; conferred the title of "Sachivohama" by His Highness the Maharaja of Travancore; was instrumental in implementing the Temple Entry Proclamation of His Highness, 1936; Chief Commissioner, Travancore Boy Scouts Association, 1937; Vice-Chancellor, Travancore University, 1937; was elected a Fellow of the Royal Society of Arts, London, 1937; was conferred the Degree of Doctor of Laws by the Travancore University, 1939; delivered the convocation address of the Osmania University, Hyderabad, 1942; appointed Member for Information in the Governor-General's Executive Council, Aug. 3, 1942, resigned on Aug. 20, 1942; re-appointed as Dewan of Travancore, Aug. 28, 1942; Chairman, Indian Rubber Production Board, Nov. 1942; Chairman, Travancore Steam Navigation Co., 1944; Member of the Govt. of India Post-war Reconstruction Cttee. and of the Central Board of Education, 1944; President, 1st South India Brahmins Conference, 1946; represented the Indian States before the British Parliamentary Delegation and the Cabinet Mission, 1946; member, Negotiating Committee on behalf of the States under the Cabinet Scheme; was invested with the rank and title of Lieutenant-General of the Travancore State Forces by His Highness; relinquished Dewanship of Travancore, August



1947; visited the U.S.A. on a lecturing tour and later travelled in South America, Australia and New Zealand in 1948. Delegate, East & West Philosophy Conference, Honolulu, 1949 (May & June); India America Conference, Delhi, 1919; Pres., Nilgiri Rotary Club, 1948; President, Nilgiri Rotary Club, 1949; delegate to the International P.E.N. Congress at Edinburgh, 1950; visited Industrial and Univ. Centres in Great Britain under the auspices of the British Council, Aug.-Oct. 1950 and thereafter toured Europe; Indian delegate to the P.E.N. Congress at Lausanne, June 1951; Professor, American Academy of Asian Studies in California; lectured in Yale, Stanford and other Universities in U.S.A.; elected Rotary Governor, 1952; member, Press Commission, 1952; Vice-Chancellor, Annamalai Univ., 1953; attended the Commonwealth Universities Conference at Durham and Cambridge; delivered Convocation Addresses of the universities of Poona, Annamalai and Agra; Vice-Chancellor, Banaras Hindu Univ., 1954-56; delivered the Convocation Address of the Gujarat Univ. and the Women's Univ., Bombay, 1954; member, Press Commission, 1953-54; was conferred Hon. Degree of D.Litt. by Annamalai Univ., 1955; Leader of the Indian Universities Delegation to China, 1955; member, Public Services Recruitment Cttee., 1955; member, Univ. Grants Commission, 1955; delivered Convocation Address, Lucknow Univ., 1956; Maharaja Sayajirao Lecturer, Baroda Univ., 1956. Resigned Vice-Chancellorship of Banaras Hindu Univ., 1956; Delegate to the British Commonwealth Univ. Conference and to the P.E.N. International Conference, 1956; delivered Convocation Address of B.H.U. and was conferred the Hon. Degree of LL.D., of that Univ., 1956; conferred the Hon. Degree of D.Litt. by the Madras Univ. at the special convocation in connection with its centenary celebrations, 1957. *Publications*: Articles to various periodicals on political, philosophical, financial and literary topics; a selection of his speeches and writings in two volumes; a volume of essays, broadcasts and other addresses entitled *Pen-Portraits* published in 1948. A second volume of essays on Religious & Cultural topics published in 1949; third volume under the title "*Mypticum*" and other essays published in 1950; published *Cultural Freedom and other Essays*, 1950. *Recreations*: lawn tennis, riding and walking. *Clubs*: National Liberal, Royal Automobile, Madras Cosmopolitan, Ootacamund Club. *Address*: The Grove, Teynampet, Madras; 18, Delleale, Ootacamund.

RAMASWAMY (CHETTIAR), S. V., M.A., Bar-at-Law; F. R. Econ. S. (Lond.), Deputy Minister for Railways, Govt. of India, since April 1958. b. Jan. 16, 1906 at Salem; *Educ.*: Madras Christian Coll.; London School of Economics; Middle Temple, Senior Advocate, Supreme Court; Secy., Salem Dist. T. B. Sanatorium Society; Hon. Secy., Tuberculosis Assocn. of India, Salem Branch; member: Managing Cttee. for Government Hospitals, Advisory Cttee. for Government Hospitals, since 1950; Rotary Club, since 1950; Lok Sabha, 1952-57; Public Accounts Cttee., 1954-56; Indian Parliamentary Delegation to Turkey, 1954; Chairman: Sub-Cttee. of the P.A.C. on Delhi Road Transport Authority, 1956; Select Cttee. on the Navy Bill, 1956-57; donated an independent water supply system to the G.I.F. Hospital, Salem; also donated jointly with his wife, the Vivekananda Hall to the Mutt; erected in 1949 a replica of Sarnath Stupa in memory of those who lost their lives in the freedom struggle; Parliamentary Adviser to the Indian delegation to the eleventh General Assembly Session of U.N., Nov. 1956-Jan. 1957; elected to the Lok Sabha from Salem Constituency on Congress ticket, 1957; keenly interested in social welfare and education; visited Turkey, Japan and U.S.A. *Recreations*: Reading, Tennis, Table Tennis, Billiards. *Publications*: *The Constituent Assembly of India*. *Address*: New Delhi.

RAMDAS, Dr. Lakshminarasayanapuram Ananthakrishna, M.A., Ph.D., M.B.E. (1946), "Padma Shri" (1958), F.N.I., F.N.A.Sc., F.R. Met. Soc., Head of the Heat and Power Division, National Physical Laboratory, New Delhi, since Dec. 1956. b. June 3, 1900; *Educ.*: Sircar High School, Trichur; Maharajah's Coll., Ernakulam; Presidency Coll., Madras; Univ. Coll., Calcutta; Indian Assoc. for the Cultivation of Science, Calcutta. Palit Research Scholar under Sir C. V. Raman, 1923-28; discovered phenomenon of "Scattering of Light by pure liquid and solid surfaces", 1923; Doctorate for thesis on above subject and allied topics, 1927; recorded "Raman Effect" for the first time in a Vapour (Ether), 1928; in the Aviation Meteorology, 1926-32; did research in Agricultural Meteorology in India at Poona, 1932-33; appointed Deputy Director-General of Observatories (Climatology and Geophysics), 1953; officiated for short time as Dir.-Gen., 1955; Pres., Physics Section, Indian Science Congress, 1948; Chief Delegate to 1st Session of Commission of Agricultural Meteorology of World Meteorological Organisation, Paris, 1953; participated in UNESCO's Arid Zone Research Cttee. Sessions in Delhi, 1954, and in Teheran, 1958; Chairman at Symposium on "Agricultural Meteorology" held by Pan Pacific Science Congress, Bangkok, 1957. *Publications*: Numerous original papers in Physics, Meteorology, etc. in various Indian and foreign Scientific Journals. *Recreations*: Tennis and Music. *Clubs*: National Physical Laboratory Club, New Delhi. *Address*: National Physical Laboratory, New Delhi 12.

RAMKINKER, Diploma in Fine Art, Kala-Bhavana, Santiniketan, Exponent of modern sculpture and painting. Head of the Deptt. of Sculpture, Kala-Bhavana, Visva-Bharati Univ. b. May 25, 1910; *Educ.*: Bankura and Santiniketan, West Bengal. Student of Dr. Nandalal Bose; created many outdoor colossal sculptures around Santiniketan from 1928, e.g. Santhal family, abstract forms, Sujata, Buddha, Mill-Call etc.; did many portrait studies of great men like Rabindranath, Abanindranath and Ustad-Allauddin Khan, etc.; commissioned by the King of Nepal for war memorial after war; now doing commissioned work for the Reserve Bank of India, New Delhi. *Publications*: Reproductions of his works published in various periodicals. *Recreations*: Music, Drama. *Clubs*: Lalit Kala Akademi, New Delhi and many other organizations. *Address*: Santiniketan.

RAMPURIA, Ratanlal, Industrialist. b. June 20, 1926. Is a partner of Messrs. Hazarimul Hooralal, Calcutta, managing agents of the Rampuria Cotton Mills Ltd.; Director of many industrial concerns; Chairman, Board of Directors, The Bank of Bikaner Ltd., 1950 & 1954; Director: Hoare Miller & Co., Ltd.; Singell Tea Co., Ltd.; Scott & Pickstock Private Ltd.; The Great India Trading Co. (Private) Ltd.; Rampuria Bros. (Private) Ltd.; Rampuria Cotton Mills Ltd.; National Insurance Co., Ltd.; East Coast Export-Import Ltd.; member, Managing Cttee., Bengal Textile Institute; takes keen interest in socio-economic and educational affairs; founded the 'Vidya Niketan' in Bikaner, Rajasthan; started Rampuria Publications with a view to encouraging and promoting the field of literary advancement; created charity trust and appointed trustees of various charity trusts; Chairman, Refugee Relief Cttee., Bikaner, 1949; patron, life member and member of various industrial, commercial and educational associations, chambers and societies of India; Vice-Pres. Bengal Millowners' Assoc. *Hobbies*: Literary debates, Coin collection and Photography. *Clubs*: Calcutta Club Ltd.; The Bengal Rowing Club. *Address*: Rampooria House, 3, Woodburn Road, Calcutta.



RANADIVE, Shalchandra Trimbak, M.A. (Bomb.), Communist Leader; Editor, *New Age*, Monthly Magazine of the Communist Party of India. b. Dec. 1904; *Educ.*: M.A. from Wilson Coll., Bombay, 1927. Joined the Communist Party, 1929; jailed 1929, 1934, 1940; elected member, Central Ctee., 1943; elected member, Secretariat of the National Council at the Amritsar Congress of the Party, 1958. *Publications*: *Crisis of Indian Economy* (1952); *First Five Year Plan* (1954); *Sareedaya* (1958), etc. *Address*: 7, Asaf Ali Road, New Delhi.

RANAWAT, Mr. Justice Jawan Singh, M.A. (Economics), LL.B. (Allahabad Univ.), Judge, Rajasthan High Court, since 1949. b. Dec. 4, 1902; *Educ.*: Univ. of Allahabad. City Magistrate, Udaipur State, 1926-27; City Munsif, 1927; District and Sessions Judge, Bharatpur and Bhilwara upto 1932; Judge, Mahad Raj Sabha, Udaipur, 1936-38; Punes Judge, Chief Court, Udaipur, 1938-40; Punes Judge, High Court, Udaipur, 1940-47; Chief Justice, Udaipur High Court, 1947-48; Punes Judge, High Court, United State of Rajasthan, 1948. *Address*: Jodhpur.

RANDEHWA, Mohinder Singh, B.Sc. (Hons.), M.Sc., D.Sc., F.N.I., I.C.S., Vice-President, Indian Council of Agricultural Research, New Delhi, since 1955. b. Feb. 2, 1909; *Educ.*: Govt. Coll., and Punjab Univ., Lahore. District Officer, 1934-45 and 1948-49; Secy., Indian Council of Agricultural Research, 1945-48; Addl. Director General, then Director General, Rehabilitation, Punjab, 1949-51; Commissioner, Punjab, 1951-53; Development Commissioner, Punjab, 1953-55. *Publications*: English: *Out of the Ashes*; *Beautifying India*; *Flowering Trees in India*; *Kangra Valley Paintings*; Punjabi: *Folk songs*; Hindi: *Folk songs*; Other *Publications*: 40 research papers on algae. *Address*: Queen Victoria Road, New Delhi.

RANGE, Prof. N. G., M.P.: Chairman, Swatantra Party; Principal, Indian Peasants Institute, Nidubrolu. b. Nov. 7, 1900; *Educ.*: Oxford, Chief Professor of Economics and Political Science, Panchayappa's College, Madras, 1927-30; Member, Congress Working Ctee., 1947-51; Pres., All India Kisan Sammelan, Rural People's Federation; Ex-Pres., Andhra Provincial Congress Ctee.; one of the founders of International Federation of Agricultural Producers and member of its Executive (H.Q., Washington) and Paris, and Colonial People's Freedom Front (H.Q., London) and African, Asiatic and European People's Congress (Paris); Founder, Indian Peasant Movement; member, Congress Economic Policy Ctee., Agrarian Reforms Ctee., National Labour Ctee. and Hindustan Mazdoor Sevak Sangh; led the Indian Delegations to the London (1946), the Hague (1947), and Guelph (Canada, 1949) Conferences of International Federation of Agricultural Producers; participated in I.L.O. Conferences (San Francisco), Commonwealth Parliamentary Conference (Ottawa), F.A.O. Conference (Copenhagen), etc.; toured extensively in Europe and America spreading Gandhian philosophy and ideals; specially invited to address the Fourth Congress of International Peasant Union, New York, 1954; World Govt. Conference, Tokyo, 1954 and Paris, 1956; resigned from Congress, April 1951; formed new Party, the Bharat Krishikar Lok Party 1951; rejoined Congress, 1955; member, National Executive, BSS; Vice-Pres., A.I. Co-op. Union; member, Indian Parliamentary Delegation to U.S.S.R. and Yugoslavia, 1955; visited U.K., France, Greece, Italy, Switzerland, Egypt, etc., 1955; elected Gen. Secy., Congress Parliamentary Party; resigned; is also Senior Vice-Pres., All-India Co-operative Union. *Publications*: 15 books including *Economic Organisation of Indian Villages*, *Colonial and Coloured Peoples*, *World Role of National Revolution*, *Outlines of National Revolution*, *Peasants and Communists*, *Revolutionary Peasant and Towards World Peace*, *Crdo of*

World Peasantry, *The Peasant and Cooperative Farming*, *The Panchayat Landlordism Vs. Peasant Economy*. *Address*: Nidubrolu (Post).

RANGANATHAN, Saurirajan, M.A. (Madras), I.C.S., Secretary, Ministry of Commerce, and Industry, Govt. of India. b. Nov. 12, 1908; *Educ.*: P. S. High School, Madras; and Presidency Coll., Madras; passed M.A., 1929. Indian Civil Service: U.P. Cadre; has now been permanently deputed to the Govt. of India. *Recreations*: Tennis. *Clubs*: Delhi Gymkhana Club, New Delhi; Cosmopolitan Club, Madras. *Address*: 7, Duplex Road, New Delhi.

RANGASWAMI, Govindachetty, Head of the Department of Agriculture, Annamalai Univ., Madras, since Feb. 1958. b. May 10, 1925, at Salem, Madras State; Educ.



B.Sc. Ag. from Madras Univ., 1946; Gold Medalist in Agricultural Botany and winner of Gupta Prize for Agricultural Engineering. Associate of the Indian Agricultural Research Institute, New Delhi, 1951-53; worked with Prof. Seelman A. Waksman, Nobel Laureate and discoverer of streptomycin at Rutgers Univ., 1954-56; discovered a new antibiotic, mycothricin, in collaboration with Dr. Waksman. *Publications*: About 50 scientific papers, 12 of them in foreign journals. *Special Interest*: Agricultural Microbiology. *Address*: Annamalai University, P.O. Annamalai-Nagar, Madras.

RANJAN, Dr. Shri, M.Sc. (Cantab.), D.Sc. (State-France), F.N.I., Vice-Chancellor, Allahabad Univ. b. Jan. 2, 1900; *Educ.*: Intermediate education at the Presidency Coll., Calcutta; B.Sc. and M.Sc. from the Banaras Hindu Univ., Varanasi; obtained his D.Sc. (State-France) in 1931 and M.Sc. from Trinity Coll., Cambridge, 1925. Reader in Botany, Allahabad Univ., 1925-31; appointed Professor, Nov. 2, 1941; appointed Dean, Faculty of Science twice, 1944-50 and 1952-56; Pres., Univ. Athletic Assoc., 1953-April 1957; served the U.T.C. from 1926 and retired as Captain, 1936; Pres., Botany Section, All India Science Congress, 1939; its Local General Secy., 1948; Pres., National Academy of Sciences and Vice-Pres., National Institute of Sciences; Chairman, U.P. State Board of Agriculture, 1948-51. *Publications*: *A Text Book of Plant Physiology* (Indian Press Ltd., Allahabad). *Recreations*: Music, Hunting. *Club*: Rotary Club. *Address*: 10-A, Bell Road, Allahabad.

RAO, Dr. Aragula Nagaraja, B.Sc. (Mysore), M.Sc. (Calcutta), Dr. Ing. (Berlin), Padma Shri (Jan. 1958), Scientist; Chief Industrial Adviser, Ministry of Commerce & Industry, b. Nov. 15, 1906; *Educ.*: Bangalore, Calcutta and Berlin. Lecturer in Chemistry, Mysore Univ., 1928-36; Physical Chemist and Chemical Engineer, National Sugar Institute, Kanpur, 1936-42; Chief Chemist and Chemical Engineer, Tata Chemicals, Mithapur, 1942-44; Chemical Adviser, then General Manager and Managing Dir., Eastern Chemical Co., 1944-50; joined Govt. of India, Planning Commission, as Chief of Division (Industry, Trade and Transport), 1950; selected for the I.A.S., 1948; transferred to Central Sectt. Service, May 1950; Industrial Adviser (Chemicals), Min. of Commerce & Industry, June 1951; Chief Industrial Adviser and ex-officio Jt. Secy., Ministry of Commerce and Industry, Sept. 1954; *Publications*: A number of papers dealing with both pure and applied physico-chemical problems and diverse aspects of sugar and other industries. *Recreations*: Tennis; Bridge. *Clubs*: Cricket Club of India; Delhi Gymkhana Club. *Address*: 8, Safdarjang Lane, New Delhi.

RAO, Ayyadevara Kaleswara, B.A., B.L. Speaker, Andhra Pradesh Legislative Assembly, Hyderabad, since Dec. 4, 1956. b. Jan. 22, 1891; *Educ.*: Noble Coll., Masulipatam, Madras Law Coll. Joined the Indian National Congress, 1905; General Secy., Andhra P.C.C., 1923-34; its Vice-Pres. for 4 years; member, A.I.C.C., from 1917; worked in Vande-mataram, Home Rule, and Gandhian movements; joined legal profession, 1906; gave it up permanently at the call of Mahatmaji, 1921; became a staunch disciple of Mahatmaji from 1919; was in jail several times in the freedom movements; Municipal Chairman, Vijayawada as a Congress Party man, 1925-30; M.L.A., Madras, 1937-39 & 1940-51; was Chief Parliamentary Secy., under Rajaji and Chief Whip of Congress Party; introduced and piloted successfully the Hindu Anti-Bigamy and Divorce Bill in Madras Legislature which became law in 1949; elected M.L.A., Andhra, 1955; took active part in Harijan Uplift, Women's Welfare and Rural Library Movements; was member, Senate and Syndicate of the Andhra Univ. for many years; was Vice-Pres., Andhra Hindi Pracharaka Mandal; founded the Visalandhra Mahasabha, 1949; introduced the Andhra Dowry Prohibition Bill in the Andhra Pradesh Leg. Assembly, 1950, which was passed in 1957. *Publications*: Telugu: *French Revolution*; *United States of America*; *Turkish Republic*; *Nationalist Movement of China*; *Youth Movement in China*, *Egypt*; *Lessons from the Upanishads*. *Address*: 'Nagarjuna Vihar', Himayatnagar, Hyderabad.

RAO, B. Ramakrishna, B.A., LL.B., Governor, Kerala State, since Nov. 22, 1956. b. March 13, 1899, at Palakal village, Mahbubnagar Dist; *Educ.*: Graduated from Fergusson Coll., Poona, 1921; took his LL.B., 1923. Set up practice at the Hyderabad Bar, 1924; was one of the Secretaries of the Hyderabad Social Conference; prepared a scheme for the expansion of the State Legislative Council as member, Hyderabad Reforms Assoc.; one of the founder members: Andhra Central Ctee.; Hyderabad Political Conference, Akola; also Executive member, State Congress, 1938; Secy.: People's Convention, 1937; Hyderabad Subjects League; was Pres., Andhra Congress for 3 years; imprisoned in connection with the 'Quit India' movement; member, Working Ctee., State Congress; Minister for Revenue and Education, Hyderabad, June 1950-March 1952; elected to the State Assembly from Shadnagar constituency during the general elections; Chief Minister, Hyderabad State, March 1952-Oct. 1956. *Address*: Raj Bhavan, Trivandrum.



RAO, B. Shiva, M.A. (Allahabad) in English Literature, M.P. from Mysore. b. February 26, 1891; *Educ.*: Madras and Allahabad. Was on the Indian Workers' delegation, I.L.O. Conference, Geneva, 1929-30; a delegate to the Round Table Conference in London, 1930-31; A member of the Indian delegation to the U. N. General Assembly in 1947, '48, '49, '50, '52. *Publications*: *Select Constitutions of the World*; *The Industrial Worker in India* (Allen & Unwin, London, 1939). *Address*: 16, Tughlak Road, New Delhi.

RAO, Chandra Rajeswar, Public Worker; Secretary, Andhra Communist Party. b. June 6, 1914 at Mangalapuram, Kistna Di., Andhra Pradesh; *Educ.*: Hindu High School, Masulipatam; Banaras Hindu Univ.; passed I.Sc. and studied up to B.Sc.; joined Vijnanapattam Medical Coll., 1936; discontinued, 1937; joined the Communist Party, 1931 at Banaras; worked in Andhra in youth and peasant movements from 1936; member of Central Ctee., C.P.I., from 1948; General Secy., C.P.I., 1950-51. *Address*: Himayatnagar, Hyderabad.

RAO, Devalapalli Ramanuja, B.A., LL.B., Author. b. Aug. 24, 1917; *Educ.*: B.A. from Nizam Coll., Madras Univ., 1939; LL.B. from Law Coll., Nagpur Univ., 1944. Literature, Education, Journalism and Politics; Pres., Andhra Saraswatha Parishath, Hyderabad (1952-53); member, Osmania Univ. Senate (1954-55); Central Advisory Board for Education, Hyderabad Govt. (1952-55); Central Text Book Ctee. (1952-55); Selection Ctee. for Teachers of Hyderabad Govt. (1952-55); one of the judges for the short-story competitions conducted by A.I.R., Hyderabad, 1956; Secy., Andhra Pradesh Sahitya Akademi, Hyderabad. *Publications*: Literary criticism: *Narya Kavitha Neevantham* (1946); *Saraswatha Navanetham* (1955); *Vyasa Manjusha* (1956), Children's Literature: *Mana Desam* (1954); *Adima Nivasa* (1956); contemporary politics: *Visalandhra Vachinidhi* (1956); Literary Essays: *Navanetham* (1951); Poetry: *Pacha Thoranam* (1951), etc. *Recreations*: Bridge; Gardening. *Address*: Andhra Saraswatha Parishath, Tilak Road, Hyderabad 1.

RAO, J. V. Narasing, M.A. (Political Science), LL.B., Minister for Irrigation & Power, Andhra Pradesh. b. Oct. 1914; *Educ.*: High School, Karimnagar, Osmania Univ., Aligarh Univ. & Benares Univ. Started career as an Advocate, Hyderabad High Court; became one of the leading lawyers; got enrolled in Supreme Court; connected with political organizations for twenty years in different capacities since the inception of the Andhra Mahasabha; member: A.I.C.C.; Executive of the Pradesh Congress Ctee. for several years; for two years Pres., Pradesh Congress Ctee.; Secy., Andhra Vidyalaya High School for 12 years; member: Governing Body of New Science Coll. and Badruka Coll., Hyderabad; Osmania Univ. Senate and also of the Council since five years and member of several sub-committees of Osmania Univ.; Pres., Gagan Mahal Co-operative Assoc. *Address*: Begumpet, Hyderabad.

RAO, Kanuru Lakshman, B.E., M.Sc., Ph.D. (Hrm.), M.I.C.E. (Lond.), M.I. Struct. E. (Lond.), M.I.E. (India), Member (Designs & Research), Central Water and Power Commission, Govt. of India. b. July 15, 1902; *Educ.*: Madras & Birmingham; first in the Madras Univ. to obtain M.I.E. (India), 1938. Junior Engineer, Madras P.W.D., 1925-36; Asst. Engineer, Dist. Board, Asst. Prof., Engineering Coll., Inseln, Burma; worked later as Lecturer, Engineering Coll., Madras and as a Senior Lecturer, Loughborough, Leicestershire, U.K.; from 1946, worked as Designs Engineer, Madras Govt., Director of Designs, Central Govt., Chief Engineer, Floods, Central Govt.; was engaged in the designs of most of the major River Valley Projects in the country like Tungabhadra, Bhawani, Malampuzha, Hirakud, Chambal, Kosi, Nagarjuna-sagar, Dibrugarh Protection Works, etc.; has visited most of the dams in Egypt, Europe, U.S.A. and China; is Vice-Pres. for Asia for the International Conference on Soil Mechanics & Foundation Engineering; is Chairman, Civil Section of Institution of Engineers (India); is Pres., National Ctee. of the International Conference on Soil Mechanics & Foundation Engineering; awarded the President's Gold Medal twice for the best contributions to the Journal of Institution of Indian Engineers. *Publications*: *Calculations, Designs & Testing of Reinforced Concrete*; contributed various articles for various Technical Institutions. *Address*: Central Water & Power Commission, Bikaner House, New Delhi.

RAO, Madapati Hanumantha, D.Litt. (Osmania Univ., 1956), Padma Bhushan (1955), Chairman, Andhra Pradesh Legislative Council, since July 7, 1958. b. Jan. 28, 1885; *Educ.*: Warangal. After his education, served under the then Nizam's Govt. for 14 years. Enrolled and practised as an Advocate of the former Hyderabad High Court for 24 years; was elected Mayor of Hyderabad consecutively for three terms, April 1951-April 1954; is

popularly called "Andhra Pitamaha" for services rendered to Andhra public in Hyderabad State. *Publications*: Telugu: *History of Andhra Movement in Telangana*; Two collections of short stories named *Malika Gurham* and *Malathi Gurham*. *Address*: "Andhra Kutir", Hanuman Tekdi, Hyderabad.

RAO, Mysore Subba, B.A. (Mysore), I.C.S., Chief Secretary to the Govt. of Bihar, since Sept. 1956. b. Oct. 25, 1907; *Educ.*: Bangalore. Joined the I.C.S., 1931, Magistrate and Collector, Puri, 1937-39; Cuttack, 1939-41; Shahalad, 1942; Deputy Secy., Political and Appointment Department, Bilal, 1941; Joint Secy., Political and Appointment Deptt. and Provincial Press Adviser, 1945; Registrar of Co-operative Societies, Bilal, 1946-47; Cane Commissioner, Bilal, 1947; Special Officer, Development and Employment Deptt., July 1947; Secy., Development and Employment Deptt., Aug. 1947; Secy., Finance Deptt., Aug. to Sept. 1947; Commissioner, Tirhut Division, Sept. 1947-April 1948; Commissioner, Chota Nagpur Division, 1948-52; Addl. Member, Board of Revenue and Land Reforms Commissioner, 1952-55, again from Dec. 1955-Aug. 1956; Chief Secy., Aug. to Dec. 1955. *Recreations*: Tennis, Riding, Swimming and Photography. *Address*: 8, Circular Road, Patna.

RAO, Nandury Prasada, Member, Central Executive Ctee., Communist Party of India; General Secy., All-India Kisan Sabha, since 1953. b. Sept. 24, 1912; Educ.: Guduvada and Machilipatnam, Andhra; Varanasi, U.P. Joined the National Movement while a student, 1929, and the Communist Party, 1934-35; was organizer of Andhra Youth League for some time, connected with the Kisan Movement, since 1936; was member, Provincial Exec. of the Congress Socialist Party; participated in the well-known Andhra peasant march; led the Munagala Peasant Satyagraha and imprisoned for one year, 1939; sentenced to 1½ years for anti-war activities and later interned in his village for sometime; General Secy., Andhra Provincial Ryots' Assoc. and member, Provincial Ctee. of the Communist Party of India, since 1942; participated in many Kisan struggles in Andhra; detained for six months, 1947; again arrested, 1948; escaped from jail; was in the Telangana peasant armed struggle, emerged towards the end of 1952; elected to the Rajya Sabha, 1953. *Publications*: Several booklets on agrarian problems; *Basic Principles of Marxism in Telugu*. *Recreations*: Reading, Touring. *Address*: 13-C, Ferozshah Road, New Delhi.

RAO, Panduranga Kodanda, M.A. (Madras), has been Member, Servants of India Society, 1921-58. b. Dec. 25, 1889; *Educ.*: Presidency Coll., Madras, Lecturer in Botany, Central Coll., Bangalore, 1915-21; Private Sec. to Rt. Hon. V. S. Srinivasa Sastri in India, England and South Africa, 1922-32; Editor, *Servant of India*, Poona, 1930-33; Carnegie Scholar, Yale Univ., U.S., 1934-35; World Study Tour, 1934-37; Seminar, Conference on Education in the Pacific, Honolulu, 1936; Senate, Academic Council and Executive Council, Nagpur Univ., 1939-42 and 1948; Govt. of India Deputation to Malaya, 1946; Adviser to India's Delegate to the Permanent Migration Ctee. of the I.L.O., Montreal, Canada, 1946; Secy.: Society for the Elimination of Beggary, Nagpur, M.P., 1940-44; Vice-President, Indian Council of World Affairs, New Delhi, 1954-57; member, Govt. of India's Deck Passenger Ctee., 1950; member, Prohibition Enquiry Ctee., Govt. of Madhya Pradesh, 1951; Member, Mysore Educational Reforms Ctee., 1952-53; Member, Conference on Race Relations in World Perspective, Honolulu, 1954; member, Prohibition Enquiry Ctee., Govt. of India, 1955. *Publications*: *Malabar Tenancy Problem: East Versus West*; *Denial of Contrast*; *Culture Conflicts: Cause and Cure*; *Technical Education and Industrial Development in America: Some Aspects*. *Address*: Basavangudi, Bangalore 4.

RAO, Puvvada Seshagiri, 'Kavipadusha', Telugu writer. b. in Movva, birth place of Kshetranya Kavi and Puvvada Sree Rama Kavi. Is also a broadcaster; participated in the National Symposium of Poets on the Republic Day, 1958; strives for communal harmony. *Publications*: Kavyas, novels, plays and essays. Poems: *Satapatnam*; *Gobalsam*; *Taj Mahal*; *Dara*; *Palacelli*; Prose: *Bravaka*; *Aura*; *Koaru*; *Andhra Tejam*; Plays: *Durga Das*; *Dehki Durbar*. *Address*: Professor of Telugu, National College, Masulipatam.

RAO, R. Krishna, Diploma in Fine Arts and Painting, Instructor in Commercial Arts, Govt. School of Arts and Crafts, Madras, since 1948. b. Nov. 4, 1915; Educ.: Union Christian High School, Mathural. Worked as Layout Expert in the Deptt. of War Publicity, 1945; Textile Designer, 1946-48; his painting 'Street Scene' is in the National Art Gallery, Madras; also represented at Tanjore Art Gallery; two of his works have been acquired by Mysore State; is commissioned to do a panel for the murals of Lok Sabha; has been influenced in his paintings of subjects of South Indian interest by the murals found in South Indian temples; has participated in the All-India Art Exhibition; Secy., Progressive Painters' Assoc., Madras. *Address*: 23, Trustupuram Major, Madras 24.

RAO, S. V. Krishnamoorthy, B.Sc., LL.B., Deputy Chairman, Rajya Sabha. b. Nov. 15, 1902; *Educ.*: Collegiate High Schools in Shimoga and Tumkur; Central Coll., Bangalore; Fergusson Coll. and Law Coll., Poona. Suffered imprisonment for 18 months in connection with the Quit India Movement, 1947; member: Mysore Representative Assembly, 1945-49; Constituent Assembly of India, 1947-50; Commonwealth Parliamentary Delegation, 1948; Deputy Chairman; Council of States, May 1952 to Aug. 1954; Rajya Sabha, Aug. 1954 to April 1956; re-elected, April 1956; Leader, Parliamentary Delegation to U.S.S.R. and Yugoslavia, May-June 1955; Deputy Leader, Parliamentary Delegation to China and Hongkong, Oct. 1956; visited U.K., West Indies, U.S.A., Canada and Japan on a study tour of Parliamentary Institutions, Jan. & Feb. 1959. *Publications*: (In Kannada): *Satyagraha in South Africa, To the Women by Gandhiji*; *Discovery of India*, by Pandit Nehru; *Letters from Delhi*; *Life of Louis Pasteur*; (In English): *The Leftist Experiment*. *Recreations*: Gardening; Spinning. *Club*: Constitution Club, New Delhi. *Address*: No. 10, Akbar Road, New Delhi.

RAO, Vijayendra Kasturi Ranga Varadachari, M.A. (Bombay), B.A., Ph.D. (Cambridge), D.Litt. (Delhi), Vice-Chancellor, Delhi University. b. July 7, 1908; Educ.: Wilson Coll., Bombay; Gonville and Caius Coll., Cambridge. Principal and Professor of Economics, L.D. Arts Coll., Ahmedabad (1937-42); Director of Statistics and subsequently Planning Adviser, Food Dept., Govt. of India (1944-46); Food Adviser to Indian Embassy, Washington (1946-47); Chairman, United Nations Sub-Commission on Economic Development (1947, 1948, 1949, 1950); Corresponding Member, Institut de Science Economique Appliquees, Paris, since 1948; member, Governing Council, International Assoc. for Research in Income and Wealth (1947-51); Correspondent, Royal Economic Society in India (1950-55); Pres., Indian Economic Association (1949); member, Taxation Enquiry Commission, 1953-55; Univ. Professor and Founder Director, Delhi School of Economics, Univ. of Delhi 1942-57. *Publications*: *Taxation of Income in India*; *An Essay on India's National Income, 1925-29*; *The National Income of British India, 1931-32*; *War and Indian Economy: Post-war Rupee*. *Recreation*: Walking. *Club*: University Club, Delhi. *Address*: 5, Cavalry Lines, Delhi 8.

RAREWALL, Sardar Gnan Singh, Minister for Community Development and Panchayats, Govt. of Punjab since June 1958. b. Dec. 1901; Educ.: Mahendra College, Patiala. Started his career as a First Class Magistrate in Patiala, 1928; was attached to the Foreign

Office, worked with Mr. K. M. Panikkar; had secretarial training; appointed Excise Commissioner; became Sessions Judge and then District Magistrate; has been associated with a number of social and educational activities in Patiala and Punjab; was Pres., Shri Guru Singh Sabha, Patiala for nine years; founder, Rotary Club, Patiala; acted on a number of Committees appointed from time to time by the State administration; was promoted as Revenue Commissioner, 1942; later appointed as Judge, High Court of Judicature, Patiala; Revenue Minister, 1947; nominated by His Highness as member of the Constituent Assembly; Premier, PEPSU, 1949-52; elected member, PEPSU Legislative Assembly and Leader of National Front; Chief Minister, PEPSU, April 1952-March 1953; Leader of the Opposition, 1954-56; Minister for Electricity & Community Development, 1957-59. Address: Chandigarh.

RATH, Radhanath, Minister for Agriculture, Transport, Cooperation, Orissa, since May 22, 1959. b. 1897; Educ.: Cuttack. Entered journalism, 1918; member: A.I.N.K.C.; Servants of the People Society; was a detainee in the 1942 movement; took active part in the Indian States People's Movement; Convener, Provincial Press Advisory Board; has been Editor, *Samaj*, Oriya nationalist daily; was Minister for Finance and Education, Orissa; Minister for Development, Orissa, till May 1959. Publications: Book on the life of Mahatma Gandhi and other important personages. Recreation: Study. Address: Minister for Works, Nimchauri, Cuttack 2.

RAU, Sir Benegal Rama, Kt. (1939), C.I.E. (1939), M.A. (Cantab.), Ex-Governor, Reserve Bank of India. b. Jan. 10, 1889; Educ.: Presidency Coll., Madras, and King's Coll., Cambridge. Entered I.C.S., Nov. 1913; Under-Secy. and Dy. Secy., Govt. of Madras, 1919-24; Secy., Indian Taxation Cttee., 1925-26; Dy. Secy., Finance Dept., Govt. of India, 1926-28; Financial Adviser, Simon Commission, 1928-30; Jt. Secy., Industries Dept., Govt. of India, 1930-31; Secy., Round Table Conferences and Jt. Select Cttee. of Parliament on India Bill, 1931-34; Deputy High Commissioner for India in London, 1934-38; Agent-General and High Commissioner for India in the Union of South Africa, 1938-41; Chairman, Bombay Port Trust, 1941-46; Indian Ambassador in Tokyo, 1947-48; Leader of Indian Delegation, Commonwealth Conference at Canberra, 1947; Indian Ambassador in United States, 1948-49; Governor, Reserve Bank, 1949-57. Address: Mafatlal Park, Bombay 26.

RAU, M. Chalapati, M.A., B.L., Editor, *National Herald*, Lucknow, since 1946. Educ.: Presidency Coll. and Law Coll., Madras. Advocate, Madras High Court, 1934; contributor to the Press; entered journalism, 1936; Asstt. Editor, *National Herald*, 1938-42; Asstt. Editor, *Hindustan Times*, 1943-45; Member, UNESCO Press Experts Commission, Paris, 1950; Co-Founder, International Press Institute, New York, 1950; Pres.: All India Convention of Working Journalists, New Delhi, 1950; Federation of Working Journalists, 1950-55; member: Press Commission, 1952-54; Official Goodwill Mission to China, 1952; UNESCO Experts' Conference on Journalism Education, Paris, 1956; Delegate, UNESCO General Conference, New Delhi, 1956; Representative, U.N. General Assembly, 1958. Publications: Co-Editor, *Gandhiji*, Seventy-fifth Birthday volume. Clubs: Mahomed Bagh Club, Lucknow. Address: *National Herald*, Lucknow.

RAU, Mr. Justice Nittoor Sreenivasa, B.Sc., B.L., Judge, High Court of Mysore, Bangalore, since June 11, 1955. b. Aug. 24, 1903; Educ.: A. V. School, Challakere; Govt. High School, Shimoga; Govt. Collegiate High School, Bangalore; Central Coll., Bangalore; Govt. Law Coll., Madras. Honorary Teacher, National High School, Bangalore, 1925-26 and 1927-28; Advocate, High Court, Bangalore, 1928-55;

Advocate General, Mysore State, 1953-55. Publications: Co-translator into Kannada of Gandhiji's 'Experiments with Truth' and commentary on the Gita (*Anasaktiyoga*). Recreations: Indoor Games and Touring. Clubs: The City Institute, Bangalore. Address: 21, South End Road, Basavangudi P.O., Bangalore 4.

RAU, Dr. U. Krishna, M.B.B.S., Speaker, Legislative Assembly, Madras, since May 1957. b. Oct. 10, 1900; Educ.: St. Paul's High School, Madras; Madras Christian Coll. High School; Presidency Coll., Madras; M.B.B.S. from Madras Medical Coll., 1924. Member, Madras Corporation Council, 1930-51; Mayor of Madras, 1947-48; member, Madras Leg. Assembly, since 1952; Minister for Industries and Labour, 1954-55; Editor, *The Antiseptic*, and *The Health*, Madras; Chairman, Madras branch of Indian Red Cross Society and St. John's Ambulance Assoc.; member, Syndicate, Madras Univ. Recreations: Tennis, Football. Clubs: Cosmopolitan Club; The Madras United Club; Gymkhana. Address: 323-324, Thambu Chetty Street, Madras 1.

RAUF, Mohamed Abdul, B.A. (Hons. in Jurisprudence), 1924, B.C.L. (Oxon.), 1925, called to the Bar, Middle Temple, Jan. 1924, LL.D. (Dublin), Indian Ambassador in Belgium. b. November 15, 1901; Educ.: St. Paul's High School, Rangoon, and Worcester College, Oxford. Practised at the Bar in the Rangoon High Court until end of 1941; practised at the Bar at Allahabad High Court, 1942 to 1945; appointed Judicial member of Income-tax Appellate Tribunal; Representative of the Govt. of India in Burma, Nov. 1946-Aug. 15, 1947; Indian High Commissioner in Burma, Aug. 1947-Jan. 1948; Ambassador in Burma, 1948-52; Ambassador in Japan, 1952-54; High Commissioner in Canada, 1954-58. Address: C/o External Affairs Ministry, New Delhi.

RAUT ROY, Satichandanda, Poet and Writer. b. 1915, in Orissa; Educ.: Graduated, 1939. First to introduce modern prose-verse in Oriya literature and ushered in a new era in the literature of Orissa; Specialist in Industrial Relations; attended Social Services Seminars held in Australia and New Zealand as a nominee of the Govt. of India, 1952; has written many treatises on subjects of Industrial Relations, Social Welfare and Labour legislation in India; participated in the Harvard Univ. International Seminar of Arts and Science at the invitation of Harvard Univ., 1955; visited on study and lecture tour the South-East Asian Countries, 1952, and Britain, France, Italy, Switzerland, 1955; appointed a Regional Adviser in Calcutta to the Central Board of Film Censors, 1956. Publications: English: *The Boatman Boy and Forty Poems*; Poems and books on Industrial relations, etc.; Reference: *Sochi Raut Roy—A Poet of the People* written by 22 eminent persons of India; other works: *Baji Raut*; *Avigyan*; *Avijan*; *Bhanumati Desai*; *Palkieri*; *Pandulipi*; short stories, novels, etc. Address: Executive Officer, Kesaram Cotton Mills Ltd., 42, Garden Reach Road, Calcutta 24.

RAY, Dr. Anath Bandhu, M.B., F.S.M.F. (West Bengal), (1947), Minister of State in Charge, Deptt. of Health, Govt. of West Bengal, since April 26, 1957. b. Nov. 30, 1897; Educ.: Cuttack Mission School, Orissa; Hooghly Govt. Coll., Bengal; M. B. from Carmichael Medical Coll., Calcutta, 1923; Post Graduate training in England and Scotland; Gold medalist in Surgery; Senior House Surgeon, Carmichael Medical Coll. Hospitals, Calcutta; Teacher of Anatomy & Surgery, Bankura Sammilani Medical School and Hospital; Surgeon there since 1924; Supdt., Bankura Sammilani Medical School & Hospital, 1943-48; Life Member, Red Cross Society; Member, Assoc. of Surgeons of India; Fellow of the State Medical Faculty (West Bengal), since 1947; member, I.M.A.; Chairman, Dist. Resistance Group, Bankura; Commandant, Special Constabulary, Bankura; member:

West Bengal P.C.C.; Board of Governors, Christian Coll., Bankura. Clubs: Calcutta Medical Club; Bankura Medical Club. Address: 67-A, Gray Street, Calcutta.

RAY, Nihar Ranjan, M.A. (Cal.), D. Litt. & Phil. (Leiden), F.L.A. (Great Britain), F.R.S.A., F.R.A.S., M.P. (Rajya Sabha), Bagisvari Professor of Indian Art and Culture, Calcutta University. b. Jan. 16, 1904; Educ.: A. M. College, Mymensingh; M. C. College, Sylhet; University College, Calcutta; University College, London; Leiden University. Calcutta University prizeman and gold medalist; Mr. Nalin Research Gold Medalist; Fremchard Roychanda Scholar; Griffith Prizeman; Mount Gold Medalist; Sarojini Basu Medalist, Calcutta University. Government of Bengal Research Fellow in Indian Art and Archaeology, 1927-30; University Post-Graduate Lecturer in Indian History, Art and Archaeology, 1931-44; Ghosh Travelling Fellow, Calcutta University, 1935-36; represented Calcutta University at the XIX International Congress of Orientalists, Rome, 1935, the Anglo-American Historical Conference, London, 1936 and the International Numismatists Congress, London, 1936; President, Federation of the Indian Students Abroad, Prague Session, 1936; Member, Indian National Delegation, Pacific Relations Conference, 1951; Chief Librarian, Calcutta University, 1937-44; Pres., Bengal Library Association, 1939-43; General Secretary, Asiatic Society, Calcutta, 1940-52; Vice-Pres., Indian Society of Oriental Art, Calcutta; Visiting Prof., Washington Univ. and Guest Lecturer at U.S. Univs., 1952-53; Tagore National Prize-man, 1950; Cultural Adviser to Govt. of Burma, 1954-56; Pres., All-India Bengali Literary Conference, 1954; Sectional Pres., Indian History Congress, 1954; member: Central Advisory Board of Education; Central Advisory Board of Archaeology; Sangit Natak Akademi; Lalit Kala Akademi, etc. Publications: *Brahmanical Gods in Burma*, *Sanskrit Buddhism in Burma*, *Theravada Buddhism in Burma*, *Indo-Burmese Art*, *Murphy and Sanga Art*, *Dutch Activities in the East*, *Rahmdra-Sahitya Bhumi* in 2 volumes (in Bengali), *A People's History of Bengal* (in Bengali), etc., etc. Address: The University, Calcutta.

RAY, Priyada Ranjan, M.A., F.N.I. (1935), Hon. Professor and Off. Director, Indian Assoc. for the Cultivation of Science, Calcutta. b. January 16, 1888; Educ.: Presidency College, Calcutta. Professor of Chemistry, City College, Calcutta (1913-18); Assistant Palit Professor and Lecturer in Chemistry, Calcutta Univ. (1918-37); Khaira Professor of Chemistry (1937-45); Palit Professor of Chemistry (1946-52); President, Indian Chemical Society (1947-48); President, Indian Science Congress, Chemistry Section, 1932; member, Cttee. of New Reactions of the International Union of Chemistry; President, Indian Science News Association; member, Council of S.S.E.S. (U.S.A.). Publications: Articles in Indian, German and English journals on problems of Inorganic, Analytical and Magneto-Chemistry; *The Theory of Valency and the Structure of Chemical Compounds*; *Outlines of Inorganic Chemistry*; Translation of Riesenfeld's *Anorganische Chemisches Praktikum*. Address: 50/1, Hindusthan Park, Ballygunge, Calcutta.

RAY, Smt. Ramika, B.Sc. (Econ.) (London), M.P. b. Jan. 1904; Educ.: Loretohouse School and Diocesan Coll., Calcutta; London School of Economics, London University (1922-25). Member and Social Secy., All India Women's Conference, since 1931; member: Central Leg. Assembly, 1943-46; Central Board of Education, Govt. of India, 1941-47; Governing Body of Visva-Bharati Univ., Santiniketan, 1941-48 and since May 1958;



Constituent Assembly and Provisional Parliament, 1948-52; Pres., All-India Women's Conference, 1952-54; Minister of Rehabilitation, Govt. of West Bengal, 1952-57; Member of Parliament (Lok Sabha), since 1957; Member of Estimates Ctee., Lok Sabha; Leader, Plan Projects Team on Social Welfare (Planning Commission), 1958. Address: 24/1, Ballygunge Circular Road, Calcutta-19.

REDDI, Dhanapati Sadasiva, M.A. (Hons.) (Madras), M.A. (Hons.) (Oxford), Diploma in Anthropology (Oxon.), Vice-Chancellor, Osmania Univ., Hyderabad, b. April 28, 1897; Educ.: Madras Christian Coll., Madras; M.A. (Hons.), 1918; St. John's Coll., Oxford; M.A. (Hons.), 1921; Diploma in Anthropology, 1922. Joined the education service of Madras State, 1923; served in various capacities in the teaching and administrative branches; Director of Public Instruction, Madras, 1948-52; in Liberia as Head of the UNESCO Technical Assistance Mission, June 1952-May 1954; again Director of Public Instruction, Andhra, 1954-57. Clubs: Presidency & Gymkhana Clubs, Madras; Golf Club, Bangalore; Secunderabad Club. Address: Vice-Chancellor's Lodge, Hyderabad 7.

REDDI, Dr. (Smt.) S. Muthulakshmi, M.B. C.M., Padma Bhushan (1956), Politician and social worker, b. 1886; Educ.: Madras Univ.; first woman medical graduate of the Univ.; won five gold medals and honours for distinction in medicine, surgery and midwifery. Gave up practice and devoted wholeheartedly to the emancipation of women and for the care and protection of children; Indian delegate to the International Conference of Women, Paris and America; associated with the Women's Indian Assoc. since its inception, 1917; is now its Pres.; was Pres. and Chairman, A.I.W.C.; presided over the Congress Constructive Workers' Conference during the last visit of Mahatma Gandhi, 1940; presided over A.I.W.C., Lahore, 1931; tendered evidence before the Joint Parliamentary Ctee., 1933; Founder and Dir., Aaral Home for Destitute Children and Women; Founder and Chairman, Cancer Institute, Madras; first Alderwoman, City Corporation; Vice-Pres., Madras Leg. Council, 1926-30; resigned as a protest against the imprisonment of Mahatma Gandhi, 1930. Publications: *Stri Dharma*; *Mrs. Margaret Cousins and her work in India*; *Maternity and Child Welfare*; *Women's Work in Madras*. Recreations: Writing; Social Work. Address: "Shanti", 15, Bessant Avenue, Adyar, Madras 20.

REDDY, Dr. Bawada Gopala, Minister for Revenue and Civil Expenditure, Government of India since May 10, 1958. b. August 5, 1907; Educ.: Graduated from Viya Bharathi, Santiniketan, 1927. Actively connected with Congress, since 1931; imprisoned several times; member of the first Congress Ministry, 1937-39 in Charge of Local Administration; re-elected to the Madras Assembly, 1946; Finance Minister and Leader of the House, 1947-52; Pres., A.P.C.C., Dec. 1953-June 1955; re-elected from two constituencies in the General Elections to the Andhra Assembly; elected Leader, United Congress Legislature Party, March 20, 1955; held the portfolios of Home, Services, Finance, Education, etc.; Pro-Chancellor, Andhra and Sri Venkateswara Univs.; Pres., Telugu Bhasha Samithi, since 1947; Andhra Pradesh Sahitya Academy from 1957; awarded the Honorary degree of Doctor of Letters by the Andhra Univ., Dec. 8, 1955; has translated some books of Rabindranath Tagore into Telugu from original Bengali. Chief Minister, former Andhra, March 1955 to Oct. 1956; Minister, Andhra Pradesh, Nov. 30, 1956 to March 1957; Minister for Finance, Govt. of Andhra, April 1957-April 1958; Deputy Minister, Finance, Govt. of India, April 1958-May 10, 1958. Address: Buchireddipalam, Nellore District; New Delhi.

REDDY, Mr. Justice Jagannathan Pingle, B.Com. (Leeds), B.A. (Law Tripos), LL.B. (Oxfor.), Barrister-at-Law, Judge, High Court of Andhra Pradesh, since Nov. 1956.

b. Jan. 23, 1910; Educ.: St. George's Grammar School, Hyderabad; City of Leeds School, Leeds; Univ. of Leeds; Trinity Hall, Cambridge; called to the Bar by Gray's Inn; Secy. and Pres., Indian Assoc., Leeds; Fellow of the Royal Society of Arts (1935). Practised in the High Courts of Bombay, Madras and Hyderabad (1937-46); Legal Adviser to the Govt.-sponsored commercial undertakings (viz., State Bank of Hyderabad, Deccan Airways Ltd., and the Hyderabad Commercial Corporation); member, Govt. Ctee. for Hyderabad Company Law and Insurance Law; Expert Member, Leg. Council for Income-tax and Company law; Lecturer in Law, Osmania Univ.; Dy. Secy. & Chief Draftsman, Legal Deptt. in the rank of Dist. & Sessions Judge (1946-48); Addl. Judge, Hyderabad High Court (1948); Dist. & Sessions Judge, Secunderabad, (1950-52); Punes Judge, Hyderabad High Court (1952-Nov. 1956); Judge, Court of Enquiry into Non-Mulki Riots (1952); member, Univ. Council and Academic Council, and Dean, Faculty of Law, Osmania Univ.; Pres., Medico-Legal Society, Hyderabad. Publications: *The Hyderabad Excess Profits Tax. Recreations*: Tennis; Badminton. Club: Secunderabad Club. Address: Salfabad, Hyderabad.

REDDY, Konda Venkat Ranga, Minister for Home (Police, Prohibition), Govt. of Andhra Pradesh, since Apr. 1957; Advocate. b. Dec. 10, 1891. Educ.: Private Schools; Normal School, Hyderabad; passed the Law Exam. conducted by the High Court. Practised law, 1909-46; one of the founders of Andhra Movement started in the State, 1923; Pres., Andhra Mahasabha, 1937-42; was on the Working Ctee., Andhra Mahasabha as Treasurer, Member, etc.; has taken active interest in the organisation and management of libraries, hostels, educational and cultural institutions; M.L.C., Hyderabad, 1937-39; initiated a number of important measures including the abolition of Jagirs, legalisation of inter-caste marriages among Hindus and the right of the children to inheritance, removal of untouchability, Hindu women's rights to property, etc.; joined freedom movement as a whole-time worker, 1946; was associated with the Andhra Mahasabha till its merger with the Hyderabad State Congress; courted jail in connection with the freedom struggle launched by the Hyderabad State Congress, 1948; Pres., Telangana P.C.C., 1950-52; member, A.I.C.C.; is on the Executive Ctee. of the Pradesh Congress; M.P., Aug. 1950-Feb. 1952; elected M.L.A., Hyderabad from the Shahabad Constituency; was on the Managing Ctee., Andhra Vidyalaya, Andhra Girls' High School, Reddy Hostel, Vemana Andhra Bhasha Nilayam, is associated with a number of other Andhra institutions; was Founder, Vemana Andhra Bhasha Nilayam; was its Pres. for a number of years; was Pres., Hyderabad State Riyaya-e-Jagir Assoc.; Pres., Hyderabad P.C.C., Jan.-June 1954; Minister for Revenue, Excise and Forests, Hyderabad, March 1952-Oct. 1956, Minister for Revenue, Andhra Pradesh, Nov. 1956-March 1957. Publications: *Principles of Jurisprudence and Criminal Digest of Hyderabad. Recreation*: Gardening. Address: Begumpet, Hyderabad. Permanent Address: "Sree Sadan", Feekhana, Hyderabad.

REDDY, Kyasambally Chongalaraya, B.A., B.L., Minister for Works, Housing and Supply, Govt. of India, since Apr. 1957. b. May 4, 1902; Educ.: Pachalyappa's Coll., and Law College, Madras. Pres., Mysore Peoples' Federation, 1935-37; Pres., Kolar Dist. Board, 1933-37; was for some time Editor of *Jana-sant*; effected a coalition of the Peoples' Federation with Mysore Congress, Oct. 1937; Pres., Mysore Congress, 1937-38 and 1946-47; was incarcerated four times; went to England and the Continent as representative



of the All-India States Peoples' Conference and

Miners' Conference to attend the International Miners' Conference, 1946; elected Pres., Mysore Congress and successfully launched Satyagraha for the establishment of Responsible Govt. in Mysore; elected Leader of the Assembly thrice since 1947 and was Chief Minister, 1947-52; was member, Indian Constituent Assembly, 1947-50; elected again to the State Legislative Assembly in 1953; member: Rajya Sabha; visited U.S.S.R. & Europe, on Soviet Govt's invitation, Oct.-Nov. 1956; elected member, Lok Sabha, March 1957; member, Ex.-Ctee., All-India States Peoples' Conference, 1944-45; Working Ctee., Mysore Congress, since 1937; Pres., Rashtrabhasha Prachar Samiti of Wardha, Delhi Centre, since 1952; Founder Member, Delhi School of Economics; Minister for Production, Govt. of India till April 1957. Address: Kysambally Village P.O., K.G.F., Mysore State; 9, Janpath, New Delhi.

REDDY, Neelam Sanjiva, Chief Minister, Andhra Pradesh, since Nov. 1, 1956. b. May 19, 1913; Educ.: Adyar; Arts Coll., Anantapur. Secretary, Andhra P.C.C., 1936-46; courted jail several times for participation in Satyagraha movement; elected M.L.A., Madras, on Congress ticket from Anantapur General Constituency, 1946; was Secy., Madras Congress Legislature; member, Indian Constituent Assembly, 1947; Minister for Prohibition, Housing and Forests, Madras, April 1949-April 1951; resigned and elected Pres., Andhra P.C.C.; was Exec. Ctee. member and Parliamentary Board member of A.I.C.C. till the Avadi Congress Session; elected member, Rajya Sabha in bye-election, 1952-53; elected member, Leg. Assembly from Kalahasthi Constituency, 1953; unanimously elected Leader, Andhra Congress Legislature Party; became the first Dy. Chief Minister of Andhra State, Oct. 1, 1953; again elected member, Andhra Leg. Assembly from Kalahasthi, Feb. 1955; Dy. Chief Minister, Andhra, March 28, 1955-Oct. 31, 1956; Leader, Andhra Pradesh Congress Legislature Party, Oct. 21, 1956. Address: Hyderabad.



REDDY, Mr. Justice P. Chandra, B.A., B.L., Chief Justice, High Court, Andhra Pradesh, since Jan. 31, 1958. b. July 1, 1904; Educ.: V. R. High School, Nellore; Pachalyappa's Coll., Madras; Law Coll., Madras; took law degree, 1927. Enrolled as an Advocate, Madras High Court, Aug. 1928; worked in the Chambers of Shri P. Venkataramanarao (Govt. pleader) who subsequently became a Judge of the High Court of Madras and later Chief Justice of Mysore High Court; acted as Crown Prosecutor, 1946; President of the Republican Art Theatre till 1954; Judge, High Court, Madras, 1949-54; Chairman, Society for the Protection of Children, 1953-54; Judge, Andhra High Court, July 1954-Oct. 31, 1956; Judge, Andhra-Pradesh High Court, Nov. 1, 1956-Jan. 30, 1958; Off. Ch. Justice from Jan. 1, 1958 to June 15, 1958; Permanent Ch. Justice since June 15, 1958. Publications: Commentary on the Madras Hindu Religious Endowment Act and the Madras Estates Land Act in the early years of the Professional career. Recreation: Gardening. Clubs: Madras Cosmopolitan Club, Gandhinagar Club. Address: Chief Justice, Andhra Pradesh High Court, Hyderabad.

REDDY, P. Thimma, B.A., Minister for Agriculture, Andhra Pradesh, since Nov. 1956. b. Nov. 24, 1914. Educ.: Madanapalle, Chittoor Dt. Pres., Andhra Provincial Kisan Sangh, 1941; Courted jail, 1942; released, 1945; elected Vice-Pres., A.P.C.C., 1946; elected M.L.A., Andhra, 1952; appointed Minister, Oct. 1, 1953; resigned and re-elected as M.L.A., 1955. Address: Minister for Agriculture, Hyderabad.

REDDY, Ravi Narayan, M.L.A., Communist Leader; Deputy Leader of the Opposition, Andhra Pradesh Assembly. *b.* June 4, 1908; *Educ.*: Nizam Coll., Hyderabad. Discontinued college studies and joined the C. D. movement, 1930; worked as Secy. and Pres., Hyderabad State Harijan Sevak Sangh, 1932-38; one of the founders of the State Congress; joined Andhra Mahasabha, 1933; elected Pres. and presided over three open annual sessions, 1941, 1944, 1945; joined Communist Party, 1939; jailed twice, once as a Congressman, 1938 and as a Communist, 1951; was underground for five years; elected to Parliament, polling the highest number of votes in the country; elected to the State Legislature, 1957. *Address*: C/o Andhra Pradesh Legislative Assembly, Hyderabad.

REV, Bisheshwar Nath, Sahityacharya (1909), Mahamahopadhyaya (1942), Sanskrit Writer and Historian. *b.* July 2, 1890; *Educ.*: Jodhpur & Jaipur. Professor of Sanskrit, Jawant Coll., Jodhpur; supdt., Archaeology & Sumer Public Library, Jodhpur; Examiner for M.A., Banaras Hindu Univ., 1942; Co-opted, as an expert for Ph.D. to the Research Degree Cttee. by Agia Univ., 1945; Corresponding Member to Historical Records Commission, 1938; its Associate member later; member, Cttee. to advise the Govt. of India about the management of the Archives of Indian States, 1947. *Publications*: *Bharat-ke-Prachin Rajranah* (Three vols.); *Raja Bhoj*; *Marwar-ka-Itihas* (Two vols.); *Rashtrakut-ka-Itihas*; *History of Rashtrakutas*; *Glories of Marwar and Glorious Rathors*; *Coins of Marwar*; *Rathod-Durgadas*; *Aryavahanam* (Hindu Law); *Vishveshar Smriti*; translated *Shiva Sudhakar*. *Address*: Chandpol, Jodhpur.

REZZONICO, His Excellency Dr. Clemente A., Doctor in political science and constitutional law, Ambassador Extraordinary and Plenipotentiary of the Swiss Confederation to India, and Envoy Extraordinary and Minister Plenipotentiary to Ceylon and Nepal. *b.* April 21, 1897; *Educ.*: St. Imier, Basle, Berne. Attaché, 2nd Secy and First Secy. of Legation in London, Rome; First Secy. and Counsellor in London; Head of the Press Service of the Swiss Foreign Office in Berne; First Counsellor of Legation in Paris; Chargé d'Affaires in Pakistan; Minister in Peking. *Address*: 7, Prithvi Raj Road, New Delhi.

ROGERS, Thomas, Managing Director, Best & Co., Private Ltd. *b.* Sept. 10, 1905. *Educ.*: Bootham School, York, England. Chairman and Managing Director, Best & Co. Private Ltd.; Chairman: The Crompton Engineering Co. (Madras) Private Ltd.; The Anglo-French Textiles Ltd.; Best & Co. (Pondicherry) Private Ltd.; Director, Hyderabad Laminated Products Ltd. *Clubs*: Madras Club, Adyar Club, Gymkhana Club, Madras Boat Club, Madras, East India & Sports Club, London. *Address*: P.O. Box 63, Madras.

RONNING, His Excellency Chester Alvin, B.Sc., M.A., High Commissioner for Canada in India. *b.* Dec. 13, 1894; *Educ.*: Univ. of Minnesota; North China Language School, Peking; Univs. of British Columbia and Alberta; B.Sc. in 1922 and M.A. in 1929. Royal Canadian Air Force, 1942-45; Deptt. of External Affairs, 1945; Chargé d'Affaires, a.i., Nanking; Ambassador to Norway. *Address*: Canadian High Commission, 4, Aurangzeb Road, New Delhi-1.

ROONWAL, Dr. M. L., M.Sc. (Hons.), Ph.D. (Cantab.), F.N.I., Director, Zoological Survey of India, Calcutta, since 1956. *Educ.*: Jodhpur, Lucknow and Cambridge (England). Officer-in-Charge, Locust Field Research Station, Panni, Baluchistan (1935-39); Zoological Survey of India (1939-49); Chief Research Officer, Forest Research Institute, Dehra Dun (1949-56). *Publications*: Over 130 research papers in pure and applied zoology. *Address*: Director, Zoological Survey of India, 34, Chittaranjan Avenue, Calcutta 12.

ROY, Dr. Bidhan Chandra, M.D. (Cal.), M.R.C.P. (London), F.R.C.S. (Eng.), D.Sc. (Cal. & Allahabad), Chief Minister, West



Bengal, since Jan. 23, 1948. *b.* July 1, 1882; *Educ.*: Patna, Calcutta, England, Calcutta Medical Coll., Calcutta, and St. Barts Hospital, London. Pres., R. G. Kar Medical Coll., Belgachia; Professor of Medicine, R. G. Kar Coll.; Founder of medical and educational institutions; Vice-Chancellor, Calcutta Univ., 1942-44; Pres., All-India Medical Council, 1939-45; Mayor, Corporation of Calcutta, 1931-33; member, Congress Working Cttee.; Pres., National Council of Education and Jadavpur Technical Coll.; Calcutta Medical Club and also Indian Medical Assoc.; Chairman, Higher Institute of Technology, Govt. of India; member: Council of Scientific and Industrial Research; National Development Council, India; Chairman, All-India Board of Biophysics; Pres., Jadavpur Univ., Calcutta. *Address*: 36, Nirmal Chunder Street, Calcutta.

ROY, Sir Bijoy Prasad Singh, Kt. (1933), K.C.I.E. (1943), M.A., B.L., Ex-President, Federation of Indian Chambers of Commerce and Industry; ex-President, Bengal Legislative Council; Ex-Minister, Local Self-Govt., and Revenue Department, Bengal, 1930-41; Sheriff of Calcutta, 1952. *b.* 12th January 1894; *Educ.*: Chakdighi N. P. Institution; Hindu School, Calcutta; Presy. Coll., Calcutta; Univ. Law Coll., Calcutta, awarded King's Commission of Hon. 2nd Lieut. 1918; member, Bengal Leg. Council, 1921-36 and 1940; Bengal Leg. Assembly, 1936-40; Chairman, Bengal Leg. Council, 1943-47; Councillor, Calcutta Corporation, 1924-30; elected President, National Liberal Federation of India, 1942; was Director: Managing Agency of India Steamship Co. Ltd.; former Imperial Bank of India; Pres.: Indian Chamber of Commerce, 1952 & 1957; Indian National Steamship Owners' Assoc.; Kahatriya Mahasabha; All India Music Conference; was Fellow, Calcutta Univ. and Sheriff of Calcutta; Delegate of the Indian National Steamship Owners' Assoc. to the International Chambers of Commerce, Tokyo, 1955; is Trustee: Indian Assoc., Calcutta; Bharatiya Vidya Bhavan; is Trustee and Vice-Pres., British India Assoc., Calcutta. *Address*: Chakdighi, Dist. Burdwan, W. Bengal; 15, Lansdowne Road, Calcutta 20.

ROY, Bimal, Director and Producer of films. *b.* July 12, 1909, in Dacca, East Bengal; *Educ.*: Dacca Univ. Joined New Theatres Ltd., Calcutta in the Camera Deptt.; became the Cameraman in a few years' time; his first independent work was the well known picture, 'Devdas', acted by Nargis and Jamuna, and directed by P. C. Barua; established as a leading Cameraman; became a Director, 1943; directed the 'classic', 'Udayar Pathe' acclaimed as one of the best ever made; re-made it in Hindi under the title 'Hamrahi'; his most successful pictures are 'Anjanagarh', 'Pahela Admi', 'Maa', 'Do Higha Zamin', the epic tale of India's long-suffering peasantry, 'Naukri', the tale of India's unemployed millions and 'Farineta', 'Bijai Bahu' and 'Devdas', all immortal classics of Sarat Chandra; has made a documentary for the Govt. of India entitled 'Gotama the Budha' which received the President's Gold Medal; his 'Madhumati', a tender love story and 'Sujata' a passionate plea on behalf of India's untouchables were released in 1958 & '59 respectively. *Address*: 5, Mount Mary's Road, Bandra, Bombay 20.

ROY, Chittaranjan, M.Sc., LL.B., Dy. Minister for Co-operation, Cottage and S. S. Industries, Govt. of West Bengal. *b.* May 1896. *Educ.*: Calcutta Univ. Hon. Director: Free Land Talks Ltd., Kharagpur, W. Bengal; Chairman, Howrah Insurance Co., Ltd., Calcutta; member, Executive Cttee.,

Bangiya Sahitya Parishad, Calcutta; Secy., Vidyasagar Memorial Cttee. *Publications*: Bengali book *Mona Vana*, an adaptation from Maeterlinck's *Mona Vana*; articles on Ethnological character of Midnapur District. *Address*: P 8, Bellaghata Main Road, Calcutta 10.

RUZA, Madanmohan Ramnarain, B.A., Merchant, Banker and Millowner. *b.* Aug. 24, 1914; *Educ.*: Marwari Vidyalaya and St. Xavier's College, Bombay. Director: Ram-



narain Sons Private Ltd., Phoenix Mills Ltd., Vinaya Trading Co. Private Ltd., United Commercial Bank Ltd., United Agencies Private Ltd., Bombay Potteries and Tiles Ltd., Baroda Rayon Corporation Ltd., Ramnarain Sons (Pakistan) Ltd., The Great Eastern Shipping Co. Ltd.; Bradbury Mills Ltd., Dawn Mills Co. Ltd., Century Spg. and Mfg. Co. Ltd., The Indian Electro Chemicals Ltd., Mukund Iron & Steel Works Ltd., Rula Industries Private Ltd., Poysha Industrial Co. Private Ltd., Shammun Private Ltd. and M. Ramnarain Private Ltd.; Pres., Federation of Indian Chambers of Commerce & Industry, 1959-60; President, East India Cotton Assoc. Ltd.; Vice-Pres., Indian Central Cotton Cttee.; Pres., Cotton Buyers' Assoc.; Trustee, Bombay Port Trust; member, Cotton Imports Advisory Cttee., Bombay, Customs Advisory Cttee., Cotton Advisory Board Cttee., Import Advisory Council, Export Promotion Advisory Council, Cotton Textiles Consultative Board, Cttee. of the Indian Merchants' Chamber, Cttee., Indian Banks' Assoc.; member, Indian Industrial delegation to Europe and U.S.A., 1957; Leader, Indian delegation to Afro-Asian Economic Conference, 1958. *Clubs*: C.C.I.; Willingdon Sports Club; Orient; National Sports Club of India; Bombay Presidency Radio Club; R.W.I.T.C. Ltd.; Poona Club. *Address*: State Bank Building, Bank Street, Fort, Bombay.

RUZA, Radhakrishna Ramnarain, B.A., Merchant, Banker and Millowner. *b.* Jan. 14, 1916; *Educ.*: Marwari Vidyalaya and St. Xavier's College, Bombay. Director: Ram-



narain Sons Private Ltd., Phoenix Mills Ltd., Bradbury Mills Ltd., Dawn Mills Co. Ltd., Vinaya Trading Co. Private Ltd., Malabar Steamship Co. Ltd., Trafford Cotton Co. Ltd., England, Rula Industries Private Ltd., Radhakrishna Ramnarain Private Ltd., United Agencies Private Ltd., Kolhapur Sugar Mills Ltd. (Kolhapur), Ramnarain Sons (Pakistan) Ltd., Karachi, Noble Steel Products Private Ltd.; Member, Millowners' Association Cttee. *Clubs*: C.C.I.; Willingdon; Orient. *Address*: State Bank Building, Bank Street, Fort, Bombay.

RUZA, Ramnivas Ramnarain, Merchant, Banker and Millowner; Senior Director, Ramnarain Sons Private Ltd., Bombay. *Educ.*: Marwari Vidyalaya, Bombay and



privately. Entered business at an early age; Director: Ramnarain Sons Private Ltd., Phoenix Mills Ltd., Finlay Mills Ltd., Gold Mohur Mills Ltd., Bank of India Ltd., Andhra Valley Power Supply Co. Ltd., United Power Co. Private Ltd., Bachhraji & Co., Private Ltd., Bachhraji Factories Private Ltd., Oudh Sugar Mills Ltd., Hindustan Sugar Mills Ltd., Hind Cycles Ltd., New India Assurance Co. Ltd., Oxy-Chloride Flooring Products Ltd., Mining Management Syndicate

Private Ltd., Oriental Industrial Investment Corporation Ltd., Trafford Cotton Co. Ltd., England, United Agencies Private Ltd. Dawn Mills Co. Ltd., Kolhapur Sugar Mills Ltd., The Machinery Paints & Chemicals (India) Ltd., Indokem Private Ltd., New Consolidated Construction Co. Ltd., J. K. Chemicals Ltd., Polychem Ltd., Bradbury Mills Ltd., Hollerith (India) Private Ltd., Fashion Prints Private Ltd., Carona Sahu Co. Private Ltd., Carona Shoe Co. Private Ltd., Chemicolour Private Ltd., East India Hotels Ltd., Colour-Chem Ltd., Rula Industries Private Ltd.; Committee Member of Royal Western India Turf Club Ltd. and Assoc. of Indian Trade and Industry. *Clubs*: C. C. I.; Willingdon; Orient; Hindu Gymkhana. *Address*: State Bank Building, Bank Street, Fort, Bombay.

RUKMINI Devi, Padma Bhushan, 1956. President, Kalakshetra International Arts Centre, Adyar, Madras. b. 1904, Madras. Started dancing under the personal guidance of Anna Pavlova; travel and research in dance, music, drama in many countries; extensive tours in N. and S. India with dance recitals and lectures; works through Art and Education for India's cultural renaissance specialising in Bharata Natya, music, drama, painting and crafts. Dramatic productions include *The Light of Asia*; *Incidents from the Life of Bhishma*; *Karavali Ammayar* (Tamil); *Rukmini Swayamraram* (Kathakali); *Kutrala Kuravanji* (Temple drama); *Kumara Sambharan*; *Ramayana* (Dance drama); Lectures and writes on Theosophy, Religion, Art, Culture, Education, etc.; Pres. World Federation, Young Theosophists; Director: The Rosant Theosophical School, Adyar; the Dr V. Swaminatha Iyer Tamil Library; Pres. The Bharata Samaj; Pres. Theosophical Educational Trust; Head of the International Theosophical Centre, Netherlands; Director, The Arundale Training Centre for Teachers, Adyar; Member, Exec. Board: Indian National Commission for Co-operation with UNESCO; Indian Council for Cultural Relations; Central Sangeet Natak Akademi; Madras State Sangita Nataka Sangam; Vice-Pres., International Vegetarian Union; member, Rajya Sabha, representing Art. *Address*: Adyar, Madras 20.

SACHAR, Shm. Sen, B.A., LL.B., Governor of Andhra Pradesh, since Aug. 1, 1957. b. 1st Dec. 1893; *Educ.*: Punjab University. Joined the Bar in 1918; joined Non-Co-operation Movement, 1921; Secretary, Punjab Provincial Congress Committee, 1921; Registrar, National University, Lahore; Secretary, Municipal Committee, Gujranwala, 1922-24; Municipal Commissioner, Gujranwala, 1924-33; founded the Sunlight of India Insurance Co. Ltd. in 1932; Director Gujranwala Electric Supply Co. Ltd. and Local Director, Punjab National Bank, Ltd.; elected member, Punjab Legislative Assembly on Congress ticket, 1936-45; elected leader, Congress Party, Punjab Legislative Assembly, 1940; re-elected member, Punjab Leg. Assembly, 1945; elected member, Constituent Assembly of Pakistan from West Punjab in 1947 and Deputy Leader of the Congress Party in the Pakistan Constituent Assembly; Finance Minister, Punjab Government, 11th March 1946 to 8th March 1947; elected leader, Congress Legislature Party, Punjab, India, April 1949; Chief Minister, Punjab, India, 1949 and 1952-56; Governor of Orissa, Sept. 1956-July 1957. *Address*: Raj Bhavan, Hyderabad (Andhra).



SACHDEV, Mukh Raj, B.A. (Hons.) (Punjab), M.A. (Cantab.), I.C.S., Secy., Ministry of Works, Housing and Supply, Govt. of India, since April 1954. b. Oct. 12, 1908; *Educ.*: Quetta, Lahore and Cambridge. Asstt. Commissioner, D. C., Controller of Supplies, Bombay; Deputy Director-General, Supply

Deptt.; Director-General, Civil Supplies, Punjab; Excise and Taxation Commissioner; Secy. to Govt., Punjab; Partition Commissioner; Chief Secretary, Govt. of East Punjab upto June 1953; Director-General, Supplies and Disposals, June 1953-April 1954; *Clubs*: Willingdon Club, Bombay; East Punjab Club, Simla. *Address*: New Delhi 2.

SAHAY, Mr. Justice Kamla, M.A., B.L., Barrister-at-Law, Judge, High Court, Patna, since July 1953. b. Dec. 1, 1904; *Educ.*: Nalanda, Collegiate School at Bihar Sharif, Banaras Hindu Univ., Patna Coll. and Patna Law Coll.; Passed M.A., 1927 and B.L., 1928 from Patna Univ. Enrolled as an Advocate, July 28, 1928; called to the Bar from the Middle Temple, London, Nov. 1929. Started practice at the Patna High Court, Feb. 1930; part-time Lecturer, Patna Law Coll., 1936-43; Dist. & Sessions Judge, 1943-53; Legal Remembrancer & Secy. to the Govt. of Bihar in the Law Department, May-July 1953. *Recreations*: Bridge; Billiards. *Clubs*: Bankipore Club, Patna. *Address*: Off Fraser Road, Patna-1.

SAHAY, Mr. Justice Srinarain, B.A., LL.B., Judge, High Court of Allahabad, since Nov. 11, 1954 b. Jan. 13, 1901. *Educ.*: K. P. School, Muir Central Coll. and Law Coll. Allahabad Univ. Joined legal profession, June 1925; practised as Advocate, High Court, Allahabad till raised to the Bench, Allahabad High Court, 1954. *Recreations*: Golf, Tennis. *Clubs*: Golf Club, Allahabad; Nainital Boat Club, Nainital. *Address*: 4, Hamilton Road, Allahabad.

SAHAY, H. E. Anand Mohan, Indian Ambassador to Thailand, since Sept. 1956. b. 1894, at Bhagalpur (Bihar). Gave up study of medicine and joined Independence movement started by Gandhiji, 1920; Private Secy. to Dr. Rajendra Prasad; 1921-23; was Professor in Y.M.C.A. Foreign Language Coll. in Japan for 16 years; organised Japan Branch of the Indian National Congress, 1928 and Indian Assoc. of China in Shanghai, 1934; organised and edited a monthly journal "Voice of India" in English and Japanese, 1930; started "India Lodge," a home for Indian students in Kobe, 1931; wrote number of books on Indian Freedom Movement in Japanese and English; one of the Chief Organisers of the Indian Independence Movement in the Far East during World War II; was Minister and Secretary-General in Subhas Chandra Bose Govt.; Pres., East Indian Railway Employees' Assoc., 1947; nominated member, Central Advisory Council of the Govt. of India on labour, 1948; organised a degree college for women in Bhagalpur, 1949; Commr. for India in the British West Indies, 1950-53; Mauritius, 1953-54; Consul-General in Hanoi, 1955-56. *Address*: Bangkok.

SAHAY, H. E. Bhagwan, B.Sc. (Allahabad), I.C.S., Indian Ambassador to Nepal since Dec. 1954. b. Feb. 15, 1905; *Educ.*: Univ. of Allahabad; School of Oriental Studies, London. Jt. Magistrate, U.P., 1929; Dy. Secy. to Govt., U.P., 1936-39; Supdt., Census operations, 1939-41; Secy., Indian Council of Agricultural Research, 1941-43; Joint Secy. Govt. of India, 1944-45; Commissioner, Food & Civil Supplies, 1946-49; Chief Secy., U.P. Govt., 1949-51; Chief Commissioner, Himachal Pradesh, 1951-52; Chief Commissioner, Bhopal, 1952-54. *Address*: Kathmandu.

SAHAY, Vishnu, B.Sc. (Allahabad), I.C.S., Secretary, Cabinet, Govt. of India, and of Planning Commission. b. November 22, 1901; *Educ.*: Allahabad and Oxford. Deputy Commr., Registrar, Co-operative Societies; Director of Agriculture, Uttar Pradesh; Director-General, Food; Secy., Ministry of Food, 1947-49; Secy. for Kashmir Affairs; Secretary, Govt. of India, Ministry of Food and Agriculture, 1951-53. *Recreation*: Golf. *Address*: New Delhi.

SAHNI, Krishna Kumar, B.Sc. (Delhi), B.A. (Cantab.), Officer on Special Duty and Jt. Secy., Ministry of Steel, Mines and Fuel, Govt. of India. b. March 23, 1916. *Educ.*: St. Stephen's Coll., Delhi; passed B.Sc., 1935; Emmanuel Coll., Cambridge; took B.A. degree, 1938. Joined Burnham-Shell Company, 1939; served in Branch and General Manager's Office; resigned to join the Govt. of India, May 1956; Advisor on Oil Affairs, Planning Commission, Govt. of India, 1956-57. *Recreations*: Riding, Tennis, Squash, Racquets and Reading. *Clubs*: Overseas Club, London; Willingdon Sports Club, Bombay; Royal Western India Turf, Bombay; Bombay Gymkhana; Delhi Gymkhana and Delhi Golf Club. *Address*: Ministry of Steel, Mines and Fuel, New Delhi.

SAHUKAR, Nariman Dinsha, B.A., Manager, Godrej & Boyce Mfg. Co., Ltd. b. Feb. 2, 1902. *Educ.*: St. Xavier's College, Bombay. President, Engineering Association of India, Bombay Br., 1947; President, Assoc. of Indian Industries, 1948; Vice-President, All-India Manufacturers' Organization, 1949; Vice-Pres., Indo-Pan-American, Assoc.; Chairman, All India Manufacturers' Organization; member: Central Advisory Council of Industries and its Standing Cttee.; Bombay State Advisory Council of Industries and its Standing Cttee.; Housing and Regional Planning Panel of the Planning Commission. *Club*: W.I.A.A. Club Ltd. *Address*: 39-F, Hill Road, Bandra, Bombay 20.



SAIYEDNA, Dr. Taher Saifuddin Sahab, His Holiness (Mulla) Sahab, Head of Dawoodi Bohra Shia Muslim Community, a business community having interests and connections practically all over the world; till the inauguration of the Indian Republic on 26th Jan. 1950, was a First Class Sardar of the Deccan and enjoyed all the privileges of that status. b. Aug. 6, 1885, at Surat; succeeded to his office, 1915; is the 51st incumbent of the office of Dail-Mutlaq; derives his succession from Prophet Mohammed (peace be upon him) through his descendants the Fatemid Caliphs of Egypt; is an eminent Arabic Scholar and one of the greatest exponents of Islamic culture and literature; his annual Arabic brochures on religious and philosophical subjects published during the month of Ramadan, are acknowledged as masterpieces of Arabic literature; received the Honorary Degree of Doctor of Theology from the Muslim Univ. of Aligarh at a special convocation in 1946; widely travelled in India and the Middle Eastern countries; keenly interested in Indian and world problems; a liberal patron of education, arts and industries; has made suitable arrangements to conduct about 350 Madrasas or schools including High Schools with attached hostels; maintains at Surat an Arabic College the El-Jamea-tus-Saifiyah, where more than 300 students are given free education and are also provided with free boarding and lodging; instances of his munificence are, preparation of Kiswat, i.e. an artistic carpet of silver brocade for the covering of the inner walls of the Holy Kaaba at Mecca, the presentation of gold and silver Zarih to the Mausoleas (sepulchres) of the saints of Najaf and Kerbala in Iraq and the erection of a Minaret outside the shrine of Maulana Hussain, the Martyr of Islam, and substantial donations to several institutions in India including Aligarh Muslim Univ. and the Shia Technological Institute at Lucknow; is a patron of the Assoc. of Muslim Education, Mombasa (Kenya); was unanimously elected Chancellor of the Muslim Univ., Aligarh, by the Univ. Court, April 1953; unanimously

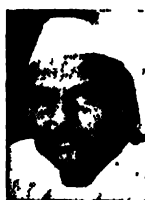


re-elected Chancellor, Muslim Univ., Aligarh, by the Court, April 1956; received the Degree of Doctor of Laws, Karachi Univ., 1956; received the Freedom of the City of Karachi, 1955; Heir-apparent: Abul Qauid Johar Mohammed Burhanuddin Sahab, appointed to succeed as 52nd Dail-Mulla in the line. Address: Saffy Mahal, Pawan Road, Malabar Hill, Bombay 6.

SAIYIDAIN, Khwaja Ghulam, B.A., M.Ed., Secretary and Education Adviser to the Govt. of India, Ministry of Education, since March 1956. b. Feb. 14, 1904; Educ.: Univ. of Aligarh and Leeds (England). Professor of Education, Aligarh Muslim Univ., 1926-39; Director of Education, Jammu and Kashmir State, 1939-46; Educational Adviser to Rampur Govt., 1946-47; Educational Adviser to Bombay Govt., 1947-50; Joint Educational Adviser to Govt. of India, 1951-54; Addl. Secy., Ministry of Education, 1954-55; Pres., International New Education Fellowship, London, since 1956; Visiting Professor and Sachs Memorial Lecturer at Columbia University. Publications: (English and Urdu) *The School of the Future*; *Principles of Education*; *Iqbal's Educational Philosophy*; *Problems of Educational Reconstruction*; *Education for International Understanding*; *Education, Culture and the Social Order*; *Aligarh Movement in Education*; *The Education of the National Character*; *Activity School*; *The Spirit of Culture*. Recreations: Reading, Writing. Address: New Delhi.

SAKSENA, Ramji Ram, B.Sc., M.A., LL.B., Chairman and Managing Director, Eastern Shipping Corporation. b. June 15, 1897, Sultanpur, U.P.; Educ.: Allahabad Univ. Professor of Economics, Allahabad Univ., 1920-21; joined Income-tax Department, 1922; Imperial Customs Service, 1923; First Secretary, Central Board of Revenue and Under-Secretary to the Government of India, Finance Department, 1934; Officer on Special Duty, Finance Department, Government of India, for the revision of the official publication "Handbook of Commercial Information for India," Third Edition, 1936; Indian Government Trade Commissioner in Japan, April 1937 to September 1940; Indian Government Trade Commissioner in Australia and New Zealand, February 1941-47; Joint Secretary, Ministry of External Affairs and Commonwealth Relations, July 1947 to April 1948; Consul-General in New York, May 1948-May 1951; High Commissioner in Canada, 1951-53; Ambassador in Burma 1953-56. Recreations: Tennis, Bridge. Address: Bombay.

SAMPURNANAND, Dr., B.Sc. (All.), I.T. (All.), Chief Minister, U.P., since Jan. 1955. b. Jan. 1, 1891; Educ.: Queen's College, Benares; Training College, Allahabad. After



graduating, worked as a teacher in the Prem Mahavidyalaya, Brindaban and the Hariharandara High School, Benares; worked at the Dali (Rajkumar) Coll., Indore, 1915-18; Headmaster, Dunsar College, Bikaner, 1918-21; was Editor, *Today* (Eng. Daily now defunct) and *Maryada* (Hindi monthly); Professor, Kashi Vidyapith, 1922; Member, A.I.C.C., since 1922; thrice Secy., U.P. Provincial Congress Committee; President, second All-India Socialist Conference, Bombay; President, 20th Hindi Sahitya Sammelan, Poona Session, 1940; Minister of Education, U.P. Govt., 1938-39; Minister for Education, Finance and Labour, U.P., 1946-51; Home and Labour Minister, U.P., 1951-54. Publications: Seventeen books in Hindi and Sanskrit on political, historical and philosophical subjects, and in English on Politics and Philosophy; received Mangala Prasad prize of Rs. 1,200 for his book 'Samajyada' (Socialism). Hobby: Gardening and Astronomy. Address: Jalpa Devi, Benares; Lucknow.

SANGHI, Seth Motilal Ghanashyamdas, Chairman, Western Indian States Motors (Private) Ltd., Jodhpur, Sanghi Bros. (Indore) (Private) Ltd., Indore, India Motors (Private) Ltd., Ajmer, Supreme Motors (Private) Ltd., New Delhi, Sanghi Motors (Bombay) (Private) Ltd., Bombay. b. Dec. 7, 1899 of the Sanghi family of Jodhpur. Founder of Firm Sanghi Brothers in Jodhpur with offices and cinemas in Rajasthan and Madhya Pradesh; toured extensively round the world. Address: Jodhpur.

SANGMA, Williamson Ampang, Minister for Tribal Areas, Transport and Publicity, Assam, since Jan. 1958. b. Oct. 18, 1918, at Baghmara village in Garo Hills District, Assam; Educ.: Gwalpara High School; Jagannath Coll., Dacca; Christian Coll., Serampore. Gave up studies when he was in B.A. class, to join war service, 1942; during World War II, served as a Captain in a Pioneer Battalion in Assam-Burma front till the disbandment of the battalion, 1946; entered politics and became Pres., Garo National Council, 1948; Chief Executive Member of Autonomous District Council, 1952; won Phulbari (Garo Hills) seat of Assam Assembly during general elections, 1957, on Garo National Council ticket defeating Congress candidate; Vice-Pres. Eastern India Tribal Union and leader of the Union in the Opposition, Assam Assembly; became an associate member of Assam Congress Assembly Party. Recreations: Tennis, Badminton, Table-Tennis, Painting. Address: Shillong.

SANJIVAYYA, D., B.A., B.L., Minister for Local Administration and Labour, Govt. of Andhra Pradesh. b. Feb. 14, 1921; Educ.: B.A. from Govt. Arts Coll., Anantapur; B.L. from Madras Law Coll. Enrolled as an Advocate, 1950; joined the Congress and was elected to Parliament from the Madras Legislature as a Congress nominee; elected M.L.A. (Madras) from Kurnool Reserved Constituency as a Congress candidate in the general elections, 1952; Minister for Co-operation and Housing, Govt. of Madras, 1952-51. Address: Secretariat, Hyderabad.

SANKALIA, Dr. Hasmukh Dhirajlal, M.A., LL.B., Ph.D. (London), Professor and Head of the Dept. of History and Director, Deccan Coll. Post Graduate and Research Institute, Poona. b. Dec. 11, 1908; Educ.: Elphinstone High School; St. Xavier's Coll. and Law Coll., Bombay; Univ. Coll., London; Bhagwanlal Indraji Prisman (1933), Silver Jubilee Medal, Bombay Branch, Royal Asiatic Society (1944). Some time Hon. Lecturer, St. Xavier's Coll., Bombay; conducted excavations and explorations in prehistory and early history relating to Gujarat, 1941-42, 1944, 1945, 1947-49, Maharashtra, 1945-46, 1950-51, 1953-54, 1954-56, Karnatak, 1949, 1956 and Madhya Bharat, 1952-53. Publications: *The University of Nalanda*; *Archaeology of Gujarat*; *Investigations into the Pre-historic Archaeology of Gujarat*; *Historical Geography & Cultural Ethnography of Gujarat*; *The Godavari Paleolithic Industry*; *Excavations at Brahmapuri (Kolhapur)*; *Excavations at Narik and Jorces Excavations at Maheshwar and Navdoli* and over 100 papers on Indian History, Epigraphy, Iconography and Pre-history. Recreations: Hiking, Tennis, Boating, Cricket. Address: Deccan College Research Institute, Poona 6.

SANKARAN, Mr. Justice Kesavan, B.A., B.L. (Madras), Chief Justice, High Court of Kerala b. March 29, 1900. Educ.: Mavelikara & Trivandrum; took B.A. degree, 1923 and B.L., 1925 of the Madras Univ. Started practice as lawyer in the Quilon Courts, 1925; elected to the Travancore Leg. Assembly, 1933; shifted practice to the Travancore High Court, 1933; entered service

in the Travancore Judiciary as Addl. Dt. Judge, 1936; appointed Secy. to the Govt. of Travancore, 1939; reverted to the Judiciary as Dt. & Sessions Judge, 1941; Appointed Judge, Travancore High Court, 1946; Pres., Franchise & Delimitation Cttee. of Travancore, 1947-48; Judge, Travancore-Cochin High Court, 1949; has been in charge of a series of special inquiries at different periods, 1948-58, Judge, Kerala High Court, 1956-59. Recreations: Golf. Clubs: Cochin Golf Club, Bolghatty, Cochin (Pres.). Address: Chief Justice, Kerala High Court, Ernakulam-1.

SANKRITYAYANA, Bahula, Mahapandita (Banaras), Tripitakacharya (Ceylon), Hindi Writer. b. April, 9, 1898. Educ.: Banaras, Lahore, Madras, Ceylon. Started on a career of travel in 1909; travelled four times in Tibet and thrice in Russia; was Professor of Sanskrit in Ceylon and Leningrad University. Publications: Over 125 books in Hindi, Sanskrit, Tibetan. Recreations: Travelling. Address: Happy Valley, Mussoorie.

SANTHANAM, K., Ex-Chairman, Finance Commission, Govt. of India; b. 1895. Educ.: Graduated with Honours in Mathematics in 1917. Enrolled in High Court, Madras, 1920; non-co-operated in the same year and gave up practice; did Khadi work, 1920-30; was in jail in the non-co-operation campaigns of 1921-22, 1930-1932 and 1941; was Editor, *Indian Express*, 1933-40; Member, Indian Legislative Assembly, 1937-42; Joint Editor, *Hindustan Times*, 1943-48; Member, Constituent Assembly from 1946; Minister of State for Railways and Transport, Govt. of India, Oct. 1948-Feb. 1952; Lieut. Governor, Vindhya Pradesh, March 1952-Jan. 1956; (Chairman, Finance Commn., Govt. of India, June 1956-Sept. 1957. Publications: Eng.: *Cry of Distress*, *Ambedkar's Attack*, *The Constitution of India*, and *Problems before the Indian Republic*; Tamil: *Selam, Rajyam, Poonnala Samudayam*, *Kanniyin Kanaru*, Translations: *Sakuntala*, *Meghaduta*, *Uttararamacharita* and *Gandhiya Bhagavadgita*. Address: "Sundara," Rajaji Nagar, Pallavaram, Madras.

SARABHAI, Smt. Bharatidevi, B.A. (Hons.) (Bom), B.A. (Hons.) (Oxon), English Writer and Theatre Organiser. b. July 31, 1912; Educ.: Home School; B.A. (Hons.) with 1st class, Bombay Univ., 1933; B.A. (Hons.) from Oxford Univ., 1936. Professor of Indian Research and Culture, Post-Graduate Institute (B. J. Institute of Learning & Research, Ahmedabad); Principal, Shreyas Coll., Gujarat Univ. since 1955-56; Pres., Theatre Centre, Ahmedabad, affiliated to the UNESCO sponsored theatre Centre, India (Bharatiya Natya Sangh), New Delhi, 1958; Hon. Secy., Gujarat Univ. Commission (at first unofficial and then appointed by the Govt.), 1945-47; Founder-Member & Secy., drama academy and art theatre at Ahmedabad, 1952. Publications: *The Well of the People* (a poetic drama); *Two Women* (in English); *Be Nari and Ghar Lakhai* (in Gujarati). Recreations: Reading, Walking, Hiking, Travel, Theatre Production. Address: Shahibag, Ahmedabad 4.

SARABHAI, Vikram Ambalal, M.A., Ph.D. (Cantab.), Physicist; Professor of Cosmic Ray Physics, Physical Research Laboratory, Ahmedabad. b. Aug. 12, 1919; Educ.: Gujarat Coll., Ahmedabad; St. John's Coll., Cambridge; took Ph.D. (Cantab.), 1946. Did research for five years on cosmic radiation under Sir C. V. Raman, N.L., at the Indian Institute of Science, Bangalore; subsequently did research on nuclear physics at the Cavendish Laboratory (1946); ever since his return to India after taking his doctorate from Cambridge, is engaged in further research on cosmic radiation at the Physical Research Laboratory, Ahmedabad; member; Scientists' Panel of the Planning Commission; Exec. Cttee. for the National Physical Laboratory; Cosmic Ray Research Cttee. of the Atomic Energy Commission; Central Advisory Council of Industries;

Cotton Textile Fund Cttee.; Court of the Indian Institute of Science; Development Council for drugs, dyes and intermediates; Chairman: Swastik Oil Mills Ltd., Bombay; Industrial Corporation Ltd.; Suhird Gelsy Private Ltd.; has been actively connected with the management of Sarabhai Chemicals, Baroda; Director of the National Research Development Corporation of India. *Publications*: Several publications in Physical Review, Nature, Physical Society of London, and Proceedings of the Indian Academy of Sciences. *Clubs*: Cricket Club of India Ltd., Bombay; Willingdon Sports Club, Bombay. *Address*: "Chidambaram", Ahmedabad 13.

SARAF, P. Shamal, Minister for Industry, Commerce & Labour, Jammu and Kashmir State. b. July 4, 1904; *Educ.*: Sri Pratap College, Srinagar. Joined business after studies; organised many concerns; was Hon. Secy., Chamber of Commerce for several years; took active part in Kashmir political activities; joined National Conference and courted arrest many times. *Clubs*: Amar Singh Club, Srinagar. *Address*: Rainawari, Srinagar.

SARAIYA, Jayant Varjivandas, B.A. (Hons.), Cotton Merchant. b. November 15, 1915; *Educ.*: Riphinstone College, Bombay. After graduation joined a cotton firm in 1938; travelled in Kenya, Uganda, Tanganyika, Ceylon and extensively in India on business; started his own firm of India Cotton Supplies Private Ltd.; became its Managing Director; visited Egypt and Europe for pushing the firm's business in cotton. *Recreations*: Sports and Motoring. *Clubs*: C.C.I. Ltd., W.I.F.A. Ltd.; Orient Club; Lions Club (Vice-Pres. and Charter Member). *Address*: 132, Queen's Road, Bandstand, Bombay 1.

SARAIYA, Ramani Lal Gokaldas, B.A., B.Sc., Cotton Merchant and Vice-Chairman, Narandas Rajaram & Co., Pvt. Ltd., Bombay. b. Jan. 16, 1898; *Educ.*: Gujarat College, Ahmedabad; Wilson College, Bombay and Imperial College of Science and Technology, London; *Matric* (1914); B.A. (Hons.), 1919; Dakhina Fellow, Wilson College, 1919-20; B.Sc. (1920); took post-graduate course in Chemical Engineering in England and diploma of City and Guilds of London Institute in oils and fats and also in soap



manufacturing; elected Fellow of the Chemical Society, London. After return to India joined Narandas Rajaram & Co. in 1922; became its partner in 1926 and Vice-Chairman since its conversion into a limited company in 1944; Chairman of the All-India Co-operative Planning Committee, 1944-45; member, Expert Cttee. on Futures Markets (Regulation) Bill, 1950; Vice-Pres., Indian Central Cotton Cttee., 1947-52; Pres.: All India Co-operative Union, 1952-55; Indian Merchants' Chamber, 1950; Federation of Indian Chambers of Commerce and Industry, 1953-54; Leader of the Indian Delegation to the International Cotton Advisory Cttee., 1948, 1949 and 1950, at Cairo, Brussels and Washington, respectively; Chairman, Bombay State Road Transport Corporation, Bombay State Co-operative Bank Ltd., Bombay Co-operative Banks' Association, Cotton Textile Fund Cttee.; Director: Hind Cycles Ltd., The United Salt Works and Industries Ltd., Shivrajpur Syndicate Ltd., Suttlej Cotton Mills Ltd., Bagalkot Cement Co. Ltd., Adoni Sps. and Wvg. Co. Ltd., Tata Chemicals Ltd., Narandas Rajaram & Co. (Africa) Ltd.; member: Cotton Advisory Board, Council of the Indian Institute of Bankers, Cttee. of the Indian Merchants' Chamber; Cttee. of the Federation of Indian Chambers of Commerce and Industry, Indian Central Cotton Cttee., Central Cttee. for Co-operative Training, Reserve Bank's Standing Advisory Cttee. on Agril. Credit; All India Handloom Board; Textile Commissioner's Advisory Cttee.;

National Co-operative Development and Warehousing Board; Fellow, Senate of Bombay and Baroda Univs. *Clubs*: Orient, Willingdon, Cricket Club, Radio Club and Rotary Club, Bombay. *Address*: Vasant Vihar, 85, Nepean Sea Road, Bombay 6.

SARANGAPANY, Srinivasa, B.E., Managing Director, Heavy Electricals Private Ltd., Bhopal, since Feb. 10, 1958. b. Aug. 4, 1903; *Educ.*: B.E. from Coll. of Engineering, Madras, 1925. Probationer in the Indian Railway Service of Engineers, June 1929; Manager, Block Signal Workshops, Howrah, 1935-41; Executive Engineer, Aug. 1941-May 1949; Divisional Supdt., 1949-Aug. 1953, after which posted to the Survey as Project Officer, Calcutta Electrification Survey, 1953-54; Engineer-in-Chief, Calcutta Electrification Project, 1954-55; visited Europe to study the post-war developments in railway electrification, 1954; sent on deputation to Japan to assess the capacity of the electrical rolling stock industry in that country, March 1955; ex-tien. Manager, Eastern Rly.; visited U.K. and the Continent in connection with manufacturing electrical goods and new factory construction methods, etc., Sept./Oct. 1958. *Address*: Post Box No. 46, Junagarh House, Bhopal.

SARAOGLI, Pannalal, B.A., B.L., Business man. b. July 9, 1921, at Calcutta; *Educ.*: Graduated from Presidency Coll., Calcutta, 1939; took law degree from Law Coll., Calcutta, 1942. Took to business and associated himself with various public activities; elected Pres., Bharat Chamber of Commerce, 1952; unanimously re-elected, 1953; nominated member, West Bengal Leg. Council, 1952; renominated, 1954-60; member, Executive Cttee. of the Federation of Indian Chambers of Commerce and Industry; a Commissioner for the Port of Calcutta, representing Bharat Chamber of Commerce; Chairman, Bank of Bikaner Ltd.; Director of several important companies; Chairman, Finance Sub-Cttee., West Bengal Pradesh Congress, for the last 5 years; Secy., Congress Leg. Party, West Bengal for the last 3 years; is a member, Middle Temple, London; has been associated for a long time with a number of public bodies like Railway Advisory Cttee., Telephone Advisory Cttee., Indian Red Cross Society (West Bengal State Branch), etc.; has also served on different Boards and Cttees. appointed by the Govt. of West Bengal and the Central Govt.; has travelled extensively in America and Europe. *Clubs*: Calcutta Club, Hindustan Club, Bengal Rowing Club and other clubs. *Address*: 56, Sir Harihar Goenka Street, Calcutta 7.

SARAWOI, Dharam Chand, Proprietor, Jokhiram Bajnath; Director, Steel Syndicate Ltd. and Hindustan Lace Manufacturing Corporation Ltd. b. in 1905 at Ranchi in a philanthropic Jain family; *Educ.*: privately by guardian tutors; efficiency in English, Hindi & Bengali, besides working knowledge of Mahajani, Gujarati and Rajasthani. Made an extensive tour of Europe including Russia, 1929; First Indian Passenger to fly from London to Karachi by Air, had an air-trip round-the-world with his wife, in 1947; again went to the Sanitary Health Congress, Hastings (U.K.) as delegate of Calcutta Corporation and also visited several Nature Cure Centres in the Continent, 1953; got 'A' Class Pilot Licence, 1930; 2nd Marwari to get Pilot Licence; Secy., Marwari Relief Society (1936 & 1937—Bassayan Sala); again elected as Gen. Secretary, Marwari Relief Society (1945 to 1947); Secy., Marwari Traders' Association (1938); Vice-Pres.: Marwari Relief Society, 1947-50; Merchants' Cttee., 1949-50; Jain Sabha and Burra-bazar Yubak Sabha; Pres.: Digambar Jain Navajuvak Samiti and Mahabir Pustakalaya,



1931-44; Calcutta Marwari Sammelan and Jugantar Club, 1949-50; Kumar Sabha Pustakalaya (1949-51) and Merchants' Chamber of Commerce; Councillor, Calcutta Corpn. (uncontested) (1952-57); Pres., College Square Swimming Club; Gen. Secy.: 15th World Vegetarian Congress, Calcutta session; All India Pratikritik Chikitsa Parishad; Treasurer, Bengal Flying Club. *Publications*: Seven months in Europe (Europe Men Sat Mas), Gharelu Pratikritik Chikitsa, Neros Rahne Ke Pratikritik Upay, besides numerous articles of literary value on varied and interesting subjects contributed to and published in Hindi periodicals of repute. *Recreations*: Motoring, Travelling, Flying, Swimming, Photography, Naturography. *Clubs*: Bengal Flying Club; College Square Swimming Club. *Address*: Jokhiram Bajnath, 8/1, Esplanade East, Calcutta; *Residence*: Jain House, 8/1, Esplanade East, Calcutta. *Tel. Address*: Naturecure.

SARDESAI, Shrinivas Ganesh, B.Com. (Hons.), Politician; Member, Central Cttee. of the Communist Party of India, since 1942. b. March 3, 1907; *Educ.*: Baroda, Bombay; came first in B.Com., 1927. Political Secy. to Sir Tej Bahadur Sapru, 1928-29; secretarial work for the All-Parties Cttee. presided over by Pandit Motilal Nehru, 1929; organised Forest Satyagraha in Ahmednagar District, 1930; sentenced to eighteen months R.I. in C. D. movement, 1930; joined Communist Party of India, 1931; Secy., All-India Trade Union Congress, 1931; sentenced under section 124 A, I.P.C. for two years, 1934; member: A.I.C.C., 1937-45; Central Executive of the Samyukta Maharashtra Samiti; Secy., Maharashtra Cttee. of the C.P.I.; spent six years in prison as convict and detainee; was four years underground; member, editorial board of various communist journals. *Publications*: A number of publications on the Food Problem; First and Second Five Year Plans; Peasant question in Maharashtra, Goa, etc. *Address*: Banji Niwas, Sardar Patel Road, Bombay-4.

SARKAR, Mr. Justice Amal Kumar, Barrister-at-law, Judge, Supreme Court of India, since 4th March, 1957. b. June 29, 1901; *Educ.*: Scottish Churches and Pargalal Colleges; Univ. Law College. Practised as an advocate in the High Court, at Calcutta. *Club*: Calcutta Club. *Address*: 55, Bagbarar Street, Calcutta 3; New Delhi.

SASTRI, Ballapatti Nanjunda, M.Sc., A.B.I.C., A.I.I.Sc., F.I.A.Sc., Chief Editor, "Wealth of India", "Journal of Scientific and Industrial Research", "Research and Industry", "CSIR News", "Vignana Pragathi" and other publications of the Council of Scientific and Industrial Research, India. b. Dec. 5, 1905; *Educ.*: Central College, Bangalore; B.Sc. (Mysore Univ.). Merit Scholar (Chemistry); Post-graduate research in Biochemistry at the Indian Institute of Science, Bangalore. M.Sc. (Bombay Univ.); Research Biochemist, Tea Research Institute, Ceylon (1930-32); Lecturer in Biochemistry, Indian Institute of Science, Bangalore (1932-42); Lecturer, History of Science & Scientific Method, Delhi Univ. (1946-49); Member, Documentation Cttee., I.S.I., since 1948; Publisher, Current Science (1952-42). *Publications*: Over 40 research papers in enzyme chemistry, Plant Physiology and Plant Products. *Recreation*: Sanskrit classics. *Address*: Publications Directorate, Council of Scientific and Industrial Research, Old Mill Road, New Delhi 2.

SASTRI, K. A. Nilakanta, M.A. (Madras), Padma Bhushan (1957). b. Aug. 12, 1892; *Educ.*: Madras Christian Coll., Madras Univ. History Lecturer, Hindu Coll., Tinnevely, 1913-18; Prof. of History, Benares Hindu Univ., Benares, 1918-20; Principal and Prof. of History and Economics, Sri Minakshi Coll., Chidambaram, 1920-23; Prof. of Indian History and Archaeology, Univ. of Madras, 1923-47; Pres.: Indian History Congress, Patna, 1946; All India Oriental Conference, Lucknow, 1951; Professor of Indology, Mysore

Univ., 1952-56; member: Indian Historical Records Commission; Editorial Board, History of Freedom Movement in India; Director, Institute of Traditional Cultures (UNESCO) Madras 1957. *Publications*: *The Pandyan Kingdom*; *Studies in Chola History and Adm.*; *The Cholas* (Vol. I, 1935, Vol. II, 1937, Revised second edition in one volume 1955); *History of Sri Vijaya*; *Historical Method in Relation to Problems of South Indian History*; *The Tamil Kingdoms of South India*; *Further Sources of Vijayanagar History*; *Foreign Notices of South India*; *South Indian Influences in the Far East*; *Concept of a Secular State*; *History of India*; *Age of the Nandas and Mauryas, etc.*; *History of South India*; about 150 articles to learned periodicals. *Address*: 'Nilavar', Edward Elliot's Road, Mysapore, Madras 4.

SASTRI, Jayaswami Mahalinga, B.A. (History), M.A. (Sanskrit), B.L., Kavi Sarva-bhauma (1957), Kavi Sekhara (1957), Jnana Bhaskara by H. H. Swami Sivananda (Feb. 10, 1958), Sanskrit Writer, b. July 31, 1897; *Educ.*: Pindlay Coll., Mannargudi; Presidency Coll. and Law Coll., Madras; M.A. privately. Lawyer, 1920-34; College Lecturer in Sanskrit, Madura Coll. and Annamalai Univ., 1934-41; Principal, Oriental Coll., Dharmapuram, 1940-55; Kavi Sarva-bhauma and Kavi Sekhara were conferred upon him by His Holiness Sri Kanchi Kamakote Peethadhipati and the Mysapore Sanskrit Academy on 31-8-57 and 16-9-57 respectively. *Publications*: Sanskrit (Prose, Poetry and Drama): *Rhasakatha Sara*; *Kinkini Mala*; *Kaundinya Prahasnam*; *Dravidanya Subhasitavali*; *Vyajokti Ratnavali* (with English translation); *Devakendra Stavanjali*; *Bhramara Sandana*; *Vana Lata*; *Kali Pradurbhava Nataka*; *Srngara Naradyama* (Prahasnam); *Pratiraja Suyam*; *Vagdar Dasanamam* (Natakama), a set of Sanskrit Readers, etc.; Tamil Novel: *Namoru Ninukka*; *Mappillai Thozhan*; short stories; *Mappillai Album*. *Recreations*: Literary pursuits; Music; Astrology. *Address*: Mahitya Candra Sala, Tiruvallangadu, Via Narasingampet, Tanjore Dist., Madras State.

SATHIANATHAN, R., M.A., L.T., D.F., Professor of History and Politics, Annamalai University, b. Feb. 9, 1896. *Educ.*: St. Joseph's Coll., Trichinopoly; Teacher's Coll., Saidapet, Madras. Member: Regional Records Survey Cttee., Madras State; Faculty, Senate and Academic Council, Annamalai Univ.; Chairman, Board of Studies in History and Politics, Annamalai Univ.; Member, Board of Post-Graduate Studies, Kerala Univ.; Dean, Faculty of Arts, Annamalai Univ., 1947-53; Sir William Meyer Lecturer, Univ. of Madras, 1954-55. *Publications*: *History of the Nayaks of Madura*; *Studies in the Ancient History of Tondamandalam*; *A Political and Cultural History of India*, 3 Vols.; *South Indian History*, A.D. 300-1300 (contributed to Vols. III, IV and V of R.V.B.s History and Culture of the Indian People); *Tamilaham in the 17th Century* (Meyer Lectures). *Address*: 10, Professors' Quarters, Annamalai University, Annamalai Nagar.

SATHIANATHAN, William Ratnam Samuel, B.A. (Hons.) (Cantab), I.C.S., Chief Secretary to the Govt. of Madras, since Sept. 1, 1955. b. March, 15, 1900. *Educ.*: Private Schools; Presidency Coll., Madras; Peter House, Cambridge. Asst. Collr., Dec. 15, 1924-March 14, 1928; Sub-Collr., March 14, 1928-June 11, 1934; Collector, June 11, 1934-Jan. 8, 1942; Registrar of Co-operative Societies, Jan. 8, 1942-Jan. 10, 1947; Secy. to Govt., July 1, 1947-Dec. 21, 1948; Member, Board of Revenue, Jan. 18, 1949-Sept. 1, 1955. *Address*: "Haddows House", No. 2, Haddows Road, Nungambakkam, Madras. 6.

SATWALEKAR, Madhav, G.D. Arts, Artist, b. Aug. 13, 1916. *Educ.*: Completed Painting course in Sir J. J. School of Arts, Bombay; took G. D. Arts, 1935; later studied in Italy at Florence and at the Slade School, London. Since his return to India has had several exhibitions in

Bombay and Delhi; spent a year in East Africa painting that country, 1949; has painted portraits of the Pres. and Vice-Pres. of India and others. *Recreations*: Music, Books. *Address*: "Hasman", 89, Warden Road, Bombay 26.

SAXENA, Gopal Narain, Socialist Party leader. b. Dec. 1897, at Lucknow; *Educ.*: Allahabad Univ., gave up M.A. & L.L.B. (Final) courses to participate in non-co-operation movement, 1921. Entered politics, giving up studies during 1921 non-co-operation movement; participated in all struggles for freedom; has been to jail 10 times during independence movement and under Congress rule; during the 1941 individual satyagraha movement, refused to come out on parole even when his son suddenly died; member, A.I.C.C. for 19 years and elected to U.P. Congress Council several times; General Secy., U.P.C.C. for some time; elected to U.P. Assembly, 1946; member, constituent Assembly; member, fundamental rights sub-committee of Indian Constituent Assembly; one of the prominent founders of K.M.P.P.; later joined P.S.P. when the S.P. and K.M.P.P. were merged; broke away from the P.S.P. to form S.P., 1955-56; Chairman, Parliamentary Board, Socialist Party, 1956; Chairman, Socialist Party, 1957. *Address*: B. N. Verma Road, Lucknow.

SAXENA, Prem Narayan, B.Sc. (Allahabad), C.E. (Hons.) (Roorkee); Development Commissioner, Kandla Port, since Sept. 24, 1955; b. Jan. 29, 1901; *Educ.*: Allahabad Univ. and Thomason Coll. of Engineering, Roorkee. Appointed to the Indian Railway Service of Engineers on East Indian Rly., Oct. 1925; worked for a few years on projects and construction works; stood first in the Dehra Dun Staff Coll. Refresher Course, 1931; Supdt., Way and Works, 1938-41; Divisional Personnel Officer, Oct. 1941-April 1945; promoted as Dy. Chief Engineer, Nov. 1945; later Dy. General Manager (Grainshops) 1946 to Mar. 1947; Dy. General Manager (Personnel), March 1947-Jan. 1948; Divisional Supdt., Howrah and Moradabad, Jan. 1948-July 1949; appointed Director, Establishment, Railway Board, 1949-54; was member, Joint Advisory Cttee. for two years and on the Gadgil Cttee. for clearness allowance merger, 1952; General Manager, Western Rly., Oct. 6, 1954-Sept. 1955. *Address*: Gandhiham, Kutch.

SAYED, Mr. Justice Bankoor Ahmed, M.A., B.L., Pulesa Judge, High Court of Judicature, Madras, since July 1949. b. Feb. 20, 1900 at Madras; *Educ.*: Madras Christian Coll. and the Madras Law Coll. A practising lawyer from 1925; Publicist from 1921; was Secy., Tamil Nad Provincial Congress Cttee. and the Madras Dist. Congress Cttee.; member, Madras Legislature, 1926-46; Madras Corporation for 5 terms, representing the National Congress Party; member: Madras Law Coll. Council since 1939; Syndicate and other authorities of the Madras Univ., 1933-52; also of Annamalai Univ. for over 20 years; member, Exec. Council, Aligarh Muslim Univ.; was member, Madras Bar Council for 2 terms; has been on the Court of the Aligarh Univ. for 3 terms; was Chairman, Southern India Education Trust, Madras; founded the New College for Boys, 1951 and the S.I.E.T. Women's College, 1955; forceful speaker and debater in English, Tamil and Urdu. *Address*: "Sadhr Gardens", Alwarpet, Madras 18.

SEN, Dr. A. T., B.Sc., M.Sc., Ph.D. (Lond.), Member, Union Public Service Commission since Sept. 1958. b. Nov. 30, 1901; *Educ.*: Univ. of Calcutta (1918-21), Dacca (1921-24) and London (1927-29); and Ind. Agri. Res. Inst. (1924-26); B.Sc. (1922), M.Sc. (1924), Ph.D. (1929); Agricultural Research Chemist and Hd. of Agri. Chem. Section, Dacca Univ. (1930-47); on deputation to Burma for three years to help reorganise Agri. Coll., Mandalay; Agri. Chemist to Burma Govt. (1937-40); Prof., Agri. Chem., Rangoon Univ. (1939-40); visited U.S.A. for study of soil conservation

(1947-48); Soil Cons. Officer, Ministry of Agri. (1948-50); Land Dev. Commissioner, Delhi (1950-51); Member, Public Service Commission, West Bengal (1952-54); Chairman (1954-58). *Publications*: More than 50 scientific papers and articles relating to laterite and red soils of India, nutrition and culture of paddy, soil conservation, etc. *Recreations*: Big game hunting; Fishing with rod and line in pond, lake, stream, river, estuary and sea; Photography: still, colour and movie. *Address*: "Fratichi", P.O. Santiniketan, West Bengal; U.P.S.C., Dholpur House, New Delhi 11.

SEN, Asoke Kumar, Minister for Law, Government of India, since April 1957. b. Oct. 10, 1913. Joined the revolutionary movement in Bengal at the early age of fourteen; is an active member even now of Satirha Sangha, was under police surveillance, 1931-35; passed M.A. with 1st class in Economics, 1935; passed M.Sc. in Economics from London School of Economics, 1939; was called to the Bar from Grays Inn, 1941; while in England, joined the India League; participated in the campaign for Indian independence. Enrolled as Advocate, Calcutta High Court, 1941; in nine years, became one of the leaders of the bar, simultaneously in commercial, constitutional and criminal matters and tax cases; appointed Junior Standing Counsel to the Govt. of West Bengal, 1950; resigned, 1956; one of India's delegates to the 10th Assembly of the U.N., 1955; has been Editor, *Calcutta Law Journal*; elected M.P. from Calcutta North West constituency as a Congress candidate, 1957; led the United Nations Conference on the Law of the Sea in Geneva in 1958; Author of Handbook of Commercial Law; is the only Congress M.P. from Calcutta; has started Samaj Seva Samities all over Calcutta and West Bengal; is keenly interested in helping the solution of the unemployment problem and refugee problem of West Bengal. *Address*: New Delhi.



SEN, Binay Ranjan, Director-General, F.A.O. of U.N., since Nov. 1956. b. Jan. 1, 1898; *Educ.*: Calcutta and Oxford Univs. Dist. Magistrate, Midnapore, 1937-40; Revenue Secy. to Govt. of Bengal, 1940-43; Director of Civil Evacuation, Bengal, 1942-43; Relief Commr., 1942-43; Director-General, Food, Govt. of India, 1943-46; Secy. to the Govt. of India, Dept. of Food, 1946; Minister to the Embassy of India in the U.S.A., 1947-50; Indian Ambassador to Italy and Yugoslavia, 1950-51 and 1953-54; Indian Ambassador to the U.S.A., 1951-52; Member, Indian Delegation to the General Assembly of U.N., 1947; Agriculture Secy. to the Govt. of India, 1948; Head of F.A. Mission of F.A.O. and E.C.A.F.E. in the Far East to study agricultural development plans; Head of the Indian Delegation to: E.C.O.S.O.C. (Economic and Social Council of the U.N.), 1949 and 1953; Annual Conference of the F.A.O., 1949 and F.A.O. Council, 1950, '51, '53; Indian Ambassador to Japan 1955-56. (Club: Delhi Gymkhana; Calcutta. *Address*: Rome.

SEN, Bireswar, B.A. (Hons.), M.A. (Calcutta), Director, Central Design Centre, Lucknow. b. Nov. 15, 1897. *Educ.*: Hare School and Presidency Coll., Calcutta; Art Education under Dr. Abanindranath Tagore. Professor, B. N. Coll., Patna, 1923-26; Headmaster, Govt. Coll. of Arts & Crafts, Lucknow, 1926-45; Superintending Craftsman, Govt. Coll. of Arts and Crafts, Lucknow, 1945-52; Officer in Charge, Design Research Section, 1954-57; *Publications*: *Abc of Pattern Designs*; *Himalayas*, etc.; Paintings in permanent collections in U.K., Russia, U.S.A., Java, Japan and other countries. *Recreations*: Reading, Photography. *Clubs*: U.P. Artists' Assoc.; U.P. Amateur Photographers' Assoc. *Address*: 3036, Nazimbagh, Lucknow.

SEN, Bashi (Banswar), B.Sc. (Calcutta), Padma Bhushan (1957), Scientist; Director, Vivekananda Laboratory, Almora. b. Nov. 1887; *Educ.*: Calcutta Univ.; research with Sir J. C. Bose, Bose Institute, Calcutta; London Univ.; Strangeways Laboratory, Cambridge; Marine Biological Laboratory, Plymouth and New York Univ., New York. Joined J. C. Bose for research, 1911; accompanied him in his world lecture tour as a Special Asstt., 1914-15; visited Universities in Japan, U.S.A. and England, 1923-24; was elected member, Physiological Society of Great Britain and Botanical Society of America; founded the Vivekananda Laboratory in Calcutta for research in General Physiology with financial assistance from Mr. and Mrs. L. K. Kimhurst, Mr. Glen Overton and a small grant from the Royal Society, London, 1924; delegate to the International Congress of Physiology, Leningrad, Moscow (1935) and International Congress of Botany, Amsterdam (1935); visited the Univ., Agricultural Research Institutes, U.S.A., 1940; joined the short course of Peaceful Uses of Atomic Energy at Oak Ridge, U.S.A., 1955 and attended the First International Conference in Geneva. *Publications*: A large number of scientific papers in Indian, British and American Journals. *Address*: Kundan House, Almora, U.P.

SEN, Kshitish Chandra, B.A. (Calcutta), 1909, B.A. (Cambridge), 1912. President, Bombay Sales-Tax Tribunal, since 1953. b. 1888; *Educ.*: Presidency Coll., Calcutta, and Trinity Hall, Cambridge. Joined I.C.S., 1913; Assistant Collector, Nasik and Dharwar districts, 1913-20; Assistant Judge, Dharwar, Sholapur, Khandesh and Thana districts, 1920-23; Assistant Remembrancer of Legal Affairs and Secretary to Legislative Council, 1923-24; Deputy Secretary, Legal Department, 1924-25; District and Sessions Judge, Thana and Kanara districts, 1923 and 1925-28; Registrar of High Court, Appellate Side, 1928-31; District and Sessions Judge, Hyderabad (Sind), 1931-34; Remembrancer of Legal Affairs, 1935-37; officiated as Judge, High Court of Bombay in 1934, 1936 and June 1937 to February 1939; Additional Judge, High Court of Bombay, March 1939 to 1941, when confirmed as a permanent Judge; retired from High Court, October 1948; Pres.: Industrial Court, Bombay, 1948-53; Bombay Sales Tax Tribunal, 1953; Bombay Co-operative Tribunal, 1953-54; Bombay Revenue Tribunal, 1955-56. *Address*: Matatal Park, Bhulabhai Desai Road, Bombay.

SEN, Dr. Kshitish Chandra, D.Sc., Fellow of the National Institute of Sciences of India, President, Indian Dairy Science Association; Ex-Director of Dairy Research, Govt. of India. b. January 31, 1899; *Educ.*: Bangabasi College, Calcutta; Muir Central College, Allahabad; Biochemical Laboratory, Cambridge; Rowett Research Institute, Aberdeen. Demonstrator, Chemistry Department, Allahabad Univ., 1924-29; Biochemist, Indian Veterinary Research Institute, Mukteswar-Kumaon, 1929-36; Officer-in-charge, Animal Nutrition Section, Indian Veterinary Research Institute, Izatnagar, 1936-44; Director, National Dairy Research Institute, Bangalore and Karnal, 1944-57. *Publications*: Over 100 original papers in colloid chemistry, general biochemistry, animal nutrition and dairy science; Author of a monograph on *Animal Nutrition Research in India*; Chief Editor, Indian Journal of Dairy Science, 1948-58. *Club*: Bangalore Club. *Address*: 403, Jodhpur Park, Calcutta 31.

SEN, Lieut.-General Lionel Protip, Distinguished Service Order (1944). Mentioned in despatches, Kashmir (1948). Chief of the General Staff. b. Oct. 20, 1910; *Educ.*: Rangoon; Royal Military Coll., Sandhurst, England. Commissioned, Jan. 1931; served one year with the 1st Bn. Cheshire Regt.; posted to 5th Bn. The Baluch Regt. and saw active service in the Mohmand Operations, 1933 and 1935, and the N.W.F.P. Operations,

1938; qualified at Staff Coll., Quetta, 1942; during World War II saw service in the Middle East, 1942-43; promoted Lt. Col. and commanded 16th Bn. The Baluch Regt. in the Arakan Operations, 1944-45 and in Malaya, 1945-46; appointed Secy., National Cadet Corps Ctee., under Pandit Kunzru, 1946; promoted Col. and posted to Army Hq., 1947; promoted Brigadier, Oct. 1947; commanded 161 Infantry Brigade which flew into Srinagar and inflicted a crushing defeat on the Pakistan raiders; commanded Bihar Sub Area, 1948 and 181 Indep. Infantry Brigade, 1949; attended the Imperial Defence Coll., London, 1950; Military Attache to the Indian Embassy in Japan and Liaison Officer with the U.N. Forces in Korea, 1951; commanded 4th Infantry Division, 1954; Director of Military Training at Army Hq., 1955-57; Master General of the Ordnance, Army Headquarters. *Recreations*: Hockey, Golf, Football, Racing. *Clubs*: Delhi Gymkhana Club; National Sports Club of India; Delhi Golf Club. *Address*: C/o Grindlay's Bank Ltd., New Delhi.

SEN, Mihir Kumar, B.Sc., LL.B., Barrister-at-Law, Swimmer. b. Nov. 16, 1928, at Purulia, Bihar (now West Bengal); *Educ.*: Ravenshaw Collegiate School and Ravenshaw Coll., Cuttack, Orissa; took B.Sc. degree, 1949 and obtained first class LL.B. from Utkal Univ., 1951; called to the Bar from Lincoln's Inn, Nov. 1954; read in the chambers of Mr. D. N. Pritt Q. C., London. Took active part in youth movement & cultural affairs in London while Secy., Youth House, 1953-55; set up practice at Calcutta High Court, May 1950; as the first Indian ever, made a bid to swim the English Channel; swam the Channel from England to France on 26th/27th Sept. 1958, as the first Indian and only Asian, with a time of 14 hours 45 minutes, the fourth fastest in this direction on record; started off from Shakespeare beach, Dover and landed on the French Coast at 2-45 a.m. (GMT) near Sangatte, but was stranded on the French shore for 4 hours, as the sea was too rough for a rescue boat to be launched; name entered in the Black Books of Lincoln's Inn—in recognition of his achievement. *Hobbies*: Fishing, travelling. *Address*: Bar Library, Calcutta High Court, Calcutta.

SEN, Nikhil Ranjan, D.Sc. (Col.), Dr. Phil. (Berlin), F.N.I. Scientist; Ghosh Professor of Applied Mathematics, Calcutta Univ. since 1921 b. May 23, 1894 at Dacca; *Educ.*: Govt. Schools at Dacca, Rajshahi; M.Sc. from Presidency Coll., Calcutta, 1916; Munich and Berlin Univs. Appointed Post-graduate Lecturer in Applied Math., Calcutta, 1917, studied in Germany and France, 1921-24; Pres., Calcutta Mathematical Society, 1935-57; member, National Ctee. for India, International Mathematical Union. *Publications*: Original contributions in Indian and foreign journals on fluid dynamics specially theory of turbulence; *Subjects of Interest*: Theory of Relativity; Internal Constitution of Stars. *Address*: 58A, Block D, New Allpore, Calcutta 33.

SEN, Mr. Justice Nirmal Kumar, B.A. (Hons. in English), M.A. (English), LL.B., Judge, Calcutta High Court, since March 13, 1957. b. Dec. 31, 1902; *Educ.*: Presidency Coll., Calcutta; Univ. Law Coll., Calcutta; B.A. (Hons. in English), 1921; M.A. (English), 1923; LL.B., 1924; Onanath Nanth Deb Law Research Prize holder and Gold medalist, Calcutta Univ., 1928. Advocate, High Court, Calcutta, May 15, 1925; Advocate, Federal Court, New Delhi, April 3, 1945; Advocate, Supreme Court of India, Aug. 15, 1947; appointed Deputy Legal Remembrancer to the Govt. of West Bengal, Aug. 15, 1947; some time member, Board of Studies in Law, Calcutta Univ. and also member, Faculty of Law, Calcutta Univ. *Publications*: *Torts by Animals*; *Procedure in Execution and Miscellaneous matters*. *Clubs*: Chakrabalithak-Dhakuria Lakes. *Address*: 98/8, Russa Road, Calcutta-26.

SEN, Dr. Sachin, M.A., B.L., Ph.D., Editor, *The Indian Nation* (daily), Patna and President, All-India Newspaper Editors Conference, 1956. b. Nov. 1902; *Educ.*: Dacca and Calcutta. Some time Asst. Secy., British Indian Assoc., Calcutta, and Lecturer, Vidyasagar Coll., Commerce Dept.; acted as Secy. to Sir P. C. Mitter during the 2nd Round Table Conference in London, 1931. *Publications*: *The Political Thought of Tagore*; *An Introduction to Science of Economics*; *Studies in the Land Economics of Bengal*; *The Birth of Pakistan, The Press and Democracy*, etc. *Address*: The Indian Nation Office, Patna.

SEN, Sali Chandra, B.Sc. (Engg.) (Hons.) (Glasgow), Principal, Delhi Polytechnic, since 1949. b. April 12, 1909; *Educ.*: Presidency Coll., Calcutta; B.Sc. (Engg.) (Hons.) from Glasgow Univ., 1932. Asstt. Engr., Calico Mills, Ahmedabad, 1935-39; Chief Engineer, Dhakeshwari Cotton Mills, Narayanganj, Dist. Dacca, 1939-41; Vice-Principal, Delhi Polytechnic, Delhi, 1939-49. *Address*: Delhi.

SEN, Dr. Samar Ranjan, Ph.D. (Dacca), Ph.D. (London), Economic and Statistical Adviser, Ministry of Food and Agriculture, Govt. of India, New Delhi. b. July 2, 1916; *Educ.*: Calcutta Univ., 1935-37; Dacca Univ., 1937-39; London Univ., 1945-47. Took part in C.D. Movement, 1932 & 1942; won 1st prize for Asia in World Essay Competition, 1937; Lecturer, Dacca Univ., Dacca, 1940-45; Dir., Indo-Europa Trading Co. Ltd., London, 1948-48; Secy., Indian Delegation to International Rice Commission, Bangkok, March 1949; Adviser, Indian Delegation to Indo-Pakistan Trade Negotiations (Karachi), June 1949; Member: Research Programmes Ctee. and Panel of Economists, Planning Commission; Standing Advisory Ctee. of the Reserve Bank of India on Agricultural Credit; Agricultural Prices Enquiry Ctee., 1954; Dy. Chairman, Minimum Wages Advisory Board, Ministry of Labour; Indian Delegate to the International Conference on Agriculture and Co-operative Credit held at Berkeley, U.S.A., Aug.-Sept. 1952; attended the World Population Conference in Rome, Sept. 1954, as a special invitee of the U.N.O.; leader, Indian Agricultural Delegation to the U.S.S.R. and Poland, Sept.-Oct. 1954; Member-Secy., Indian Delegation to China on Agricultural Planning, 1950; Chairman, Ctee. on Commodity Problems and Technical Ctee. on Economics, F.A.O., 1956; Member-Secy., Foodgrains Inquiry Ctee., 1957; Chairman, Jute Inquiry Ctee., 1957; Dir., F.A.O. Centre on Farm Management, 1957; Pres.-elect, All-India Agricultural Economists Conference, 1958-59. *Publications*: *Economics of Restrictionism*; *Economics of Sir James Stewart*; *Employment and Money*; *International Commodity Agreements*; *The Problem of Population and Agricultural Productivity in India*, etc. *Club*: National Sports Club of India, New Delhi. *Address*: 20, Lodi Road, New Delhi 3.

SEN, Triguna, A.M.M.E. (B.Tech.), Dr. Ing. (Munich), M.I.E. (Ind.), Rector, Jadavpur University, since 1956 & Mayor, Calcutta. b. Dec. 24, 1905; *Educ.*: Calcutta and Germany. Teacher, 1927-28; Deutsche-Akademie Scholar, 1929-32; in jail, then externed from Bengal, 1932-39; Engineer & Manager in different firms, 1940-43; Principal, Jadavpur Engg. Coll., 1944-55; member: Senate, Calcutta Univ. & Roorkee Univ.; Durgapur Industries Board, Calcutta Improvement Trust; Director, State Bank of India etc. *Address*: P. O. Jadavpur University, Calcutta 32.

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Ananda Mohan College, Mymensingh; Rajshahi College, Bengal; Glasgow University. Prof. & Head of the Dept. of Electrical Engineering, Bengal Engineering College, for over ten years; Principal, Industrial Training Centre, Ministry of Labour, Govt. of India, since September 1944; Member, Development Board, Post-war Reconstruction Scheme, Govt. of Bihar; Development Board, Roorkee Univ.; Council of Scientific and Industrial Research; Standards Institution; member, Education Panel of the Planning Commission, New Delhi; Member on the Educational Subcommittee of the Indian National Council for UNESCO; Secretary, North Zone, A.P.T.I.; gave talks on A.I.R., Allahabad centre on Technological Education, Perpetual Motion Machine, The Magic of Coal for Food and Clothing, and the Miracle of Synthesis Rubber. *Publications*: Several scientific papers read and published; *Statistics for Engineering Production in India*, indicating uses of raw materials available in the country; *Utilisation of Photo Electric Tubes in Industry*; *Modern Traction System*; *Training of Post-graduate Engineers*; *Design and Performance of High-gain Amplifier*; *Comparison of British Grid System with other existing Transmission Systems in the World*; Presidential Address, Indian Science Congress at Allahabad as Pres. of its Engineering and Metallurgy Section, 1949. *Address*: Banaras.

SEN GUPTA, Nareesh Chandra, M.A., D.L., Bengali Writer. b. May 2, 1882; *Educ.*: M.A. from Presidency Coll., Calcutta, 1902; D.L., 1912. Enrolled as Advocate, Calcutta High Court, 1906; Lecturer, Calcutta Univ. Law Coll., 1912-16; Professor of Law, Dacca Coll., 1916; Dean, Faculty of Law, Dacca Univ., 1920-24; took an active part in the anti-partition agitation from 1905; reverted to the High Court as Advocate since then; member, Bengal Leg. Council, 1930-35; Tagore Law Professor; is a senior Advocate, Supreme Court of India. *Publications*: *Evolution of Law*; *Evolution of Ancient Indian Law*; *Constitution of India*; *Succession Act*; *Company Manual*; about sixty novels and other works in Bengali. *Address*: 22/26, Manoharpukm Road, Calcutta-20.

SENGUPTA, Nirmal Kumar, B.Sc. (Eng.), M.I.E. (India), M.I.T.E., General Manager, Bombay Telephone District, since Sept. 1958. b. Nov. 1, 1912. *Educ.*: Sir Harcourt Butler High School, Simla; St. Stephen's Coll., Delhi; Benares Hindu Univ. Served apprenticeship with Tata Iron & Steel Co. at Jamshedpur, for a short period; was with the All India Radio for one year; Asst. Divisional Engineer, Telegraphs, 1938; served in various capacities in the P. & T. Deptt. till end of 1953; General Manager, Indian Telephone Industries (Private) Ltd., Jan. 1954 to March 1958; Postmaster-General, Punjab, April to Sept. 1958. *Recreations*: Tennis, Walking, Photography. *Clubs*: Radio Club; Rotary Club. *Address*: C.O. Bombay Telephone District, Bombay.

SEN GUPTA, Dr. Sudhir Ranjan, B.Sc., Ph.D., M.I.E. (Ind.), Director, Indian Institute of Technology, Kharagpur, West Bengal. b. Feb. 27, 1907; *Educ.*: India and England. Lecturer and later Professor, Bengal Engineering Coll., Howrah; Dy. Educational Adviser (Technical) to Govt. of India, Ministry of Education, New Delhi; Principal, Bengal Engineering Coll., Howrah. *Publications*: Research papers in Aerodynamics & Applied Elasticity in Reports and Memoirs of Aeronautical Research Council, in journals of learned and professional Societies. Report on the Research & Development of Gas Turbine (B.E. College Tech. Bull. No. 9, W.B. Govt. Press). *Recreations*: Reading, tennis, photography. *Clubs*: Railway Officers' Club, Kharagpur; Technology Club, Kharagpur. *Address*: Indian Institute of Technology, Kharagpur.

SETALVAD, Motilal Chimanlal, B.A., LL.B., Padma Vibhushan (26 January 1957), Attorney-General of India, since 1950 and

Chairman, Law Commission. b. Nov. 12 1884; *Educ.*: Elphinstone Coll., Bombay. Enrolled as Advocate, Bombay High Court, 1911; Advocate-General, Bombay, 1937-42; member: Indian Delegation to the U.N. General Assembly, 1947 and 1948; Kashmir Delegation to Security Council, 1948; Leader of the Delegation to U.N. General Assembly, 1949; Acting Advocate-General, 1949; Vice-Pres., Indian Branch of the International Law Assoc.; represented India at the Commonwealth Jubilee Legal Convention at Sydney, 1951; Principal Representative of India for the Kashmir question at the Security Council, 1952; Leader of the Delegation to the International Legal Conference in New Delhi, 1954; Chairman, Law Commission, 1955. Leader of the Delegation to the first and second sessions of the Asian-African Legal Consultative Cttee., 1957-58; presented India's case before the World Court at The Hague re. dispute with Portugal on the right of passage through Indian territory claimed by that country. *Publication*: *Civil Liberties in India*. *Club*: Willingdon Sports Club. *Address*: 1, Race Course Road, New Delhi.

SETH, Dr. H. C., M.A. (Allahabad), Ph.D. (London), Chairman, Public Service Commission, Madhya Pradesh, since Oct. 23, 1957. b. Dec. 5, 1900; *Educ.*: Allahabad Univ. and London School of Economics and Politics. Sir Ratan Tata Professor of Economics, Benares Hindu Univ., 1928-28; Professor and Head of the Deptt. of Economics, Nagpur Univ., 1928-44; Member, Public Service and Secy., Joint Public Service Commission, Bihar, C.P. and Orissa, 1944-48; Member, Public Service Commission, M.P., 1953-57. *Address*: Palasia, Indore.

SETHI, H. K. L., B.A. (Hons.), C.E., M.I.E., I.R.S.E., General Manager and Chief Engineer, Ganga Bridge Project, Indian Railways, since Oct. 1954. b. Oct. 21, 1900; *Educ.*: Govt. Coll., Lahore; Thomason Coll. of Civil Engineering, Roorkee. Asst. Executive Engineer, N.W. Ry., 1925-39; Executive Engineer, 1939-46; Dy. Chief Engineer, 1946-48; Divisional Supdt., 1948-50; Director, Civil Engineering, Railway Board, Aug. 1950—Oct. 1954. *Address*: General Manager, Ganga Bridge Project, P.O. Hathidah (Bihar).

SETHI, Seth Lalchand Balchand, Rai Bahadur, Vanilja Bhushan, Jain Ratna, Tajir-ul-Mulk, Banker and Millowner b. 1893. Head of the firm of Seth Binodram Balchand, Bankers; Director-in-charge and President, Board of Directors, the Binod Mills Co. Ltd., Ujjain (including Deepchand Mills, Binod Silk and Art Silk Mills); Narendra Chemical Works; Bhupendra Iron and Metal Works & other concerns; President, Managing Board, Model High School, Ujjain; Chairman: The Municipal Board, Ujjain, 1935-1947;



Vikram Education Public Trust; Yuvraj General Library; Vice-President, The Hindi Literary Society of Central India, Indore; The Digamber Jain Sabha, Malwa; General Secretary, The Rajputana Hindi Sahitya Sabha, Jhalrapatan City; Director: The Hukumchand Mills Ltd.; The Central India Insurance Co. Ltd., Indore; The Vulcan Insurance Co. Ltd., Bombay; New Manekchowk Spinning & Weaving Mills Ltd., Ahmedabad; The Madhya Pradesh Financial Corp.; The C.I. Machinery Manufacturing Corporation, Birlanagar, Gwalior; Krishnamram Baldeo Bank (Private) Ltd., Gwalior; Hony. Treasurer, Vikram Univ., Ujjain; is a regular contributor to charitable institutions. *Recreation*: Reading. *Clubs*: The Cricket Club of India, The Willingdon Sports Club, The Radio Club, Bombay; Jiwalji Club, Gwalior; Shri Yeshwant Club, Indore; Shri Madhav Club, Ujjain. *Address*: Binod Bhawan, Ujjain (M.P.). Telegraphic Address: Sethi.

SETHI, Kakeo Dhanjiboy, Paral Poet, Critic, Thinker, Writing in English; Editor, *Mother India*, Monthly Review of Culture. b. Nov. 25, 1904; *Educ.*: St. Xavier's School and Coll., Bombay; passed B.A. (Philosophy Hons.), 1926, with Ellis Prize in English; member, Sri Aurobindo Ashram (Pondicherry); Lecturer in English Poetry, Sri Aurobindo International Univ. Centre (Pondicherry). *Publications*: *The Secret Splendour* (Poems); *The Poetic Genius of Sri Aurobindo*; *Evolving India*; *The Adventure of the Apocalypse* (Poems); *Mysticism and Einstein's Relativity Physics*; *The Indian Spirit and the World's Future*. *Recreations*: Reading; Cycling. *Address*: 13, Rue Ananda Rangapouille, Pondicherry.

SETHI, Dr. Minoocher Jehangirji, Ph.D. (Bom.), Philosopher, Jurist, Writer, Professor and Counsel; Founder and Pres., Indian School of Synthetic Jurisprudence. b. Nov. 1, 1911; *Educ.*: Master's Tutorial High School, Wilson Coll., The Bombay Univ. and at Middle Temple, London. Is a Professor at Govt. Law Coll., Bombay, a keen writer and a scholar who has dedicated his life to writing and to philosophical and legal research; founded the Indian School of Synthetic Jurisprudence, the first of its kind in India, July 21, 1955. *Publications*: *Society and the Criminal*; *A Standard Text Book on Jurisprudence*; *A Standard Text Book on Indian Company Law*; *A Standard Text Book on Indian Mercantile Law*; *Civil Wrongs and Their Legal Remedies*; and some philosophical writings. *Address*: Sethna House, 251, Tardeo Road, Bombay.



SETT, Adi K., Life Fellow of the Royal Geographical Society, Life Fellow of the Royal Society of Arts, Member of the Royal Society of Literature, Poet and short story writer. b. Oct. 4, 1904; *Educ.*: Cathedral High School and the Imperial High School, Bombay; was later with Mr. G. H. Gladstone in London. Began writing at the age of sixteen. *Publications*: *A Trip to Ootacamund*; *Chameleons*, *Short Stories*; *Shah Jahan: A Monograph*; *The Light Above the Clouds* (Poems); *Rain in my Heart* (Poems). *Clubs*: The All India P.E.N. Centre; Asiatic Society of Bombay; The Bombay Art Society; The English Association (U.P. Branch); The Cricket Club of India; The Amateur Cine Society; The Bombay Presidency Kennel Club; The Royal Western India Turf Club. *Address*: Dilkoosha, 5, Altamont Road, Bombay 26.

SESH, Sambalal Narottamdas, B.A. (Bom.), B.A., LL.B. (Cantab.), Bar-at-Law, Chief Administrative Officer, New India Assurance Co. Ltd., since Jan. 2, 1957. b. September 29, 1896; *Educ.*: Baroda College; Elphinstone College, Bombay; Queen's College, Cambridge; passed I.C.S. Examination in 1920 and returned to India in 1921. Assistant Commissioner, Madhya Pradesh; Under-Secy. to Govt., Madhya Pradesh; Deputy Commissioner; Town Settlement Officer; Registrar of Co-operative Societies and Director of Industries; District and Sessions Judge, Nagpur; Legal Remembrancer and Secy. to Govt., Madhya Pradesh; Legal Adviser to the Military Governor, Hyderabad (Deccan); Pres., Income-tax Appellate Tribunal, Bombay; retired from I.C.S. in Dec. 1956. *Recreations*: Club games. *Clubs*: Gondwana Club, Nagpur; Willingdon Sports Club, Bombay. *Address*: B-9, Mafatal Park, Warden Road, Bombay 26.

SESH, Mr. Justice Jayantlal Chhotatal, LL.B., Judge, High Court, Bombay. b. Jan. 23, 1906; *Educ.*: R. C. High School, Ahmedabad; Gujarat Coll., and Elphinstone Coll., Bombay, Practised at Ahmedabad District Court and at Bombay High Court. Advocate (O.S.);

(Chairman, Food Poisoning Enquiry Commission, appointed by the Govt. of India to investigate the causes of food poisoning in Kerala State. *Clubs*: Willingdon Sports Club. *Address*: Flat No. 2, Shangri-La, Carmichael Road, Bombay No. 20.

SEAH, Maneklal Chundlal, B.A., LL.B., Minister for Local Self-Govt. (excluding village panchayats), Bombay, since April 1957. *b.* 1896; *Educ.*: Gujarat Coll., Ahmedabad. Headmaster, A. V. School, Dholka, for two years; joined a Solicitor's firm in Bombay as a managing clerk; set up practice at Dholka, Dec. 1920, Chairman, Managing Ctee., Seth Hasanali High School, Dholka, from 1922; elected member, Dholka Municipality, 1923; was its Pres. for two terms, 1935-39; again elected Pres., 1942; disqualified owing to his absence for more than three months from the town due to imprisonment; elected member: Dist. School Board, Ahmedabad for two consecutive terms from 1939, Dist. Local Board, 1944 and 1957; elected its Pres., District till 1947; elected M.L.A., 1947 and continuously for the third time, 1957; was member, Prov. Council and Exec. Ctee. of the Local Self-Govt. Institute, Bombay. *Address*: Seva Sadan, Narayan Dabholkar Road, Bombay 6.

SEAH, Manubhai Mansukhlal, B.Sc. (Hons.), B.Sc. (Tech.), Minister of Industry, Government of India, since May, 1957. *b.* Nov. 1, 1915; *Educ.*: Baroda Coll., Baroda; Institute of Science, Bombay. Served in high technical and administrative posts in the Delhi Cloth & General Mills Co. for over 12 years. Minister for Finance, Govt. of Saurashtra; Minister for Industrial Development, Govt. of India, 30th April 1956-14th June 1956; Minister for Heavy Industries, June 1956-May 1957. *Address*: 12, Tughlak Road, New Delhi.

SEAH, Mohanlal L., Prominent business man and industrialist of Calcutta. *b.* August 1894. Partner in the firm of Managing Agents, for The Mohini Mills, Ltd. Nos. 1 and 2 and Chimanlal Vadlal & Co.; Ex-President, Indian Chamber of Commerce and Bengal Mill-owners' Assn., Calcutta; Director of several banking, jute, tea and insurance institutions in Calcutta; Ex-Pres., All-India Organisation of Industrial Employers; Member: Ctee. of the Federation of Indian Chambers of Commerce and Industry;



Indian Companies Law Amendment Ctee.; Cotton Advisory Board; Indian Cotton Mills Federation; Commissioner for the Port of Calcutta; Assessor to the Industry and Trade Panels of the Railway Rates Tribunal, etc.; Pres., All India Textile Assoc. (Calcutta Branch); Committee Member: Indian Chamber of Commerce, Indian National Ctee., International Chamber of Commerce, New Delhi, Regional Ctee., West Bengal (Employees' Provident Fund), Calcutta; member, Cotton Textile Loan Advisory Ctee. of the N. I. D. C. Private Ltd., Bombay; member, Cotton Textiles Export Promotion Council, Bombay; represented the Employers as a Delegate to the I.L.O. Conference at Geneva, 1948; takes great interest in social and cultural activities. *Clubs*: Rotary Club of Calcutta; Calcutta Club. *Address*: 22, Canning Street, Calcutta.

SEAH, Shantilal Harjivan, B.A., LL.B., Minister for Labour and Law, Govt. of Bombay, since April 1957; Solicitor. *b.* July 30, 1898; *Educ.*: Gujarat Coll., Ahmedabad; Elphinstone Coll., Bombay. Congress worker in the Bombay Suburban District; was convicted and jailed for 18 months, 1932 and for 9 months, 1941; arrested and detained for 83 months, 1942; member, Bombay Legislative Assembly; Partner, Messrs. Bhalshankar Kanga and Giridharlal, Solicitors, Bombay; Minister for Labour and Public Health, Govt.

of Bombay, till Oct. 31, 1956; Minister for Education and Law, Govt. of Bombay, Nov. 1956-April 1957. *Address*: Sachivalaya, Bombay.

SEAH, Seematchandras S., Managing Director, Koorverji Devshi & Co., Ltd. *b.* June 30, 1906.

After completing his education, joined his father's business and developed it to its present position; has travelled widely in India; member: Assoc. of Merchants and Manufacturers of Textile Stores and Machinery; Indian Standards Institution; All-India Manufacturers' Assoc. *Clubs*: Hindu Gymkhana; W.I.A.A. Club House Ltd. *Address*: 164, Lohar Street, Bombay 2.



SEAMBU MAHARAJ, Padma Shri Guru, leading traditional Guru of Kathak Natwari dance of North India; Padma Shri (1958), Sangeet Natak Akadami Award (1955), Natwari Nritya Samrat (1938), Head of Dance Deptt., Bharatiya Kala Kendra, New Delhi, *b.* Kartik Purnima, 1907; *Educ.*: Privately at home; first received training in *thumri* singing from Ustad Rahmuddin Khan Banarswale at Lucknow and Faizabad (1910-20); trained in Bharat Nritya-Natwari by eldest brother Pandit Jagannath Prasad alias Achan Maharaj, then court-dancer of Rampur (1920-1925). Started propagation of Bharat Nritya-Natwari from Lucknow and Calcutta; first appeared in public performance at Lucknow, 1925; appeared later in various conferences throughout India; awarded Padma Shri, 1958. *Recreations*: Playing with children. *Address*: Bhaironji Road, Puljhalai, Lucknow; *Residence*: 7A, 38-W.E.A., Karol Bagh, New Delhi.

SEANKER, Vidya,* M.A., I.C.S., Director-General, Posts & Telegraphs since Oct. 1958. *b.* November 10, 1909 at Faridkhar (Oudh). *Educ.*: Govt. High School, Faridkhar (Oudh); D.A.V. College, Kanpur; Univ. School of Arts, Allahabad and St. John's College, Oxford. Appointed to I.C.S. (1933); Asst. Collector, Dharwar (1933-37); West Khandesh (1937-38); Poona (1938-39); Under-Secy. to the Govt. of Bombay, Rev. Dept. (1939-40); Dy. Secy., Finance Dept. (1940-41); Under-Secy. to the Govt. of India, Home Dept. (1941-43); Deputy Secy. (1943-46); Private Secy. to the Home Member (1946-47); Private Secy. to Hon. the Dy. Prime Minister, Aug. 1947-50; Jt. Secy., Ministry of States, March 1948-Aug. 1952; Jt. Secy., Ministry of Defence, Aug. 1952-Jan. 1954; Collector of Banaskantha, Jan. 1954-Jan. 1955; Secy. to the Govt. of Bombay, Revenue Dept., Jan. 1955-Oct. 1958. *Recreations*: Tennis, Books, Badminton, and other games. *Clubs*: Delhi Gymkhana Club, Cricket Club of India, B.W.I.T.C., National Sports Club of India. *Address*: New Delhi.

SEANTARAM, Rajaram Vankudre, leading Film Producer, Director and Actor. *b.* Nov. 18, 1901; *Educ.*: Kolhapur. Actively associated with film industry from 1920; has contributed in a large measure to its progress in artistic and technical qualities; worked in various capacities and earned proficiency in every type of work connected with film production; was a founder member, Prabhat Film Co., Poona; his pictures deal with human problems; introduced many new faces and talents; has so far produced and directed over 60 pictures, the first in 1926; is considered one of the best directors in the world; recipient of National and International Awards for best picture, best direction, best techniques, etc.; has worked as Chief Producer of Govt. Films Division; was member, Censor Board, Film Advisory Board, etc.; was one of the members, Film Enquiry Ctee.; 'Shakuntala' produced and directed by him was the first Indian picture commercially released in the U.S.A.; 'Jhanak Jhanak Payal Baaje' produced and directed by him is the

first technicolor production made in India without help from foreign technicians. *Address*: Rajkamal Kalamandir Ltd., Parel, Bombay 12.

SHANTILAL, Mangaldas, B.A. (Bom.), Managing Director, The Jehangir Vakil Mills Co., Ltd., Ahmedabad. *b.* 1901. Managing Director, New Jehangir Vakil Mills Co., Ltd., Bhavnagar, Navjivan Mills Ltd., Kalol (M.G.); Director of several other concerns; Pres., Federation of Indian Chambers of Commerce and Industry, New Delhi, 1955-56; Pres., Ahmedabad Millowners' Assoc. for 1946; Member, Senate of the Univ. of Bombay, 1928-43; attended the Textile Ctees. meetings of the International Labour Organisation at Brussels, 1946 and at Geneva, 1948 as Employers' delegate; takes interest in social work and education. *Address*: Near Police Lines, Shah-i-bag, Ahmedabad.

SHARMA, Brij Lal, B.A. (Hons.), Principal Information Officer, Press Information Bureau, Govt. of India, now Officer on Special Duty, Ministry of External Affairs. *b.* April 6, 1906; *Educ.*: Graduated with Honours from F.C. Coll., Lahore, 1927. Was in England including a few years spent in Fleet Street, 1927-33; on the staff of *Hindustan Times* and Correspondent of various newspapers in India, 1934-38; joined Press Information Bureau as Asst. Information Officer, Sept. 1938; Publicity Co-ordination Officer, Ministry of Information and Broadcasting, 1948; member, Indian Delegation to the Security Council on the Kashmir issue, 1948; appointed Deputy Secretary, Information and Broadcasting Ministry, October 1948; Adviser to the Indian Delegation to the U.N. General Assembly, 1950; Adviser to the Indian Delegation on Kashmir to Geneva, 1952; Colombo Plan Information Officer, Colombo, 1954-56; delegate or observer to Colombo Plan Consultative Ctee. meetings, New Delhi 1953, Ottawa 1954, Singapore 1955. *Address*: Ministry of External Affairs, New Delhi.

SHARMA, M. S. M., Editor, *The Searchlight*, Patna, since 1950. *b.* July 31, 1907; *Educ.*: Madras, Trichinopoly and Madras. Sub-Editor, *The Independent*, 1919-21; Editor, *Reader's and A.P.I.*, 1922-28; Calcutta Special Representative, *The Hindu*, 1933-35; Editor, *Kaiser-i-Hind*, 1937-39; Editor, *The Daily Gazette*, 1939-48. *Publications*: Some Sanskrit books and a book in English *Peeps into Pakistan. Recreations*: Walking. *Clubs*: New Patna Club, Patna. *Address*: New Patna Club Annexe, Gardiner Road, Patna.

SHARMA, Narendra, M.A. (Allahabad), Hindi Poet; Programmes Producer, All India Radio, since 1953. *b.* Feb. 28, 1913; *Educ.*: Khurja and Allahabad; M.A. in 1936. Entered journalism as sub-editor in 'Abhyudaya', Hindi Weekly, Allahabad, 1934 and 'Bharat', Hindi Daily, Allahabad, 1937; In-charge, Hindi Section, A.I.C.C. Secretariat, Swaraj Bhawan, 1938-40; Editor, 'Roopabha', Hindi Monthly (All.); Lecturer, Kashi-vidyapeeth; detained without trial, 1941-42; Lyric-Writer, Bombay Talkies, 1943-47; Freelancer. *Publications*: *Shool-Phool*; *Karn-Phool*; *Prabhat-Pari*; *Prasadi Ke Gae*; *Mithi Aur Phool*; *Kamini*; *Hanumala*; *Raki Chandan*; *Agni-Shayya*; *Kadali-Van* and *Palash-Van*, (collections of verses); *Karavi-Mithi Baaten* and other short stories (collection of stories). *Address*: 19th Road, Khar, Bombay 21.

SHARMA, Dr. Shankar Dayal, M.A., LL.M., Bar-at-Law, D.P.A. (Lond.), F.R.A.S. (Lond.), Ph.D. (Canab.), Minister for Education and Law, Madhya Pradesh. *b.* Aug. 1916; *Educ.*: Allahabad, Lucknow and Cambridge Univs.; Brandeis Fellow of Harvard Law School, U.S.A.; Fellow of the Academy of International Law at Hague, Holland. Lecturer, Law Faculty, Cambridge Univ.; Lecturer and Reader in Law, Lucknow Univ.; Editor-in-Chief, Lucknow Univ. Union Journal; Editor, Lucknow Law Journal;

* At the time of going to press, reported likely to take over as Administrator under President's rule in Kerala.

Chief Minister, Bhopal. *Publications*: Published literary and legal articles in Indian and foreign periodicals. *Recreation*: Swimming. *Clubs*: Cambridge Univ. Majlis; Lucknow Univ. Union. *Address*: Bhopal.

SERMA, Pandit Vichitra Narain, Minister for Local Self-Govt., U.P., since April 1957; b. May 10, 1898; *Educ.*: D. A. V. High School, Dehra Dun; Banaras Hindu Univ., Banaras. Participated in non-co-operation movement, 1920; founded with Acharya Kripalani, Gandhi Ashram, 1920; jailed several times in the freedom movement, 1921, 1932 and 1942; General Secy., Gandhi Ashram, since its foundation; Secy., Kashmir Charkha Sangh, 1938-43; nominated member, old Leg. Council, 1947; elected M.L.A., U.P., at the first general elections, 1952; Minister for Transport, U.P., May 1952-Dec. 1954. Minister for Public Works, U.P., Dec. 1954-March 1957. *Recreation*: Horticulture; Agriculture. *Address*: 8, Mall Avenue, Lucknow.

SHASTRI, Pandit Hiralal, Sahitya Shastri, B.A., Member of Lok Sabha from Nawal Madhopur (Rajasthan). b. Nov. 24, 1899; *Educ.*: Maharaja's Coll., Jaipur; Secy., Foreign and Home Dept., Council of State, Jaipur; founded 'Jiwankutir', Banasthali, Jaipur, for village uplift work; following the sudden death of his only daughter, Shantabai, founded Banasthali Vidyapeeth, national institution for girls' education; General Secy. and Pres., Jaipur Rajya Prajamandal; General Secy., Rajputana Regional Council of All-India States People's Conference; General Secy., All-India States People's Conference; member, Constituent Assembly of India; Member, Provisional Parliament of India; Chief Minister, Jaipur State; Chief Minister, Rajasthan; Editor, "Jiwan Sandesh", Hindi Weekly; Founded Navajwan Kutir, Jaipur for general education of the people; Founder-Chairman of "Lokvani", Hindi Daily; *Publications*: *Jiwankutir-Ke-Gest* in 12 booklets; *Geet-Parchhai*, *Narajan Karyakram*. *Address*: Navajwan Kutir, Bani Park, Jaipur.

SHASTRI, Lal Bahadur, Minister of Commerce and Industry, Govt. of India, since March 1958. b. 1904, in a village in Banaras Dist. (U.P.); *Educ.*: Kashi Vidyapeeth. Participated in the Non-Co-operation Movement and courted jail, 1921; Life-Member, Servants of the People Society, since 1926; imprisoned for two and a half years during Salt Satyagraha movement, 1930; General Secy., U.P. C.C., 1935-38; returned to the U.P. Leg. Assembly, 1937; re-elected and appointed Parliamentary Secy. to the Chief Minister, U.P., 1946; elected Secy. U.P. Congress Parliamentary Board, 1945; appointed Minister for Police and Transport, U.P., 1947; resigned and became Gen. Secy., Indian National Congress, 1951; elected member, Rajya Sabha from U.P. Minister for Railways and Transport, Govt. of India till Nov. 1956, when he resigned; took over as Election Chief of Congress Party; after elections in 1957 joined the cabinet; Minister of Transport and Communications, April 1957-March 1958. *Address*: New Delhi.

SHELAT, Mr. Justice J. M., M.A. (Lond.), Bar-at-Law, Judge, High Court, Bombay, since Nov. 24, 1957. b. July 10, 1908; *Educ.*: Jubilee Institution, Umreth (Dist. Kalra); took B.A. (Hons.) in literature, from Elphinstone Coll., Bombay, 1928; also obtained B.A. degree from the Univ. of London and M.A. degree by writing a thesis on the "Treason of the Senate" in the Constitution of the United States; called to the Bar (Inner Temple, London), Jan. 1933. Started practice in Bombay High Court, Oct. 1933; Judge, City Civil Court and Addl. Sessions Judge, Greater Bombay, 1948-54; Principal Judge and

Sessions Judge, 1954-57; Addl. Judge, Bombay High Court, Jan. 6, 1957-Nov. 23, 1957. *Publications*: Wrote several articles in journals and magazines; was one of the contributors to *Munshi, His Art and Work*. *Recreation*: Golf, Tennis. *Club*: Willingdon Sports Club. *Address*: "Sheela", 303, Vithal-bhai Patel Road, Khar, Bombay 21.

SHEOREY, Smt. Indumati, M.A., G.D. Art (Bombay), Marathi Writer; Assistant Producer, All India Radio, Nagpur. b. Oct. 13, 1917; *Educ.*: Nagpur, Nagpur Univ. Worked as Asst. Editor, "Independent", a prominent Nationalist English Weekly, 1945-47; a columnist in *Nagpur Times*, English daily, 1948-52; Section Editor in Marathi daily, *Tarun Bharat*, 1952-56; first woman journalist in English journalism in old M.P. *Publications*: *Shapit Ani Unshapit*; *Hindu Code Kan Pahije*; *Amanil Ani Iter Katha* and *Nakoshi Ani Iter Katha* (both under print). *Recreation*: Painting. *Address*: 31, Shanker Nagar, Nagpur.

SHIRKE, Shridharrao Shankarrao, B.A., B.Sc., Private Secretary to H. H. Maharani Chhinnabai Saheb Gaekwar of Baroda, 1950-58. b. May 21, 1894; *Educ.*: Elphinstone and St. Xavier's Colleges, Bombay. Agricultural Adviser to the Raja of Sawantwadi, 1925-27; Professor, Rajaram Coll. and Registrar of Co-operative Societies, Kolhapur, 1928-42; Personal Asst. to Prime Minister, Kolhapur, 1936-42; Commissioner and Chief Excise Officer, Kolhapur, 1942-49; nominated M.L.A., Kolhapur; took keen interest in agricultural and rural development in the State; was Pres. Farmers' Fair and Cattle Show held at Kolhapur in 1939 when Viceroy Linlithgow visited Kolhapur; was awarded Kaiser-i-Hind silver medal for public services, in fostering the Co-operative Movement in Kolhapur State, 1939. *Address*: 883, Poona 4.

SHIVAHARE, Dharmendra Veer, B.A., I.L.B., Superintendent, Printing & Stationery Dept., Rajasthan Govt., Jaipur. b. in Fatehpur Dist., U.P.; *Educ.*: Ajmer and Nagpur. Imprisoned in Central Jail, Ajmer, for Congress activities for 6 months, 1930; again arrested, Aug. 9, 1942 and released, Sept. 1943; elected Municipal Commissioner, Ajmer, twice; is a hereditary printer; received practical training in all sections of printing; also practised as a successful lawyer for a few years; after release in 1944, became Supervisor, Latif Press, Delhi; invited by Mewar Govt. for organizing their press at Udaipur; got the Press building constructed in modern style; was a keen sportsman during school and college days, annexing several colours and medals; was Speaker, Govt. Coll. Union, Ajmer; was Honorary Secy., Field Club, Udaipur; was Treasurer, Umaid Club, Jodhpur; played a prominent part in improving the Govt. Central Press, Jaipur in its equipment and quality of printing. *Address*: Superintendent, Printing and Stationery Dept., Jaipur.

SRIKANT, L. M., Commissioner for Scheduled Castes and Scheduled Tribes, Govt. of India, since 1950. b. June 1897 in Bombay; *Educ.*: Matriculation, 1914; St. Xavier's Coll., Bombay; graduated from Elphinstone Coll., Bombay, 1918; studied Law and M.A. course in Sociology upto 1919. Treasurer, Girgaum Congress Ctee., Bombay, 1920-21; joined the Bhil Seva Mandal started by Thakkar Bapa in Fanch Mahals, 1923; Pres., Dist. Congress Ctee., 1929; organised Satyagrah in 1930 Swaraaj Movement; was member,

A.I.C.C. and Exec. Ctee., Gujarat P.C.C. for about 10 years; elected M.L.A., Bombay, 1937 and 1941; organised many conferences for Scheduled Tribes; was one of the Directors of the Provincial Co-operative Bank, Bombay State; was member, Backward Classes Board, Bombay State; was Secy., Western India Aboriginal Conference; appointed Secy., Bharatiya Adimjati Sevak Sangh, 1949; toured various parts of the country studying problems of Scheduled Tribes from time to time; courted jail in freedom movement. *Present Address*: 18, Akbar Road, New Delhi. *Permanent Address*: Shree Bhavan, 289, Sandhurst Road, Bombay 4.

SERIMALLI, Dr. Kala Lal, M.A. (Philosophy and Psychology), Ph.D., Minister of Education, Govt. of India, since April 1958. b. Dec. 30, 1909; *Educ.*: Banaras Hindu Univ.; Calcutta Univ.; Columbia Univ., New York. Headmaster, Vidya Bhawan, 1931-42; Principal, Vidya Bhawan Teachers' Coll., from 1942; member, Secondary Education Commission, Govt. of India, 1953; Convener, Rural Higher Education Ctee., 1954; Parliamentary Secy. to the Minister for Education, Govt. of India; Deputy Minister for Education, Govt. of India, May 1955-April 1957 and Min. of State in the Ministry of Education, Govt. of India from April 18, 1957 to April 10, 1958. *Publications*: *The Wardha Scheme*; *Adventures in Education*; *Buchon Ki Kuch Samanyayen* (Hindi); *Shiksha Aur Bhartiya Loktantra* (Hindi). *Address*: 20, Ashoka Road, New Delhi.

SERINAGESE, Jayavant Mallannah, C.I.E. (1946), I.C.S., Managing Director, Indian Refineries, Ltd. b. 1905; *Educ.*: W. Buckland School, Devon; Trinity Coll., Cambridge. Entered I.C.S., 1928; Jt. Secy., Ministry of Industry and Supply, Govt. of India, 1945; Commissioner of Jullundur, 1947; Adviser to Nepal Govt., 1950; Managing Dir., Hindustan Aircraft Ltd.; Fellow, Institute of General Managers, London; Vice-Pres., All-India Management Assoc.; Member, American Management Assoc. *Address*: Delhi Gymkhana Club, New Delhi.

SERINAGESE, General Satyavant Mallannah, Principal, Administrative Staff College, Hyderabad; was Chief of the Army Staff, Indian Army, b. May 11, 1903; *Educ.*: Public School in England; Cambridge Univ. and Sandhurst. Was commissioned in 1923; commanded the 6th Kumaon Regt. and fought in Waziristan, Assam and Burma with the Lushai Brigade, Dec. 1942; officiated as Brigade Commander, 64 Indian Infantry Brigade of the 19th Indian (Dagger) Division in Burma, Aug. 1945; elected to go to Germany as Dy. Chief of the Indian Military Mission, Nov. 1945; worked as Economic Adviser and Counsel, Commandant, Kumaon Regimental Centre, 1946; commanded 268 Indian Infantry Brigade, Japan, Jan. 1947; was promoted Major-General and appointed G.O.C., Madras Area, Sept. 1947; became Adjutant-General, A.H.Q., India, 1948; took over the over all command of Indian Forces in Jammu and Kashmir, Sept. 1948; G.O.C.-in-C., Western Command, 1949-53; G.O.C.-in-C., Southern Command, 1953-55; awarded the Legion of Merit (Degree of Commander) at Washington, Sept. 2, 1955; (Chief of the Army Staff, Indian Army, 1956-57. *Address*: Hyderabad.

SERIVASTAV, Dr. Jag Bhushan, M.D. (Bom.), D.B. (London), Srinivasan Gold Medal of Ophthalmological Society of India for research on trachoma (Feb. 1958); Director, Central Research Institute, Kasauli and Editor, Indian Journal of Medical Research. b. April 12, 1918. *Educ.*: Coll. of Science, Nagpur; G. S. Medical Coll. & K. E. M. Hospital, Bombay; School of Tropical Medicine & Hygiene, London; Gonville & Caius Coll., Cambridge. Research Fellow, I.C.M.B., 1946-48; Govt. of India Research Fellow in England, 1948-51; Prof. of Pathology & Bacteriology, Medical Coll., Nagpur, 1952-57; member: Governing Body, Indian Council of Medical Research, 1958; Advisory Ctee. on



Virus Diseases, 1955-57 and on Pathology & Bacteriology, I.C.M.R., since 1958; Indian Pharmacopoeia Ctee., Govt. of India, since 1958; Drugs Technical Advisory Board, Govt. of India, since 1958; Council of Indian Assoc. of Pathologists, since 1957; represented the Nagpur & Bombay Univs. in Tennis and captained the Tennis teams of all the colleges where educated. *Publications*: A large number of research publications on Pathology, Bacteriology, Parasitology, and Virus Diseases in English, American & Indian Medical Journals. *Recreations*: Tennis, Cricket. *Clubs*: Gondwana Club, Nagpur; Kasauli Club, Kasauli. *Address*: Director, Central Research Institute, Kasauli, Punjab.

SHEROFF, Kirdeshir Darabshaw, B.A. (Hons.) (Hons.), B.Sc. (Econ.), London, Director, Tata Sons Ltd. b. June 4, 1899; Prof. of Advance Banking at Sydenham Coll., Bombay; Vice-Pres., Bombay Shareholders' Assoc., 1936-37; Member, Ctee. of Indian Merchants' Chamber, 1930-36; Vice-Pres., Indian Merchants' Chamber, 1936; Trustee of the Port of Bombay, 1933-37; Chairman, Tata Textile Group and New India Assurance Company; member, Profit Sharing Ctee.; an expert witness before the Select Ctee. of Central Legislative Assembly on the Reserve Bank Bill, 1934; Director-in-Charge, Investment Corporation of India Ltd.; The National Ekko Radio & Engineering Co., Ltd.; Non-official Indian Delegate to the World Monetary Conference at Bretton Woods, U.S.A., 1944; Chairman, Railway Stores Enquiry Ctee. (1950-51); Expert Ctee. on Forward Contracts (Regulation) Bill, 1950; Sponsor, Forum of Free Enterprise. *Publication*: One of the authors of the Bombay 15-Year Plan. *Address*: "Eddie House," Pedder Road, Bombay.

SHEROFF, Kalkushahr Ruttonji P., President, Stock Exchange, Bombay, and Director of several Joint Stock Companies, b. July 27, 1878; *Educ.*: Bhorda New High School and Byramjee Jeejeebhoy College of Commerce. Has written books on Mathematics; recipient of Silver Jubilee and Coronation Medals. *Publications*: *Elementary Arithmetic and Algebra for P. H. Students*. *Address*: Sunshine, Churchgate Reclamation, Bombay.

SHUKLA, Shambhunnath, B.A., LL.B., Minister for Forests and Natural Resources, Madhya Pradesh, since Nov. 1, 1956. b. 1903; *Educ.*: Allahabad Univ. Entered politics during the Dandi March, 1932; was detained at Madhogarh Fort for two years; imprisoned for participating in the 'Quit India' movement; released, 1944; Food and Civil Supplies Minister and later Finance Minister, Uwa State, 1947; nominated as a member of Parliament by the Governor-General, 1949; elected M.L.A., Vindhya Pradesh, 1952; Founder Editor, *Bhaskar*, Hindi Weekly of Rewa, 1945; was Gen. Secy., V.P.C.C.; its Pres.; organised and managed khadi work; opened a Khadi Bhandar at Rewa; elected to the State Assembly in the general elections; unanimously elected leader of the Congress Party in the State Assembly and became Chief Minister; continued as Chief Minister till Oct. 31, 1956; elected to the Legislative Assembly, Madhya Pradesh, 1957. *Address*: Bhopal, Madhya Pradesh.

SIDDIQI, Abdul Qadir, B.A., LL.B., Minister for Food, Civil Supplies & Jail, Madhya Pradesh; b. Feb. 1, 1889, at Burhanpur, M.P. *Educ.*: Anjuman High School, Jabalpur; M.A.O. Coll., Aligarh; Morris Coll., Nagpur; B.A. in 1910 and LL.B. in 1915. Joined Bar at Burhanpur, 1915; gave up practice under the mandate of the Indian National Congress, 1920; was member, of A.I.C.C. and Khilafat Ctee. and was Vice-Pres. of the P.C.C. and Khilafat Ctee. till 1923; has been a member of the Congress since then, was Pres., Municipal Ctee., Burhanpur for one term and Vice-Pres. till 1952; elected M.L.A. and appointed Deputy Minister for Education, old M.P., 1952;

was re-elected M.L.A. in the new M.P. *Address*: Minister for Food, Civil Supplies and Jail, Sultania Infantry, Bhopal.

SIDDIQI, Muhammad Zubayr, H.A. (Punjab), M.A., B.L., Ph.D. (Cambridge), Padma Shri (1958), Sir Asutosh Professor of Islamic Culture, Calcutta University, since 1929. b. 1890; *Educ.*: Madrasa Aliya of Rampur (U.P.); Oriental Coll., Lahore; Bihar National Coll., Patna, worked under Prof. F. G. Brown (Cambridge). Head of the Dept. of Arabic, Lucknow Univ. (1926-28); Member, Senate and Syndicate, Calcutta Univ. for more than 15 years; elected Vice-Pres., Asiatic Society of Bengal for more than six years; Hon. member, Islamic Research Society of Bombay and Fellow of Asiatic Society of Bengal; Member, A.C. Council Vwa Bharati, Santiniketan; elected Pres., Arabic, Persian, Urdu and Islamic Culture sections, All India Oriental Conference, Nagpur, Hyderabad and Darbhanga; Indian Representative at International Congress of Orientalists, Istanbul; awarded certificate and robe of honour by the President of India. *Publications*: Edited the *Ferdous-ul-Hikmat*, the oldest Arabic Medical Compendium (Published from Berlin in 1928), *The Tarikhi-Hayat of Saifi* (Imperial Library of Calcutta, 1944) and *Al-Sayr-ul-Hathith fi Tadwinil-Hadith* (Published from Hyderabad-Deccan); several papers published in various journals. *Address*: P. 6, Suhrawardy Avenue, Circus P. O., Calcutta 17.

SIDHANTA, Nirmal Kumar, M.A. (Cantab.), LL.D. (Toronto), Double First Class, English Tripos, Padma Bhushan (1959), Vice-Chancellor, Calcutta University, since Aug., 1955. Dean, Faculty of Arts, Lucknow University and Member-Secretary, Universities Commission. b. Oct. 31, 1894; *Educ.*: Calcutta and Cambridge Universities; Griffith Prizeman, Calcutta University, Lecturer, School of Oriental Studies, London Univ., 1922-23; Reader in English, Lucknow Univ., 1923-26; Professor of English, Lucknow Univ., 1926-51; Dean, 1933-51; Wilson Philological Lecturer, Bombay University, 1928; Secy., Inter-Univ. Board, India, 1937-42; Chairman, 1946-48; member, Central Advisory Board of Education, since 1948; member & Secy., Indian Universities Commission, 1948-49; Member, Union Public Service Commission, 1951-55; member, Univ. Grants Commission; member, Pay Commission. *Publications*: *The Heroic Age of India: A Comparative Study*; articles on literature, art and education. *Recreations*: Tennis and Bridge. *Address*: Calcutta.

SILAM, Sayaji Lakshman, B.A., LL.B., Speaker, Bombay Legislative Assembly, since June 1957. b. May, 18, 1890; *Educ.*: Wilson High School, Wilson Coll. and Govt. Law Coll., Bombay, General Secy., Bombay Pradesh Congress Ctee. (1946-49); Vice-Pres., B.P.C.C. (1941); was Secy., Bombay Hindi Sabha and Pres., Bombay Automobile Employees' Union and Bombay Insurance Employees' Union; was Chairman, Prohibition Inauguration Celebration Ctee. and member, Greater Bombay Prohibition Ctee.; was member, Bombay City & Suburbs Post-war Development Ctee. and Chairman of its housing panel; is connected with several educational institutions; courted jail in individual satyagraha and Quit India Movement; member, Bombay Municipal Corporation, 1922-46; was Chairman, Standing Ctee. and Works and Markets and Gardens Ctee. of Corporation; was member, Bombay Improvement Trust Ctee. and Schools Ctee.; Fellow of Bombay Univ.; was member, Backward Class Board of Bombay State, first elected to Bombay Leg., 1946; Prohibition Commissioner (1937-38); Secy., Tilak Memorial Ctee.; Pres., Society of Hon. Presidency Magistrates of Bombay (1956-57); was Chief Whip, Bombay Leg. Congress Party till election as Speaker, Bombay Assembly, Nov. 1956; elected again as member, 1957; is also Convener, Bombay Pradesh Bharat Sevak Samaj. *Publications*: *Gitalap* (Marathi). *Address*: Parna Kutl, Winter Road, Malabar Hill, Bombay 6.

SINCLAIR, John William, General Manager, Standard Vacuum Oil Co., since 1957. b. Oct. 29, 1905; *Educ.*: London and Canada. Joined Standard Oil Co., New York, 1930; served Standard Vacuum Oil Co. in Japan, 1935-36; in India, 1937-45; in China, 1946-49; in Hongkong, 1950; in Philippines, 1951; in New York, 1952-54; in India, since 1954; Asstt. General Manager, 1955-57. *Recreations*: Golf, Reading, Clubs: Willingdon; Delhi Golf Club; Shako and Fan Wine, Hongkong. *Address*: 'Sorrento', Mount Pleasant Road, Bombay 6.

SINGH, Air Vice-Marshal Arjan, Distinguished Flying Cross, Air Officer Commanding in-Chief, Operational Command, since 1958. b. April 15, 1919. *Educ.*: Lahore. Joined I.A.F., 1939; saw service on the North-West Frontier and Burma during evacuation and reconquest; commanded No. 1 Squadron during the last War; attended R.A.F. Staff Coll. and Joint Services Staff Coll. in England, A.O.C. Operational Command, 1951-52; Air H.Q. 1953, '54, '55; A.O.C. Operational Command, 1956, '57; promoted Air Vice-Marshal 1958 and redesignated as A.O.C.-in-C. *Recreations*: Swimming, Golf. *Address*: 13, York Road, New Delhi.

SINGH, Padma Shri Balbir, B.A., leading Hockey Player; Deputy Superintendent of Police, Punjab. b. Oct. 10, 1924; *Educ.*: Dev Samaj High School, Moga (Punjab); Khalsa Coll., Amritsar, Punjab Univ. Represented Punjab Univ. Hockey Eleven, 1943; represented State Eleven in the National, 1944, and has been continuously playing for the State ever since; captained Punjab Univ. Eleven, 1945; toured South India and Ceylon with I.I.F. team, 1947; represented India in the World Olympics at London, 1948, won gold medal; toured Afghanistan with Indian Hockey Team, 1949; captained Indian Hockey Team to Afghanistan, 1950; played two Test Matches against Japanese Hockey team touring India, 1951; represented India in Olympic Games at Helsinki, 1952; won Gold Medal; captained Indian Hockey team to Singapore and Malaya, 1954; visited New Zealand, Australia and Ceylon with Indian Wanderers Hockey Team, 1955; captained Indian Olympic team to Melbourne Olympic Games, 1956; won Gold Medal; awarded Padma Shri by the President of India, Jan. 1957; captained the Indian Hockey Team for the Asian Games at Tokyo, May, 1958. *Address*: Dy. Superintendent of Police, Patiala.

SINGH, Sardar Baldev, member, Lok Sabha; Ex-Minister for Defence, Govt. of India; Member for Defence Interim Government, September 2, 1946; Minister for Development, Government of Punjab, June 1942-Sept. 1946; Defence Minister, 1947-52. *Address*: New Delhi.

SINGH, Chandrasevar Prasad Narain, M.A., Indian Ambassador to Japan. b. April 18, 1901; *Educ.*: G.B.B. Coll., Muzaffarpur; Calcutta Univ.; Member, Provincial Simon Ctee., 1928; Hon. Secy., Tirhoot Can. Marketing Board, 1934; member, B. and O. Leg. Council until 1936; returned to Provincial Legislature as the representative of the landholders, 1937; Chairman, Muzaffarpur Dist. Board for 12 years; Pres., Provincial Franchise Ctee., 1930; Leader, National War Front, Bihar, 1942; Pres., Bihar Flying Club, 1947; Leader of the Opposition, Bihar Leg. Assembly; Fellow, Patna Univ., 1930; Vice-Chancellor, Patna Univ.; Indian Ambassador in Nepal till Oct. 1952; Governor of Punjab. *Recreations*: Tennis, Shooting, Painting, Riding. *Address*: C/o External Affairs Ministry, New Delhi.

SINGH, Dr. Sawa Kartar, M.A. (Cantab.), Sc.D. (Cantab.), Sc.D. (Dublin), F.R.I.C., F.N.I. etc., Scientist; Research Scientist, Council of Scientific & Industrial Research, since 1958. b. April 17, 1885. *Educ.*: Cambridge

Univ. 1903 and 1925; St. Andrew's Univ., 1925-26; member, Indian Education Service; retired 1941; Professor of Chemistry, Dacca, 1910-18; Lahore 1918-21, Cuttack, 1921-36; Patna, 1936-40; Allahabad 1940-46; Punjab Univ., Lahore, 1946-47; Banaras Hindu Univ., 1948-57; Past Pres., Indian Science Congress, Chemistry Section, 1920; Indian Chemical Society, 1931-32; Past-Vice-Pres.: Indian Academy of Sciences, 1934-38 and National Institute of Sciences, 1934-37 and 1940-46; Emeritus Professor of Chemistry, Allahabad Univ., 1946. *Publications*: 151 Chemical Papers. *Address*: Organic Chemistry Research Section, Banaras Hindu University, Varanasi.

SINGH, Charan, M.A., B.Sc., LL.B., Ex-Minister for Irrigation, Power and Revenue, Uttar Pradesh. *b.* Dec. 23, 1902; *Educ.*: Meerut and Agra. Started legal practice in Ghaziabad (Dist. Meerut) in 1928; began taking active interest in political and other public activities in 1929; imprisoned in 1930 for six months, in 1940 for one year and in 1942 for fifteen months; elected M.L.A. (U.P.) in 1937, 1946, 1952 and again in 1957; Parliamentary Secy. to the Hon'ble Chief Minister, U.P. till June 1951; appointed Minister from 4th June 1951; originator of the Bhumi-dhari Scheme; Chairman, the Zamindari Abolition Publicity Board, Revenue Courts Reorganisation Ctee. (1946), Tenancy Act Amending Ctee. (1946), Duddhi Enquiry Ctee. (1947), Ayurvedic and Unani Systems Reorganisation Ctee. and Local Bodies Pay Ctee. *Publications*: *Abolition of Zamindari*, 1947, *Shitachar*, 1955 and *Whither Co-operative Farming*. *Address*: C o Secretariat, Lucknow.

SINGH, Lieut.-General Daulat, Corps Commander, Indian Army, since Feb. 1957. *b.* Jan. 4, 1911; *Educ.*: Govt. Coll., Lahore; Royal Military Coll., Sandhurst. Commissioned into the Indian Army, Jan. 29, 1931; joined the III Cavalry; was a Regimental Officer up to 1942; selected for the Staff Coll., 1942; has held important Staff and Command appointments; attended a course at the Imperial Defence Coll., U.K., 1953; Dir. of Military Operations, Army Hq. India, April 1952-Nov. 1952; G.O.C., Bombay Area, Aug. 1954-Dec. 1955; G.O.C., Armoured Division, Dec. 1955-Feb. 1957; Quarter Master General, 1957-59; *Recreations*: Polo, Hockey, Tennis and Squash. *Club*: Delhi Gymkhana Club, New Delhi. *Address*: Army Headquarters, New Delhi.

SINGH, Gur Baksh, B.Sc., C.E. (1922). Punjabi Writer. *b.* April 20, 1895; *Educ.*: F. C. Coll., Lahore; Thomason Coll., Roorkie; Michigan Univ., Ann Arbor (U.S.A.). During the Great War, attached with Royal Engineers; Railway Engineer, 1925-32; Power Farming, 1932-37; founded *Preet Lari*, 1934; founded Preet Nagar, a colony on co-operative lines, 1937; travelled extensively in Europe, Russia, China, U.S.A., Canada, Iraq and Persia; Vice-Pres., All-India Peace Council. *Publications*: *Shabnam*; *Adjusted & Balanced Life*; *Unmarried Mother*; *The Strange & Alone* etc. etc. *Recreations*: Cricket, Badminton, Gardening. *Club*: Cosmopolitan Club. *Address*: Editor, *Preet Lari*, Preet Nagar, Dist. Amritsar.

SINGH, Gurmukh Nihal, M.Sc. (Econ.) (Lond.), Barrister-at-Law, Governor of Rajasthan, since Nov. 1, 1956. *b.* March 14, 1895; *Educ.*: Rawalpindi and London. Graduated from the Univ. of London with honours in Public Administration, B.Sc. (Economics) (Hons.) (London), 1917; took M.Sc. (Economics) (London) by research, Dec. 1918; called to the bar, June 1919. Appointed Prof. of Economics and Political Science, Banaras Hindu Univ.; later became the Ran Varma Prof. of Political Science; was Dean,



Faculty of Arts for some years; Principal,

H. L. College of Commerce, Ahmedabad, 1939-43; Principal, Ramjas Coll., Delhi, 1943-50; was with the S.R. Coll. of Commerce, Delhi, 1950-May 7, 1952, when he was elected Speaker, Delhi State Leg. Assembly; unanimously elected Leader, Congress Vidhan Sabha Party, Delhi State, Feb. 1955; Chief Minister, Delhi State, Feb. 13, 1955-Oct. 31, 1956; was member, almost all Univ. Bodies at the B.H.U. and also of some of the Univ. Bodies at Allahabad, Lucknow and Bombay; has been very intimately associated with the Univ. of Delhi since Oct. 1948; Member, Univ. Court, Exec. Council, Academic Council, Finance Ctees. and several Boards of Studies of the Univ. of Delhi; organised the First Indian Political Science Conference at Banaras, 1938; was the first Secy. and Treasurer of the Assoc. (1939-42); its Pres., 1942; *Publications*: *Indian States and British India: Their Future Relations*, 1928; *Landmarks in Indian Constitutional and National Development*; *The Changing Concept of Citizenship* 1958; has written other books, pamphlets and numerous articles in journals and newspapers. *Address*: Raj Bhavan, Jaipur.

SINGH, Air Vice-Marshal Harjinder, M.Ac.S.T., M.B.E. (1942). Air Officer Commanding, Maintenance Command, I.A.F., since 1955. *b.* Feb. 4, 1909; *Educ.*: MacLagan Engineering Coll., Lahore. Joined the I.A.F., Jan. 23, 1932; later First Commissioned Technical Officer in the I.A.F., 1942; Chief Technical Officer, Air Force Station, Kohat, 1944, Peshawar, 1945, Ambala, 1946; D.S.T.S.O. Air Hqrs., 1947-48; Officer Commanding, Base Repair Depot, Kanpur, 1948-54; holds Commercial 'B' Licence (Civil Aviation) and A.B.C.D. & X Ground Engineers Licences; awarded Air Force 'Wings' at the age of 41; has flown 1400 hours on 14 different aeroplanes including Jet Fighters. *Publications*: *Men behind the Wings*, early history of I.A.F. (under preparation). *Recreations*: Sports. *Clubs*: Kanpur Club, Northern India Flying Club, Jullundur, Hind Provincial Flying Club, Kanpur (Pres., since 1950). *Address*: Air Command House, Kanpur.

SINGH, Major General Harikant, B.A. (Punjab), B.A. Hons. (Cantab); Director of Mechanical Engineering, Army Headquarters, since Jan. 1957. *b.* April 7, 1911; *Educ.*: Govt. Coll., Lahore; Royal Military Academy, Woolwich; Christ's Coll., Cambridge. Commissioned Feb. 2, 1933; attached to School of Military Engineering, Chatham for post-commission training; posted to Madras Engineers, 1936; served in Waziristan 1936-37; in M.E.S. Northern Command 1938-42; on field service in Assam, Burma 1943-44; graduated from Staff Coll., Quetta 1944; Administrative Commandant, Roorkie 1945; promoted Lt.-Col. and posted as Commander, Royal Engineers, U.P. Area, Lucknow 1946; Grade I Staff Officer with H.Q. British Commonwealth Occupation Forces in Japan, 1947; promoted Brigadier and posted as Chief Engineer, Southern Command, Poona, Dec. 1947; Chief Engineer, Western Command 1950-52; Commander of an Infantry Brigade 1952-54; Commandant, Coll. of Military Engineering 1955-56. *Clubs*: Delhi Gymkhana Club. *Address*: 4, Janpath, New Delhi.

SINGH, Sardar Hakam, LL.B., Dy. Speaker, Lok Sabha since 23rd March, 1956. *b.* Aug. 30, 1895, at Montgomery; *Educ.*: Khalsa Coll., Amritsar; Law Coll., Lahore; was a prominent member of the Shiromani Akali Dal; entered politics and actively participated in the Gurudwara Prabandhak Reform movement; arrested and imprisoned, 1924-26; worked for the prosperity of the Pantho organisation as member of Shiromani Gurudwara Prabandhak Ctee., 1926-41; Pres., Dist. Bar Assoc., 1943 and 1944; President, Shiromani Akali Dal, 1950; Judge, Kapurthala High Court, 1947; takes keen interest in work in Parliament, made valuable contribution on various subjects; Ex-member: Estimates Ctee. of the Parliament;

Rehabilitation Advisory Ctee.; was elected to the Indian Constituent Assembly, 1948; made the best use of this opportunity in the cause of his community; a member of the Congress; Founder, *Spokesman*, an English Weekly. *Publications*: *Sikh Case*; *The Problem of the Sikhs*. *Recreation*: Walking. *Address*: 21, Asoka Road, New Delhi.

SINGH, Jaipal, M.P. & Pres., All-India Adibasi Mahasabha, *b.* Jan. 3, 1903; *Educ.*: St. Paul's School, Ranchi; Grammar School, Darlington, St. Augustine's College, Canterbury, and St. John's College, Oxford. Full Blue at Oxford for Hockey; captained the Indian Olympic Team at the Olympiad in 1928; first Covenanted Indian Mercantile Assistant in the Royal Dutch-Shell Group, 1928-32; Commercial Master, Achimota College, Gold Coast, 1933-36; Headmaster and Omitating Vice-Principal, Rajkumar College, Raipur, 1936-37; Colonisation Minister and Revenue Commissioner, Bikaner State, 1937-39; Civilian Adviser, Services Selection Board, 1943-46; Pres., Delhi Flying Club; and Delhi Fishing Club; Editor, *Adibasi Saham*, 1941-42; President, Jharkhand Party; member, Press Commission, 1952-53; Vice-Pres., Delhi and Dist. Cricket Assoc., 1953; member, Estimates Ctee. of Parliament, 1952-54; Pres., Delhi Football Assoc.; member, Public Accounts Ctee. *Publications*: Articles on Games and Social Anthropology. *Address*: Ranchi, Chota Nagpur.

SINGH, Brigadier Kanwar Bag, Graduate (Indian Military Academy), M.B.E. (June 1946), Coal Mines Welfare Commissioner, Govt. of India. *b.* Jan. 27, 1912; *Educ.*: Noble's High School, Bikaner; Dungar Coll., Bikaner. Enlisted in Bikaner State Forces (May 1929); passed School of Artillery with distinction (1932); graduated from Indian Military Academy (1935); topped the list in Sandhurst Wing, Appointed Chief of Staff, Bikaner State Army with rank of Lt. Col. (1940); visited Iraq, Iran theatres of war (1942); appointed Chief of Staff, Rajasthan State Forces with rank of Brigadier (1949); Hon. A.D.C. to the President of India, 1951; served in Jammu and Kashmir, 1951-55, commanding operational garrison and later a brigade; retired from Indian Army, Jan. 27, 1957 and transferred to regular reserve. *Recreations*: Tennis; Football; awarded blues in Indian Military Academy; Open singles and doubles tennis champion, Bikaner, Jodhpur and Quetta Clubs. *Clubs*: Bikaner Sadul Club, Jodhpur Sardar Club, Jaipur Asoka Club, Dhanbad Club. *Address*: Coal Mines Welfare Commissioner, Dhanbad.

SINGH, Sardar Kapoor, B.A., LL.B., Chairman, Punjab (I) Legislative Council, since April 30, 1952. *b.* 1898; *Educ.*: Khalsa College, Amritsar. Practised Law, 1923-34 and 1938-40; suspended practice on account of disciplinary action by High Court for conviction during C. D. Movement; Sessions Judge, Chief Revenue Secretary and Dewan, Ajal Garh State, 1935-37; deputed by the State to the Princes & Prime Ministers' Conference in Bombay, Jhansi and Nowgong, to consider the Federal Part of the Govt. of India Act of 1935; resigned State service as he joined the Congress party in the Punjab Assembly; member, Dist. Board, Ludhiana, 1925-40; Vice-Pres. of the Board for 5 years; member, Municipal Ctee., Ludhiana, 1927-37 and Vice-Pres. for a term; M.L.A., Punjab, 1937-52; Secy., Congress Assembly Party, 1942-45; Chief Whip, Congress Assembly Party, 1946-47; Dy. Speaker, Punjab Leg. Assembly, 1946-47; Speaker, Punjab (I) Leg. Assembly, 1947-51. *Address*: Chandigarh.

SINGH, Karnail, M.I.C.E., M.I.E. (India), M. Am. S.C.E., Member, Engineering, Railway Board, since Jan. 1957. *b.* July 25, 1904; *Educ.*: Khalsa Coll., Amritsar; Thomason Coll. of Civil Engineering, Roorkie. Entered Indian Railways Service of Engineers on the old North Western Railway, 1927 and was mainly employed on railway constructions,

surveys, special works for water supply, earthquake re-construction, projects and designs; Deputy General Manager on post-war re-construction after partition; Engineer-in-Chief on Assam Rail Link Project; General Manager, Northern Railway, 1952; General Manager, Chittaranjan Locomotive Works, 1954 — Jan. 1957. *Publications*: 'A Complete Story of Assam Rail Link Project'; *Waterways for Bridges, etc.* *Recreations*: Golf low handicap; Hockey. *Clubs*: Delhi Gymkhana, Calcutta Club, Royal Calcutta Golf Club, etc., etc. *Address*: New Delhi.

SINGH, Kewal, B.A. (Hons.), LL.B., I.C.S., Padma Shri (1955), Indian Ambassador to Sweden and Denmark and Minister to Finland. b. June 1, 1915; *Educ.*: Forman Christian Coll., Lahore; Law Coll., Lahore; joined I.C.S., 1938; Balliol Coll., Oxford, 1938-39. Asstt. Commissioner, Ferozepore (1940); S.D.O., Dalhousie (1940-42); Colonisation Officer, Nilai Bar (1946-48); Dy. Commissioner, Shahpur (1946-47); Simla (1947-48); First Secy.: Indian Embassy, Turkey (1948-49); Indian Military Mission, Berlin (1949-51); 'Charge d'Affaires, Legation of India, Lisbon (1951-53); Consul-General of India, Pondicherry 1953-54; Chief Commissioner, the State of Pondicherry, Karaikal, Mahe and Yanam, 1954-57; Ambassador to Cambodia 1957-58. *Recreations*: Tennis, Riding. *Address*: C/o External Affairs Ministry, New Delhi.

SINGH, Kripal, M.Sc. (Banaras), General Manager, Eastern Railway, since March 1958. b. Jan. 22, 1907; *Educ.*: High School, Lakhaoti; Banaras Hindu Univ.; had a brilliant academic career both at school and at the Univ.; won the Rai Bahadur Mata Prasad Gold Medal for topping the list in B.A. & B.Sc. exams, 1927. Asstt. Traffic Officer, old N. W. Railway, 1930-41; promoted as a Divisional Transportation Officer, 1941; worked as an Operating Officer in all the divisions of the Rly.; Dy. Chief Operating Suptd., 1948-50; Div. Suptd., Ferozepore, 1950-52 and at Allahabad, 1952-54; Divl. Suptd., Aansol, 1954; visited Japan as an Indian Railways delegate to the Rly. Sub-Committee of the E.C.A.F.E., 1954; Chief Operating Suptd., Eastern Rly., 1955; General Manager, Eastern Rly., March 1958; scholar of Hindi & Urdu and knows Bengali, Marathi and Gurumukhi; lover of poetry, music and the fine arts; *Special interests*: Comparative religion, psychology, astronomy, economics and the social sciences. *Recreation*: Tennis. *Clubs*: Calcutta Club and Rotary Club of Calcutta. *Address*: 17, Netaji Subhas Road, Calcutta 1. (*Office*): 8/3, Burdwan Road, Allipore, Calcutta (Residence).

SINGH, L. R. S., I.C.S., Chief Commissioner, Pondicherry State, since June 1958. b. March 1907, at Baikuntpur, Korea State, M.P.; *Educ.*: Raj Kumar Coll., Raipur, Allahabad Univ. and Oxford Univ. Entered the I.C.S., Dec. 1930; was allotted to Madhya Pradesh, served in various posts, namely, Asstt. Commissioner, Dy. Commissioner, Settlement Commissioner, Excise Commissioner and Secy. to the Govt. of Madhya Pradesh; deputed to Chaddapur State in central India as Settlement Officer for two years; services were lent to the Central Govt. July 1948; Trade Commissioner in Karachi, Sept. 1948-Aug. 1950; Minister (Commercial), Indian High Commission, London, Oct. 1950-Aug. 1954; Consul-General for India, New York, Jan. 1955-April 1956; Indian Ambassador in Brazil, April 1956-June 1958. *Address*: Pondicherry.



SINGH, Mahan, M.A., M.O.L. (1933), Punjabi poet; Managing Director, Hind Publishers Ltd., Jullundur; Editor: *The Panj Darya*, Punjabi Monthly. b. Oct. 20, 1908; *Educ.*:

Oriental Coll., Lahore, Passed M.A. (Persian), 1933. Joined Khalsa Coll., Amritsar, as Prof. of Persian; left Khalsa Coll. and started the *Panj Darya* at Lahore, 1939; in 1940 also joined Sikh National Coll., Lahore, as Head of Persian and Punjabi Department, 1940-44; floated Hind Publishers Ltd., 1946; moved to Amritsar, 1947 and then to Jullundur, 1954; member: Advisory Board for Punjabi Sahitya Akadami; General Council Sahitya Akademi, Delhi. *Publications*: *Sewa Padar*, 1938; *Karandra*, 1939; *Adhwa*, 1939; *Aria Da Chanan*, 1944; *Kach Sach*, 1950; *Awazan*, 1954; *Niki Niki Waahan* (short story), 1942. *Recreations*: Chess; long walks. *Address*: Editor, *The Panj Darya*, Circular Road, Jullundur.

SINGH, Dr. Nagendra, M.A., LL.M., (Cantab.), M.A., H. Litt., LL.B. (Dublin), D. Litt. (Bihar), D.Phil. (Cal.), Bar-at-Law, I.C.C. Joint Secy. to the Govt. of India since April 1957 and Director General of Shipping, Ministry of Transport & Communications, Deptt. of Transport, New Delhi, since Feb. 1956. Joined Indian Civil Service, 1938; held charge of five districts in Madhya Pradesh, 1942-46; Deputy Secy., Ministry of Defence, 1946-57; Chief Minister of Bundi State, 1947; became member, Constituent Assembly; was a member, Minorities Ctee. of the Constituent Assembly; Regional Commissioner of Sambalpur for Eastern States Agency (Ministry of States), 1947-48; Deputy Secy., Ministry of Information & Broadcasting, 1948-50; officiated as Director-General, All India Radio and also as Joint Secy., Ministry of Information and Broadcasting, 1949; attended a course of training at the Imperial Defence Coll., 1950-51; Deputy Secy., Ministry of Defence, 1951-53; Joint Secy., Ministry of Defence, 1953-56; appointed Special Director, Eastern Shipping Corporation Ltd., Feb. 1956; Director, Hindustan Shipyard Ltd., April 1956; Director, State Trading Corp. of India Ltd., May 1956; Chairman, Western Shipping Corporation Ltd., June 1956; J.P. (1957). *Publications*: *Termination of Membership of International Organisation*; *Nuclear Weapons and International Law*. *Clubs*: Delhi Gymkhana (Club Ltd.); Athenaeum (Club, London); National Sports (Club of India (Life Member)). *Address*: *Office*: Joint Secretary to the Govt. of India and Director General of Shipping, Ministry of Transport & Communications, Dept. of Transport, New Delhi. *Residence*: 30, Tughlak Crescent, New Delhi.

SINGH, Sardar Nawab, B.A., I.C.S., Adviser, Programme Adm., Planning Commission. b. April 7, 1907; *Educ.*: Morris Coll., Nagpur; graduated, 1927; passed I.C.S., at London, 1928. Posted to the Punjab in 1929, where he served as Asstt. Commissioner, Dy. Commissioner, Dist. & Sessions Judge (Delhi, 1939-43) and Local Remembrancer & Legislative Secy.; Home Secy., East Punjab, Aug. 1947 to July 1948; Commissioner, Ambala Division, Punjab, July 1948-May 1951; Addl. Chief Secy., Punjab, 1951-52; Chief Secretary, Punjab, 1952-56. *Recreations*: Tennis, Bridge and Literature. *Clubs*: Delhi Gymkhana. *Address*: New Delhi.

SINGH, Air Vice-Marshal R. H. D., Director of Research & Development (Gen.), Ministry of Defence, New Delhi since May 1958. b. Nov. 28, 1914; *Educ.*: Alitchson Coll., Lahore and Royal Indian Military Coll., Dehra Dun; obtained Pilot's Certificate at Delhi Flying Club. Commissioned in I.A.F., after completing course at R.A.F. College, Cranwell, 1935; during World War II engaged in Indian coastal defence duties; worked on resettlement of R.I.A.F. released personnel; sat on Pay Commission for Armed Forces as R.I.A.F. representative; Director of Organisation & Establishment, Air H.Q., 1947; O.C., Advanced Flying School, R.I.A.F., 1948; A.O.C., Training Command, 1949-52; Air Officer i/o Tech. & Equip. Services, 1952-55; Chairman, Aeronautical Engineering Research Ctee., 1952-55; Member of Defence Production Board, 1955; Air Officer i/o Personal & Organisation, Air H. Q. 1955-58.

Clubs: Delhi Gymkhana; Defence Services, New Delhi. *Address*: Air Headquarters, New Delhi.

SINGH, Colonel Raja Surendra, Adviser, Ministry of Food and Agriculture, Govt. of India, with the status of Addl. Secy., since Feb. 25, 1958, and former Ruler of Nalagarh State in the Punjab. b. 1920; Educ.: Alitchson Coll., Lahore; had administrative training with the Punjab Government and held appointments in the Police, Revenue, Judicial, Public Health and Forest Deptts. Joined the Indian Army and served with the Dogra Regt.; appointed his father's Dewan, 1946; succeeded to the Gaddi on his father's death, 1946; retired from public life on the formation of PEP&U; was elected in a bye-election to the PEP&U; Legislature, which was subsequently dissolved; again elected M.L.A. in the General Elections on Congress ticket with an overwhelming majority; is the first Prince in India to be appointed as a popular Minister; has been mainly responsible for bringing PEP&U;S Five-Year Plan up-to-date in line with the progress of the other States; represented India in the Eighth Conference of the F.A.O. of the United Nations in Rome, 1955; elected on Congress ticket in the second General Elections from Patiala Constituency with overwhelming majority; nominated on the Food Grains Enquiry Ctee., 1958. *Address*: 10B, King George's Avenue, New Delhi.

SINGH, Ram Subhas, Shastri (Banaras), M.A. (Missouri), Ph.D. in Journalism (Missouri), M.P., Ex-Secretary, Congress Parliamentary Party. b. July 7, 1917; Educ.: Dhamar Board Upper Primary School; Bhuvanshwar Middle English School, Arrah; Arrah Town High English School; Sri Kashi Vidyapith, Banaras; Missouri Univ., Columbia, Missouri, U.S.A. Joined the Indian National Congress, 1935 and since then a Congress worker; arrested and imprisoned for 6 months for taking part in Civil Disobedience Movement, 1941; again sentenced to three years' R.T. and a fine of Rs. 500 in Aug. 1943 movement; elected Member of Parliament after returning from U.S.A. in Jan. 1950; elected to the Lok Sabha from Shahabad South Constituency, Bihar in the general elections, 1952; re-elected to Lok Sabha from Banaras Constituency, 1957. *Publications*: Articles in some American and Indian papers. *Recreations*: Gardening, Horse-riding. *Address*: Khajuria, P.O. Dhamar, Dt. Arrah (Bihar); New Delhi.

SINGH, Rao Surendar, B.A. (Delhi), Revenue Minister, Punjab, since Aug. 18, 1958. b. Jan. 11, 1921; *Educ.*: at home and then in St. Stephen's Cambridge Mission Coll., Delhi; passed B.A., 1942. Joined the Indian Army as a Commissioned Officer, 1942; served in Arakan and Burma in Japanese Campaign during the 1939-45 War; released from Army to look after the family estate, 1947; took to farming and politics; elected to Punjab Leg., 1954; appointed Deputy Minister, 1956; Public Works Minister, Punjab, April 1957 to Aug. 1958; travelled widely in U.K., France, Belgium, Germany, Italy, Switzerland, Egypt, etc. *Recreations*: Shooting, riding, travelling. *Address*: Secretariat, Chandigarh; Rampura, Rewari, Dt. Gurgaon.

SINGH, Sardar Swarn, B.Sc. (Hons.), M.Sc. (Physics) (Lahore), LL.B., Minister for Steel, Mines and Fuel, Govt. of India, since April 1957. b. Aug. 10, 1907; *Educ.*: Govt. Coll., Lahore. Returned to the Punjab Leg. Assembly, 1946; Minister for Development, Food and Civil Supplies, Punjab, appointed a member, Security Council set up by the then Governor of the Punjab (Mr. Jenkins) to advise Govt. on the day-to-day problems relating to law and order, March 1947; was member, Partition Ctee. to divide the assets of the Punjab; Home, General Administration,



Revenue, Irrigation and Electricity Minister, Punjab, 1947; Minister of Capital Project and Electricity, Punjab, April-May, 1952; resigned Ministership in the Punjab; Minister for Works, Housing and Supply, Govt. of India, May 1952-March 1957; led the Indian delegation to the sessions of the Economic and Social Council of the U.N., at Geneva, 1954 and 1955; elected to the Lok Sabha in the General Elections, Feb.-March 1957; re-included in the Central Cabinet, April 1957; led a delegation to U.S.S.R., 1959. *Recreations*: Long Walks and driving. *Club*: Patron, Chelmsford Club, New Delhi. *Address*: 7, Hastings Road, New Delhi.

SINGH, Master Tara, Akali Sikh Leader; Ex-Pres., Shiromani Gurdwara. b. June 24, 1885, at Harial, Rawalpindi Dist.; *Educ.*: Rawalpindi; graduated from Khalsa Coll., Amritsar, 1907. Embraced Sikhism at the age of 17; founded a Sikh School at Lyallpur and became its Headmaster, 1908; fought in the Gurdwara Reform Movement for freeing the Sikh holy places from the control of the traditional priesthood; became Secy., Shiromani Gurdwara Prabandhak Cttee.; jailed thrice as a result of clash with the authorities; opposed the Nehru Report of 1928 on Indian reforms, because it did not concede 80 per cent representation for Sikhs in the Punjab Legislature; went into voluntary retirement at the foot of the Himalayas for some time; returned to politics; became Pres., Akali Dal and Gurdwara Cttee.; took active part in the C. D. Movement, 1930; arrested at Lahore while leading a jatha of 100 Sikhs to the Frontier during the Civil Disobedience campaign of 1930 onwards; elected for the first time Pres., Shiromani Gurdwara Prabandhak Cttee., while in jail; rejected Cripps proposals on the ground that they provided a loop-hole for the partition of India; encouraged the Sikhs to join the British army during World War II to prevent Muslims gaining monopoly in the army; resigned from various positions in the Congress; organised the Panthic Akali Party in the elections to the provincial legislatures; re-elected Pres., Akali Dal, July 27, 1954; again elected Pres., Shiromani Gurdwara Prabandhak Committee, Feb. 7, 1955; arrested on the 1st day of the Akali Dal's agitation against the ban on shouting slogans in support of a Punjabi-speaking State; his aim re-adjustment of boundaries of the Punjab with the idea of creating a Punjabi-speaking State within the Indian Republic. *Address*: Amritsar.

SINGH, Tribhuvan Narayan, Member, Planning Commission, since Sept. 1, 1954. b. 1905 at Banaras, has had a varied educational, journalistic and political experience; was teacher of Economics, Kashi Vidyapith, Banaras; has worked with "Indian Daily Telegraph", Lucknow, "Hindustan Times", New Delhi and "National Herald", Lucknow, in various journalistic capacities; is General Manager, "National Herald" and Managing Partner, Janata Press; was member, Press Commission; was Secy., Textile Labour Mills Union, Delhi; suffered imprisonment for participating in the Congress movement during 1930-31, and 1932 and 1942; member, Provisional Parliament, 1950-52; Secy., Congress Party in Parliament, 1951; elected member, Lok Sabha, from Chandauli constituency, Uttar Pradesh, 1952; was Chairman, Public Accounts Cttee. *Address*: Planning Commission, New Delhi.

SINGH, Trilokh, Member, National Executive, P.S.P. b. March 10, 1908; *Educ.*: Church Mission High School and Jubilee Coll., Lucknow. Joined Youth League and Indian National Congress, 1928; elected Chairman, District Board, Lucknow, 1939; member, U.P. Leg. Assembly, 1946 and 1957; formed Jan Congress, 1950; joined K.M.P.P., 1951; Leader of the Opposition, U.P., 1950-52 and since 1957; Gen. Secy., P.S.P., 1954-58; M.L.A., U.P. *Address*: Ghazal Mandi, Lucknow, U.P.

SINGHAL, Rajya Priya, Framed Prakash, M.Sc., Business man; Chairman and Managing Agent, Mewar Oil & General Mills Ltd., Udaipur; Proprietor, Singhal Motors, Udaipur. b.



Feb. 13, 1920, in U.P.; *Educ.*: Had a brilliant academic career, having topped in M.Sc., Allahabad Univ. Univ. Aquatics Captain, 1939-42; was conferred title of Rajya Priya by Udaipur Darbar, 1948; a prominent business man of Rajasthan; widely travelled; owns large agricultural farms and mines; is a Manufacturers' Representative and owns large transport business; Pres., Maharana Bhupal Memorial Fund Cttee., Udaipur; Udaipur Badminton Assoc.; Vice-Pres.: Rajasthan Chamber of Commerce, Jaipur; Udaipur Chamber of Commerce, Udaipur; Hon. Secy.: Field Club, since October 1950; Rajasthan Oil Mills Assoc.; Rotary Club, Udaipur; member: Executive Cttee., Vidya Bhawan Society, Udaipur; Rajasthan Photographic Society, Jaipur; Rajasthan Badminton Assoc., Jaipur; Rajasthan Industrial Advisory Cttee.; Rajasthan State Tourist Advisory Cttee.; Rajasthan Mineral Advisory Cttee.; Small-Scale Industry and Handicraft Board; Rajasthan Planning Board; Kandla Port Advisory Cttee. *Clubs*: National Sports Club of India; Field Club, Udaipur. *Address*: Lake House, Udaipur (Rajasthan).

SINGHANIA, Kallashpat, Banker and Mill-owner. b. 1908; *Educ.*: P. P. N. High School, Kanpur; Apprentice, J. K. Cotton Spg. & Wvg. Mills Co. Ltd.; rounded off training by travel abroad in Europe and America, 1938-39; again visited Europe and the U.K., 1947. Resident Director, J. K. Organisation, Western India Zone, Bombay; joined J. K. Cotton Spg. & Wvg. Mills Co. Ltd. as Director; became later its Director-in-Charge; Director: J. K. Cotton Spinning & Weaving Mills Co. Private Ltd., Kanpur; J. K. Jute Mills Co. Ltd., Kanpur; J. K. Iron & Steel Co. Ltd., Kanpur; Chairman, The Raymond Woollen Mills Ltd., Bombay; J. K. Chemicals Ltd., Bombay; J. K. Investors (Bombay) Private Ltd., Bombay; Director-in-Charge and Chairman, The New Kaiser-I-Hind Spinning & Weaving Co. Ltd., Bombay; Director: J. K. Properties Ltd., Calcutta; J. K. Private Ltd., Calcutta; J. K. Industries Private Ltd., Calcutta; J. K. (Agents) Private Ltd., Bhopal; Bombay Gas Co. Ltd.; Elphinstone Spg. & Wvg. Mills Co. Ltd.; Member: St. John Ambulance Corps, Ganga Nath Jha Research Institute, Indian Council of World Affairs, Bhatkhande School of Indian Music, Photographic Society of India, Indian Overseas Central Assoc., All-India Federation of Educational Assocs., Faculty of Commerce, Lucknow Univ., Millowners' Assoc., Bombay, Employers' Assoc. of Northern India, Kanpur, Federation of Indian Chambers of Commerce & Industry, All-India Organisation of Industrial Employers, Merchants' Chamber, U.P., Indian Merchants' Chamber, Bombay, Jaipur Chamber of Commerce, All-India Marwari Sammelan and member of more than 10 Masonic Lodges both S.O. & E.C. *Publications*: Writes occasionally on economic and industrial topics. *Hobbies*: Gardening and collection of rare art-treasures, books and curios. *Recreations*: Tennis, Swimming and Bridge. *Clubs*: Kanpur Rotary Club (Founder Pres.); Cricket Club of India Ltd., Bombay; 8-30 Club, Bombay; Ganges Club Ltd., Kanpur; Kanpur Club, Kanpur; Roshanara Club and Chelmsford Club, New Delhi; U.P. Flying Club, Kanpur; Royal Western India Turf Club, Bombay; Royal Turf Club, Calcutta; National Sports Club of India. *Address*: J. K. House, 59, Warden Road, Bombay.

SINGHANIA, Lakshmpat, Industrialist and Business man; President, All India Organization of Industrial Employers; b. 1909. Embarked on business career at the early age of 20 and took over the administration of a group

of industrial and financial undertakings of standing and repute; past Pres.: Federation of Indian Chambers of Commerce & Industry; Indian National Cttee. of the International Chamber of Commerce; Merchants' Chamber of U.P., Kanpur; Bharat Chamber of Commerce, Calcutta; member: Coal Control Board; Bharat Chamber of Commerce; Indian Central Jute Cttee.; Joint Consultative Board of Industry and Labour; Indian Institute of Social Welfare and Business Management; All India Board of Technical Studies in Commerce and Business Administration; Central Advisory Council of Industries; National Productivity Council and several others; also one of the few Indian underwriting members of the Lloyd's Society of London; travelled extensively round the world several times; takes an active interest in public affairs, social welfare, and charitable institutions. *Clubs*: Calcutta Club, Calcutta South Club, Royal Calcutta Turf Club, Bengal Rowing Club, Rajasthan Club, etc. *Address*: Office: 7, Council House Street, Calcutta; *Residence*: J. K. House, 12, Allpore Road, Calcutta.

SINGHANIA, (Sir) Padampat, Industrialist and business man. b. 1905. Is the Governing Director, J. K. Organisation comprising Industrial and Commercial units, having interest in Cotton Textiles, Rayon, Jute Textiles, Woollen Textiles, Steel and Engineering, Aluminium, Mining, Paper Board, Plastic, Oil and Soap, Sugar, Chemicals, Manganese, Banking, Insurance and in philanthropic and charitable institutions; founded Merchants' Chamber, U.P., 1932; Pres.: Federation of Indian Chambers of Commerce and Industry (1935); Oil Technologists Assoc. of India (1957-58); was for some time member of the U.P. Legislature; is one of the signatories of the Indian Constitution, having been a member of the Constituent Assembly; was member of several Textile Enquiry Cttees., Govt. of India, 1958; a philanthropist and promoter of rural education; helped in establishing J. K. Institute of Applied Physics, Allahabad and J. K. Institute of Sociology and Human Relations, Lucknow; Chairman, Hindustan Commercial Bank Ltd., a premier Banking Institution in Uttar Pradesh and member of a number of Govt. Bodies like Industrial Finance Corporation (Advisory Cttee. on Textiles and Chemicals), Indian Standards Institution, State Planning Board, U.P. *Publications*: Writes occasionally on economic and industrial topics. *Address*: Office: Kanla Tower, Kanpur; *Residence*: Ganga Kutir, Kanpur.



SINGHLI, Yuvraj Karan
(See Who's Who under Jammu & Kashmir)

SINHA, Mr. Justice Bhuvaneshwar Prasad, B.A. (Hons.), M.A., B.L., Judge, Supreme Court, since Dec. 1954. b. February 1, 1899; *Educ.*: Arrah Zila School, Patna College and Patna Law College; topped the list of successful candidates at the B.A. (Hons.) and M.A. Exams. of the Patna Univ. in 1919 and 1921 respectively. Shrimati Radhika Sinha Gold Medallist for standing first in History. Vakil, Patna High Court, 1922-27; Advocate, 1927-35; Lecturer, Govt. Law Coll., Patna, 1928-35; was member, Senate, of the Faculty of Law and of the Board of Examiners in Law, Patna Univ.; member, Court of the Benares Hindu Univ.; Govt. Pleader, 1935-39; Assistant Govt. Advocate, 1940-42; Judge, Patna High Court, 1943-51; Chief Justice, Nagpur High Court, 1951-54. *Recreation*: Hiking. *Address*: Supreme Court, Delhi.

SINHA, Bimal Chandra, B.A. (Hons.) (Cal. Univ.), M.A. (Econ.) (Cal. Univ.), Minister, Revenue, West Bengal, since April 26, 1957. b. Dec. 1, 1918; *Educ.*: Calcutta; had a brilliant academic career (1st. in Hons., 1st.

in M.A.), University Gold Medallist, Cobden Medallist, etc. After finishing his studies joined Congress movement; has written extensively about economic problems, education reform, art, literature; Minister for Works, Buildings and Revenue, West Bengal, 1948-57. *Publications:* (In Bengali) *Problems of Education; Society and Literature; Trends of World History and India; Society and Civilisation*, etc. *Recreations:* Photography. *Address:* 227/2, Lower Circular Road, Calcutta 20.

SINHA, Mr. Justice Chandreshwar Prasad, B.A. Hons. (Eng.), M.A. (Eng.), B.L., (Chief Justice, Assam High Court, since Feb. 2, 1959. b. Feb. 1, 1901; *Educ.*: Bihar H.E. School, Biharsharif; Patna Coll. and Law Coll., Patna. Enrolled, Patna High Court Bar, 1925; officiated as Asstt. Govt. Advocate, 1939-40; member, Faculty of Law, Patna Univ.; Secy.-General, Patna High Court Advocates' Assoc., 1947-50; Judge, Patna High Court, June 1950-Feb. 1959. Member, Governing Body of several Educational Institutions. *Address:* Gauhati, Assam.

SINHA, Mr. Justice Deep Narayan, B.A., Barrister-at-Law (Lincoln's Inn), Judge, Calcutta High Court. b. Jan. 14, 1908; *Educ.*: Hastings House; Santiniketan; Presidency Coll.; T. N. J. Coll., Bhagalpur; Lincoln's Inn, London. Practised as Barrister on the Original Side, Calcutta High Court. *Recreations:* Painting, Photography, Shooting. *Club:* Calcutta Club, Calcutta. *Address:* 6, Queen's Park, Dallygunj, Calcutta.

SINHA, Gajendra Prasad, B.A., B.L., Parliamentary Secretary to the Minister of Steel, Mines & Fuel, since April 1958; b. March 16, 1919; *Educ.*: Miller H. School, Patna Coll. and Law Coll., Patna. As a student suffered imprisonment in connection with Quit India movement of 1942; joined the Bar, 1946; Vice-Chairman, Dist. Board (Palamau Dist., Bihar), 1948-53; member: Bihar Pradesh Congress Ctee., since 1949; Lok Sabha, 1952-57; Indian Parliamentary Delegation to People's Republic of China, Burma and Thailand, 1950-57; re-elected to the Lok Sabha from Palamau, Bihar, 1957. *Recreations:* Reading & Travelling. *Address:* 117, North Avenue, New Delhi.

SINHA, Ganga Sharan, M.P., Chairman, Praja Socialist Party. b. 1905. Joined non-cooperation movement, 1921; since then has been working in political field; was in the Indian National Congress till the beginning of 1948; had been member, A.I.C.C. and working Ctee., Bihar P.C.C.; Vice-Pres., Sharirik Shikshan Mandal; left Congress, 1948; member, Bihar Socialist Party, Congress Socialist Party, Socialist Party and Praja Socialist Party; had been member, Working Ctee. and Standing Ctee., All-India and Bihar Sahitya Sammelans; Vice-Pres., and Managing Trustee, Balika Vidyapeeth; Secy., Bihar Congress Socialist Party and Bihar Socialist Party; Chairman, Central Parliamentary Board of Praja Socialist Party; Leader, Praja Socialist Party in Rajya Sabha. *Address:* Kharagpur P.O., Bihra, Dt. Patna.

SINHA, Rajkumar Raghunath, of Sitaman, M.A. (Cantab.), Bar-at-Law, I.F.S., Consul General of India for the western States of the United States, San Francisco. b. Dec. 6, 1912; *Educ.*: St. John's Coll., Agra; Magdalene Coll., Cambridge; Lincoln's Inn, London. Research Scholar, Cambridge Univ.; Dewan and Pres., Council of Administration, Sitaman State; Minister, Alwar State; joined the Indian Foreign Service, 1948; was posted as First Secy., Indian High Commission, London and then in the Indian Embassy, Addis Ababa, Ethiopia; Indian Govt. Trade Commissioner in Karachi, 1952; Consul-General of India in Egypt. *Recreations:* Tennis and Big Game shooting. *Clubs:* Delhi Gymkhana, Delhi; Commonwealth Club. *Address:* Consulate General of India, 417, Montgomery Street, San Francisco, California.

SINHA, Satya Narain, Minister for Parliamentary Affairs, Govt. of India, since May 18, 1952. b. 1900, at Darbhanga (Bihar); *Educ.*: Patna. Participated in the Non-Co-operation movement and was imprisoned, 1920; member: Bihar Legislature, 1926-30; Indian Constituent Assembly; was Chief Whip, Congress Party in the Central Assembly and Constituent Assembly; Minister of State for Parliamentary Affairs, Govt. of India, 1949-52; returned to the Lok Sabha from Samastipur East Constituency, Bihar in the general elections. *Address:* 19, Akbar Road, New Delhi.

SINHA, Sri Krishna, M.A., B.J. (Calcutta), Chief Minister, Bihar, since 1946. b. Oct. 21, 1887, in an ancient Zamindar family of Bihar; *Educ.*: Monghyr Zila School; Patna Coll., Patna; Calcutta Univ.



Joined the Bar, 1916; gave up practice in response to Gandhiji's call, 1920; since then a leading member and an active worker of the Indian National Congress; served jail sentence of over eight years in all as a result of his political activities; Leader of the Swaraj Party in the Bihar Legislative Council, 1927; Chairman, Monghyr District Board, 1930; Pres., B.P.C.C., 1935 and 1953; M.L.A. Centre, 1935-36; first Prime Minister of Bihar, 1937-39; was a member of India's Constituent Assembly; re-elected M.L.A. in 1946, 1952 and 1957 from the South Sadar General Rural, Kharagpur and Sheikhpura Constituencies respectively of the Bihar Legislative Assembly; re-elected Leader, Congress Party in all these three terms. *Recreation:* Books. *Address:* 1, King George Avenue, Patna 1, Bihar.

SINHA, Smt. Tarakeshwari, M.A., Deputy Minister for Economic Affairs, Government of India, since April 1958. b. Dec. 2, 1926; *Educ.*: Arya Kanya Mahavidyalay, Baroda; Calcutta Univ. Bankipur Girls' Coll.; Patna Women's Coll. and Patna Univ. Vice-President, Bihar Provincial Students' Congress, 1945-47; member: Patna Dist. Gandhi National Memorial Fund Collection Ctee.; Bihar P.C.C. Women's Section; Patna Dist. Sharirik Shikshan Sammelan (Health Education Conference); Patna Dist. Board; Saran Dist. Congress Ctee.; Cultural Section, Bihar Women's Federation, 1950; Working Ctee., Provisional Health Education Conference; Pres., Patna Dist. Board Employees' Assoc.; Secretary, Bihar Women's Food Conference, 1951-52; elected to the Lok Sabha, Jan. 1952 and again in March 1957; served as member, Public Accounts Ctee. and various other Parliamentary Ctees.; member, Indian delegation to U.N., 1957. *Recreations:* Cinema, Music and Reading. *Address:* B. Block, Patna 1; 4, Jantar Mantar Road, New Delhi.

SINHA, Mr. Justice Ujjal Narain, B.A., Barrister-at-Law, Judge, High Court, Patna, since 1957. b. Sept. 20, 1910. *Educ.*: C. M. S. High School, Bhagalpur; St. Pauls Coll., Calcutta; Lincoln's Inn, London. Enrolled in Patna High Court, 1938; practised mostly on the Civil side. *Recreations:* Painting. *Clubs:* Bankipore Club, Patna. *Address:* Buddha Marg, Patna-1.

SIPAHIMALANI, Kumari Jothi, T., M.L.C., Deputy Chairman, Bombay Legislative Council. b. Feb. 10, 1906, at Hyderabad, Sind; *Educ.*: D. J. Sind Coll., Karachi. Started active social and political life at the early age of 20; has been actively associated with Congress for over 30 years; took active part in Khadi movement; courted imprisonment thrice and remained in jail for over 3 years; member, Karachi Municipal Corporation upto 1936; M.L.A., Sind, 1937-48; was Deputy Speaker of Sind Leg. Assembly all these years; migrated to India on account of partition, 1948; Chairman, Kasturba Memorial

Fund (Sind Branch); member, National Planning Ctee. (Women's Role in Reconstruction Section); was Pres., All India Women's Conference (Sind); was connected with various social and charitable institutions in Karachi; was elected unanimously as Deputy Chairman, Bombay Leg. Council, 1955; Pres., Navjivan Co-op. Housing Society Ltd.; member: Seva Sadan; Women's Rehabilitation Depot; A.I.C.C.; Advisory Ctee. of Women's Section, A.I.C.C.; Vice-Pres.: Congress Mahila Samiti, Bombay; Cosmic Education Society; Khudabadi Aml Panchyat. *Address:* Al-abad, Churchgate, Bombay 1.

SIROHI, His Highness, Maharajahdhiraaj Maharao Shri Abhaisinghji Sahib Bahadur, Ruler of the former State of. Head of the Deora clan of Chouhan Rajputs. b. Sept. 27, 1915. Succeeded His Highness Maharajahdhiraaj Maharao Shri Sir Sarup Ram Singhji Sahib Bahadur, G.C.I.E., K.C.S.I. Recognised by the President of the Republic of India on the 7th October 1950. Held Apparent, Maharaj Kumar Shri Raghubhairsinghji Sahib Bahadur, b. Jan. 27, 1943. Entitled to a permanent salute of 15 guns; Patron, Sarup Club, Sirohi; Pres., Rajputana Club, Abu. *Address:* The Palace, Sirohi.



SITARAMAYYA, Dr. B. Pattabhi, B.A., M.B.C.M., Ex-Governor of Madhya Pradesh. b. November 24, 1880. Started medical practice at Masulipatnam, 1906; gave it up, 1916; was a member of the A.I.C.C., 1916-1952; started the *Janmabhumi*, an English Weekly, 1919; jailed several times in connection with Congress movement; member, Working Ctee. of the A.I.C.C., 1929-30, 1931 and again between 1934 and 1936, 1938 and 1939 and 1940-46 and in 1948; takes interest in the Co-operative Movement; elected member, Constituent Assembly, 1946; Pres., All-India States Peoples' Conference in 1936 at Karachi—Navsari Convention, 1938-39; working Pres., A.I.S.P.C. in 1946-47-48; elected Pres., Indian National Congress, Jaipur Session, 1948-50; Governor of Madhya Pradesh, July 1952-June 1957. *Publications:* *Hygiene* (Telugu); *National Education*, 1912; *Indian Nationalism*, 1913; *Redistribution of Indian Provinces on a Language Basis*, 1916; *The Indian National Congress* (Jubilee Commemoration Volume, 1935); *Economic Conquest of India: Constitutions of the World: Gandhi and Gandhism*, Vols. I and II; *Gandhism and Socialism: Hindu Home Re-discovered* in 1936-37; *Why Vote Congress: Sixty Years of Congress; Fundamentals of India's Political Problems: Frathers and Stones; History of Congress*, Vol. 11; *Current History in Question and Answer*. *Address:* 3-6-547/6, Himayatnagar, Hyderabad 1.

SOHAN LAL, Lala, b. Sept. 15, 1907. President, The Indian Bureau of Parliamentary



Studies, New Delhi; President, the Indo-U.A.R. Friendship Society, New Delhi; Member, Legislative Assembly (Punjab), 1938-46; member, City of Lahore Corporation, 1933-37. Chairman, Eastern Woolen Mills Ltd., Bombay. *Address:* 16, Golf Link Road, New Delhi 3.

SOM DUTT, Major-General Drona, Mentioned in Despatches, N.W.F.P. (1935) and Burma (1945), Deputy Chief, General Staff, Army Headquarters. b. Nov. 11, 1910; *Educ.*: Dehra Dun; Royal Military Coll., Sandhurst, England. Commissioned into Indian Army, Jan. 28, 1932; posted to Baluch Regt.; served N.W.F.P. till 1939; Adjutant, Indian Milly. Academy,

Dehra Dun, till 1941; served with Baluch Regt. in Burma, 1942-47; appointed Commandant, 7 Baluch Regt. at Melktila, Burma, March 1946; promoted Col. 1947 and appointed Comdt., Infantry School, Saugor; promoted Brigadier at A.Hq. as Director of Staff Duties, 1948; attended Imperial Defence Coll., U.K., 1952; B.G.S. Headquarters, Western Command, 1953-55; promoted Maj-Gen., Dec. 1955 as G.O.C., Madras Area; Director, Military Training, 1957-59; *Recreations*: Hockey, Golf, Music. *Clubs*: Delhi Gymkhana Club; Delhi Golf Club. *Address*: 35, Aurangzeb Road, New Delhi 2.

SOMAN, Rear-Admiral Bhaskar Sadasbiv, Flag Officer, Bombay. b. March 30, 1919;



Educ.: Tilak Vidyalaya run by the Indian National Congress; Chintamanrao High School, Shahapur, Sangli State; Sardar High School; I.M.M.T.S. "Dufferin". After completing Dufferin Training, was selected for the R.I.M. Training in U.K. for two and a half years and returned to India as Sub-Lieutenant, Sept. 4, 1934; promoted Lieut., 1937 and Lieut. Commander, 1945; Acting Commander, 1946; acting Captain, 1947; made Substantive Rear-Admiral June 12, 1958. *Address*: Northbrook House, Bombay 1.

SOMANI, Gajadhar, M.P., Industrialist and Millowner. b. April 1908; *Educ.*: Shree Vihadhandan Vidyalaya, Calcutta. Re-elected Member of Parliament as a Congress candidate in the General Elections, 1957; Ex-Chairman, Bombay Millowners' Assoc.; Pres., All-India Organisation of Industrial Employers, New Delhi; ex-Pres., Rajasthan Chamber of Commerce & Industry, Jaipur; is on the Executive Cttee., Federation of Indian Chambers of Commerce & Industry, New Delhi; Director on the Board of various companies; is connected with several religious, social and educational institutions; is a member of three Consultative Cttees. of Parliament, i.e. of the Ministries of Finance, Commerce and Industry, and Planning; has been appointed Chairman, Investigation Cttee. set up by the Ministry of Commerce & Industry to investigate into the affairs of four textile mills; member of a small Cttee. set up to review the working of the National Development Corporation and member, Central Advisory Board for Salt; is Chairman, Textile Industry Enquiry Cttee. set up by the Govt. of Rajasthan. *Address*: Shreenivas House, Waudby Road, Fort, Bombay 1.

SOMASUNDARAM (Somu), M. P., Vidwan (Madras Univ.), Tamil poet and short story writer; Producer, Spoken word, A.I.R., Madras. b. June 17, 1921; *Educ.*: M. D. T. Hindu Coll., Tirunelveli; became Vidwan of the Madras Univ. with Tamil language and literature as special subjects. Is popularly known by his pen name 'Somu'; served in the A.I.R., Tiruchi in different capacities in the planning, production and administration of programmes, 1940-53; Editor, *Kalki*, one of the foremost weeklies in Tamil, 1954-56; awarded the Bharati Gold Medal, 1958, the first prize in the All-India Tamil Short story competition, 1940, the Madras Govt.'s Poetry prize, 1948; is a close associate of Rajaji; has studied the philosophy of Sidhas; also knows Sanskrit, Hindi and English. *Publications*: Six volumes of short stories, two volumes of poems, two books of essays and two novels. *Address*: C/o AIR, Madras 4.

SOMASUNDARAM, Mr. Justice Naga- bhushanam, B.A., B.L. Judge, High Court of Judicature, Madras, since Sept. 1948. b. Nov. 15, 1900. *Educ.*: Pachayappa's Coll., Madras; Law Coll., Madras. Enrolled as an Advocate, Sept. 1926; joined the Chambers of Mr. V. L. Ethiraj, a leading criminal lawyer; later worked with the late Nugent

Grant; practised mainly on the criminal side; appeared in many sensational cases. *Recreations*: Golf. *Clubs*: Cosmopolitan Club, Madras; Madras Gymkhana Club; Lawley Institute, Ooty; Ooty Gymkhana Club; Bangalore Club; Century Club; Bangalore Golf Club. *Address*: Moors Gardens, Nungambakkam, Madras 6.

SORCAR, Pratap Chandra, Magician. b. Feb. 23, 1918, at Tangal, Eastern Pakistan;

Educ.: Calcutta Univ. upto B.A. with Maths. (Hons.); F.R.A.S. (Lond.).

Represents in his person the

seventh generation of a

family of magicians; took

to magic before he was

conscious of it; celebrated

his Silver Jubilee as ex-

ponent of natural magic

and prestidigitation, 1951;

has by his stage perform-

ances and writings brought

to the public the cultural

and international appeal of

the art of Indian

magic; holder of the "Sphinx" Gold Award

(the "Nobel Prize" of Magic) from New York

for the world's best stage magic and is the only

magician in the world today to have received

this coveted award twice; hailed as "World's

Greatest Magician" in Germany and awarded

Royal Medallion and the Golden Laurel;

Hon. Member of the very exclusive Magicians

Club, Tokyo (Japan), being the first non-

Japanese, Asian or European, to receive this

honour; Leicester Magic Circle (England);

Cercle de Prestidigitation (Belgium); *Magis-*

cher Zirkel von Deutschland (Germany); Hon.

Member of degree "Maitre Magicien," in

AFAP (Association Française des Artistes

de Prestidigitation, Paris); Pres., All-India

Magicians' Club, Calcutta; the Calcutta

Branch of the International Brotherhood of

Magicians, U.S.A. the "P.O. Sorcar Ring" is

named after him; cycled on Place de l'Opera,

Paris, blindfolded and hooded, 1950 and

in Calcutta, 1936; also in the Times

Square of New York City in June 1957; his

demonstration of such powers televised

by London B.B.C., New York N.B.C. and

Chicago W.G.N., 1950; performed at World

Magie Convention (Chicago), May 1950;

has had long shows in Paris, 1955 and in

London, 1956; some of his shows in

London at theatre and on TV—were so

realistic that they are said to have created

much panic among the viewers; his perfor-

mances in England have always had a

good press. *Publications*: 16 works on

magic and allied subjects in English, Hindi

and Bengali; regular contributor to French,

German, Dutch, Belgian, Spanish, English

and American magic journals; only magician

in India to be invited regularly during the

past 18 years to speak on magic over A.I.R.

Radio Network and Radio Pakistan. *Re-*

creation: Magic. *Address*: "Indrajal,"

12-3A, Jamir Lane, Ballyganj, Calcutta 19.

SREENIVASAN, M. A., Retired Prime

Minister, Gwalior State, and Retired

Minister, Mysore State. b.

Sept. 20, 1897; *Educ.*:

Hindu High School, Madras

and Central Coll., Bangalore.

Entered the Mysore Civil

Service, 1917. Served in

practically all depart-

ments of Government in-

cluding Revenue, Judicial,

Finance and Audit, Army,

Industries, Local Admini-

stration and the Secretariat;

Financial Adviser, Hydro-

Electricity Department, 1925-28; deputed

to Europe and America in connection with

the Mysore State business in London and New

York, 1928-30; was later deputed to report on

the economic and social conditions of labour in

the Kolar Gold Field, 1931; special duties in

the Industries Dept. to rehabilitate and

manage the Sri Krishnarajendra (Textile) Mills,

Mysore, 1931-34; Deputy Commissioner and



President, City Municipal Council, and Chairman, City Improvement Trust Board, 1935-39; Govt. Director, Industrial Concerns, 1939-40; services lent to the Govt. of India during the war as Controller of Supplies, South India, May 1940; Minister for Food, Industries, Civil Supplies, Forests, and Mining, Mysore, 1943-46; Chairman, Mysore Iron and Steel Works, Board of Industrial Research, 1945-46; Minister for Agriculture, Local Self-Government, Army, etc., 1947-48; Vice-President, Executive Council, Gwalior State and Member, Constituent Assembly, Council of Ministers, States Negotiating Committee, Union Constitution Committee; Director, Buckingham & Carnatic Co., Consolidated Coffee Estates (1943) Ltd., Coffee Lands & Industries (Mysore) Ltd., The Indian Cable Co., Ltd., The Indian Oxygen Ltd., Ballia India Ltd., etc. *Address*: High Ground, Bangalore.

SREENIVASULU, K., Diploma in Fine Arts (First Class), Painter; Director of Arts, Besant Theosophical School, Adyar, Madras. b. Jan. 6, 1923. *Educ.*: Graduated from school of Arts, Madras, 1943. Artist; won the President's Award for the best picture of the year 'Lotus Garland', 1953; held one man's exhibition, Madras, 1955; as a Fullbright Scholar visited the U.S.A. and exhibited his works at India House, New York; exhibited his works along with other invitees by the Govt. of India, in U.S.S.R., China, Japan, Philippines and Australia; nominated representative of Madras State on the General Council of Lalit Kala Akademi, 1950-57. *Recreations*: Games and Sports. *Clubs*: All India Arts and Crafts Society. *Address*: B.T.N., Adyar, Madras 20.

SRI KRISHNA, Dr., C.I.E. (1942), Ph.D., D.Sc. (Lond.), F.N.I., has been Scientific Adviser and Scientific Liaison Officer to the Indian High Commission, London. b. July 1, 1906 at Lahore; *Educ.*: Punjab Univ.; D.S.I. (England) Research Scholar, 1919-21; Queen's College, London; King's College, London. Elected Fellow of the Royal Institute of Chemistry, 1925; Research Assistant, Chemistry Dept., King's College, London, 1924; appointed Reader in Organic Chemistry, Punjab Univ., 1925; appointed Biochemist, Forest Research Institute, Dehra Dun, 1924; elected Foundation Member of the National Institute of Sciences, India, 1937; elected Pres., Chemistry Section, Indian Science Congress, 1940; appointed Vice-President, Forest Research Institute & Colleges, Dehra Dun, 1947; represented India at the Fifth Empire Forestry Conference, London, 1947; Leader of the Scientific Delegation to Australia, 1948; Director of Forest Research, Forest Research Institute & College, Dehra Dun 1948-50. *Publications*: Over a hundred publications, mainly on plant products. *Recreation*: Tennis. *Address*: C/o The High Commission of India, India House, Aldwych, London, W.C. 2; 89, Rajpur Road, Dehra Dun, U.P.

SRI RAM, Nilakanta, B.A. (Madras), Presi- dent, Theosophical Society. b. Dec. 15, 1889; *Educ.*: Madras. Worked with Dr. Annie Besant on her newspaper, *New India*, 1919-20 and 1923-25; was on the *Leader* staff for a short time, 1922-23; has been Secy., Treasurer and Vice-Pres., Theosophical Society; elected international Pres., Feb. 1953; has been travelling abroad, lecturing and writing. *Publications*: *An Approach to Reality, A Theosophist Looks at the World, The Human Interest, Man, his origins and evolution*, etc. *Address*: Adyar, Madras 20.

SREENIVASAN, C. R., Honorary Editor and ex-Managing Director, *Swadesamitran*, Madras. b. Nov. 28, 1899; *Educ.*: Presidency Coll., Madras; travelled widely in India for business contacts, 1910-15; Manager and Assistant Editor, *Swadesamitran*, 1915-28; Editor, from 1928; also Managing Dir. from 1934; retired as Managing Director of the *Swadesamitran* Ltd., Dec. 1, 1955; devoted special attention

to the study of problems relating to Banking, Industry and Commerce and presided over several Conferences on these subjects in Madras State; Pres., Local Board, Reserve Bank of India from its inception; Dir., Central Board, from 1937; Pres. of the Indian & Eastern Newspaper Society for the year 1953-54; Chairman of the A.B.U. for 1957; Chairman of the Bharat Line Ltd., Bombay; East India Distilleries Ltd.; Kirlaskar Electric Co., Ltd.; Parry's Confectionery Ltd.; General Papers Ltd.; Board of Deccan Sugars Ltd.; Cauvery Spinning & Weaving Mills Ltd.; Tirupati Cotton Mills Ltd.; Indian Steel Rolling Mills Ltd.; Vasant Soap Works Ltd.; Dir. of the Board of Cauvery Sugars & Chemicals Ltd.; Kumbakonam Electric Supply Corporation Ltd.; Negapatnam Electric Supply Co., Ltd.; etc.; Pres. of the All-India Newspaper Editors' Conference for the years 1949-50 and 1951-52; presided over several journalistic conferences; member, Executive Cttee., I.E.N.S.; visited Burma, Ceylon and Malaya for cultural contacts; Europe, 1948 and 1949; visited U.K., 1956; Canada and U.S.A., 1950. *Publications: Standards and Values; A.B.C. Talks*, in English and *The Balance* in Tamil. *Address: "Swadesamitran," Madras.*

SRIVASTAVA, Mr. Justice Amrita Prasad, M.A., LL.B. (Allahabad), Judge, High Court, Allahabad, since Dec. 13, 1956. b. Feb. 18, 1903. Educ.: London Mission High School, Mirzapur; Kwing Christian Coll., Allahabad; Allahabad Univ., Allahabad. Enrolled as a Vakill of the Allahabad High Court, 1925, and as an Advocate, 1928; joined the provincial Judicial Service, 1927. *Recreations:* Reading. *Address:* 10, Hamilton Road, George Town, Allahabad.

SRIVASTAVA, Bishwambhar Nath, M.Sc., D.Sc. (Alid.), F.N.I., F.N.A.Sc., F.P.S. (London), Scientist. Professor of General Physics, Indian Association for the Cultivation of Science, Jadavpur, Calcutta, since 1953. b. Aug. 23, 1905. Educ.: Jaunpur, Allahabad and Oxford. Lecturer, Allahabad Univ., 1929-50; Reader, Lucknow Univ., 1950-53; awarded D.Sc. degree, 1939; elected Fellow, National Institute of Sciences of India, 1946; awarded Education Minister's gold medal by the National Academy of Sciences of India, 1950; elected Recorder of Physics Section, Indian Science Congress, 1953; elected Fellow of Physical Society, London, 1953; elected Member of Commission I of International Institute of Refrigeration, Paris, 1957. *Publications:* More than sixty research papers mainly on thermal ionization, quantum statistics, transport properties of gases, etc.; author (jointly with Prof. M. N. Saha) of *Treatise on Heat*, etc. *Recreations:* Tennis. *Address:* Indian Association for the Cultivation of Science, Calcutta 32.

SRIVASTAVA, J. K., B.Sc. (Tech.) (Manch.), A.M.C.T., A.T.I., Chief Business Executive, Sir J. P. Srivastava Group of Industries. b. Nov. 13, 1913. Educ.: Phillanders Smith College, Naini Tal; Grimes Tutorial School, Manchester; College of Technology, Univ. of Manchester. Training in Mills and Works in Europe; Liverpool Cotton Exchange. Pres., Upper India Chamber of Commerce, since 1957; Deputy Pres., Associated Chambers of Commerce of India, 1957 and again in 1959; Deputy Pres., Employers' Federation of India; Pres., U.P. Chamber of



Commerce, 1946-56; Chairman, Employers' Assoc. of Northern India, 1956-57; Chairman, Local Advisory Board of the Central Bank of India; member: Cotton Textile Consultative Board, Govt. of India; State Planning Board, U.P.; Central Zonal Advisory Board, Life Insurance Corporation of India; State Fact Finding Cttee.; Indian Central Cotton Cttee., representing the U.P. Mills; Cotton Textiles Fund Cttee.; Cotton Advisory Board, Govt.

of India; Standing Cttee. for Machinery Manufacture for Textiles, Govt. of India; Ad Hoc Cttee. on the manufacture of Textile Machinery, Govt. of India; member, Leg. Assembly, representing the Upper India Chamber of Commerce, 1946-52; member: All India Council for Tech. Education and Northern Regional Cttee., Govt. of India; All India Board of Tech. Studies in Management; Central Employment Advisory Cttee.; All India Cttee. for Higher Tech. Education Abroad; Northern Rly. Zonal Rly. Users' Consultative Cttee.; State Advisory Board for Promotion of Organised Industries; State Savings Advisory Cttee., U.P.; Board of Industries, U.P.; Posts and Telegraphs Advisory Cttee., Lucknow; Advisory Cttee., Delhi School of Economics; Hewitt Engineering School, Lucknow; Chairman, Advisory Cttee., Govt. Central Textile Institute, Kanpur; Leader, Indian Delegation, International Organisation for Standardisation, U.S.A., 1952; Alternate delegate, International Chambers of Commerce, Paris, 1950; Patent right inventions of process for production of book binding cloth and sulphur burning; Chairman, New Victoria Mills Co. Ltd., Kanpur; Shree Sadul Textiles Ltd., Sri Ganganagar (Rajasthan); Raza Textiles Ltd., Rampur; New Bhopal Textiles Ltd., Bhopal; Gwalior Sugar Co. Ltd., Dabra; Pioneer Consolidated Co. (London) Ltd., London; Rampur Finance Corporation Ltd., Rampur; Director: Concord of India Ins. Co. Ltd., Calcutta; The Pioneer Ltd., Lucknow; Jagatjit Cotton Textile Mills Ltd., Phagwara; Jharla and Raniganj Collieries Ltd., Calcutta; Orient Eng. and Commercial Co. Ltd., Calcutta *Recreations:* Tennis Swimming, Riding, Shooting *Clubs:* Boat House Club Ltd., Naini Tal; Cawnpore Club Ltd., Kanpur; Delhi Gymkhana Club, New Delhi. *Address:* Kallash, Nawabganj, Kanpur.

STANDAERT, Felix, Doctor of Laws, Consul General for Belgium in Bombay. b. March 26, 1922. Educ.: Louvain Univ., Belgium. Third Secy., Embassy of Belgium in Bonn, 1950-53; Second Secy., Embassy of Belgium in Warsaw, 1953-56. *Clubs:* Willingdon Club, Bombay. *Address:* 'Morena', 11, Carmichael Road, Cumballa Hill, Bombay.

STANES, Eric Henry, Managing Director, T. Stanes & Co. Ltd., Coimbatore, since 1939. b. April 4, 1897, at Coonour, S. India. Educ.: Monkton Combe School, England. Served as a Lieut. in the 1914/18 War, in the Manchester Regiment, R.F.C. and R.A.F.; awarded Military Cross, 1918; after one year in Mining Lane, joined T. Stanes & Co. Ltd., 1920; member, Indian Coffee Board, since 1941; Pres. United Planters Assoc. of Southern India 1951-52, Chairman, Associated Companies, which now include: The United Nilairi Tea Estates Co. Ltd.; Stanes Amalgamated Estates Ltd.; The United Coffee Supply Co. Ltd.; Stanes Motors (South India) Ltd.; The Indian Cashewnuts & Plantations Ltd. *Clubs:* Coimbatore, Ootacamund, Bangalore and East India and Sports Club. *Address:* P.O. Box 12, Coimbatore.

SUBBARAO, Mr. Justice K., B.A., B.L., Judge, Supreme Court, since Jan. 31, 1958. b. July 15, 1902. Educ.: Govt. Arts Coll., Rajahmundry; Law Coll., Madras. Practised in Madras High Court from 1926; Judge, Madras High Court, March 1948-July 1954; Chief Justice, Andhra High Court, Guuntur, July 5, 1954-Oct. 31, 1956; Chief Justice, Andhra Pradesh High Court, Nov. 1, 1956-Jan. 1958 (Chancellor, Sri Venkateswara Univ., 1954-55. *Clubs:* Cosmopolitan Club, Madras; Delhi Gymkhana Club. *Address:* No. 2, York Road, New Delhi 1.

SUBBARAO, Rayaprolu, Sahitya Sthapaka (1947) Telugu Poet; Head of Telugu Dept., Sri Venkateswara University, Tirupati. b. March 1896. Educ.: Nizam Coll., Hyderabad; Shanti Niketan. Joined Osmania Univ., as Head of the Telugu Dept., 1920; Principal, Univ. Coll., Warangal, 1947-50; presided

over the All Andhra Poets and Pandits Conference, Rajahmundry, 1940; Jt. Pres., Navya Sahitya Parishad; Founder Pres., Hyderabad Telugu Academy, 1950. *Publications: Lalita*, Poetic work (1909), *Thirukankan*, pure lyric (1913); *Kashikamal*; *Swaguna Kumar*; *Telugu Tota*; *Jada Kuchulu*; *Andhravani*; *Vanamala*; *Ramya L. Kum*; *Madhuri* and *Kanna Patalsu* (verses and songs); *Roopa Naventiam*, drama (1953); Translations of Kalidasa's *Meghadoota* in Telugu (1951) and Bhavabhuti's *Uttara Rama Charita* (1958). *Recreations:* Morning Walks, Reading and Writing. *Address:* Lalita Kutir, 44, Nehru Nagar, Secunderabad.

SUBBARAYAN, Dr. Paramasiva, M.A., B.C.L. (Oxon.), LL.D. (Dublin), M.P.; Chairman, Public Accounts Cttee. (1959-60); ex-Chief Minister, Madras. b. Sept. 11, 1889. Educ.: Newton School, Madras, the Presidency and Madras Christian Colleges and Wadham Coll., Oxford. Was Council Secretary for a few months in the first reformed Legislative Council; has been a member of Madras Legislative Council representing South Central Landholders from 1920; Chief Minister, Government of Madras, 1928-30; elected to the Madras Legislative Assembly unopposed for Tiruchengodu rural; member, A.I.C.C., 1920 and 1937-49; Minister for Law, Madras, 1937-39, and 1947-48; Indian Ambassador in Indonesia, 1949-51; member, Rajya Sabha, 1954-57. *Address:* Tiruchengodu, Salem District.

SUBRAMANIAM, C., B.A., B.L. (Madras), Minister for Finance, Education and Law, Madras State. b. Jan. 30, 1910, at Pollachi, Coimbatore Dist.; Educ.: Coimbatore and Madras; took B.A. in 1930 and B.L. in 1932. Joined the Satyagraha Movement and was imprisoned for one year; started practice in Coimbatore, 1936; participated in the Individual Satyagraha and was convicted for six months, 1941; detained in the 1942 Movement; has been mainly associated with the Coimbatore Textile Labour Movement and also with Sri Ramakrishna Mission Vidyalaya in Coimbatore Dist.; was Pres., Coimbatore Dist. Congress Cttee.; member: P.C.C., A.I.C.C.; Working Cttee., Tamil Nad Congress; took a keen interest in students' organisations and youth movements; elected to the Constituent Assembly, 1946-52; elected M.L.A., Madras, from the Coimbatore City constituency, Jan. 1952; again elected to the Madras Assembly, 1957. *Address:* Govt. of Madras, Fort St. George, Madras 9.

SUBRAMANYA, T., B.A., LL.B., Minister for Law, Labour and Local Govt., Mysore, since May 1958. b. July 2, 1896. Educ.: Central Coll., Bangalore; St. Aloysius Coll., Mangalore; Law Coll., Bombay. Entered the Bar and joined Congress, 1921; courted jail during freedom movement; Pres.: Mysore State Congress, 1942-45; Mysore Constituent Assembly, 1948-49; Mysore State Charkha Sangh, since 1946; Karnataka Hindi Prachar Sabha, since 1950; M.L.A., Mysore, 1950-52; Chairman, Mysore Leg. Council, after formation of new Mysore State; elected M.L.A., Mysore, 1957. *Address:* Bangalore.

SUBRAMANYAM, Palghat Ramakrishna, M.A., Stock, Share and Finance Broker. b. 5th June 1909 in Palghat. Educ. in Mysore; obtained first rank in B.A. Degree Examination held by the Mysore University with Mathematics, Economics and Statistics as optional subjects, in 1929; was the recipient of four gold medals; was a merit scholarship holder in the B.A. as well as M.A. classes; passed M.A. Degree with distinction (1931) with advanced Mathematics, Statistics and Mathematical Economics as his special subjects. Joined Messrs. Batliwala and Karani, as Statistician, Investment Consultant and Sub-broker, 1933; after



serving them for a period of eight years and three months, was elected a member of the Bombay Stock Exchange on October 7, 1941 and started independent business as a Stock, Share and Finance Broker on November 28, 1941; converted the proprietary firm into a partnership firm by admitting into partnership on Jan. 1, 1950. Mr. P. R. Venkatesan and Mr. R. Subramanyam; celebrated the Silver Jubilee of his career in the Stock Exchange, Jan. 1, 1950; as an Underwriter, has been responsible for placing several issues on the market (Total Issued Capital of about Rs. 5 crores); Director of several Joint Stock Companies. Address: 70-A, Stock Exchange Building, Apollo Street, Fort, Bombay.

SUBRAMANYAM, Dr. V., B.A. (Madras), D.Sc. (London), F.R.I.C. (London), F.N.I. (India), F.I.C.S., Director, Central Food Technological Research Institute, Mysore, since 1950. b. 1902; Educ.: Madras Univ.; London; Research Medalist with the Royal Agricultural Society, London, 1928. Lecturer, 1927-31 and Prof., 1931-49, Biochemistry, Indian Institute of Science, Bangalore; has been conducting and directing research in biochemistry, nutrition and food technology for the last 36 years; is now engaged in the technical direction and development of works arising from the processes and products standardized at the Central Food Technological Res. Inst.; was Pres. of Society of Biological Chemists, India; Chemistry Section of the Indian Science Congress; member of Industrial Panels or Cttees. of a number of Central Ministries and of bodies like the Council of Scientific and Industrial Research. Publications: More than 500 papers having a bearing on agricultural Chemistry, biochemistry, nutrition, etc. Address: Central Food Technological Research Institute, Cheluvamba Mansion, V. V. Mohalla P.O., Mysore.

SUBRAMANYAM, V. R., Proprietor, Manyam & Co., Madras, Bangalore & Bombay, Manufacturers of Raja Snow and other Raja products. b. Feb. 17, 1906, at Madras. Has travelled extensively in India and also visited United Kingdom and several countries in Europe. 1951: visited the countries of the Far East and travelled throughout Japan, 1952, U.K. and Europe. 1953 and also U.S.S.R., 1954. Address: Raja Snow Buildings, Seshadripuram, Bangalore 3.



SUKHADIA, Mohanlal, L.E.E. (Bombay), Chief Minister, Rajasthan, since Nov. 13, 1954; became Chief Minister in charge of Industries, General Administration, Education, and Planning and Co-ordination, of Greater Rajasthan from Nov. 1, 1956 after the integration of the former State of Ajmer and certain other areas into Rajasthan. b. July 31, 1916; Educ.: Nathdwara (Udaipur) and Bombay. Actively associated with the activities of the Praja Mandal of the former Mewar State, from 1939; interned during 'Quit India Movement'; Minister for Civil Supplies, P.W.D., Relief & Rehabilitation, Mewar State; became Development Minister when the State of Rajasthan was first formed; elected to the Legislative Assembly from Udaipur City constituency; Minister for Civil Supplies and Agriculture including Irrigation, Vyas Cabinet, Rajasthan, April 26, 1951-March 3, 1952; Minister for Agriculture, Revenue (except Forests and Co-operation), and Famine Relief, Palwal Cabinet, March 4, 1952-Oct. 31, 1952 and in Vyas Cabinet,



Nov. 1, 1952-Nov. 12, 1954. Publications: Articles on political, economic and social subjects. Recreations: Indoor games and social studies. Club: Jaipur Club. Address: 8, Civil Lines, Jaipur.

SUKHATME, Pandurang Vasudeo, B.Sc., Ph.D. (London), D.Sc. (London), F.N.I., Director, Statistics Division, Food and Agricultural Organisation of the United Nations, Rome, since Jan. 1950. b. July 27, 1911; Educ.: Ferguson College, Poona; University College, London; Galton Laboratory, London; Rothamsted Agricultural Experimental Station, Harpenden. Statistical Adviser, Indian Council of Agricultural Research, 1940-51; Chief, Statistical Branch, F.A.O., U.N., 1951-59. Publications: Co-author with Dr. V. G. Panse of the book on 'Statistical Methods for Agricultural Workers' published by the Indian Council of Agricultural Research, 1955; Sampling Theory of Survey published in English by Iowa State College Press, U.S.A., 1953 and by the Indian Society of Agricultural Statistics and translated into Spanish by Fondo de Cultura Economica Mexico, Buenos Aires, 1956; also author of several original research memoirs. Address: Rome, Italy.

SUKTHANKAR, Yashwant Narayan, C.I.E. (June 1941), B.A., LL.B., Bar-at-Law (Lincoln's Inn), I.C.S. (Retd.), Governor of Orissa, since July 31, 1957. b. Aug. 24, 1897; Educ.: Bombay and Cambridge Universities. Joined the Indian Civil Service, 30th October, 1922; served in Madhya Pradesh as Asst. Commissioner; Offg. Deputy Commissioner, April 1927; Under Secy. to Govt., Madhya Pradesh, Oct. 1932; Offg. Revenue Secy. to Govt., Madhya Pradesh, June 1933; Deputy Indian Trade Commissioner, July 1934; acting Indian Trade Commissioner, Oct. 1934; and again, Sept. 1935; Deputy Secy. Commerce Dept., Govt. of India, July 1937; Deputy Commissioner (confirmed), August 1937; Tea Controller for India, Oct. 1939; Secy. Commerce Dept., Govt. of India, Aug. 1940-Aug. 1947; Secy. Ministry of Transport, Aug. 1947-Dec. 1951; Secy., Commerce and Industry Ministry, Dec. 1951-Dec. 1952; Special Secy. Cabinet and Secy. Planning Commission, Dec. 1952-May 1953; Cabinet Secretary and Secy., Planning Commission, Govt. of India, 1953-57. Recreations: Long walks, Reading. Club: Delhi Gymkhana. Address: Governor's Camp, Orissa.



SUMATI Morarjee, Smt., Chairman, Indian National Steamship Owners' Association. b. March 13, 1909; Educ.: Privately. Director: Managing Cttee., The Scindia Steam Navigation Co., Ltd.; Kamal Shipping Co., Ltd.; The Eastern Bunkers Ltd.; Narottam & Pereira (Private) Ltd.; Member of Cttee.: Indian Merchants' Chamber; Swadeshi League; Sea Cadet Council; All India Handicraft Board Regional Handicrafts Design Centre; (Governing Body) Training Ship "DUFFERIN"; National Cadet Corps; member: Indian and Tourist Industry's Council; National Shipping Board. Hobbies: Research on Ancient Indian Shipping; Collecting ancient curios, Art and Paintings; Gardening; Cows. Address: Palm Bun, Gandhi Gram, Juhu, Bombay 23.



SUNDARAM, Kuthur Vaidyanath Kalyan, B.A. (Hons.) (Madras Univ.), I.C.S., Chief Election Commissioner, b. Jan. 1, 1904; Educ.: Coimbatore College; Presidency College, Madras and Christ's College, Cambridge. Appointed to the I.C.S., October 1927 served

in Madhya Pradesh as Assistant Commissioner, District Judge and later as Registrar of the Nagpur High Court, 1927-36; Reforms Officer of the Govt. of India, 1936-38; Legislative Department of the Govt. of India, 1938-48; Secy., Ministry of Law, 1948-58. Club: Delhi Gymkhana. Address: New Delhi.

SUNDARAM, Tribhuvandas Parashottamdas Lohar, "Bhasha Visharad" (1929), Gujarati Post, Short Story Writer and Critic. b. March 22, 1908; Educ.: Gujarat Vidyapith, Ahmedabad. Publications: —Poetry: Kadi Vani; Kavya Mangala; Rang Rang Vaidalan; Vasudha; Yatra; Short Stories: Hitrakani & Other Stories; Piyasi; Unnayan; Travel: Dakshinayan; Criticism: Arachin Kavita; Biography: Maha Yogi Sri Arvind; Translations: Mrichchhakatik. Address: Sri Aurobindo Ashram, Pondicherry.

SWAMI Ranganathananda, Secretary, Ramakrishna Mission, New Delhi, since Oct. 1949. b. Dec. 15, 1908. A Sanyasin of the Ramakrishna Order of Monks, joined the Ramakrishna Mission, Mysore in 1926; took orders in 1933; served as Secy. & Librarian of the Ramakrishna Mission Society, Rangoon, July 1939 to Feb. 1942; President, Ramakrishna Math and Mission Branch at Karachi, Aug. 1942 to Aug. 1948. Publications: Eternal Values for a Changing Society, a volume of his speeches and writings brought out by the Advaita Ashrama, Calcutta in Nov. 1954. Address: New Delhi 1.

SWAMI Sambuddhananda, President, Sri Ramakrishna Ashram, Bombay, since 1938. b. 1891; Monk of the Order of the Ramakrishna Math and Mission, Educ.: Calcutta. Member: Board of Trustees, Belurmath, Calcutta; (Governing Body, Ramakrishna Mission, Belurmath, Calcutta, since 1947; Sheriff Ramdas Relief Fund and Exco. Com., Sir Byramjee Jeejeebhoy (Western India Society for the Protection of Children) Institute for the Orphans; Pres., Ramakrishna Vivekananda Centre, Dadar, Bombay; member, Executive Cttee., All-India Animal Welfare Board. Publications: Vedie Prayers; The Message of the Himalayas; Nishiketa; Vedanta through Stories; Kurukshetra; Bhagavadgita. Hamurati-Uma Address: Khar, Bombay 21

SWAMI Sivananda Saraswati, Founder-President, The Divine Life Society, Rishikesh. b. 1887. Practised medicine in Ma'nva, performed Tajas in Swarg-Ashram (near Rishikesh in the Himalayas) for over 12 years, established the Divine Life Society and 300 branches in all countries; founded the Yoga-Vedanta Forest Academy for training students in Yoga and Indian Philosophy; carries on dynamic work through correspondence, press and platform for attaining health and longevity, spiritual progress, universal brotherhood and world peace; the Sivananda General Hospital renders useful service to the people in the local villages and thousands of pilgrims to Haridwar, Rishikesh, and Badrinagar. Publications: over 200 books on Yoga, Health and Indian Philosophy in English and other languages. Address: P.O. Sivanandanagar, Rishikesh (Himalayas).

TAGORE, Rabindranath, B.Sc. (Illinois), Ex-Vice-Chancellor, Visva Bharati. b. Nov. 29, 1888; Educ.: Santiniketan and Univ. of Illinois. General Secretary, Visva Bharati Society; retired as Vice-Chancellor, Visva Bharati Univ., 1953. Publications: Pranatana (A book on biology in Bengali); Asrayaktibad (A book on the Theory of Evolution in Bengali); Asvaphosher Budhacharit (Bengali rendering of Asvaghosh's Budhacharita); On the Edges of Time (Reminiscences of his father Rabindranath Tagore). Recreations: Artistic Leatherwork, Artistic Woodcraft, Horticulture and Painting. Address: "Uttarayana," "Mitail", Rajpur, Dehra Dun (U.P.).

TAKRU, Mr. Justice Jawahar Nath, B.A., LL.B., Judge, High Court, Allahabad, since Oct. 21, 1957. *b.* Dec. 6, 1906; *Educ.*: The Allahabad and the Edinburgh Universities; took his degree in Arts, 1926; studied abroad for two years, graduated in Law, 1931; did one year's training in the chamber of Dr. K. N. Katju; joined the Allahabad Dist. Court Bar and practised in the Dist. Courts for 10 years; shifted to the Allahabad High Court and practised, Dec. 1942-May 1957; *Addl. Judge, Allahabad High Court, May 6-Oct. 20, 1957. Recreations*: Bridge, Golf and Rowing. *Clubs*: The Judges and the Golf. *Address*: 12, Sir T. B. Sapru Road, Allahabad, U.P.

TALUKDAR, Dalba Chandra, Assamese Novelist. *b.* Sangkranti day of Falgun and Chaitra, 1900, at Gauhati; *Educ.*: Studied upto B.Sc.; secured scholarship in Upper Primary, Matriculation and I.A. examinations, Calcutta Univ. Took active part in the Students Conference, Assam; was Editor, *Jamma Bhumi* magazine; organised Non-Co-operation Movement, 1920 and boycott of students; Proprietor of Asok Printing Press, edits 'Gandi 6', a weekly. *Publications*: More than 100 books in Assamese (poems, novels, plays, stories); a comprehensive history of Assam. *Apurna*, novel (M.A. Text, Gauhati Univ.); *Bamuni Kowar*, a play (I.A. Text); some of his books are still in manuscript; *Saundarya*, a poem was also a text for I.A. *Address*: Gauhati, Santipur, Assam.

TAMBE, Mr. Justice Yeshwant Shripad, B.A., LL.B., Judge, High Court, Bombay, since Nov. 1956. *b.* July 31, 1904; *Educ.*: Elphinstone College, Bombay; Govt. School of Law, Bombay. Judge, High Court, Nagpur, 1954-56. *Clubs*: C. P. Club, Nagpur; Gondwana Club, Nagpur. *Address*: Civil Lines, Nagpur

TANDON, Mr. Justice Jagbans Kishore, B.A., LL.B., Judge, Allahabad High Court, since Dec. 1956. *b.* July 8, 1901; *Educ.*: Nanak Chand High School, Meerut; Meerut Coll., Meerut. Practised at the Bar for about 24 years; Munsiff, U.P. State Judicial Service, 1928-Feb. 1946; appointed Under Secy. to the Govt., Judicial Deptt., U.P. Govt. Secretariat, 1946; was Legal Draftsman for the drafting of bills, ordinances and other enactments; as Conveyancer to the Govt., was in charge of the drafting of other legal documents; appointed Leg. Secy. to U.P. Govt. and Joint Legal Remembrancer; was also Chief Electoral Officer to U.P. State, in which capacity, conducted the first General Elections to the Parliament and the State Legislature under the Constitution. *Address*: 2B, C. Y. Chintamani Road, Allahabad.

TANDON, Parashottamdas, M.P., Ex-President, Indian National Congress. Practising Lawyer in Allahabad till 1921, when he gave up practice to take part in Non-Co-operation Movement; President, U.P. Provincial Congress Committee, 1923; was jailed for one year and a half; worked for some time as Secretary and General Manager, Punjab National Bank, Lahore; joined Servants of People Society, founded by Lala Lajpat Rai in 1929 as President; Chairman, Allahabad Municipality, for several years; took prominent part in Civil Disobedience Movements, 1930 and 1932, and was jailed several times; organised no-rent campaign in U.P., 1932; took active part in Rowlett agitation and Satyagraha, 1919; elected speaker, U.P. Leg. Assembly, 1937; kept in detention for over 8 months in 1941 and again for over two years, 9th Aug. 1942 to 22nd Aug. 1944; takes active interest in Hindi Sahitya Sammelan; Speaker, Legislative Assembly, U.P., 1946-50; resigned Congress Presidentship, September 1951; was member, Congress Working Committee; Member Rajya Sabha. *Address*: Servants of the People Society, Lajpat Bhawan, Kalyanidevi, Allahabad.

TANDON, Raj Krishna, B.A., LL.B. (Punjab), B.A. (Hons.) (Cantab.), Barrister-at-Law, Joint Secy. and Chief of Protocol, Ministry of

External Affairs, New Delhi. *b.* Feb. 10, 1910; *Educ.*: Forman Christian College and Law College, Lahore, Emmanuel College, Cambridge and Middle Temple, London. Joined Punjab (Civil Service; Under-Secretary, 1942 and later Deputy Secretary in Information and Broadcasting Deptt., Govt. of India; Officer on Special Duty, Commerce Deptt., Govt. of India, Feb. 1946; Indian Government Trade Commissioner in Ceylon, May 1946 to July 1948. Dy. Chief Controller of Imports & Exports, Bombay, July 1948-Jan. 1950; Dy. Secy. and Joint Chief Controller of Imports, Ministry of Commerce, Govt. of India, Jan.-May 1950; Consul-General of India in the French Establishment in India, Pondicherry, 1950-54; Acting Commissioner in British East Africa and the Federation of Rhodesia and Nyasaland and Acting Consul General in Belgian Congo and Ruanda Urundi, 1954; Commissioner for the Govt. of India in Singapore and the Federation of Malaya, 1954-57. *Publications*: Articles in various papers. *Address*: New Delhi.

TARAPORVALA, Khan Bahadur Goo-verji B., Financial Adviser to H.E.H. The Nizam of Hyderabad, since 1949. *b.* September 3, 1896; *Educ.*: St. Xavier's College, Bombay;



B.A. (Hons.), 1917; B.Sc. (Distinction), 1918; Dakshina Fellow, Bombay Univ., 1918; Sir James Fergusson Scholar, 1919-20; Certified Associate of the Institute of Bankers, London, 1923. Lecturer, St. Xavier's College, Bombay, 1919-20; joined Imperial Bank, 1921; worked as agent at Sandhurst Road, Byculla, Yeotmal, Godhra and Ujjain branches of the Bank; joined H.E.H. the Nizam's Govt. Service as Assistant Secretary, Finance Department, 1930; Govt. Auditor, Nizam's State Railway, 1938; Deputy Financial Secretary, 1940; Additional Financial Secy., 1945; Financial Secretary, 1946. Dy. Managing Director, Hyderabad State Bank, 1947. *Address*: Meher Mansil, Somajiguda, Hyderabad-Deccan.

TARE, Mr. Justice Prabhakar Keshoo, B.A., LL.B., Judge, M. P. High Court, Jabalpur, since Dec. 1957. *b.* Oct. 11, 1913; *Educ.*: Agricultural Middle School, Powarkherna; Ramjas High School, Delhi; Holkar Coll., Indore; Morris Coll., Nagpur; LL.B. from Univ. Coll. of Law, Nagpur, 1936. Enrolled at the Hoshangabad Bar; joined Congress; delegate to Haripur and Tripuri sessions of Congress; resigned Congress as a protest against the action against Subhashchandra Bose; joined Forward Bloc, 1939; shifted to Nagpur for practice; courted jail several times in the freedom struggle; started practice in High Court, Oct. 1945; imprisoned for a short term in connection with province-wide labour strike, 1948. Secy., M.P. Forward Bloc throughout; for sometime Secy., All India Forward Bloc; on dissolution of Forward Bloc in 1952 gave up politics; shifted to Jabalpur for practice, 1956. *Recreation*: Tennis. *Address*: Judge, M. P. High Court, 178, South Civil Lines, Jabalpur.

TATA, Jehangir B. D., Chairman, Tata Sons Private Ltd. and Tata Industries Private Ltd. *b.* 1904. Joined Tata Sons, Ltd., 1922, as an assistant and appointed Director, 1926; started The Tata Sons Aviation Department, 1932; first Pilot to qualify in India, holding a flying licence since 1929; inaugurated as pilot the Karachi-Bombay Air Mail Service in 1932 and the Bombay-Delhi service in 1937; Chairman and/or Director of all Tata and Associated Companies; also Chairman, Air India International Corporation; Director of Hindustan Aircraft Ltd., Reserve Bank of India; member, Indian Delegation to the Third Session of the United Nations General Assembly at Paris, Sept., 1948; Awards: Hony. Group

Capt. in the I.A.F., 1948; Padma Vibhushan, 1955; Legion of Honour, 1954; International Management Citation, National Assoc. of Foremen (U.S.A.), 1953. *Address*: Bombay House, Bruce Street, Fort, Bombay.

TAWDE, Dr. Nanasaheb Ramji, B.A. (Hons.), B.Sc. (Bombay), M.Sc. (Bombay), Ph.D. (Lond.), F. Inst. P. (Fellow of Institute of Physics, Eng.), F.N.I. (Fellow of National Institute of Sciences, India), F.A.Sc. (Fellow of the Indian Academy of Sciences), Professor and Head of the Deptt. of Physics, Karnatak Univ., Dharwar, since 1953. *b.* Jan. 15, 1898, at village Salei (Malvan Taluka); *Educ.*: School education at Dadar, General Education Institute, Dadar; B.A. (Hons.) and B.Sc. from St.



Xavier's Coll., Bombay, 1919 and 1922; M.Sc. from the Royal Institute of Science, Bombay, 1928; Ph.D. from Univ. of London, 1933; Univ. of Stockholm (Sweden). Joined service as Demonstrator, Karnatak Coll., Dharwar, 1922; Lecturer, Royal Institute of Science and later Professor of Physics, R.I.Sc., Bombay (Class I); retired, 1953; joined Karnatak Univ. as Professor and Head of Deptt. of Physics, 1953; went on a study tour with Scientists' delegation to U.S.A., deputed by the Union Ministry of Education for six months, 1956-57; was Pres., Physics Section of Indian Science Congress, Lucknow, 1953, and Vice-Pres., Indian Physical Society, Fellow, Univ. of Bombay and one of the three members, Duffrin Inspection Cttee. (Govt. of India) and a member of local Schools Cttee., Bombay (City Corporation (F Ward)); was member, Physical Research Cttee. of Council of Scientific and Industrial Research (India); was Chairman, Board of Studies in Physics and member, Academic Council of Univ. of Bombay; member: Senate, Academic Council and Board of Studies, Karnatak Univ.; Council of National Institute of Sciences of India; Board of Studies in Physics at various Indian Univs.; Selection Board for Physics in a number of Univs. *Publications*: About 80 on various modern problems of Physics; Author of *Jeeran Vidnyan* (Science Series) text-books for Marathi Schools. *Recreations*: Tennis; Gardening. *Clubs*: Rotary Club, Dharwar. *Address*: Karnatak University Staff Quarters, Chhoti Mahabaleshwar, Dharwar (Mysore State).

TAYLOR, Allan, Editor, *The Mail*, Madras. *b.* July 19, 1902; *Educ.*: Rutherford Coll., Newcastle-on-Tyne. Pupil in Journalism, 1919; worked on various weekly papers in U.K., 1921-25; Reporter and Sub-Editor, the "Daily Gleaner", Jamaica, 1925; Acting News Editor, 1930; Free Lance, and Reporting in London, 1933-34; "The Mail", Madras, 1934; sub-editor, 1937; News Editor 1955, acting Editor, 1956. *Recreations*: Golf. *Clubs*: Madras, Madras Gymkhana. *Address*: 7, Haddows Road, Madras 6.

TEK CHAND, Mr. Justice, M.A., B.C.L. (Oxon.), Barrister-at-Law, Judge, Punjab High Court. *b.* April 9, 1903; *Educ.*: Anglo-Nasikrit High School, Ambala City; D.A.V. Coll., Lahore; St. Catherine's (Oxford); Inner Temple, London; called to the Bar, 1926; obtained B.C.L. degree from Oxford Univ., 1927, after having passed the previous year honours examination in Jurisprudence from Oxford Univ. Was enrolled as Advocate, Punjab High Court, 1928; started practice at Ambala City; shifted to High Court, March 1931; Part time Law Lecturer, Univ. Law Coll., 1933-42; practised in Lahore High Court till partition, 1947; continued to practice in East Punjab High Court after 1947; elected to Lok Sabha, 1951-52 Elections from Ambala-Shimla Parliamentary Constituency; worked actively in several important Select

Cities. Publications: *Law of Contempt of Court and of Legislatures; The Law of Legal Practitioners; Commentaries on Punjab Acts and Child Marriage Restraint Act. Clubs:* Simla Amateur Dramatic Club and Chandigarh Club. **Address:** Sector 4, Chandigarh.

THACKER, Prof. Maneklal Sankalchand, Padma Bhushan (1955), D.Sc. *Honoris causa* (Mysore Univ.: 1956 & Annamalai Univ.: 1958), F.N.I., Secretary to the Govt. of India, Deptt. of Scientific Research, Ministry of Scientific Research & Cultural Affairs; Director-General, Council of Scientific and Industrial Research, since 1956. **b.** Dec. 3, 1904; **Educ.:** early education in Ahmedabad; B.Sc. (Engg.) and post-graduate research in electrotechnology, Bristol Univ.; Engineer, Bristol Corporation Electricity Deptt., Bristol; Convenant Officer, Calcutta Electric Supply Corporation, 1932-47; Prof., Power Engg., Indian



Institute of Science, Bangalore, 1947-49; Director, Indian Institute of Science, Bangalore, 1949-55; Director, Scientific and Industrial Research, and *ex-officio* Addl. Secy. to the Ministry of Natural Resources and Scientific Research, 1955-57; Genl. Pres., Indian Science Congress, 1958; Fellow or Member of several learned and professional societies both in India and abroad; corresponding Member to International Commissions; Chairman, National Cttees. in respect of various international organisations; Chairman or Member of several Commissions, Boards and Cttees. connected with technical education, applied research, industrial management, etc.; has toured extensively in Europe, in the United States, Canada, South America, Australia and other countries at the invitation of scientific and technical organizations and academies. **Publications:** Numerous research papers and memoirs in the field of electrotechnology, high voltage and power engineering, and energy development. **Clubs:** Calcutta Club; Lake Club, Calcutta; South Club, Calcutta; Bangalore Club and Century Club, Bangalore. **Address:** 4, Kushak Road, New Delhi.

THACKER, Premji Bhavanji, Deputy Minister for Roads, Bldgs. and Ports, Bombay State. **b.** 1911 at Bhuj. **Educ.:** Bhuj (Kutch); passed High Court Pleaders exam., 1934. Set up practice in Bhuj; took active part in social and political activities in Kutch; was closely associated with the activities of Kutch Prajakiya Parishad; revitalised political life in Kutch, 1948-52; was member, Kutch delegation to Home Ministry to discuss the future set-up of Kutch, 1948; was the 1st Gen. Secy. of the Congress in Kutch and also of the Election Cttee. in the 1957 general elections; was mainly responsible for the big victory for the Congress in the elections; was one of the advisers of the Kutch Advisory Council, 1948-52; appointed one of the Advisers to the Kutch Govt., when the first Advisory Council was dissolved, 1952; handled many administrative problems; has always been a staunch supporter of displaced persons; as Adviser to the Kutch Govt., did his best to help solve the problems of settling and rehabilitating displaced persons. **Address:** A/6, Foreshore Road, Bombay 1.

THACKERSEY, Dr. Smt. Premila Vithaldas, D. Litt. (Banaras Hindu Univ.) and (S.N.D.T. Univ.), Vice-Chancellor, S.N.D.T. Univ., since 1957. **b.** Jan. 8, 1894; **Educ.:** Studied English and Sanskrit at home with the help of learned shastries and professors. Went on a world tour, 1919; began taking interest in social and educational activities, 1926; member, Central Advisory Board of Education; nominated Vice-Chan-

cellor, S.N.D.T. Univ., 1951; elected, 1957; Chairman: Kasturba Gandhi National Memorial Trust; Prof. J. P. Trivedi Memorial Trust; a prominent worker of Vanita Vishram and Lady Northcote Hindu Orphanage; was hostess of Mahatmaji at Poona; owner of Parnakuti where Gandhiji carried on Harijan fast. **Recreations:** Reading. **Address:** Parnakuti, Yeravda Hill, Poona 6.

THAKURDAS, Sir Parshotamdas, K.B.E., (June 1914) Kt. (1923), C.I.E. (1919). M.B.E., Cotton Merchant. **b.** 30th May 1879; **Educ.:** Elph. Coll., Bombay. Member, Indian Retrenchment Committee; ex-Director, Reserve Bank of India; member, Royal Commission on Indian Currency and Finance (1926); delegate to Round Table Conference (1930-33); ex-President, East India Cotton Association; Director, Associated Cement Companies Ltd. **Address:** "Sunesta," Ridge Road, Malabar Hill, Bombay.

THAMPI, Ramavarma Sankaranarayanan, B.A., B.L., Speaker, Kerala Legislative Assembly. **b.** Sept. 30, 1911; **Educ.:** H.H. the Maharaja's Coll. of Arts (now Univ. Coll.), Trivandrum; graduated in Arts, 1936 and in Law, 1938. Set up practice as Advocate in Alleppey Dist. and Sessions Court; became a leading lawyer in two years; was arrested and convicted for political activities in connection with State Congress and the Communist Party; elected twice in succession to the Travancore-Cochin Leg. Assembly. **Recreations:** Dramatic Art; Bridge; Swimming. **Address:** Tharayil Kottaram, Ennackad, Alleppey Dist., Kerala State.

THAPAR, Lieut.-General Pran Nath, (General Officer Commanding-in-Chief, Western Command, since May 15, 1959. **b.** May 8, 1900; **Educ.:** Govt. Coll., Lahore. Commissioned from Sandhurst, 1926; spent nearly ten years with the 1st Punjab Regt.; attended Staff Courses at Quetta and Minley-manor, England; saw service in Burma, 1941; was in the Middle East and Italy, 1943; was Asst. Military Secy., G.H.Q., India; was selected to serve on the Army Reorganisation Cttee.; was for some time a first grade staff officer with the British Hqrs. at Aden; commanded the 1st Bn., 1st Punjab Regt. in Indonesia, 1948; later commanded 161 Indian Infantry Brigade in East Bengal; Director of Military Operations and Intelligence, A.H.Q., India, Aug.-Dec. 1947; officiated as Chief of General Staff for a few months; Military Secy., Feb. 1948-Aug. 1949; Master General of Ordnance, Aug. 1949-Apr. 1950; G.O.C. of a Division, May 1950; Commander of a Corps, Oct. 1953-Dec. 1955; attended Imperial Defence Coll. Course, London, Jan. to Dec. 1950; G.O.C.-in-C., Southern Command, 1957-59. **Recreations:** Tennis, Golf. **Club:** Delhi Gymkhana. **Address:** 'Command House', Simla.

THAPAR, Prem Nath, B.A. (Hons.) (Punjab), B.A. (Oxon.), I.C.S., Member for Finance & Administration, Atomic Energy Commission, and *ex-officio* Secretary to the Govt. of India, Deptt. of Atomic Energy, Bombay, since June 1958. **b.** April 13, 1903; **Educ.:** Govt. Coll., Lahore; New Coll., Oxford. Joined Indian Civil Service, 1926; worked as Deputy Commissioner, Settlement Officer and Colonization Officer till 1941; Joint Secy., Govt. of India Information and Broadcasting Deptt., 1941-46; Secy. Food and Civil Supplies Deptt., Punjab, 1946-47; Commissioner, Lahore and Jullundur Division, 1947-48. Financial Commissioner, Rehabilitation and Chief Administrator, Chandigarh Capital Project, Punjab, 1948-53; Adviser, National Planning Commission, New Delhi, 1953-54; Secretary to the Govt. of India, Ministry of Food and Agriculture, Dec. 1954-May 1958. **Address:** Department of Atomic Energy, Apollo Pier Road, Bombay 1.

THIAGARAJAN, Karamuttu, a leading Textile Industrialist of South India; started The Sree Meenakshi Mills, Ltd., 1921; has under his management several textile mills with nearly 4,00,000 spindles and 1,300 looms. **b.** 1893; **Educ.:** St. Thomas' Coll., Colombo. Joined the "Morning Leader" as an apprentice; reported on labour conditions in the plantations in Ceylon; founded a Labour Union; was its Secy. for seven years; was responsible for improving the terms and conditions of employment of estate labour; joined the Congress, 1914; became Secy., Provincial Congress, 1916; was member, A.I.C.C., 1917; led the agitation against the introduction of Hindi in Tamil Nad, 1937; Founder: Madura Insurance Co., Ltd., Bank of Madura Ltd., Thiagarajar Trust for the amelioration of the poor and needy in Tamil Nad; Visalakshi Kalasalai (High School) in Athikadu Thekkur; Thiagarajar Model High School, Madurai; Thiagarajar College, a first grade college at Madurai; Thiagarajar College of Preceptors, Madurai; Thiagarajar College of Engineering, Madurai; Thiagarajar Polytechnic, Salem. **Publication:** *Tamil Nadu*, a leading Tamil Daily in Madurai. **Address:** "Meenakshi Nilayam", Thiruparankundram Road, Madurai.



THIMAYYA, General Kodandera Subayya, Distinguished Service Order (1944). Mentioned in Despatches (1944), and Mentioned in Despatches, Kashmir, 1948, Padma Bhushan (1954), Chief of the Army Staff, Indian Army, since May 8, 1957. **b.** March 31, 1906; **Educ.:** Bishop Cotton Boys' School, Bangalore; Prince of Wales' Royal Indian Milly. Coll., Dehra Dun; Royal Milly. College, Sandhurst, England. Commissioned into Indian Army, 1928; posted permanently to the 4/19 Hyderabad Regt. (later redesignated as the 4th Bn. of Kumaon Regt.), with which he served in Iraq, Allahabad, Fort Sandeman, Quetta, 1927-36; Adjutant, 6th Bn. (Madras) U.T.C., 1936-39; served with 4/19 Hyderabad Regt. in Malaya, 1939-40; proceeded to Burma with 25 Indian Division in May 1944; promoted Lt.-Col. and commanded 8/19 Hyderabad Regt. in operations, 1945; promoted Brigadier in command of a Brigade with 26 Div.; represented Indian Army in surrender ceremony at Singapore; commanded 268 Indian Infantry Brigade in Japan as part of occupation forces in Japan, 1946; member, Indian Armed Forces Nationalisation Cttee.; Military Adviser to Commander, Punjab Boundary Force; Commander, East Punjab Area during boundary troubles; Commander, Indian troops in Kashmir, 1948-50; Commandant, National Defence Academy, Dehra Dun, 1950-51; appointed Military Adviser to U.N. Indian Delegation in Paris, 1951-52, in connection with Kashmir; Q.M.G., A.H.Q., 1951-53; was Chairman, N.N.R.C., Korea; was G.O.C.-in-C., Western Command; G.O.C.-in-C., Southern Command and G.O.C.-in-C., Eastern Command; Officiated as Chief of the Army Staff, Indian Army, March 8, 1957-May 8, 1957. **Recreations:** Riding, Sailing, Golf, Shikar. **Club:** Delhi Gymkhana Club, New Delhi. **Address:** "Sunnyside", Mercara, Coor District, Mysore; Army Headquarters New Delhi.



THOMAS, E. M., B.A., B.L., Deputy Minister for Food, Govt. of India, since May 1957. **b.** June 4, 1912; **Educ.:** St. Thomas' Coll., Trichur; Maharaja's Coll., Ernakulam; Law Coll., Trivandrum. Set up practice in Ernakulam; elected to the Cochin Council, 1948; member, Travancore-Cochin Assembly, 1949-52; was Speaker, 1951; elected to Lok Sabha, 1952; again in 1957. **Address:** Deputy Minister for Food, New Delhi.

THOMAS, R. V., M.L.A., Madras, Business man, b. Aug. 8, 1891; Managing Director, A. V. Thomas & Co. Ltd., and Allied Concerns; controls Planting (Tea, Coffee and Rubber), Engineering, and other companies with a total capital of about four crores; elected to Parliament in the General Elections, 1952; returned to Madras Leg. Assembly in the Gen. Elections, 1957. *Clubs:* Cosmopolitan and Presidency, Madras; Gymkhana, Ooty; Commonwealth Society, London; Constitution Club, Roohana Club and National Sports Club of India, Delhi; Madras Race Club. *Address:* 2/21, First Line Beach, P.B. No. 1603, Madras 1.

THOMAS, Thaiparambil Varghese, B.A., B.L., Minister for Transport & Labour, Kerala State, b. Jan. 2, 1910; *Educ.:* Leo XIII High School, Alleppey; St. Berchman's Coll., Changanacherry (Intermediate); Maharajah's Coll., Ernakulam (B.A.); Jaw Coll., Madras (B.L.). Was leader of the Communist Opposition, Travancore-Cochin State Legislative Assembly, 1952-55; as a student, took part in the struggle for responsible Govt. in Travancore, 1938; became one of the leaders of the radical wing inside the State Congress; began to associate himself with the trade union movement in Alleppey in 1940; was elected Pres., Alleppey Coir Factory Workers' Union; joined the Communist Party, 1943; elected to State Assembly while in jail 1952; was Pres., Kerala State Transport Employees' Union; was Chairman, Alleppey Municipal Council, the first municipality where the Communists secured a majority in 1952; is member, Kerala State Ctee. of the Communist Party; elected to the Assembly, in the general elections, 1957. *Address:* Minister for Transport & Labour, Kerala State, Trivandrum; *Residence:* Thaiparambil House, Alleppey, Kerala State.

THORAT, Lt.-General Shankarrao Pandurangrao Patil, D.S.O., G.O.C.-in-C., Eastern Command, since May 1957. b. Aug. 12, 1906, at Kolhapur; *Educ.:* Had his early education at Poona; was sent to England for military training; was commissioned from Sandhurst, 1926; after attachment for one year with 2nd Bn. the Middlesex Regt., was posted to 1st Bn. the 14 Punjab Regt. at Manzil (Waziristan); became Quarter-master and then Adjutant in the same unit; saw active service in the Mohmand Operations, 1935; took over the command of 2nd Bn., 2nd Punjab Regt. in Arakan, Jan. 1944; won the award of Distinguished Service Order in Arakan front, Jan. 1945; promoted full Col. and appointed Deputy Director of Personnel Services in G.H.Q., April 1956; became Secy., National War Academy with the rank of Brigadier; Director, Staff Duties and Weapons and Equipment, Sept., 1947; promoted Maj. Gen. and appointed G.O.C., Delhi Area, 1948; played a great part in protecting and looking after millions of refugees after the partition; posted to East Punjab as its G.O.C., 1948; appointed Chief of the General Staff, A.H.Q., April 1950; served in Korea as Commander of the Custodian Force, India, 1953; awarded Ashok Chakra Class II for gallantry and Padma Shree for meritorious national service abroad; promoted Lt. Gen. to command a corps, June 1955; is Col. of the Mahar Machine Gun Regt. and Col. Commandant of the Border Scouts. *Recreations:* Classical music; Shikar. *Address:* Eastern Command, Lucknow.

TILAK, Dr. Smt. Shalindabai Vishnu, M.B.B.S. (Bom.), F.R.C.S. (Edin.), Consulting Surgeon, Hony. Obstetrician and Gynaecologist, Sassoon Hospitals, Cantonment General Hospital and Professor, B. J. Medical Coll., Poona. b. at Sholapur; *Educ.:* New English School and Ferguson Coll., Poona; Seth G. S. Medical Coll., Bombay; Royal Infirmary, Edinburgh; took F.R.C.S., 1938. Practised at Matunga, Bombay, 1938-41; was Hon. Obstetrician and Gynaecologist, Wadia Maternity Hospital; Reader and Professor, Medical Coll.,

Agra, 1941-45. *Address:* Tilak Surgical and Nursing Home, 618, Sadashiv Peth, Near Vishrambaug-Wada, Poona 2.

TERPUDE, Nankikrao Khandadu, B.A., (Nag. Univ.), LL.B. (Nag. Univ.), Minister for Social Welfare (including Rehabilitation), Bombay, since April 1957. b. Jan. 1, 1910, at Bhandara (Bombay State); *Educ.:* Manro High School, Bhandara, 1931-38; Morris Coll., Nagpur, 1938-42; passed B.A., 1942; Univ. Coll. of Law, Nagpur, 1942-44; passed LL.B., 1944. Sub-Editor, *Rashtra Doot*, Daily, 1942; Editor, *Arun*, Weekly, 1943; started practice as lawyer at Bhandara, 1945; imprisoned for six months in labour movement, 1949; elected Pres., Independent Labour Party, 1952; founded and organized over 30 institutions, e.g. Girmi Kamgar Sangh, Bidi Labourers Union, Oil Mills Labourers Union, etc.; Pres., Dalt Education Society which manages 16 educational institutions, since 1952; member, Exec. Ctee., Vidarbha Sahitya Sangh; Dy. Minister for Finance, Separate Revenue, Scheduled Castes and Refugees, M.P., 1954-56. *Recreation:* Literary activities. *Address:* Little Gibbs Road, Malabar Hill, Bombay.

TIWARY, Hans Kumar, Hindi Poet; Special Officer, Political and Appointment Deptt., Bihar Govt., since 1951. b. Aug. 1918. Began career as a journalist, 1938; edited a monthly journal *Kishor* at Patna, 1938-42, *Usha* at Gaya, 1942-47. *Publications:* *Rim-jhim;* *Naxana;* *Anagat* (Poems); *Sahityika;* *Sahityayan;* *Sanchayan;* *Kala* (Criticism); *Badla;* *Samanantar;* *Punarabritti* (Fiction); *Bangla Sahitya Ka Itihas.* *Address:* Mansarobar, Gaya, Bihar.

TOLANI, Tarachand Nihalchand, B.E. (Mech.), P.C.E.T. (I.I.Sc.), M.M.E.A., M.I.E.E. Director of Technical Education, Bombay State, since 1956. b. Sept. 12, 1907; *Educ.:* Hyderabad (Hind), Karachi, Poona and Bangalore. Joined Bombay Educational Service, June 1936; Prof. of Mechanical Engineering (1936-39 and 1942-48); War Service (1939-42); Principal, I.D. Coll. of Engineering, Ahmedabad (1948-51); Principal, Coll. of Engineering, Poona (1951-56). Pres., Assoc. of Principals of Technical Institutions, India; member: Central Adv. Board of Education; All-India Council of Tech. Edn.; National Council for Training in Vocational Trades; All India Council for Secondary Education. *Recreations:* Badminton, Table Tennis, Swimming. *Clubs:* Poona Club Ltd., Poona; Cricket Club of India Ltd., Bombay 1. *Address:* Rocky Hill Flats, Malabar Hill, Bombay 6.

TRIKAMDAS, Purshottam, B.A. (Bom.), B.A., LL.B. (Cantab.), Barrister-at-Law, Politician and Praja-Socialist Leader; Senior Advocate, Supreme Court; General Secretary, Indian Commission of Jurists. b. July 7, 1907; *Educ.:* Graduated from Elphinstone Coll. Bombay, 1918; LL.B. from Cambridge, 1922; called to the Bar, 1922. Member, Satyagrah Sabha, 1919; Secy. to Mahatma Gandhi, 1919; Jt. Secy., Swaraj Party, 1924; joined satyagraha movement, 1930; jailed, 1934; founder member, Congress Socialist Party, 1940-45; Ag. General Secy., C.M.P., 1942; detained for satyagraha for 3½ years; member, A.I.C.C., 1945; Chairman, Socialist Party Convention, Nasik, 1948; resigned from Congress; Member, Bombay Leg. Assembly, 1949-52; founder, People's Mobile Hospitals, 1954; Indian Delegate, U.N.O. Assembly, 1954; Member, International Commission of Jurists, 1955. *Publications:* Several plays and a novel in English and Gujarati, articles, pamphlets. *Recreations:* Writing, Tennis, Bridge. *Club:* Willingdon Club, Bombay. *Address:* 105, Sunder Nagar, New Delhi.

TRIPATHI, Kamalapati, Sastri (Kashi Vidyapith), Minister for Home, Education, Information, Govt. Estates and Harijan Welfare, Uttar Pradesh. b. Bhadra Shukla 5, 1902 (Vikram); *Educ.:* Central Hindu School and Kashi Vidyapith. Took to Journalism; was Editor, *Aj* and *Sansar* (Hindi

dailies) for more than two decades; took active part during the freedom movement; courted jail in 1921, 1930, 1932, 1933, 1940 and 1942; awarded the Mangala Prasad Puraskar for 'Bapu Aur Manava', an authoritative book on Gandhian philosophy; elected Pres., Sama Shashtra Parishad in the Bombay Session of the Hindi Sahitya Sammelan, 1946; presided over Prantiya Hindi Sahitya Sammelan, 1947; elected M.L.A., U.P., 1936, 1946, 1952 and 1957; was member, Constituent Assembly and one of the members of Constitution Translation Sub-Ctee. (Hindi); Minister for Irrigation and Information in Pandit Pant's Ministry; after the Second General Elections became Minister for Home, Education and Information. *Publications:* Hindi: *Maurya Kaleen Bharat;* *Islami Duniya ka Sarfat;* *Keen Aur Chiang;* *Bapu Aur Manava;* *Bapu Aur Bharat;* *Handi ki Chetana;* *Patra Aur Patrakar;* *Yug Purush* and *Dapu Ke Charnon Men.* *Address:* Aurangabad, Varanasi.

TRIVEDI, Adarshchander Kamalchander, M.A. (Philosophy) Class II, LL.B., Principal, S. B. Garda College, Navsari since 1945. b. April 15, 1895; *Educ.:*

Poona, Nadiad, Broach, Ahmedabad Govt. High Schools; Guj. College, Ahmedabad; Kiph. Coll., Bombay, Professor of Philosophy, Baroda College for 30 years; Fellow, Syndic, A. C. member, P. G. Board member; member, Sanskrit, Gujarati, Philosophy Boards for years, Bombay University, now of Gujarat University; Chairman, Sanskrit and Philosophy Boards for some time, Bombay University, now of Pay. Board, Guj. Univ.; was Fellow, Sayajirao Univ.; Fellow and past Syndic, Gujarat Univ.; Swagatadhyaksha, Navsari Guj. Parishad Sammelan, 1952; Chairman, Arts Terminology Ctee., Gujarat Univ. *Publications:* *A Manual of Ethics;* *Psychology;* *Studies in Deductive Logic;* *Studies in Inductive Logic;* both in Gujarati too; *Logic in an Easy Chair;* in Gujarati; *Nivritti Vinoda;* *Sahitya Vinoda;* *Pravara Vinoda;* *Atma Vinoda;* *Pathya-Bhadr-Vyakarana;* *Madhyamika Manovijnana;* *Samanya Manovijnana*, etc. Presented publicly a Commemorative volume by Governor Sri Prakasa. *Address:* Havadia Chakla, Surat.



TRIVEDI, Sir Chandulal Madhavji, K.C.S.I. (1945), Kt. Bach. (1945), C.S.I. (1941), C.I.E. (1935), O.B.E. (1931), LL.D. (Honoris Causa, Punjab Univ.), Doctor of Letters (Honoris Causa), Andhra Univ., Padma Vibhushan, 1956. Member, Planning Commission, Govt. of India. b. July 2, 1893; *Educ.:* B.A. from Elphinstone College, Bombay, 1913; St. John's College, Oxford. Entered I.C.S., 1917; Under-Secy. to C.P. & Berar Govts.; Dy. Secy. and Offg. Jt. Secy. to Govt. of India Home Deptt.; Commissioner in various divisions in C.P. & Berar; Chief Secy. to Govt., C.P. and Berar; Addl. Secy., Deptt. of Communications, Govt. of India, March-June 1942; Secy., War Deptt., Govt. of India, New Delhi until 1946; Governor of Orissa, April 1946 to August 1947; Governor of Punjab, Aug. 15, 1947-March, 1953; Governor, Andhra State, Oct. 1, 1953-Oct. 31, 1956; Governor of Andhra Pradesh, Nov. 1, 1956-July 1957. *Address:* New Delhi.

TRIVEDI, Vishvasprasad Ranchhodlal, M.A. (Bombay), Gujarati Critic; Professor of Gujarati, M.T.B. College, Surat. b. July 4, 1899, at Unreth, Dist. Kaira; *Educ.:* Thakra, Nadiad and Ahmedabad. Professor and Life Member, Sarvajanic Education Society, Surat, since 1923; twice sectional Chairman, Gujarati Sahitya Parishad; Thakkar Vasantji Madhavji Lecturer of Bombay Univ.; Fellow and member of the Academic Council, Gujarat Univ.; Member of the General Council, Sahitya Akademi, Delhi. *Publications:* *Vivechana;* *Parishilan;* *Aravali Chintanamat Gadya.* *Address:* M.T.B. College, Surat.



TURNER, William T., B.Sc., Consul General for the U.S.A., Bombay. *b.* 1900; *Educ.*: Emory Univ., Georgia, U.S.A. Thirty-four years in the U.S. Foreign Service; assigned to posts in Japan, China, Thailand and Canada. *Address*: American Consulate General, Lincoln House, 78-B, Desai Road, Bombay.

TYABJI, H. E. Badruddin Fais Hasan Badruddin, B.A. (Honours), Indian Ambassador to West Germany since July 1958. *b.* Nov. 12, 1907; *Educ.*: St. Xavier's School and College, Bombay; Balliol College, Oxford. Passed the I.C.S. in London, 1931; served in the Punjab as Asstt. Commissioner, Under-Secy., Finance, Home & Political, 1932-38; Under-Secy., Govt. of India, Defence Department, 1938-39; Dy. Commissioner in the Punjab, 1940-42; Controller of Supplies, Govt. of India, Karachi and Bombay, 1942-44; Dy. Secy., Govt. of India, Planning and Development, 1944-46; Dy. Secy. and Joint Secy., Constituent Assembly, Secretariat and Ministry of External Affairs and Commonwealth Relations, 1946-48; Chargé d'Affaires, Indian Embassy, Brussels, Belgium, 1948-50; Jt. Secy., Ministry of External Affairs, 1950-52; Commonwealth Secy., 1952-53; Ambassador in Indonesia, March 1954-July 1956; Ambassador in Iran, 1956-58. *Recreations*: Riding, Hunting, Fishing, Literature, Music and Arts. *Clubs*: Delhi Gymkhana Club; Willington Sports Club, Bombay. *Address*: C/o Ministry of External Affairs, New Delhi.

TYABJI, Mrs. Khadija Shum, Ex-J.P., Hony. Presidency Magistrate; ex-M.L.A., Bombay State. *b.* 1885. A. n. e. l. e. c. t. e. d. m. e. m. b. e. r. o. f. t. h. e. M. u. n. i. c. i. p. a. l. C. o. r. p. o. r. a. t. i. o. n. a. n. d. t. h. e. f. i. r. s. t. e. l. e. c. t. e. d. M. u. s. l. i. m. l. a. d. y. m. e. m. b. e. r. o. f. t. h. e. S. c. h. o. o. l. s. C. o. m. m. i. t. t. e. e.; a m. e. m. b. e. r. o. f. t. h. e. S. c. h. o. o. l. s. C. o. m. m. i. t. t. e. e. f. o. r. s. e. v. e. r. a. l. y. e. a. r. s. i. t. s. C. h. a. i. r. m. a. n., 1934; f. i. r. s. t. C. o. m. m. i. s. s. i. o. n. e. r. M. u. n. i. c. i. p. a. l. G. i. r. l. G. u. i. d. e. s.; w. a. s. S. t. a. t. e. C. o. m. m. i. s. s. i. o. n. e. r. (G. u. i. d. e. s.), T. h. e. D. h. a. r. a. t. S. c. o. u. t. s. a. n. d. G. u. i. d. e. s.; p. r. e. s. i. d. e. d. a. t. t. h. e. B. o. m. b. a. y. P. r. e. s. i. d. e. n. c. y. M. u. s. l. i. m. L. a. d. i. e. s. E. d. u. c. a. t. i. o. n. a. l. C. o. n. f. e. r. e. n. c. e., P. o. o. n. a., 1926; C. h. a. i. r. m. a. n., R. e. c. e. p. t. i. o. n. C. o. m. m. i. t. t. e. e. o. f. t. h. e. B. o. m. b. a. y. C. o. n. s. t. i. t. u. e. n. t. C. o. n. f. e. r. e. n. c. e. o. f. A. l. l. - I. n. d. i. a. E. d. u. c. a. t. i. o. n. a. l. a. n. d. S. o. c. i. a. l. R. e. f. o. r. m. s., 1930; w. a. s. V. i. c. e. - C. h. a. i. r. m. a. n., N. a. t. i. o. n. a. l. C. o. u. n. c. i. l. o. f. W. o. m. e. n. i. n. I. n. d. i. a.; w. a. s. C. h. a. i. r. m. a. n., L. o. c. a. l. C. o. m. m. i. t. t. e. e. o. f. t. h. e. A. l. l. - I. n. d. i. a. C. o. n. f. e. r. e. n. c. e. o. n. E. d. u. c. a. t. i. o. n. a. l. a. n. d. S. o. c. i. a. l. R. e. f. o. r. m. s.; C. h. a. i. r. m. a. n., R. e. d. C. r. o. s. E. x. e. c. u. t. i. v. e., 1928; V. i. c. e. - P. r. e. s. i. d. e. n. t., S. o. c. i. a. l. S. e. r. v. i. c. e. L. e. a. g. u. e.; C. h. a. i. r. m. a. n., M. a. h. i. l. a. S. e. v. a. M. a. n. d. a. l.; w. a. s. C. h. a. i. r. m. a. n., n. o. w. m. e. m. b. e. r., P. o. r. t. H. a. j. C. o. m. m. i. t. t. e. e.; f. o. u. n. d. e. d. a. M. u. s. l. i. m. P. u. r. d. a. h. N. u. r. s. i. n. g. D. i. v. i. s. i. o. n., f. i. r. s. t. o. f. i. t. s. k. i. n. d. i. n. t. h. e. w. o. r. l. d.; a. p. p. o. i. n. t. e. d. A. s. s. o. c. i. a. t. e. S. e. r. v. i. c. i. n. g. S. i. s. t. e. r., O. v. e. r. s. e. a. s. B. r. i. g. a. d. e., S. t. J. o. h. n. A. m. b. u. l. a. n. c. e., 1937; C. h. a. i. r. m. a. n., A. l. b. i. e. s. s. a. n. d. C. a. n. n. a. H. o. s. p. i. t. a. l. A. d. v. i. s. o. r. y. B. o. a. r. d. a. n. d. i. s. a. l. s. o. c. o. n. n. e. c. t. e. d. w. i. t. h. t. h. e. f. o. l. l. o. w. i. n. g. i. n. s. t. i. t. u. t. i. o. n. s. f. o. r. m. a. n. y. y. e. a. r. s. - G. o. v. t. U. r. d. u. T. e. x. t. B. o. o. k. C. o. m. m. i. t. t. e. e.; I. n. f. a. n. t. W. e. l. f. a. r. e. S. o. c. i. e. t. y.; T. h. e. B. o. m. b. a. y. M. o. t. h. e. r. s. a. n. d. C. h. i. l. d. r. e. n. W. e. l. f. a. r. e. S. o. c. i. e. t. y.; S. o. c. i. e. t. y. f. o. r. t. h. e. P. r. o. t. e. c. t. i. o. n. o. f. C. h. i. l. d. r. e. n. i. n. W. e. s. t. e. r. n. I. n. d. i. a.; T. h. e. N. a. t. i. o. n. a. l. B. a. b. y. W. e. e. k.; E. x. e. c. u. t. i. v. e. C. o. m. m. i. t. t. e. e., G. o. v. e. r. n. o. r. s. H. o. s. p. i. t. a. l. F. u. n. d.; A. d. v. i. s. o. r. y. C. o. m. m. i. t. t. e. e., J. J. a. n. d. A. l. l. i. e. d. H. o. s. p. i. t. a. l. s.; S. e. v. a. S. a. d. a. n. C. o. u. n. c. i. l.; B. o. m. b. a. y. P. r. e. s. i. d. e. n. c. y. W. o. m. e. n. s. C. o. u. n. c. i. l.; a. s. C. h. a. i. r. m. a. n., F. l. a. g. D. a. y. C. o. m. m. i. t. t. e. e., c. o. l. l. e. c. t. e. d. R. s. 22,000 i. n. o. n. e. d. a. y. f. o. r. t. h. e. A. n. t. i. - T. u. b. e. r. c. u. l. o. s. i. s. F. u. n. d.; P. r. e. s. i. d. e. n. t., A. l. l. - I. n. d. i. a. E. d. u. c. a. t. i. o. n. a. l. C. o. n. f. e. r. e. n. c. e., W. o. m. e. n. s. S. e. c. t. i. o. n., P. o. o. n. a., 1940; m. e. m. b. e. r., W. a. r. G. i. f. t. s. F. u. n. d., L. a. d. i. e. s. C. o. m. m. i. t. t. e. e.; a. w. a. r. d. e. d. K. a. i. s. e. r. - I. I. I. n. d. S. i. l. v. e. r. M. e. d. a. l., 1935; G. o. l. d. M. e. d. a. l., 1941; a. p. p. o. i. n. t. e. d. m. e. m. b. e. r. o. f. H. e. a. l. t. h. S. u. r. v. e. y. a. n. d. D. e. v. e. l. o. p. m. e. n. t. C. o. m. m. i. t. t. e. e., G. o. v. e. r. n. m. e. n. t. o. f. I. n. d. i. a., N. o. v. 1943; w. a. s. P. r. e. s., S. e. v. a. S. a. d. a. n. S. o. c. i. e. t. y., *Address*: Khatau Mansion, Oomer Park, Warden Road, Bombay 26.



TYAGI, Mahavir, M.P., Ex-Minister for Defence Organisation, Govt. of India. *b.* 1900, Dhabari Village, Moradabad Dist. (U.P.); *Educ.*: Privately. Has been a staunch Congressman; courted jail eleven times for

Congress activities; member: A.I.C.C.; Constituent Assembly of India, 1946-49; Provisional Parliament, 1950; ex-member, U.P. Leg. Assembly; organised Tyagi Police, U.P., Aug. 1947; returned to the Lok Sabha from Dehra Dun District-cum-Bijnor Dist. (North-West)-cum-Saunpur Dist. (West) Constituency, U.P. in the general elections. Minister of Revenue and Expenditure, Govt. of India, 1951-53; Chairman, Direct Taxes Administration Enquiry Committee. *Address*: C/o Secretary, Lok Sabha, New Delhi.

UKIL, Ranada, Painter Lecturer, Women's College, Patnas Hindu Univ. and Director, Ukil's School of Art, Banaras. *b.* Sept. 5, 1900; *Educ.*: Govt. Coll. of Art at Calcutta and Royal College of Art, London; was Govt. of India scholar; was commissioned twice to do the Mural Painting in India House, London; their Majesties George V and Queen Mary, and Sir William Rothenstein were greatly impressed by his work; was honoured by Queen Mary who bought his painting "Shahjahan's Dream of the Taj" in an Arts Exhibition in New Bond Street, London. *Address*: Ukil School of Art, Bhelupura, Varanasi (Banaras).

UMAMAHESWARAM, Mr. Justice Konda- gunda, B.A., B.L., Judge, Andhra Pradesh High Court, Hyderabad, since Nov. 1, 1956. *b.* June 4, 1903. *Educ.*: Presidency Coll. and Law Coll., Madras; joined the Madras Bar, July 27, 1925; member, Madras Bar Council, 1947-53; Judge, Madras High Court, Nov. 26, 1953, July 1954; transferred to Guntur when the High Court of Andhra was formed, July 1954; Judge, Andhra High Court, 1954, 56. *Address*: Andhra Pradesh High Court, Himayatnagar, Hyderabad.

UNTWALIA, Mr. Justice Nandlal, B.A., B.L., Addl. Judge, High Court, Patna, since Jan. 2, 1958. *b.* Sept. 2, 1915; *Educ.*: Sitaamarhi H. E. School; G. B. B. Coll., Muzaffarpur; Univ. Law Coll., Calcutta; passed B.A., 1937; B.L., 1940. Practised as a Pleader at Muzaffarpur, from Nov. 1940; enrolled Advocate, March 1944; shifted practice to Patna, March 1947. *Recreations*: Chatting; Reading. *Clubs*: Bankipore Club, Patna. *Address*: Kudamkuan, Patna.

UPADHYA, Mr. Justice Bakram, M.A., LL.B., Judge, High Court of Judicature, Allahabad, since March 1955. *b.* June 18, 1901; *Educ.*: Govt. High School, Sagor; Model High School, Jabalpur; Banaras Hindu Univ. Was a part-time Prof. of Law, Banaras Hindu Univ. for about three years; joined the Bar at Banaras, July 1925; shifted to the High Court at Allahabad, Dec. 1943; was a leading taxation lawyer in northern India; has been the Company Judge in the Court for over three years; took part in social and cultural activities at Banaras; was member, Managing Ctee. of the Kashi Nagari Pracharini Sabha and Pres., Nagari Natak Mandali for many years; was a member, Court, Exec. Council and Senate of the Banaras Hindu Univ. for several years. *Address*: Tagore Town, Allahabad.

UPADHYAYA, Pt. Deendayal, B.A., L.T., General Secretary, Bharatiya Jana Sangh, since 1953. *b.* Oct. 10, 1917, at Farah village, Dist. Mathura, U.P. *Educ.*: Matriculated from Sikar, Jalpur State; Intermediate (Arts) from Birla Coll., Pilani; graduated from S. D. Coll., Kanpur, 1939; L. T. from Govt. Training Coll., Allahabad, 1942. Joined the Rashtriya Swayamsewak Sangh; became R.S.S. Organizer, 1942; Managing Director, Rashtra Dharma Prakashan Ltd., Lucknow, 1947-52; Joint Provincial Organizer, R.S.S. in U.P., 1945-51; General Secy., Bharatiya Jana Sangh, U.P., 1951-53. *Publications*: In Hindi: *Jagadguru Shankaracharya; Chandragupta Maurya; Mahan Vahvaughat*; In English: *The Two Plans: Promises, Performance and Prospects. Recreations*: Reading, Writing. *Address*: Bharatiya Jana Sangh, Ajmeri Gate, Delhi 6.

UPPAL, Dr. Sadri Nath, Ph.D. (Iowa), Fellow, Indian Academy of Sciences, National Institute of Sciences; M.B.E. (1945); Padma Shri (1950). Agricultural Commr., Govt. of India, since Aug. 1952. *b.* August 6, 1899; *Educ.*: Punjab Univ.; Iowa State Coll. of Agriculture (U.S.A.); Rothamsted Experimental Station (England); Rockefeller Inst. for Medical Research (Princeton), Wisconsin Univ. Research Fellow, Iowa Agric. Exp. Station; Plant Pathologist to Govt., Bombay State; Principal, Coll. of Agri., Poona; Director of Agriculture (Research and Education), Director of Agriculture, Bombay till Aug. 1952. *Publications*: Scientific papers. *Address*: Indian Council of Agricultural Research, Queen Victoria Rd., New Delhi.

VAIDIALINGAM, Mr. Justice C. A., B.A., B.L., Judge, High Court, Kerala, since March 26, 1957. *b.* June 30, 1907; *Educ.*: P. B. High School, Mysapore; Presidency Coll., Madras; Law Coll., Madras. Enrolled as Advocate, High Court, Madras, Aug. 13, 1931; co-opted as Member, Bar Council, 1948; elected to the Bar Council, 1950 and 1955; constructed and endowed a women-children ward in the Govt. Hospital at Chittur; appointed Govt. Pleader, Madras, Nov. 1953; Amicus Curiae Counsel in the enquiry in the Ariyalur Railway accident, 1950. *Address*: 'Sharada Vilas', Thevara Road, Ernakulam-1.

VAIDYA, Musarji Jadavji, B.Com., F.R.E.S. (Lond.), J.P., Industrialist; also Hon. Consul for the Federal Republic of Austria; President, Indian Merchants' Chamber, 1956. *b.* Oct. 2, 1908; *Educ.*: Tutorial High School and Sydenham Coll. of Commerce & Economics, Bombay. Established the Bombay Silk Mills, 1932; Leader: Exploratory Mission sponsored by the Indian Council of Foreign Trade, to Egypt, Sept. 1953; Industrial Delegation to Japan and South-East Asian Countries, Oct. 1953; a delegate to the International Silk Congress, Milan, Oct. 1953; Chairman: All India Manufacturers' Organisation, 1953-56; Indian Council of Foreign Trade; Vice-Chairman: Silk and Art Silk Mills Assoc. Ltd., 1941-55; Silk and Art Silk Mills Research Assoc., 1950-55; member: Central Advisory Council of Industries, 1950-56; Central Silk Board and its Standing Ctee.; Pres. Bombay Productivity Council; Indo-Pan-American Assoc.; Vice-Pres.: Indo-Japanese Assoc.; Forum of Free Enterprise; visited U.S.A. at the invitation of Far East-America Council of Commerce and Industry, New York, Sept. Oct. 1958. *Publications*: Monographs: *High Rate of Exchange, Office Organisation in Bombay, Industrialism in India*, etc. *Address*: Jadavji Mansions, 3, Cuffe Parade, Colaba, Bombay 5.

VAIDYA, Vijayaraj Kalyanraj, B.A. (Engg.) (Hons.) (Bombay), Gujarati Critic; Author & Literary Journalist. *b.* April 7, 1897; *Educ.*: Wilson Coll., Bombay; Samuldas Coll., Bhavnagar; passed B.A. (Hons.), 1920. Bank Cashier, 1920-21; Editor: *Chitra*, 1920-23; *Kaumudi* (1924-35); *Manasi*, since 1935; Prof. of Gujarati, M.T.B. Coll., Surat and Commerce Coll., Bhavnagar, 1937-52. *Publications*: *Gujarati Sahityani Ruprekha* and 18 other books. *Address*: 1582, Krishna Nagar, Bhavnagar.

VAIPEYI, Ambikaprasad, Sahitya Vachaspati (1942), Hindi Writer. *b.* Dec. 30, 1880; *Educ.*: Kanpur and Imperial Library, Calcutta, Sub-Editor, Hindi Bangsali, Calcutta, 1905; Lecturer in Hindi, Bengal National Coll., Calcutta, 1909; Editor, *Bharatamitra*, 1911; Founder and Editor, *Dainik Bharatamitra*, 1912; Founder and Editor, *Swatantra*, 1920; Examiner, Calcutta Univ., 1928-45; Pres., Hindi Sahitya Sammelan, 1939; member, Leg. Council, 1952-58. *Publications*: *Persian Influence on Hindi*, Calcutta; Hindi Edition of the above; *Hindurajya Sastra*; *Abhinava Hindi Viakaran*, etc. *Address*: Nazarbagh, Lucknow.

VAKHARIA, Jayantilal G., Managing partner, Standard Silk Mills, Surat, with branch at Takwadi, Retham Bazar, Kalbadevi, Bombay. b. Aug. 15, 1913 at Surat; *Educ.*: Narvaianik High School, Surat; M. T. B. Coll., Surat (F.Y.A.). After leaving the college joined the Surat Silk Goods Mills where his father was a partner, 1933; acquired thorough technical knowledge in various sections — preparatory, loom, weaving, dyeing, bleaching, finishing etc., and labour and management; Works Manager and Office Manager, 1936-48; started his own Mills the Standard Silk Mills, at Vadital Devdi Road, Lal Darwaja, 1950; erected the factory building and installed new machinery for dyeing, finishing, modern hot air sizing, padding, polymerising, flock printing machines; In 1955 visited the continent for higher technical studies in the production of rayon and nylon fabrics, the latest being the flock and pigment screen printing; ex-Pres., Surat Chamber of Commerce; Pres., Rotary Club of Surat; Vice-Pres., Ashaktashram, Surat; Director, Silk & Art Silk Mills Assoc., Ltd., Bombay; member, Standing and Administrative Cttees. of the Silk and Rayon Textiles Export Promotion Council, Bombay. *Recreations*: Badminton; Table Tennis. *Clubs*: Rotary Club of Surat; Lodge Hamilton No 584 M.C. *Address*: Lal Darwaja, Vatal Devdi Road, Surat; *Residence*: Navapura, Kurwa Road, Surat.



VAKIL, Chandulal Nagindas, M.A. (Bom.), M.Sc. (Econ.) (London), Director, UNESCO Research Centre on the Social Implications of Industrialisation in Southern Asia, Calcutta. b. Aug. 22, 1895; *Educ.*: Bombay and London. On the staff of the University School of Economics and Sociology, Bombay, 1921-56; Director of the School, 1930-56; Pres., Indian Economic Conference, Patna, 1934; Economist to the Planning Dept., Govt. of India, 1945-46; Pres., Indian Agricultural Economic Conference, Trivandrum, 1952; Member, Experts' Cttee., I.L.O., July 1956; member, Panel of Experts on Industrial Management, U.N., Sept. 1957. *Publications*: *Financial Developments in Modern India, 1860-1924* (1925); *The Falling Rupee* (1943); *The Financial Burden of the War on India* (1943); *Economic Consequences of Divided India* (1950); *Planning for a Shortage Economy* (1952); *Economic Survey of Saurashtra* (1953); *Planning for an Expanding Economy* (1956) and others. *Recreations*: Walking, Cinema. *Address*: UNESCO Research Centre, P.O. Box 242, Calcutta.

VALA: Thakore Sahab Raul Shree Gambhirsinhji, Thakore Sahab of. b. April 75, 1889; *Educ.*: Harrow and Clare College, Cambridge; Imperial Cadet Corps, Dehra Dun. Succeeded to the Gadi, June 5, 1943; acceded to the Union of India, Aug. 27, 1947; entered into the Covenant for the formation of the United State of Saurashtra, Jan. 22, 1948. *Heir*: s. Yuvaraj Shree Pravinchandrasinhji, b. October 15, 1925. *Address*: Palace, Valabhipur, Bombay State.



VARADARAJAN, Dr. M., M.A., M.O.L., Ph.D. (1947), Tamil Essayist; Professor of Tamil, Pachaiyappa's College, Madras. b. 1912; *Educ.*: Madras Univ. Member: Academic Council, Board of Studies and Senate, Univ. of Madras; Board of Studies in Tamil, Annamalai Univ.; Board of Studies in Tamil, Mysore Univ.; Sahitya Akademi, Delhi; Academy of Tamil Culture, Madras 30; got the Award of the State Govt., Madras during the centenary celebrations of the 1857 uprising, in recognition of his services to Tamil literature.

Publications: Author of 8 novels, 2 short-story collections, 3 biographies, 15 works of literary criticism, etc. *Address*: Chellammal Street, Madras 30.

VARMA, Bhagwati Charam, B.A., I.L.B., Hindi Writer. b. Aug. 30, 1903; *Educ.*: Christ Church Coll., Kanpur; Allahabad Univ. Published his first poem in 'Pratap', Kanpur, 1918; set up practice as a lawyer at Kanpur, 1928; settled at Allahabad as a writer, 1931; joined Film Corporation of India, Calcutta, 1937; resigned, 1938; started a Hindi Weekly from Calcutta, 1940; had to close the weekly due to political reasons, Feb. 1942; was with the Bombay Talkies till 1945; took to freelancing; Editor-in-Chief, 'Navajeevan', Lucknow, Feb.-Dec. 1948; joined All India Radio as Hindi Adviser, Lucknow, 1950, transferred to Delhi, 1953; returned to Lucknow, 1956; resigned and settled down as professional writer, 1957. *Publications*: Novels: *Patni*, 1930; *Chitralekha*, 1933; *Teenwarsh*, 1936; *Terhemerhe Rast*, 1940; *Akhiri Daan*, 1951; *Apne Khilone*, 1957; Poetry: *Madhukan*; *Prem Sangret*; *Manav*; *Tripadga*; Plays: *Bujhtha Deepak*; *Rupyatamhe Khagaya*; *Vasavadata*; *Essays*: *Hamari Ulfan*. *Recreations*: Tennis, Hiking. *Address*: 37, Bhabeshwarnath Road, Lucknow.

VARMA, Dhiresandra, M.A. (Allahabad), D. Litt. (Paris). b. May 17, 1897; *Educ.*: Dehra Dun, Lucknow, Allahabad and Paris. Patron, Bharatiya Hindi Parishad. *Publications*: *History of Hindi Language* (1933)—Hindi; *La Langue Braj* (1935)—French; *Brajbhusha Grammar* (1937)—Hindi; *Letters from Europe* (1940)—Hindi; *Vichardhara*—Collection of essays (1944)—Hindi; *Braj Bhusha* (1954); *Sursagarar* (1954); *Madhyadendra* (1955); *My College Diary* (1958); *Hindi Sahitya Kosha* (1958). *Address*: "Shri Chandraloka," 1 c Bund Road, Allahabad.

VARMA, Paripurnanand, Vice-Pres., UNO's First World Congress on Crime Prevention, Geneva; Pres.: U.P. Educational Ministerial Assoc.; All-India Crime Prevention Society, Lucknow, since 1949; Director, L.R. Engineering Works Ltd., Bombay & Kanpur; Pres., U.P. Art & Culture Society; member, Labour Welfare Advisory Board, U.P. b. Feb. 7, 1907; *Educ.*: Graduated from Kasli Vidyalaya, Banaras in History, Economics and Politics. Professor of English, Prem Maha Vidyalaya, Brindaban, 1927; Editor, *Prem*, Brindaban, 1927-28; Joint Editor, *Lokmat*, Jabalpur, 1930-32; Editor, *Prema*, 1932-33; Manager, Bharti Bina Ltd., Banaras, 1935-38; Zone Secretary, The Empire of India Life Assurance Co. Ltd., Kanpur (1946-47); Pres.: Varanasi Consumers' Co-operative, 1958-59; Anjuman-i-Taraqqi Urdu-Hindustani Brindari, Kanpur and Banaras; Hindi Bhawan Trust, Kalpi; Adarsha Vyamshala, Kanpur, etc. *Address*: Behari Niwas, Kanpur.

VARMA, Parmeshari Lal, B.A. (Hons.), C.E. (Hons.), M.B.E. (1938), M.T.E. (India), D.I.C. (London), Member, Union Public Service Commission since Nov. 1956. b. May 21, 1901. *Educ.*: B.A. (Hons.), Govt. Coll., Lahore, 1921; C.E. (Hons.), Thomason Engg. Coll., Roorkee, 1924. Public Works Dept., Buildings & Roads, Punjab, 1924; Executive Engineer, 1937; Under Secretary to the Govt. of Punjab, 1942; Superintending Engineer (Planning) for the Post-War Planning Scheme, 1945; sent to the U.S.A. as leader of the Road Delegation of the Govt. of India, 1947; Chief Engineer & Secy. to the Punjab Govt., Development Organization, 1948; Chief Engineer, Chandigarh Capital Project, 1950; Chief Engineer & Secy. to Govt. of Punjab, P.W.D. Bldgs. & Roads Branch in addition to duties as Chief Engineer & Secy. and Chief Administrator, Chandigarh Capital Project, till Nov. 1956. *Address*: Member, Union Public Service Commission, New Delhi

VARMA, Vrindavan Lal, B.A., LL.B., Barrister-at-Law, Hindi Writer. b. Jan. 9, 1889; *Educ.*: Victoria Coll., Gwalior; Agra Coll., Agra; called to the Bar, 1916. Formed Neva Samiti to fight against the pneumonic plague of 1918; Chairman: Education Cttee., Jhansi Municipal Board, 1926-30; Jhansi Dist. Board, 1936-48; Managing Director, Jhansi Dist. Co-operative Bank, since 1928, with a break of 3 years. *Publications*: 24 novels, 22 plays and about 200 short stories beginning from 1909; *Laxmibai of Jhansi* (novel), which has been translated into Russian, Czech and Indian languages. *Recreations*: Shikar; Music. *Address*: C/o Mayur Prakashan, Jhansi, U.P.

VARAN, S. S., Managing Editor, *Ananda Vikatan*, a leading nationalist weekly; Proprietor, Gemini Studios, Madras; Managing Dir., Gemini Pictures Circuit Private Ltd. b. 1903, at Tiruthuralpundi, Tanjore Dist. Took to journalism at an early age and started a Tamil journal, *Ananda Vikatan*, 1928; pioneer in introducing the unique feature of caricatures in South India through this weekly; was once a keen punter; turned to film business, 1939; founded the Gemini Studios, 1941; as a producer, occupies a prominent position in the world of talkies; member, Indian and Eastern Newspaper Society; is a shareholder of P.T.I. *Address*: 'Gemini House,' Edward Elliot Road, Mylapore, Madras 4.

VASAVADA, Shamprasad Rupahankar, M.A., Pres., National Federation of Indian Railwaymen; General Secy., Indian National Trade Union Congress, 1954-59. b. Feb. 16, 1903; *Educ.*: Primary and secondary education at Rajkot; graduated with Honours from Bahaudin Coll., Junagadh, 1925; M.A. Degree with History and Economics, 1927. Joined the Textile Labour Assoc., Ahmedabad, April 1929; elected one of the Secys. of the Assoc., 1948; Municipal Councillor, Ahmedabad, 1936-50; served for several years as Chairman, Sanitary Cttee., Ahmedabad Municipality; elected M.L.A., Bombay, 1950; again 1952; was Pres., Indian National Textile Workers' Federation for six years; Pres., I.N.T.U.C., 1954-57. *Address*: Gandhi Majoror Sevayaya, Bhadra, Ahmedabad.

VAZIFDAR, Khan Bahadur Captain N. J., M.B.E., L.M. & S., F.O.P.S., F.C.S. (Lond.), Hon. Secy., St. John Ambulance Association, Bombay State Centre, Bombay; Dist. Surgeon and Dist. Supdt., St. John Ambulance Brigade No. 3, Dist. Bombay; Hon. Secy., Hind Kushi Nivaran Sangh (Indian Leprosy Assoc.); Retired Chemical Analyst to Government of Bombay and Professor of Forensic Medicine, Grant Medical College, Bombay. Fellow of the Indian Chemical Society; Examiner in Chemistry, in Physiology, in Medical Jurisprudence and Mental Diseases in the Univ. of Bombay; Examiner in Physiology and Medical Jurisprudence and Hygiene, College of Physicians and Surgeons of Bombay; Examiner in Biochemistry for the M.Sc. Examination of the Bombay Univ.; Examiner in Forensic Medicine in the University of Lucknow and Medical Examination Board, Nagpur; Examiner in Technical and General Chemistry, Victoria Jubilee Technical Institute, Bombay; President, College of Physicians and Surgeons, Bombay (1937-40 and 1953-54). *Publications*: *Physiology of the Central Nervous System and Special Senses* (9th edition) and *Synopsis of Physiology* (8th edition), etc. *Address*: Geeta Bhavan, 93, Warden Road, Bombay 26.



VELANKAR, Hari Damodar, M.A., Sanskrit scholar; Joint Director, Bharatiya Vidya Bhavan, Bombay, since May 1952. b. Oct. 18, 1893; *Educ.*: Maratha High School and Wilson Coll., Bombay; obtained 1st class and

Bhandaji Prize at the B.A. examination, Bombay Univ., 1915 and M.A., 1918. Professor of Sanskrit and Head of the Deptt., Wilson Coll., till May 1952; elected Pres., Vedic Section of the All India Oriental Conference, 1946; member (nominated by Bombay Govt.), Exec. Cttee. of the Deccan Coll. P.G. and Research Institute and Bhandarkar Oriental Research Institute, Poona. *Publications*: English translation of Rigvedic hymns and several manuals of Prakrit and Apabhramsa metres; *Jinaratnakosa*, Vol. I (1944); Vol. II under preparation. *Address*: Office: Joint Director, Bharatiya Vidya Bhavan, Chowpatty, Bombay 7. *Residence*: 10/2, Shastri Hall, Bombay 7.

VELLODI, M. K., B.A., I.C.S., Ambassador to Switzerland, since May 1958. b. Jan. 14, 1896; *Educ.*: Zamorin's Coll., Kozhikode; Presidency Coll., Madras; Oxford Univ. Joined I.C.S., Nov. 1921; Jt. Secy., Board of Revenue, Madras, 1938; Chief Secy., Govt. of Orissa, 1939; Textile Commissioner, Govt. of India, 1943; Dy. High Commissioner for India in U.K., 1945; Leader, Indian Delegation to Maritime Conference, Copenhagen, 1945; Seattle, 1946; attended General Assembly, U.N., 1947; represented India at the meeting of the Security Council in connection with Kashmir, Jan.-May 1948; Secy., Ministry of States, Govt. of India, Oct. 1948-Nov. 1949; Chief Minister, Hyderabad, 1949-52; State Counsellor, Hyderabad, 1952-53; Secy., Ministry of Works, Housing and Supply, 1953; Secretary, Ministry of Defence, 1953-57; Secretary to the Cabinet, Govt. of India, 1957-58. *Address*: Berne, Switzerland.

VENKATACHARI, Cadambai Seshachari, B.A., I.C.S., C.I.E., O.B.E., High Commissioner to Canada, since September 1958. b. July 11, 1899; *Educ.*: Presidency College, Madras; University College, London; Trinity College, Cambridge. Entered Indian Civil Service by open competition in London and posted to U.P., 1923; served in Political Dept. of Govt. of India in various capacities at Rajkot, Baroda and Indore, 1927-33; Rural Development Commr., U.P., 1935-37; Agent to Govt. of India in Malaya, 1937-41; became Commr. of Allahabad Divn., 1943; Prime Minister, Jodhpur, 1946-47 and Bikaner, 1948-49; member, Constituent Assembly of India, 1947-48; Chief Minister, Rajasthan, Jan. to April 1951; Secretary, States Ministry, 1951 to 1955; Secretary to the President of the Indian Republic, 1955-58. *Recreations*: Reading, Motoring and Travelling. *Address*: C/o Ministry of External Affairs, New Delhi.

VENKATAPILLAI, Barra, M.A., Deputy Governor, Reserve Bank of India. b. Oct. 4, 1907; *Educ.*: P. R. Coll., Kakinada; Presidency Coll., Madras; London Univ. Joined I.C.S., Oct. 1932; served in Bombay State as Asstt. Collector and Collector (1932-40); Deputy Secy., Finance Deptt. (1940-42); Joint Secy., Finance Deptt. (1942-46); Secy., Finance Deptt. (1946-50); Executive Director, Reserve Bank, Oct. 1950-July 1955; member, Cttee. of Direction, All-India Rural Credit Survey (1951-54), Taxation Enquiry Commission (1953-54), and Rural Banking Enquiry Cttee. (1949-50); Expert Cttee. on the Futures Markets (Regulation) Bill (1950); One-man Cttee. to enquire into past purchases of the Bombay State Road Transport Corporation (1956), etc.; Director on the Boards of State Bank of India, Industrial Finance Corporation of India, National Co-operative Development and Warehousing Board and Central Warehousing Corporation. *Address*: Bombay 1.

VENKATARAMAN, Dr. Krishnasami, M.A. (Madras), M.Sc. Tech., Ph.D., D.Sc. (Manchester), F.N.I., F.A.Sc., Director, National Chemical Laboratory, Poona, since Aug. 1, 1957. b. June 7, 1901. *Educ.*: Madras and Manchester. Director, Deptt. of Chemical Technology, Matunga, Bombay, 1938-57; Chairman, Chemical Research Cttee. of the C.S.I.R., 1951-57; Pres., Chemistry Section, Indian Science Congress, 1945; member: Cotton Textile Fund Cttee.,

1945-55; Bureau of the International Union of Pure and Applied Chemistry, 1950-55; Indian Lac Cess Cttee.; Board of Directors of Hindustan Antibiotics (Private) Ltd.; Bombay State Industrial Research Cttee.; Advisory Panel on the International Pharmacopoeia and Pharmaceutical Preparations, W.H.O.; Cttee. on Non-Proprietary Names of Drugs, W.H.O.; Editorial Advisory Board of *Tetrahedron and Current Science*. *Publications*: *The Chemistry of Synthetic Dyes*, Vols. I & II, Acad. Press, N.Y., 1952; *Colouring Matters in Review of Textile Progress*, 1955-56; numerous papers on chemistry and chemical technology. *Address*: Poona 8.

VENKATARAMAN, R., M.A., B.L., Minister for Industries and Labour, Madras. b. Dec. 4, 1910; *Educ.*: passed B.A., Honours (Madras); Pres., Students' Union and Chairman, Social Reform Club; won Inter-collegiate Oratorical Competition of South India. Joined the Bar, 1935; participated in the Quit India Movement and detained in Jail, 1942-44; Editor, *Labour Law Journal*; one of the panel of Indian Lawyers who defended Indian nationalists arrested in connection with the I.N.A. Movement in Singapore and Malaya; Secy., Provincial Bar Federation; Member, Commonwealth Parliamentary delegation to New Zealand, 1950; elected to Parliament 1950; Delegate to the I.L.O. Cttee. on Metal Trades, Geneva, April, 1952; elected to the Lok Sabha from Tanjore, 1952; was Secy., Tamilnad Congress Cttee.; Reception Cttee., Avadi Congress Session of Indian National Congress; again elected in 1957; Alternate Delegate of India to the U.N. Gen. Assembly, 1953, 1955 and 1956; Leader, Indian Delegation to 42nd Session of I.L.O. Conference, Geneva; Delegate of India to the U.N. Gen. Assembly, 1958; Secy., Congress Party in Parliament, 1954-55; elected member, U.N. Administrative Tribunal for 1956-59. *Address*: Madras.

VENKATARAMAN, S. R., B.A., B.L., Member, Servants of India Society, connected with scouting, 1920-51; Medal of Merit, 1950; Flood, Cyclone and Famine relief work, Coimbatore, 1930, Shiyali, 1937, Andhra, 1945 and 1949 and Tanjore, Trichy, 1955; member, Central Exec. Cttee., Indian Conference of Social Work; Hony. Secy., the Indian Council of World Affairs, Madras Branch; Pres.: Indian Conference of Social Work, Rajahmundry, 1948; Bala Vilhar, Delegate to Seminar on Casteism, Delhi, 1955; delegate to the U. N. Conference on the Non-Governmental Organisations, Colombo, 1956; Member, Senate, Annamalai Univ., 1956; Administrative Pres., World Brotherhood Madras Chapter, 1957; Hon. Pt. Secy. & Treasurer, Indian Council for Child Welfare, Madras State Branch; attended the Seminar organized by the Y.W.C.A. at Ooty on the Second Five Year Plan, 1957; member, Adv. Cttee. for the After-Care Home for Males, Madras, 1957. *Publications*: (Tamil) *Nehru's Letters to his daughter* (Tr.); *Lives of Ranade, Gandhiji, Annie Besant*; (English) *Temple Entry Legislation—a Review*; *Harjans through the Ages*; *The Pavement Dweller*; *Two South Indian Tribes*; *State Responsibility for Social Work*; Edited: Rt. Hon. Sastri's autobiographical sketches in Tamil; Madras State Directory of Social Services, 1952; Sastri's lectures on the Rights and Status of Women in India, 1957; *Address*: Servants of India Society, Madras 14.

VENKATASUBBIAH, Hariharapur Venkatarangiah, M.A., M.Sc. (Econ.) (London), General Manager, Industrial Finance Corporation of India, New Delhi, since 1954. b. July 19, 1906; *Educ.*: Maharaja's Coll., Mysore; London School of Economics, London; M.A., 1926; M.Sc. (Econ.), 1931. Tutor in Economics, Maharaja's Coll., Mysore, 1925-28; Training in Midland Bank, London, and study in the London School of Economics, London, as Damodar Das scholar of the Govt. of Mysore, 1929-31; Manager of several branches and Internal Auditor, Bank of Mysore Ltd.,

Bangalore, 1931-48; Deputy Chief Officer at Bombay, Calcutta & Madras offices, Deptt. of Banking Operations, Reserve Bank of India, 1948-54; *Address*: 20, Wellesly Road, New Delhi.

VENKATESWARLU, Dr. K., M.Sc., D.Sc., F. Inst. P., F.A.Sc., Professor and Head of the Department of Physics, Annamalai University, since July 1955. b. June 3, 1916, at Nuzvid, Krishna Dist., Andhra. *Educ.*: S.R.E. High School, Nuzvid; Andhra Christian Coll., Guntur; Andhra Univ. College, Waltair for B.Sc. (Hons.) and M.Sc.; awarded Metcalfe Gold Medal for submitting the best thesis for M.Sc. in Physics, 1939. Physics Demonstrator, Andhra Univ. Coll., 1939-41; Lecturer, 1941-46; Senior Lecturer, 1946; got his D.Sc. degree by submitting a thesis entitled "Intensity and related problems in Raman Effect," 1946; elected a fellow of the Institute of Physics, London, 1947; had overseas training in pure and applied geophysics at Cambridge Univ., U.S. Geological Survey and California Institute of Technology, U.S.A., 1948-50; Special Officer for Ground Water Resources, Madras State, 1951-53; Reader in Physics, Annamalai Univ., 1954-55; is guiding research in Raman Effect, Magnetism, X-rays and Geophysics in the Physics Deptt., Annamalai Univ. *Publications*: Several research papers mostly on Raman Effect in leading scientific journals. *Address*: P.O. Annamalaisagar.

VERMA, Meghraj Mukul, M.A., Sahitya Ratna, Hindi and Rajasthani poet; Special Officer for Cultural and Literary Affairs, Rajasthan, since 1955. b. May 14, 1923, *Educ.*: Dungar Coll., Bikaner (Rajasthan). Teacher, 1941-49; Lecturer, 1949-54; Chief Social Education Officer, 1954-55; Hony. Secy., Rajasthan Sahitya Akademi and Lalit Ka Akademy, 1956-57. *Publications*: *Umang*; *Seema Rekha*; *Sainant. Recreations*: Music, Poetry and Travelling. *Address*: Special Officer for Cultural & Literary Affairs, Government of Rajasthan, Jaipur.

VERMA, Lieut.-General Shiv Dev, F.Sc., (Punjab), Corps Commander, Indian Army. b. September 27, 1908; *Educ.*: Government College, Lahore, Punjab. Commissioned from Sandhurst, January 1929; served in 16 Light Cavalry all along; passed into Staff Coll., 1939; War Service in Iraq, Western Desert, Palestine, Syria, Persia, Burma, French Indo-China, 1941-46; G. I. Instructor, Staff Coll., Quetta, 1946; Asstt. Comdt., 1947; Comdt., Staff Coll., Wellington, 1948; Comd. 1 Arm'd. Bde., 1948-49; Comd. 1 Arm'd. Div., 1949; Imperial Defence Coll., London, 1950; Comd. 2 Arm'd. Bde., 1951; 20 Div., Nov. '51 to Feb. '52; Comd. 1 Arm'd. Div., Feb. '52 to Feb. 1953; M. G. O., Feb. 1953-April 1957; Chief of the General Staff, 1957-58. *Recreations*: Polo, Tennis, Squash, Golf, Swimming. (Club: Delhi Gymkhana Club, New Delhi. *Address*: C/o Army Headquarters, New Delhi.

VERMAN, Dr. Lal C., F.N.I., M.I.E., M.I.T.E., Ph.D., M.S., B.S. (Eng.), Director, Indian Standards Institution, since June 1947 and Hony. Adviser on Standardization, Govt. of India, since 1951. b. 1902 in Amritsar; *Educ.*: Punjab, California, Michigan and Cornell Univs., Teaching and Research in American Universities, 1925-31; Research Fellow, Indian Institute of Science, Bangalore, 1931-33; Research Physicist, London Shellac Research Bureau, 1933-36; his valuable research on the technology of lac led to wide industrial applications; Research Officer and Asstt. Dir., Industrial Research Bureau later amalgamated with the Council of Scientific and Industrial Research, 1936-44; Ag. Dir., Physical Laboratories, C.S.I.R., 1944-47; researches covering varied fields especially in industrial technology; Vice-President, International Organization for Standardization, Geneva, 1949-55; Chairman: Plastics Research Cttee., C.S.I.R., 1950-58; Advisory Board of Indian Lac Cess Cttee., since 1956; responsible for secretariats of I.S.I. and several I.S.O. Cttees.

Publications: Over hundred papers in Indian, British and American scientific and technical periodicals; number of Indian, British and U.S.A. patents on variety of industrial processes. **Address:** Director, Indian Standards Institution, Manak Bhavan, New Delhi 1:

VIDYALANKAR, Amar Nath, Minister for Education, Labour, Stationery & Printing, & Language, Punjab, since April 9, 1957. b. Dec. 8, 1902, at Bhera (West Pakistan); **Educ.:** Graduated from Gurukul Univ., Harwar, 1925. Joined Lala Lajpat Rai's Servants of the People Society as life member, 1926-46; Editor 'Punjab Kesari Hindi Weekly', 1930-32; courted Jail 1931, 1932-33, 1940-41 and 1942-45; worked for Harijan uplift, trade unions and Kisan organisations; actively organized Kisan Schools with the late Prof. Brij Narain; was General Secy., Amritsar Dist. Congress Ctee. (Urban) for a long time; after partition joined A.I.C.C. office as Permanent Secy.; elected M.L.A., Punjab, from the special labour constituency, 1949; member, Lok Sabha, 1952-57; Pres., I.N.T.U.C. (Regional Branch for Punjab, PEPSU and Himachal Pradesh), 1948-49, 1954-55; Minister for Labour, Labour Co-operatives and Health, Punjab, from Nov. 1956-April 1957. **Address:** Chandigarh.

VIJAYANAGARAM, Padma Bhushan Maharajkumar Dr. Vijaya of, International cricketer. b. December 28, 1905; **Educ.:** Princes' College, Ajmer, where he won his colours at tennis and cricket, and set up a record, being the youngest student to get a double blue (Panchranga); Haileybury Public School, England. Is known in the field of sport by the name 'Vizzy'; Captained India in England, 1938; Patron of Indian Sport; big game shikari, passed the coveted figure of double century of fivers in April 1948 and completed his third century, 1950;



was Minister for Justice, U.P. Govt.; President, Andhra and Kahatriya Mahasabhas; has travelled extensively in Europe and America; both his grandfather and great-grandfather had enjoyed the personal distinction of 'His Highness' and also a salute of 13 guns and 19 guns respectively; the hereditary distinction 'Mirza Raja Maharaj Manya Sultan Bahadur' is the family title; was returned unopposed to the Central Assembly from Uttar Pradesh in 1934 and also in 1945; elected by a large majority to the U.P. Provincial Assembly on the eve of the inauguration of the reforms; appointed Minister of Justice of the U.P. Government under the new Act, 2nd April, 1937; member of the Court of the Benares Hindu University since 1935 and of the Executive Council since 1940; awarded by Sir S. Radhakrishnan, Vice-Chancellor of the University, the highest Blue-Ribbon of the University, as a special mark of distinction at the convocation of 1940; President of the Andhra Mahasabha from 1941 for three years successively; was unanimously elected President, 44th Session of the All-India Kahatriya Mahasabha held at Motihari (Bihar) in June 1944; received Hon. Degree of Doctor of Laws from the Benares Hindu University, at its annual convocation in Nov. 1944; renounced his Knighthood on the 14th of July 1947, as he considered it was not in keeping with the ideals of Republican India; member, Uttar Pradesh Legislative Council (Upper House), since 1952; was Vice-Pres., Board of Control for Cricket in India, for six years; was unanimously elected its Pres., Oct. 1954, at Bangalore; unanimously re-elected its Pres. for a second term, 1955-56; organised a tour of the New Zealand Cricket team in India during his first year's presidency; during the second term of office as Pres., succeeded in getting the Australian Cricket Board to agree to a tour by their cricket team in India for the

first time, consisting of three test matches; has created a Benevolent Fund for cricketers in distress; has been Pres., U.P. Cricket Assoc. from 1946 and Andhra Cricket Assoc. from 1954; re-elected Pres. for a further term of three years by the U.P. Cricket Assoc. and the Andhra Pradesh Cricket Assoc., at their annual General Meetings, 1956; for the first time in the history of Indian cricket, nominated a successor to his office namely Sardar Nurlit Singh Majithia, at the close of his term as Pres. at the annual general meeting of the Cricket Board at Visakhapatnam, Dec. 2, 1956, with a view to eliminating unhealthy canvassing and vote-catching; has been member, 'M.C.C.' and Surrey County Cricket Clubs, England since 1936; awarded Padma Bhushan on Republic Day (26th Jan. 1958) by the President of India as a mark of recognition of his all-round activities in sports and politics; represented India at the Imperial Cricket Conference, 1955 & 1958; succeeded in getting equality of status for India in the cricket world. **Address:** Vijayanagar Bhawan, Banaras.

VIRA, Dharma, I.C.S., Secretary, Ministry of Rehabilitation, Govt. of India, since March 1956. b. 1906; **Educ.:** Lucknow and Allahabad Univs.; London School of Economics and Political Science. Joined Indian Civil Service, 1930; Joint Magistrate: Aligarh, 1930-34; Almora, 1934-36; Bareilly, 1936; Joint Secy., Industries and Agricultural Exhibition, Lucknow, 1936-37; Officiating Dist. Magistrate, Bareilly, 1937; Dist. Magistrate: Etah, 1937-38; Almora, 1938-41; with Commerce Dept., Govt. of India, 1941-44; Deputy Secy., Industries and Civil Supplies Dept., 1944-45; Textile Commr., 1945-47; Joint Secy. to Cabinet, 1947-50; Principal Private Secy. to Prime Minister, 1950-51; Commercial Adviser, High Comm. in London, 1951-53; Ambassador to Czechoslovakia, 1954-56. **Address:** 3, Clive Road, New Delhi

VIRA, Prof. Dr. Raghu, M.A., Ph.D. (Lond.), D.Litt. et Phil. (Holland), M.P., Founder and Director, International Academy of Indian Culture. b. Dec. 31, 1902; **Educ.:** Punjab Univ., Lahore; Univ. of London; Royal Univ. of Utrecht, Holland. Member, Constituent Assembly of India; Member of Parliament; did researches in various spheres of ancient India and allied countries. **Publications:** Sets of English-Hindi Dictionaries of scientific and administrative terms totalling over two lakhs; edited the first complete set of scientific and mathematical text-books in Hindi and Marathi numbering about three dozens; founded a comprehensive series of Indo-Asian literatures entitled *Sata-Pitaka*, including ancient literatures of Indonesia, China, Tibet, Mongolia and other countries. **Recreations:** Indian and foreign languages and literatures; Foreign relations and policies; Education and culture; Travel. **Address:** J 22, Hauz Kila Enclave, New Delhi 16.

VISEN, Hakim Singh, B.A., LL.B., Minister for Medical, Health, Relief and Rehabilitation and Justice, Uttar Pradesh, since 1957. b. 1892; **Educ.:** Bahraich and Lucknow. Elected M.L.A., U.P., 1937; appointed Parliamentary Secy., to the Revenue Minister, U.P., Aug. 1937; resigned in October 1939 consequent to the general policy of Congress; re-elected to Assembly, 1946; suffered imprisonment in the freedom movement, 1932, 1940, 1942 and 1943; appointed Minister for Revenue and Forests, Aug. 7, 1946; reappointed Minister, 1952. **Address:** No. 1, Minister's Residence, Vikramaditya Marg, Lucknow.

VISVESVARAYA, Sir Mohanagundam, K.C.I.E., M.I.C.E., Bharat Ratna (1955), Hony. D.Engg. (Jadavpur), late Dewan of Mysore. b. Sept. 15, 1861; **Educ.:** Central Coll., Bangalore and Coll. of Science, Poona; holds Honorary Degrees from six Universities (D.Sc., of Calcutta; LL.D., of Bombay; D.Litt., of Benares; D.Sc., of Patna; D.Sc., of Allahabad; and LL.D., of Mysore). Asstt. Engineer, P.W.D., Bombay,

1884; Supdt. Eng., 1904; retired from Bombay Govt. Service, 1908; apptd. Sp. Consulting Eng. to Nizam's Govt., 1906; Ch. Eng. and Sec., P.W. and Ry. Depts., Govt. of Mysore, 1909; Dewan of Mysore, 1912-18; Chairman, Bombay Technical and Industrial Education Committee (appointed by the Government of Bombay), 1921-22; Chairman, Indian Economic Enquiry Committee (appointed by the Government of India), 1925; Chairman, Irrigation Inquiry Committee (appointed by Govt. of Bombay), 1938; President, the All-India Manufacturers' Organisation, 1941. **Publications:** *Reconstructing India* (1920), *Planned Economy for India* (1934) and *Memoirs of My Working Life* (1951). **Address:** No. 5, Cubbon Road, Bangalore.

VIJAYANATH, Rao Bahadur Bhagavatale, C.I.E. (1943), D.Sc. (Hon.), F.R.I.C. (London), Rao Bahadur (1929), Director, Eastern Technical Laboratories. b. January 1, 1889; **Educ.:** Vizianagaram. Director, Indian Agricultural Research Institute, New Delhi, 1935-44; Director of Agriculture, Madras, 1944-47; member: F.A.O. Rice Study Group, 1947; F.A.O. E.C.A.F.E. Study Group, 1948; University Professor, Banaras, 1948; Director of Agriculture and Food Commissioner, Rajasthan, 1949; Regional Agricultural Production Commissioner, Ministry of Food and Agriculture, New Delhi, 1950, 1951. President, Agricultural Sections, Indian Science Congress, 1937; President, Indian Society of Soil Science, 1935-37; Vice-President, Society of Biological Chemists, India, 1938; foundation Fellow of National Institute of Science, India; Indian Academy of Science; Indian Chemical Society; Adviser, Agricultural Programmes, Planning Commission, Govt. of India, 1952. **Publications:** Several original contributions on soils and plant nutrition and on the utilisation of agricultural products and wastes. **Address:** Krishnanvilas, 8 A/85-W.E. Area, Pusa Road, New Delhi.

VIJAYANATHAN, Venkata, I.C.S., Special Secy., Ministry of Home Affairs, Govt. of India, since April 1, 1958. b. in Malabar, South India; **Educ.:** Pusa High School, Central Coll., Bangalore, University Coll., London, Balliol Coll., Oxford. Joined the I.C.S. in 1931 in U.P. cadre, and was appointed Magistrate at Agra and Benares, 1931-36; Settlement Officer, 1936-40; Under-Secretary and Deputy Secretary (1940-43) and Secretary to the Indian delegation to Burma (1941), Secretary to the Representative of the Government of India in Ceylon (1943-44) and Secretary to India's Envoy to Burma (1944-45); chosen as Alternate Delegate to the United Nations Special Commission on Palestine, 1947; Deputy High Commissioner in Pakistan, 1947-48; Chief Secretary, Madhya Bharat Govt., 1948-49; its Adviser, July 1949-April 1950; Chief Commissioner, Bhopal, 1950-52; Joint Secy., Ministry of Home Affairs, 1952-58. **Address:** New Delhi.

VYAS, Damodar, B.A., LL.B., Revenue & Rehabilitation Minister, Rajasthan, since 1957. b. Nov. 9, 1909; **Educ.:** Delhi Univ. (B.A.); Lucknow Univ. (LL.B.). Practised as a senior lawyer at the Bar; Pres., Dist. Malpura Jaipur Rajya Praja Mandal, 1937; member, Jaipur State Leg. Council, 1944-49; Pres., Malpura Municipal Board, 1944-52; Dist. Board, Malpura, 1953-54; member, Rajasthan Pradesh Congress Ctee., from 1948; appointed Revenue Minister in the Sukhadia Cabinet, Dec. 1954; elected M.L.A., Rajasthan from Malpura Constituency, 1952 General Elections; elected unopposed, M.L.A., Rajasthan, 1957 General Elections from Malpura Constituency; member, A-I.C.C., 1957-58. **Address:** 49, Civil Lines, Jaipur.

VYAS, Jai Narayan, M.P., ex-Chief Minister, Rajasthan (Nov. 1952-Nov. 1954). b. 1898 at Jodhpur; **Educ.:** Had his early education locally. Worked on the railways for some years; became a whole-time political worker and joined the Congress; organised the Marwar

Peasant Movement; courted jail five times for political activities; externed from Jodhpur State for many years; settled in Bombay and turned to political journalism editing the *Akhand Bharat*; elected General Secy., All-India States People's Conference, 1939-40; Chief Minister, first popular ministry, Jodhpur, 1948; was Pres., Rajputana P.C.C.; was Minister, Rajasthan. Address: Jaipur.

VYAS, Ram Kishore, B.A., LL.B., Minister for Home, Law, Irrigation & Power, Rajasthan, since Nov. 13, 1954. b. May 8, 1908; Educ.: Jaipur; Allahabad; passed B.A., LL.B., 1935. Participated in social work since school days, organised a middle school providing free education; started practice at Jaipur Chief Court; actively associated with the Jaipur State Praja Mandal and later with the Rajasthan P.C.C.; elected P.C.C. member; member, Jaipur Municipal Council, 1938-51; was its Pres. for two years; elected M.L.A., Rajasthan in the first general elections; Minister, Rajasthan, March 1951-Oct. 1952; Nov. 1952-Nov. 1954; was Leader, Congress Party, Jaipur State Representative Assembly and Dy. Leader, Congress Party (Sukhania cabinet), Rajasthan Leg. Assembly, Nov. 1954-57; participated in people's movement launched by Jaipur Praja Mandal, 1938 and the Indian Independence Movement, 1942; Prof. of Law, Law Coll., Jaipur before joining State Cabinet in 1951; has been a lawyer and public figure in Jaipur. Address: Rasta Khandar, Char Darwaja, Jaipur.

WADALIA, Lt.-Gen. Mohinder Singh, Deputy Chief of the Army Staff, Indian Army, since Jan. 28, 1959. b. Nov. 30, 1908; Educ.: Alitchson Coll. Lahore; Sainik School, Dehra Dun; R.M.C., Sandhurst. Commissioned, Jan. 31, 1929; served with 419 Hyderabad Regiment (now 4 Kumaon); transferred to 16 Light Cavalry, 1934; saw service on the staff in G. Hq. Persia and Iraq Command during World War II; subsequently held various Staff and Command appointments including the following:—G.S.O. 1 Army Hqrs., 1944-45; Deputy Head of the Military Mission in Berlin and subsequently Head of the Mission from the date of Independence, 1947; Brigadier, General Staff, 1948; Military Adviser to the High Commissioner in the U.K., 1948-49; Commander, 1st Armoured Brigade, 1950-51; Commandant, National Defence Academy, 1951-52; Commander, 1st Armoured Division, 1953-55; Chief of the General Staff, 1950-57; G.O.C., XV Corps, 1957-59. Recreations: Reading literature and military history; Squash Racquets, Polo. Address: Army Headquarters, New Delhi.

WADIA, Ardesheer Ruttonji, Rajasavasakta, B.A., Bar-at-Law, M.P., Director, Tata Institute of Social Sciences, Bombay. b. June 4, 1888; Educ.: St. Xavier's High School and Wilson College, Bombay; Middle Temple, London, for Bar; St. Catherine's, Oxford; Fitzwilliam Hall, Cambridge. Prof. of English and Philosophy, Wilson College, Bombay, 1914; Lecturer in Psychology, University of Bombay, 1914-16; Professor of Philosophy, Mysore Univ., 1917-42; Secy., Inter-Univ. Board, 1932-37; D.P.I., Mysore (Retd.); Principal, Victoria Coll., Gwalior (1946-49); Pro-Vice-Chancellor, Maharaja Sayajirao Univ., Baroda, 1949-52; Governor of District No. 51, Rotary International, 1951-52; member, Indian Delegation to U.N.E.C.O. Conference, 1952 and 1954. Publications: *The Ethics of Feminism*; *Pragmatic Idealism in Contemporary Indian Philosophy*; *Zoroastrian Religion as a Quest for Values*; *The Future of English in India*; *The Philosophy of Mahatma Gandhi* and other Essays; *Philosophical & Sociological*; Editorial Board, History of Philosophy: Eastern and Western. Address: Kaljana, 96, Netaji Subhas Road, Bombay.

WADIA, Behram H., B.E. (M & E) (Bombay), M.S. and Ph.D. (Stanford), A.M.I.R.E., Member of Sixma XI, Asstt. Dir. Incharge,

Central Electronics Engineering Research Institute, Pilani, Rajasthan, since Nov. 1956. b. Oct. 1, 1927; Educ.: St. Xavier's School and Coll., Bombay; took the B.E. (M & E) from Poona Engineering Coll. (Bombay Univ.), 1948 and M.S. in 1950 and Ph.D. in 1954 from Stanford Univ., Stanford, California, U.S.A. Project Engineer at Machlett Laboratories, Connecticut, 1954-56; returned to India in Nov. 1956 and took up the present position for organizing and setting up a Research and Development laboratory in Electronics for the Council of Scientific and Industrial Research. Publications: Several patents and papers. Recreations: Music, sports, theatre. Address: Central Electronics Engineering Research Institute, Pilani, Rajasthan.

WADIA, Darashaw Nooharwan, M.A., D.Sc., F.N.I., F.R.S., Padma Bhushan (1958), Geological Adviser, Govt. of India. b. 1883; Educ.: Baroda Coll., Bombay Univ. Prof. of Geology, Prince of Wales College, Jammu (Kashmir), 1907-20; Geological Survey of India, 1921-30; carried out the Geological Survey of N. W. Punjab, Hazara and Kashmir as part of official duties; Mineral Adviser, Ceylon Government till 1944; President, Indian Science Congress, XXIX Session, 1942; President, National Institute of Science of India, 1945-46; "Back Award," Royal Geographical Society, London, 1934; "Lyell Medal" awarded by Geological Society, London, 1943. Publications: *Geology of India*; *Synopsis of N. W. Himalayas* (1931); *Geology of Nanga Parbat and Gilgit District* (1932); *Structure of the Himalayas* (1938). Address: 10, King George Avenue, New Delhi.

WADIA, Neville Ness, Chairman, Nowrojee Wadia & Sons (Private) Ltd. and Bombay Dyeing & Mfg. Co. Ltd. b. Aug. 22, 1911; Educ.: Malvern & Trinity, Cambridge. Address: Bella Vista, Pedder Road, Bombay 26; Office: The Bombay Dyeing and Mfg. Co. Ltd., Neville House, Ballard Estate, Bombay 1.

WADIA, Mrs. Sophia, Editor, *The Aryan Path*, organ of the Indian Institute of World Culture, and *The Indian P.E.N.*, Bombay. b. Sept. 13, 1901; Educ.: Lycée Molière, Paris; Columbia Univ., New York; School of Oriental Studies, London. Associate of The United Lodge of Theosophists; Lecturer; Founder-Organiser of the P.E.N. All-India Centre; a Founder and Pres. of the Indian Institute of World Culture, Bangalore; and worker in women's educational, social and cultural movements. Publications: *The Brotherhood of Religions*; *Preparation for Citizenship*. Recreation: Reading. Address: 40, New Marine Lines, Bombay 1.

WANCHOO, Mr. Justice Kallias Nath, B.A. (Allahabad), I.C.S., Judge, Supreme Court of India, since Aug. 11, 1958. b. Feb. 25, 1903; Educ.: Pandit Pirithi Nath High School, Kanpur; Muir Central College, Allahabad and Wadham College, Oxford. Passed into the Indian Civil Service, 1924; joined service, Dec. 1, 1926; served as Joint Magistrate and District and Sessions Judge in various Districts in Uttar Pradesh; Judge, Allahabad High Court, Feb. 1947-Jan. 1951; Chief Justice, Rajasthan High Court, 1951-58; Chairman, U.P. Judicial Reforms Cttee., 1950-51; reported to the Govt. of India on the financial and other implications of the new State of Andhra, Feb. 1953; Sole Member, Indore Firing Enquiry Commn., 1954; Chairman, Dholpur Succession Case Commn., 1955; Member, Law Commn., India, 1955. Address: 7, Safdarjang Road, New Delhi.

WANCHOO, Niranjan Nath, M.A. (Punjab), O.B.E. (1945), I.C.S., Secy., Ministry of Finance (Dept. of Expenditure), Govt. of India, since Jan. 1958; also member, Univ. Grants Commission, since Feb. 14, 1958. b. May 1, 1910; Educ.: Government Coll.,

Lahore; King's Coll., Cambridge. Joined the I.C.S. in 1934; served in Bihar and Orissa; subsequently in the Commerce and Food Departments of the Govt. of India; Imperial Defence Coll., London, 1947; Director-General of Ordnance Factories, 1948; Jt. Secy., Ministry of Defence & Controller-General of Defence Production, 1948-57. Recreations: Golf. Address: 4, Akbar Road, New Delhi.

WANKHEDE, Sheshrao Krishnarao, B.A., Bar-at-Law, Minister for Planning, Development, Electricity & Industries, Bombay State, since April 1957. b. Sept. 24, 1914; Educ.: Graduated from Morris Coll., Nagpur, 1934; called to the Bar, 1937. A leading educationist, a keen sportsman and a progressive agriculturist; connected with 67 institutions either as an office-bearer or an ordinary member; unanimously elected Chairman, Nagpur District Council, 1938-48; jailed for individual Satyagraha, 1940; elected member, Nagpur Univ. Executive Council, 1947; was Treasurer, Nagpur Univ. for 9 years; was the first Mayor of Nagpur Corporation; was subsequently elected for two more years; represented India at the International Federation of Agricultural Producers' Conference in Paris, 1948, and later at Food & Agricultural Organisation Conference, 1953; a member, Indian Central Cotton Cttee. for the last 12 years; Ex-Vice-Chairman, M.P. Electricity Council; was elected Dy. Speaker, M.P. Leg. Assembly after the first General Elections; continued Dy. Speaker in enlarged Bombay State's first Assembly; elected M.L.A., Bombay, 1957. Address: Sachivalaya, Bombay.

WASHIKAR, Shivram Shripad, Marathi litterateur and screen-play writer. b. Oct. 1893, at Kolhapur. Is a novelist; was Manager, *Dnyan Prakash*, daily, Bombay Branch; was Head of Story Dept., Prabhat Film Co. Ltd., Poona; Partner, Zashtra Vaidhava Press, Bombay, 1939-54. Publications: Novels: *Bhikarin*, *Vishu-prayag*, *Kalasha Kal*, *Ladhai-poori*, *Ramshastri*, *Dhruva*, *Sati Ahalya*, etc., author and dialogue-writer of *Sant Tukaram*, *Dnyaneshwar*, *Ramshastri* and other film-hits; Stories: *Rukmini Sayamamur*, *Murlidara*, *Sant Eknath* etc.; Dialogues: *Tulsidas*, *Apna Ghar*, *Bhakta Vidur*, etc. Address: 1, Prabhat View, L. N. Road, Dadar, Bombay 14.

WAZIR, Mr. Justice Jamki Nath, B.A. (Punjab), LL.B. (Lond.), Bar-at-Law, Middle Temple, Chief Justice, High Court of Judicature, Jammu and Kashmir State, since April 1948. b. Dec. 6, 1905; Educ.: Kashmir and London Univ. Was enrolled as an Advocate of the Lahore High Court, 1931; Part-time Law Lecturer, Law Coll., Lahore, 1933-36; Judge, High Court of Judicature, Jammu and Kashmir State, Dec. 1936-April 1948; Vice-Chancellor, Univ. of Jammu and Kashmir, June 1950-57. Address: Srinagar.

WILLIAMS, Lieut.-General Sir Harold, K.B.E. (1956), C.B. (1953), M.I.C.E., M.I.E., M.I.S. (Ind.), Director, Central Building Research Institute, Roorkee, since Oct. 15, 1955. b. June 1, 1907; Educ.: Mountjoy School, Dublin; R.M.A., Woolwich; Cambridge Univ.; 2nd Lieut., 1917; Adjlt., Bengal Sappers & Miners, 1920-33; Ind. Mil. Academy, 1933-36; Lt. Major, 1934; Prof., Civil Engineering, Roorkee Coll., 1936-38; C.R.E. 1st Armd. Div., 1940-41; Brig., Engr. Staff, 1942-43; C.R.E. IV Corps, 1943-44; Comd. S.M.E., 1945-47; C.R.E., Southern Command, 1947; Engineer-in-Chief, Army Headquarters, 1948-55; Pres.: Inst. Engineers, 1954; Inst. Surveyors (Ind.), 1954; Member, Council, Inst. C.R.E., 1951-54 and since 1958; Colonel-Comdt., Corps of Engineers, 1951-55. Recreations: Mountaineering, Ornithology. Clubs: Delhi Gymkhana; United Service, London; Alpine, Himalayan. Address: C.B.R.I., Roorkee, U.P.

WINCHESTER, Most Hon. the Marchioness of (the former Miss Bessy Pavry), M.A., Litterateur: received on the occasion of her marriage with the Most Hon. the Marquess of Winchester



numerous messages of good wishes from world over, including those from Her Majesty Queen Mary and other members of British and European Royalty; accorded Civic Reception by Mayor of Bombay at Corporation Hall (March 1953), by Mayor of Winchester at historic Guildhall (July 1953) and by Mayor of Virginia, America) at City Hall and presented with Key to the City, Feb. 1955; also by London County Council at County Hall (June 1953) and by City Corporation of New York at City Hall (Dec. 1954); conferred Order of Merit by the Shah of Iran (1955); Honorary Member of British-American Society; Member of Council of World Alliance for International Friendship; Educ.: Queen Mary High School and St. Xavier's College, Bombay; M.A., Columbia University. Visited England every year, since 1924; presented at Their Majesties' Court, 1928; received by President Coolidge (1924), by Pope Pius XI (1926) and President Lebrun (1938). Guest of the Shah of Iran and King of Afghanistan (1934), of King Abdullah of Jordan, King Gazi of Iraq, President Kemal Ataturk, King Boris and Queen Ioanna, King Carol and Queen Marie, Prince Regent Paul and Queen Marie of Yugoslavia and the Crown Prince and Crown Princess of Italy (March-April 1937), of King Leopold and Queen Elizabeth of Belgium, King George of Greece and King Farouk of Egypt (Aug.-Sept. 1937), also of Emperor Haile Selassie and Empress Menen in Ethiopia (1946); and of the King of Morocco (1952); attended the historic reception given in Paris by the President of France in honour of King George and Queen Elizabeth (1938); Member of Committee and Vice-Chairman of various Charity Balls, held in London in 1924-59 in the presence of members of the Royal Family; attended the historic Peace Conference in Paris (1946), Asian Relations Conference in New Delhi (1947), Parliamentary Conference on World Govt. (London, 1954), and represented Karnatak Univ. at Columbia Univ. Bicentennial Convocation (New York, 1954); awarded Bicentennial Medal. *Publications: Hermes of Ancient Iran* (Cambridge, 1930); limited deluxe edition of 250 numbered copies (Hutchinson, London, 1955). Address: Malabar Hill, Bombay

YASHPAL, B.A. (Lahore), leading Hindi writer, b. Dec. 3, 1903, at Ferozepur Cantt.; Educ.: Gurukul Kangri and National Coll., Lahore; graduated, 1926. Took active part in the freedom movement; arrested and sentenced to 14 years imprisonment in U.P., Feb. 1932; released by the first Congress Ministry, 1938; entered literary career by starting *Viplava*, a monthly magazine. *Publications:* 13 short story collections, seven novels and two travel books; one book of reminiscences in three volumes; three collections of humorous essays; one collection of One Act Plays; five socio-political books; his works have been translated into almost all Indian languages and some foreign languages also; his best novels are *Dirga*, *Amila*, *Dehrohi*, *Mannashya ke rup*, *Jutha Soch*; short story collections: *Pinkyareki Uron*, *Chitra ka Shikhar*, *Gyandan*, *Abhishapt*; Political-social writings: *Gandhavad Ki Shar*

Pariksha (Post-mortem of Gandhism). *Recreations:* Gardening. *Clubs:* International Club Lucknow. Address: 'Viplava', 21, Shivaji Marg, Lucknow.

YAZDANI, Ohulam, B.A. (Punjab), M.A. (Calcutta), D.Litt. (Osmania), D.Litt. (Aligarh), O.B.E. (1935), Padma Bhushan (1959), Chairman, Editorial Board of the History of Deccan, since 1948. b. March 20, 1895; Educ.: Punjab and Calcutta; Griffith's prizeman in History of Calcutta Univ.; Govt. of India Research Scholar in Archaeology, 1905-07; gold medallist in Arabic and Oriental Classics with English, 1905. Prof. of Arabic and Persian, Govt. Coll., Rajahmundry, 1909-13; Prof. of Arabic, Govt. Coll., Lahore, 1913-14; Dir. of Archaeology, Hyderabad State, 1914-43; Epigraphist to the Govt. of India for Moslem Inscriptions, 1915-42; Gen. Pres., All-India Oriental Conference, 1941; Fellow of the Royal Asiatic Society of Bengal and of the Bhandarkar Oriental Research Institute; Hon. Correspondent, Archaeology Dept., Govt. of India; Pres., Anjuman Taraqqi-i-Urdu, Hyderabad, 1954. *Publications: Mandu, the City of Joy; Ajanta, Parts I to IV; Bidar: Its History and Monuments; Fina Arts of the Deccan; Shahjahan Nama, Vols. I-III* (Bibliotheca Indica series). Address: Orange Grove, Khairatabad, Hyderabad, Dn.

ZAKHAR, Syed Ali, B.A., LL.B., Bar-at-Law, Minister for Finance and Forests, Uttar Pradesh, since April 1957. b. March 21, 1896; Educ.: M.A. O. College, Aligarh; Canning College, Lucknow; Law College, Allahabad; Oxford. Called to Bar, 1922; member, Lucknow Municipal Board, 1925-46; member, Legislative Council, 1930-37 and again from 1939 till supersession of legislature; left Muslim League, 1937; organised Shia community; elected Pres., All India Shia Political Conference, 1941; re-elected Pres., 1945; same year convened Shia All-Parties Conference which agreed to dissociate itself from Muslim League policy; Member for Law and Communications, Nehru's first Interim Cabinet; resigned in October, 1946 when Muslim League joined Viceroy's Executive Council; Indian Ambassador in Iran, 1947-51; Minister in Iraq, concurrently, 1949-51; Designated Ambassador to Indonesia, June 1951; but before leaving to take up the post, became Minister of Justice in Uttar Pradesh Cabinet in Aug. 1951; also assigned portfolio of Labour in Oct. 1951; elected to Legislative Assembly, Jan. 1952; became Minister for Justice and Excise in May 1952; Minister for Justice and L.S.G., 1955-57; reappointed Minister, U.P., in April 1957; member, A.I.C.C. since 1955. *Publications: The Dead Past*; Articles published in various newspapers and magazines. *Recreations:* Gardening, Writing articles for Press. Address: 23, Ashok Marg, Lucknow, U.P.

ZAKHAR, Syed Hassan, B.A. (Allahabad), B.A. (Hons.) (Oxford), I.C.S., Member, Union Public Service Commission, b. Nov. 10, 1890; Educ.: Muir Central Coll., Allahabad; Canning Coll., Lucknow; New Coll., Oxford. Joined the Indian Civil Service and posted to U.P. (1923); Assistant Commissioner, Lucknow, 1923-26; Joint Magistrate, Meerut, 1926-28; Collector, Banda, 1929-33; Collector, Ballia, 1933-37; Deputy Secy. to Govt. of U.P., 1937-40; Deputy Secy. to the Govt. of India, 1940-43; Secy. to Govt., U.P., 1944-45; Commissioner of Division in the U.P., 1945-55; member, Board of Revenue, U.P., 1955-57. Address: Dholpur House, Shah Jahan Road, New Delhi 2.

ZAIDI, Col. Bashir Hussain, Vice-Chancellor, Muslim Univ., Aligarh. b. July 26, 1898; Educ.: Arabic High School and St. Stephen's Coll., Delhi; Punjab Univ.; Cambridge Univ., Lincoln's Inn. Indian Representative, International Students' Conferences in Czechoslovakia and Holland (1921); Head Master, Aligarh Muslim Univ. School (1923-30); Political Minister, Rampur State (1931-37); Observer, Third Round Table Conference in London; Chief Minister, Rampur State (1937-49); member: Negotiating Cttee. of the States and the Indian Union Constitution Cttee.; Constituent Assembly and Parliament of India, 1947-51; Indian Delegate to the U.N. Assembly (1951); elected to Parliament from Hardoi Constituency, 1952; Chairman, Ayurvedic and Unani Tibbia Coll. Board (1952-57); Director of several Industrial Organizations; Director, Reserve Bank of India; Pres. Anjuman-Taraqqi-e-Urdu; is a Freemason. *Recreations:* Gardening. Address: Vice-Chancellor, Muslim University, Aligarh.

ZAKARIA, Dr. Rafiq, M.A. (1st class), Ph.D. (London), Bar-at-Law, (Chancellor's Gold Medallist (Bombay Univ.), Advocate, Bombay High Court and Special Public Prosecutor; Editor-in-Chief, *Indo-Arab World*. b. April 5, 1920; Educ.: Anglo-Urdu High School, Poona; Ismail Yusuf Coll., Govt. Law Coll., Bombay; London Univ. and Lincoln's Inn. Political correspondent on Indian affairs for the 'Observer' (London) (1947-48); Pres.: London Majlis (1945-47); Chairman, Federation of Indian Students' Societies in British Isles and Europe (1947); Delegate to Inaugural Session of International Union of Students held at Prague (1946); General Secy., Bombay Youth Congress (1950-51); Hon. General Secy., Indo-Arab Society; Chairman, S. S. Musafirkhana; Convener-Secy., Id Celebration Cttee.; member: 'Ghazna' Advisory Cttee., Govt. of Bombay; Central Advisory Cttee., National Cadet Corps appointed by the Govt. of India; Programme Advisory Cttee., A.I.R., Bombay; Port Haj Cttee.; has travelled widely; writes to several Indian and foreign newspapers and broadcasts often. *Publications:* *Thesis on Muslims in Indian Politics, 1885 to 1906* (under print). *Recreations:* Reading, Writing. *Clubs:* Radio Club and W.I. Turf Club, Bombay. Address: 'Gupta Mahal', Churchgate Reclamation, Bombay.

ZILS, Paul, Managing Director, Art Films of Asia Ltd., Producer-Director of feature films, documentary film specialist of international reputation. b. and Educ.: in Germany. Took an active interest in film and dramatic art at an early age; was associated with the UFA Studios in Berlin for five years; travelled extensively throughout Africa, Asia and America, making documentaries as a free-lance; worked in Hollywood with Max Reinhardt and William Dieterle; in India since 1942; was in charge of the External Section of Govt.'s Information Films of India; Pres., Indian Documentary Producers' Assoc.; member, Executive Cttee., Film Federation of India; member, I.M.P.P.A.; Life-Member, Children's Film Society; publisher of the quarterly, 'Indian Documentary'; is known as a critical writer on films and social subjects; has made more than 100 documentaries, including three for the U.N.O., many of which have received international awards; his feature films are 'Our India' in English (released abroad as 'Dawn of India'), 'Hindustan Hamara' and 'Zalzala' in Hindustani; is now an Indian national. Address: 'Olympia', Bhulabhai Desai Road, Bombay 26.

LATE PARTICULARS

Under this we publish articles and give notes on items which could not be included in the body of the text.

AWARDS AND PRIZES

Including the 1959 awards, the number of persons who have received Bharat Ratna is 8, Padma Vibhushan 17, Padma Bhushan 91 and Padma Shri 91.

The eight persons who have received Bharat Ratna are: Mr. Jawaharlal Nehru (1954), Mr. C. Rajagopalachari (1954), Dr. S. Radhakrishnan (1954), Dr. C. V. Raman (1954), Dr. Bhagwan Das (1955), Mr. M. Visvesvaraya (1955), Pandit Govind Vallabh Pant (1957) and Dr. D. K. Karve (1958).

There was no award in 1959.

1959 AWARDS

Bharat Ratna : There was no award in 1959.

Padma Vibhushan : Dr. John Matthai, Dr. Radhaballab Pal, Saganviharilal Mehta.

Padma Bhushan : Ali Yavar Jung (Ambassador of India, Belgrade); Bhargavram Vithal Warerkar (Author and Playwright in Marathi); Bhaurao Payagounda Patil (Educationist and Social Worker); Dhanvanthi Rama Rau (Social Worker); Dr. Ghulam Yazdani (Archaeologist); Hansa Jivraj Mehta (Social Worker); Dr. Jai Cawashaw Paymaster (Chief Surgeon and Superintendent, Tata Cancer Institute, Bombay); Mysore Vasudevacharya (Musician and Composer of Karnatic Music); Nirmal Kumar Sidhanta (Vice-Chancellor, Calcutta University); Pammal Sambanda Mudaliar (Playwright in Tamil); Ramdhari Sinha Dinkar (Hindi Poet and Author); Tenzing Norgay Sherpa (Director, Himalayan Mountaineering Institute); Tirupattur Ramaseshayaar Venkatachala Murli (Professor of Indian Civilization and Culture, Banaras Hindu University).

Padma Shri : Dr. Atma Ram (Director, Central Glass and Ceramic Research Institute, Calcutta); Dr. Badri Nath Uppal (Agricultural Commissioner, Indian Council of Agricultural Research); Balwant Singh Nag (Chief, Natural Resources Division, Planning Commission); Ganesh Govind Karkhanavala (Vice-President, Harijan Sewak Sangh, Mysore); Homi Nusserwanji Sethna (Chief Chemical Engineer, Atomic Energy Establishment); Dr. Komaravolu Chandrasekharan (Professor, School of Mathematics, Tata Institute of Fundamental Research); Lakshman Singh Jangpangi (Indian Trade Agent in Western Tibet); Manohar Balasant Diwan (Datapur Kushta-Dham, Wardha); Mathew Kandathil Mathulla (Managing Director, Hindustan Machine Tools); Mihir Kumar Sen (Channel Swimmer); Jemadar Milkha Singh (Athlete); Om Prakash Mathur (Executive Engineer, Central Public Works Department, Gangtok, Sikkim); Onkar Srinivasa Murthy (Director (Planning), Railway Board); Parameswaran Kuttappa Panikkar (Director of Exhibitions, Ministry of Commerce and Industry); Parikshit Lalubhai Majumdar (President, Gujarat Harijan Sewak Sangh); Prataprati Urdharlal Mehta (Chairman, Lalitkala Akademi, Jaipur); Dr. Mary Ratnamma Isaac (Social Worker); Kumari Shaila Das (Social Worker); Dr. Shiwaji Ganesh Patwardhan (Leprosy Worker, Bombay); Surendra Nath Kar (formerly Principal, Kala Bhavan, Santiniketan).

LITERATURE

The Sahitya Akademi Awards for 1958 for outstanding books published in the Indian languages during the years 1955 to 1957 were won by:

Bengali : Anandibai Ityadi Galpa (Short stories) by Rajasekhara Bose.

Gujarati : *Darshan ane Chintan* (2 volumes) (Philosophical essays) by Pandit Shukhlalji.

Hindi : *Madhya Asia ka Itihaas* (2 volumes) (History of Central Asia) by Rahul Shnkrityan.

Kannada : *Avalu Maralu* (Poems) by D. R. Bendre.

Kashmiri : *Sat Sangar* (Short stories) by Akhtar Mohiuddin.

Malayalam : *Kazhinja Kalam* (Autobiography) by K. P. Kesava Menon.

Marathi : *Bahurupi* (Autobiography) by Chintaman Rao Kolhatkar.

Oriya : *Ka* (Novel) by Kanhucharan Mohanty.

Tamil : *Chakravarti Tirumagan* (Ramayana retold in prose) by C. Rajagopalachari.

Urdu : *Atishe Gul* (Poems) by Jigar Moradabadi.

The awards are given in the form of a cheque for Rs. 5,000 and an attractive copper tablet in which the name of the author, the name of the book and the year of the award are inscribed. The signatures of the Akademi's President, Mr. Jawaharlal Nehru, are also inscribed on the tablet.

Books are eligible for prizes in 16 languages, viz., the fourteen major languages enumerated in the Constitution of India and Sindhi and English (as written by Indian authors).

There are two Prizes for Sanskrit, one for creative writing in Sanskrit, the other for scholarly research or exposition relating to Sanskrit, written in any language. To be eligible for award a book must have been originally published during the three years preceding the year in which the Award is announced.

Hindi

The Ministry of Education awarded in March 1958 a prize of Rs. 2,000 each to the following seven books of outstanding merit in Hindi published between January 1, 1955 and December 31, 1955.

In the category of the best translations into Hindi from other languages, two prizes of the value of Rs. 2,000 each for poetry and fiction were awarded to *Geet Govind* by Mr. Vinay Mohan Sharma of Nagpur University and *Adi Vidrohi* by Mr. Anurit Rai of Allahabad.

Geet Govind is a lyrical poem in Sanskrit of Jayadeva, which has been rendered into Hindi verse.

Adi Vidrohi is a translation of the English novel *Spartacus* by the American writer Howard Fast.

Under the category of best books in Hindi devoted specially to promoting inter-class, inter-communal and inter-State understanding and appreciation of the fundamental ideals of the common Indian culture, only one prize was given to the book *Bharatiya Krishhi Ka K. Ka.* by Mr. Jay Chandra Vidyaanar of New Delhi. It is an original book written in Hindi on Indian culture.

In the category of original works in Hindi, four prizes of Rs. 2,000 each were awarded to books in poetry, drama, fiction and to a novel by an author whose mother tongue is not Hindi.

In this category, the prize for poetry was awarded to *Parvati* by Mr. Ramanand Tiwari of Maharaja College, Jaipur. It is an original book of poems in Hindi. It deals with the story of Shiva and Parvati on the pattern of Kali Das's *Kumar Sambhava*.

In the category of drama, the prize was awarded to *Rim Jhim* by Dr. Ram Kumar Varma of Allahabad University. It is a collection of one-act plays written in Hindi.

For fiction, the prize was awarded to *Jahaj Ka Panchhi* by Shri Ila Chandra Joshi, Producer, All-India Radio. It is considered as one of the outstanding novels published in Hindi in recent years.

The prize for the best original work in Hindi by an author whose mother tongue is not Hindi was awarded to *Bari Bari Ankhen* by Shri Upendra Nath 'Ashk' of Allahabad.

It is an original novel.

Under the third competition, 16 prizes of Rs. 2,000 each were announced to be awarded for the outstanding categories.

Two hundred and forty-nine books were received under the Scheme, which was initiated in 1952. The object of the scheme is primarily to encourage the development of Hindi language and literature.

This competition was the third held since 1952. The number of books for which awards were given till 1958 numbered 31.

Books for Neo-Literates

The Ministry of Education announced the award of 37 prizes of Rs. 500 each to the authors of the following books on the result of the fifth competition for books for neo-literates under the Government of India scheme "Encouragement of Popular Literature".

Under the scheme, prizes are awarded annually for good books for neo-literates in every regional language and at the same time prize-winning books and their approved translations in other regional languages are bought in bulk for distribution in community projects, N.E.M. Blocks and other educational centres. Prizes are announced each year on Gandhi Jayanti.

Good books for neo-literates in Hindi are purchased in bulk, the State and Central Governments sharing the cost equally. The Central Government, in addition, also pays transportation and packing charges.

About 550 books were received for the fifth prize competition.

Prize Books :

Assamese : "Mohan-Madhuri" by Pratulla Chandra Dutta; "Sustha Sabal (Joan Khan Mor)" by Kumudchandra Bardoloi.

Bengali : "Hatat Bipade" by Amarnath Roy; "Saper Katha" by Abani Bhushan Ghosh; "Prathamik (hikita)" by Shkr Kumar Chakraborty; "Kavi Kanka" by Debes Ray.

Gujarati : "Bapuna Jeevan—Prasango" by Manubhahen Gandhi; "Antare Antare Ajwala" by Kapila Thakore.

Hindi : "Garim Ki Kahan!" by Sarvaswari Brahmanand and Naresh Vedi; "Radha Krishna" by Acharya Chaturang; "Mangoo Bhalya" by Leela Avasthi; "Harshavardhan" by Prem Chand Majesh; "Sukhoo Ke Bete" by Vedprakash M.A.; "Desh Yon Aage Badhga" by Shusheela; "Kashmir" by Vishwamitra Sharma.

Kannada : "Panchamrit" by "Shreeveer" (V. C. Hittalmani); "Namma Manassu" by K. Varjja Udupa.

Malayalam : "Ningalum Kuttilalum" by V. C. Narayanan; "Rajuvum Asokhanum Postappeesil" by Miss C. Ratnam.

Marathi: "Ram Rajya" by Sumati Ponkshe; "Dichhe" Dham by S. K. Deole and R. M. Joshi; "Bhoodananteel Navalkatha" by Raja Mangalwedhekar; "Apla Desh Aple Wagane" by Madhusudan Pandurang Bhawe.

Oriya: "Ama Swadheen Sansar" by Golak Behari Dhall "Duniya Jagichh Aji" by Prafulla Samant Ray.

Punjabi: "Ki Khye To Kithon Llyaiye" by Kartar Singh; "Sada Panjab" by Pran Nath Meth.

Tamil: "Anuvin Rahasyam" by P. Gunasekar; "Nattu Vaidyar Nalla Vaiyar" by M. Deva Rajan; "Een Jathiyai Ozhikka Vendum Eppadi" by G. Paramasivan; "Lathilya Kiraman" by S. Ramasami.

Telugu: "Emtinali Endukutinali" by Samrajyam Srinivasarao; "Papanu Ela Penchali" by A. V. S. Rama Rao; "Bhooodevi" by T. Ramachandra Rao; "Kalasi Bathukudam" by G. Suramouli.

Urdu: "Maanul Chand" by Athar Parvez; "Duniya Badal Gai" by Safdar Abbas Naqvi.

In addition, the following three books were also adjudged as meriting prizes, but since their authors had already won 3 awards in earlier competitions, or no specific authors were mentioned on the books, they were approved for purchase only:—

"Kitna Sunder Desh Hamara" by Bhagwat Saran Padihyaya.

"Sanyukt Rashtra Sanatha" (Published by Delhi Library Board, Delhi).

"Hamara Bharat" (Published by Delhi Library Board, Delhi).

Out of the books, a further selection of five best books was made for additional awards of Rs. 500 each.

These were:

Bengali: "Hathat Bipade" by Amarnath Roy.

Gujarati: "Bapuna Jeevan Prasango" by Manubhai Gandhi.

Kannada: "Namma Manassu" by K. Varjia Udupa.

Tamil: "Anuvin Rahasyam" by P. Gunasekar.

Urdu: "Maanul Chand" by Athar Parvez.

Children's Books

Twenty-four children's books in 13 Indian languages were awarded (March, 1958), Rs. 500 each under the Union Government's scheme for promoting literature for children. The award is made by the Ministry of Education and this is the fourth competition of its kind.

Two thousand copies of each of the prize-winning books will be purchased for distribution in schools, libraries, children's centres etc at a price which the Ministry considers reasonable less 25 per cent discount as allowed by publishers on bulk purchase on condition that the get-up of the book is to the satisfaction of the Government of India.

The 24 books are:

Assamese: "Sonar Putali" by Hara Gobinda Das; "Ashoka" by H. N. Sarma.

Bengali: "Nakal Nengti Chenga-Benga II" by Himat Ghosh (Moumachi); "Gari Ghorar Galpa" by Salla Chakravorty.

Gujarati: "Pimpi" by Sombhai Patel.

Hindi: "Phool Khilai Hain Dull Dali" by Rudradutt Mishra; "Aao Karen Sawari" by Ram Chandra Tewari; "Nat Khat Chun Chun" by Shivmurti Singh Vatsa; "Dharti Mata" by Suraj; "Jagat Ki Kahaniyan" by Abdul Kaszak; "Hawa Ki Zaban" by Abdul Kaszak.

Kannada: "Muuni Maduve" by Ashalatha Alandker.

Malayalam: "Talappoli" by K. G. Sethunath; "Painkili" by T. V. John.

Marathi: "Minchi Bahuli" by Sumati Palgaonkar; "Nave (Gokul)" by P. L. Deshpande.

Oriya: "Duradeshara Pilanka Katha" by Adhiraj Mohan Senapati; "Mo Kela Sathi" by Godabarish Mahapatra.

Punjabi: "Aag di Kahani" by Gurbachan Singh.

Sindhi: "Baugh Bahar" by Parasaram Hiranand Sachanandani "Zia".

Tamil: "Parakkum Pappa" by Kalvi Gopalakrishnan.

Telugu: "Palabadi Patalu" by B. V. Narasimha Rao; "Janthuprapanchamu" by Varanasi Subramanyam.

Urdu: "Ranga Ke Aur Raag" by Freda M. Bedi.

The Ministry of Education also announced five additional awards of Rs. 500 each to the authors of the books or manuscripts who were awarded a prize of Rs. 500 each in the Third Competition of Books for Children under the same Scheme.

Hindi: "Neelam Aur Masahari Ki Deyi" by Sharda Misra; "Chitron Me Ek Do Tin Char" by Braja Rai Choudhri.

Malayalam: "Onappakky" by T. V. John.

Punjabi: "Vichari Everest" by R. S. Ahluwalia.

Telugu: "Naratana Bala" by Natraj Ram Krishna.

TEACHERS

The Union Ministry of Education instituted in 1959 a scheme of national awards to teachers, with the object of recognising the outstanding services of teachers to the community, and to raise their social status.

Under the scheme, 32 awards will be divided equally between primary and secondary school teachers. Each of the awards carries Rs. 500 in cash and a Certificate of Merit.

The teachers are selected from all over India. Out of the 32 awards, two each will go to teachers from each of the 14 States, two to teachers from the Union Territory of Delhi and the remaining two to teachers from the other Union Territories.

The scheme is likely to be extended later to members of the inspectorate and university teachers.

The following are the recipients of the award:

V. Narasimham (Headmaster, Municipal High School, Sriakulam), J. Shalik Abdullah (Government Junior Basic School, Mudfort, Secunderabad), (Andhra Pradesh); Girindra Nath Changkakati (Headmaster, Nizara High School, Nazira), Babula Gowami (Jorhat Maktab Model Primary School, Jorhat), (Assam); Uma Prasad Sinha (Headmaster, Pusa High School, Darbhanga), Nand Kishore Lal Sriyastva (Sawtelle Memorial Middle School, Arrah), (Bihar); Shankar Keshar Kanetkar (Mudholi High School, Phaltan), G. G. Patkar (Headmaster, Primary School, Mithabadi), (Bombay); Kidar Nath (K. U. Higher Secondary School), Fahla Ram Gulati (M. C. Primary School, Karol Bagh), (Delhi); Ghulam Mohamed Javide, Dharam Vir (Jammu and Kashmir); Kalandi Shekaran (St. Michael's Anglo-Indian High School, Cannanore), K. Ryrur Nayar (Upper Primary School, Punnoli), (Kerala); Sarman Lal Gautam (Senior Basic School, Mandla), Mihri Lal (Mission Higher Secondary School, Seoni), (Madhya Pradesh); A. M. Kannappa Mudalliar (Headmaster, Pachaiyappa's High School, Kancheepuram), P. Padmanabhan (Headmaster, Thiru V. K. Elementary School, Shenoyanagar), (Madras); H. Naba Kant Singh (Assistant Headmaster of

Johnstone High School), I. Shanghei (Teacher of Phadang Phadang L. P. School, Somsal), (Manipur); S. V. Kalmath (Headmaster, Model High School, Gadag), B. I. Chengappa (Senior Basic School, Hudikere), (Mysore); Basanta Kumar Dass (Peary Mohan Academy, Cuttack), Lokanatha Nanda (Dagarpada Model U.P. School, Cuttack), (Orissa); Veena Majit Singh (Headmistress, Fenton Ganj Higher Secondary School, Jullundur), Prakash Chand (Head Teacher, Government Primary School, Baljath), (Punjab); Jagat Narain Nag (Gandhi National School, Alwar), Rajindar Singh (Government Basic Primary School, Ganganagar), (Rajasthan); Sadguru Sharan Awasthi (Principal, B.N.S.D. College, Kanpur), Har Das Sharma "Shreevish" (Head Teacher, Basic Primary School, Sakrur), (Uttar Pradesh); Prabodh Chandra Goswami (Jenkins School, Cooch Behar), Harendra Kumar Sarkar (F. B. Primary School, Sarkarpura), (West Bengal).

ART

Below we give the Lalit Kala Akademi Awards for 1959. The work of the following artists were selected for the award of cash prizes of Rs. 1,000 each.

Modern:

Raghav R. Kaneria .. "Bull" (sculpture)
A. S. Jagannathan .. "The Dea'h"
Mohammed Yasir .. "The Marriage Procession"

Highly Commended:

M. Beddeppa Naidu .. "At the 'afe"
P. L. Jain .. "Composition"

Academic-Realistic:

Ratan Wadke .. "Portrait"
Sunil Kumar Das .. "Three Horses"
Dipak Prosad Banerjee .. "Steel Exterior"

Highly Commended:

Arun Bose .. "Playful Light"
Dipak Prosad Banerjee .. "Rajani Gandha"

Oriental:

P. Khemraj .. "Lost in Nature"
Bhagwan Kapoor .. "Sindhi Buhl-ranu"

Bihari Barbhaiya .. "Krishna Waiting for Radha"

Highly Commended:

Balvantray A. Joshi .. "Tulasi Vivah" (in Saurashtra)

The Committee abided by the classification according to the artists' declaration. Only in cases where the artists did not classify their works did the Committee use its discretion.

The Committee finally considered all the nine prize-winning exhibits together and unanimously awarded the GOLD PLAQUE to the following, as the best exhibit of the year:—

"The Marriage Procession" by Mohammed Yasir.

MUSIC, DANCE, DRAMA

The Sangeet Natak Akademi Awards are given below. The winners are selected by the General Council of the Akademi.

The Award consists of a scroll signed by the President, a bracelet of gold chain and a shawl or *angavastram* bordered with gold lace.

In 1957 the Akademi also decided to give awards for the best plays and the best production of plays. For the present only two languages are eligible—Hindi and Tamil. Other languages would be chosen for future awards.

The award for the best play was to be a cash prize of Rs. 2,500, a gold "Shrinkai" (bracelet) and a shawl to the author of the play.

In the case of the best production, a prize of Rs. 2,500 was to be given to the "best adjudged production." The winning group was also to be paid Rs. 2,500 for production expenses.

The plays and scripts had to be original.

* Also awarded the Gold Plaque as the best exhibit of the year.

Below we give the awards for 1958-59 :—

Hindustani Music :

Vocal Krishnarao Shankar Pandit.
Instrumental Ustad Jehangir Khan.

Karnatak Music :

Vocal G. N. Balasubramaniam.
Instrumental Rajamanickam Pillai.

Dance :

Bharat Natyam Gauri Amma.
Kathak Sundar Prasad.

Drama :

Acting P. Sambanda Mudaliar.
Direction Shombhu Mitra.

Film :

Acting Ashok Kumar.
Direction Satyajit Roy.

FILMS

The President's Gold Medals are to be awarded to *Sagar Sangame* as the best feature film and to *Radha Krishna* as the best documentary film for the year 1958.

In addition, the producer of the feature film will get a cash prize of Rs. 20,000 and its Director Rs. 5,000. The cash prizes for the producer and director of the documentary film are Rs. 4,000 and Rs. 1,000 respectively.

All India Certificates of merit are to be awarded to *Jalsaghar* (Bengali) as the second best feature film and to *The Story of Dr. Karve* (English) as the second best documentary film.

The producer of *Jalsaghar* will get a cash prize of Rs. 10,000 and its director Rs. 2,500. In the case of the second best documentary film, the prizes are Rs. 2,000 for the producer and Rs. 500 for the director.

Among the feature films, *School Master* (Kannada) has been adjudged as the third best and earns an All India Certificate of Merit.

Call of The Mountains also gets an All India Certificate of Merit in the category of documentary films.

No film in the Children's Films category was found suitable for the Prime Minister's Gold Medal. The English short *Fursa and the Magic Doll* is to be awarded an All-India Certificate of Merit.

President's Silver Medals for the best feature films in respective languages have been awarded to *Sagar Sangame* (Bengali), *School Master* (Kannada), *Madhumati* (Hindi), *Runga Police* (Assamese), and *Pellintati Pramanalu* (Telugu).

The ten films assessed for the Regional Certificates of Merit are:—*Lajwanti* and *Karigar* (Hindi), *Dhakti Jaso* (Marathi), *Jalsaghar* and *Dak Harkara* (Bengali); *Thangapadunai* and *Annayai Anai* (Tamil); *Mangalya Balam* (Telugu); *Nairpidicha Pulicual* and *Randi-dangazhi* (Malayalam).

The assessments were made by the Central Committee of Awards, presided over by Dr. N. K. Sidhanta. Besides the Chairman, the Committee consisted of eleven persons four from the domain of culture, art and literature, Chairman of the three Regional Committees and of the Documentary Committee, and three representatives of the film industry.

The preliminary selections of the feature films were made by Regional Committees appointed by the Government of India at Bombay, Calcutta and Madras and of the documentary films by the Documentary Committee.

Filmfare Awards.

The awards for 1958 are as follows :

Best Picture : *Madhumati*.

Best Director : Bimal Roy (*Madhumati*).

Best Actor : Dev Anand (*Kala Pani*).

Best Actress : Vyjayanthimala (*Sadhma*).

Best Supporting Actor : Johnny Walker (*Madhumati*).

Best Supporting Actress : Nalini Jaywant (*Kala Pani*).

Best Story Writer : Pandit Mukham Sharma (*Sadhma*).

Best Music Director : Salli Chowdhury (*Madhumati*).

Best Dialogue Writer : Rajinder Singh Bedi (*Madhumati*).

Best Lyricist : Shalendra (*Pahudi*).

Best Playback Singer : Lata Mangeshkar (*Madhumati*).

Best Cinematography : Dillip Gupta (*Madhumati*).

Best Sound Recording : Ishan Ghosh (*Chandan*).

Best Art Direction : Sudhendu Roy (*Madhumati*).

Best Editing : Hrishikes Mukherjee (*Madhumati*).

The cash prize of Rs. 5,000 for the "Best Story Writer," announced by the Management of "Filmfare" at last year's awards function, went to Pandit Mukham Sharma.

Military, Police

The gallantry awards are as follows :

Vir Chakra : Nalk Balabhadur Mall 3/9 GR (Posth); L-NK Dharamsing Thapa 1/5 GR; Sub Sanbadhur Gurung 2 8 GR; L-NK Jashbadhur Thapar 2 8 GR; Nalk Warayam Singh 1 (Para) BN, Punjab Regiment; Jam. Janak Singh, C II Horse; Sep. Harpal Singh 2 BN, Rajput Regt. (Posth); Sep. Ran Singh, 2 BN, Jat Regt.; Maj. P. S. Gahoon, 7 BN, Punjab Regt.

Ashoka Chakra Class III : Hav. Tekbahadur Gurung, 2 4 GR; Rfn. Tilbahadur Gurjug, Assam Rifles (Post).

For bravery in the Naga Hills operations :

Ashoka Chakra Class II :

A/Major Daichand Singh, Pratap, 5 Gorkha Rifles; Rfn. Jaman Singh Gussain, 3rd Bn. The Garhwal Rifles; Rfn. Bhimbahadur Khattri, 1/9 Gorkha Rifles; Cfn./Elec. Jalkaran, EME; Capt. Harbans Singh, 7 Bn. The Assam Rifles; Jamadar Indra Bahadur Gurung, 3 Bn. The Assam Rifles.

Ashoka Chakra Class III :

Major Nand Lal Jamwal, 9 Gorkha Rifles; Lieut. Prem Narain Kacker, 9 Gorkha Rifles; Hav. Trilak Singh, Kathalt, 3 Garhwal Rifles (Posthumous); Nalk Gulab Singh Negl, 3 Garhwal Rifles; Nalk Prem Singh Negl, 3 Garhwal Rifles; Rfn. Rudra Bahadur Thapa, 2/9 Gorkha Rifles (Posthumous); Jemadar Balbir Singh, MM 3 Bn., The Para Regiment (Kumaon); Hav. Dewan Singh 3 Bn. The Para Regt. (Kumaon) (Posthumous); Nk. Purn Chand, 3 Para Regt. (Kumaon) (Posthumous); Sepoy Beg Raj, 3 Para Regt. (Kumaon), Subedar Dambar Bahadur Rana, 3 Bn. The Assam Rifles; Jemadar Manbahadur Pun, 4 Bn., The Assam Rifles; Nalk Bilbahadur Thapa, 5 Bn., The Assam Rifles; L N K. Narbahadur Chetri 3 Bn., The Assam Rifles; Rfn. Lok Bahadur Tamang 3 Bn. The Assam Rifles; Rfn. Sallg Ram Rana, 3 Bn., The Assam Rifles.

Police :

The following received the President's Police and Fire Services Medal :

Kalkhoorn Jehangir Nanavatty, I.P., Deputy Inspector General of Police, Bombay; Bal Makund Shukul, I.P.M., Deputy Inspector General of Police, Bhopal; Sunnangal Balakrishna Shetty, I.P., Inspector General of Police, Madras; Hari Sadhan Ghose Chaudhuri, I.P., Inspector General of Police (Officiating), West Bengal; Balbir Singh, I.P., Joint Director, Intelligence Bureau, Ministry of Home Affairs, Government of India, New Delhi.

BHOODAN

The position of the Bhoodan Yagna Movement upto 31st December 1958 is shown in the table below.

According to a resolution of the Sangh the main emphasis should be shifted from Bhoodan to Gramdan. Therefore no elaborate recording of the number of land donors, of families receiving Bhoodan lands, Sampattidan donors or Jeewan dan is now made.

The headquarters of the movement are at Akhil Bharat Sarva Seva Sangh, Rajghat, Kasli Varanasi (U.P.).

STATE	Land Collection (in acres)	Land Distribution (in acres)	No. of Gramdan
Assam	23,194	225	127
Andhra	2,39,950	84,296	481
Utkal	4,24,635	1,11,785	1,060
Uttar Pradesh	4,83,850	1,04,805	59
Kerala	29,021	2,126	543
Tamilnad	70,823	2,349	254
Delhi	398	157	—
Punjab	19,929	5,053	1
Bihar	21,13,938	2,86,286	130
Bombay :—			
Gujrat	47,486	11,527	63
Nag Vidarbha	86,778	45,000	—
Maharashtra	64,360	10,561	535
Saurashtra	31,237	8,185	2
Bengal	12,681	3,463	26
Madhya Pradesh	1,34,200	44,025	178
Mysore	19,973	2,527	66
Rajasthan	4,26,488	69,302	50
Himachal Pradesh	1,568	21	—
	42,30,409	8,52,352	4,475

CANAL WATERS DISPUTE

The partition of the country in 1947 gave rise to a dispute between the Governments of India and Pakistan about their respective rights over the waters of rivers and canals flowing from India into W. Pakistan and used for irrigation purposes by both countries.

The question arose about the distribution of the Indus-basin waters.

The Indus river system comprises six rivers—the Indus, the Chenab and the Jhelum, generally called the western rivers; and the Beas, Ravi and Sutlej, generally called the eastern rivers.

The western rivers flow into Pakistan, carrying about 120 mln. acre feet of water annually. The eastern rivers, entering the plains in Indian territory, and later joining the Indus in Pakistan carry about 30 mln. acre feet of water.

The three western rivers thus carry four times as much water as the three eastern rivers.

There are however some canals in Pakistan which receive about 10 mln. acre feet of water from the eastern rivers in India. Two of these, the Central Bari and the Divalpur canals depend for their supplies on works which are situated in India.

After partition India agreed to continue supplies to these two canals. To regularize the arrangements an interim agreement for the continued supply of water to Pakistani canals against payment was signed by the Chief Engineers of East and West Punjab in December 1947 and subsequently endorsed by the Punjab Partition Committee. This agreement expired on March 31, 1948 and was not renewed by Pakistan. Consequently, supply of water was discontinued from April 1, 1948 but was resumed three weeks later when the Chief Engineers of the two Punjab signed a new agreement recognising the East Punjab Government as the owner of the Upper Bari Doab Canal and of the Ferozepur Headworks and providing for the continued supply of water to West Punjab until the end of the year.

The Pakistan Government did not ratify this Agreement and accordingly a high-level inter-Dominion Conference was held in Delhi. Under the Agreement concluded at this conference on May 4, 1948, Pakistan recognised the East Punjab Government's right to develop irrigation in famine areas and to diminish progressively supplies of water to Pakistan canals, while India undertook to supply water to these canals for a reasonable period to enable Pakistan to tap alternative sources of water supply.

The Agreement worked smoothly for over a year but from July 1950 Pakistan refused to carry out her obligations under the Agreement in respect of seigniorage charges.

Then followed abortive negotiations between the two Governments, India pleading that there was enough water in the Indus system for the reasonable requirement of both countries for which a comprehensive plan could be prepared after a joint technical study.

Similar suggestions were put forward by Mr. Eugene Black, the President of the International Bank, on whose initiative negotiations were resumed. He visited India and Pakistan in February 1952.

Negotiations were resumed under the auspices of the World Bank when a working party, consisting of engineers from the two countries and technical representatives of the Bank, met in Washington during May-June, 1952. After a six weeks' tour of inspection of irrigation works and sites in India and Pakistan during December 1952-January 1953 they assembled in Washington on September 1, 1953 to draw up a plan on the basis of the data which had been collected.

No agreement was reached, but on February 6, 1954, the representative of the Bank, "as an impartial adviser free to express his views on any aspect of the matter" submitted a compromise plan of his own.

WORLD BANK PROPOSALS

The main points of the Plan were:

- (i) The entire flow of the three western rivers of the Indus system (the Indus, Jhelum and Chenab) would be available for the exclusive use of Pakistan, except for a small volume of water for Kashmir.
- (ii) The entire flow of the three eastern rivers (the Ravi, Beas and Sutlej) would be available for the exclusive use of India, except that for a specified transitional period India would supply to Pakistan "her historic withdrawals from these rivers". This period, estimated at five years, would be worked out on the basis of the time required to complete "link canals" needed in Pakistan to replace these supplies.
- (iii) Each country would construct and pay for the works located in its territory, but India would also bear the cost of link canals in Pakistan needed to replace supplies from India "to the extent of benefit derived by her therefrom". This was expected to amount to between Rs. 40 crore and Rs. 60 crore.

Under this plan India was to receive 20 per cent of the total flow of the Indus basin rivers for its 26 million acres while Pakistan was to receive 80 per cent for its 39 million acres.

Despite the heavy casualties involved, India on March 22, 1954 accepted the principles of the Bank proposals in the interest of a speedy and constructive settlement of this protracted dispute. Pakistan, on the other hand, pleaded that insufficient technical study had been given to the problem and asked for more time and further technical study. Later on Aug. 5, 1954 the Pakistan Prime Minister announced conditional acceptance.

At the instance of the Bank, discussions were resumed in Washington on December 6, 1954 on the basis of certain new terms of reference, the starting point being the division of waters according to the Bank's original proposals of February, 1954.

A mission from the Bank visited India and Pakistan in March and April, 1955, and toured the areas concerned in both countries together with Indian and Pakistani engineers and officials.

The Indian and Pakistani delegations continued to work, with the participation of the International Bank, on the preparation of a comprehensive plan, while interim arrangements providing for *ad hoc* transitional arrangements were renewed from time to time. The last of these was signed at the end of March 1959 to cover the period April 1, 1959 to March 30, 1960. The quantity allowed to be drawn by Pakistan was 6.5 million acre feet.

Discussion on the main issue was resumed when a Bank team headed by Mr. W. A. B. Illiff, Vice-President of the Bank, visited India and Pakistan in June 1957 and met the representatives of the two countries. As a result of these discussions, Mr. Illiff wrote to both sides a letter in which he set out certain general heads of agreement, based on the Bank Proposal of February 5, 1954 and on the Aide-Memoire dated May 21, 1956 as a firm starting point from which to proceed to the formulation of the detailed text of an International Water Treaty, and asked for the views, in writing, of the two Governments on these heads of agreement.

The two Governments indicated their views to the Bank and later furnished their comments on the views expressed by the other Government.

In January 1958, Mr. Illiff paid yet another visit to India and Pakistan, and made what was described as a fresh proposal. Mr. Illiff's approach envisaged the continuity of some supplies to Pakistan from the eastern rivers, allocated to India under the bank proposal of February, 1954, and withdrawal by India of an equivalent quan-

tity from the western rivers allocated to Pakistan. Some of the waters in the Upper Chenab could be diverted through the Marhu tunnel project into the Ravi and thereafter into the Beas through the existing Mahdopur-Beas link. This would enable India to release a corresponding quantum of water. This would result in a better utilization of water and at less cost. But the talks did not lead to any concrete agreement.

Further talks were held in Rome in April-May, 1958 on an invitation from Mr. Illiff. As a result of these talks the Bank suggested a new approach on the basis of which the Pakistan representative was asked to put up a replacement plan for all Pakistan uses from the three western rivers, with all the storage on her own territory.

As decided at the meeting held in Rome, the Pakistan representative submitted a plan to the Bank at a meeting held in London towards the beginning of July 1958. The Pakistan Plan was subsequently handed over to the Indian representative who, after a preliminary examination of the plan, obtained certain clarifications and asked for some additional information. The talks in London were accordingly adjourned on 31st July, 1958.

AD HOC ARRANGEMENTS

In the middle of 1958 there was a good deal of propaganda in Pakistan, alleging withdrawal by India of what was described as "Pakistan's share of the historic supplies" from the Sutlej and the Beas rendering 2.5 mln. acres dry. Pakistan also complained to the World Bank to which Mr. Nehru replied. The allegations were completely baseless and without foundation. The correct position was that in early *Kharif*, the river Beas is the only source of supply for all the Sutlej Valley canals in Pakistan and the Eastern and Bikaner Canals in India. The supplies in the river Beas were unusually low in 1958 from about the middle of May. In fact the quantity of water towards the end of May was hardly half of the average of the previous 10 years. The other eastern rivers, the Sutlej and the Ravi, were also running considerably below normal. As a consequence, some of the channels in India did not receive any water and in some areas even drinking water was not available. There were complaints from Amritsar, Gurdaspur, Ludhiana and Ferozepur. The Bhakra canals were closed for two months. Nevertheless the supply to Pakistan channels was continued in accordance with the principles put forward by the World Bank for the transition period.

In answer to a complaint from the Pakistan Prime Minister Mr. Nehru suggested that the exchange of data discontinued by Pakistan in March 1957 should be resumed.

As mentioned before the supply of water to Pakistan from the eastern rivers was regulated by *ad hoc* Agreements concluded between the two Governments. India was entitled, under these Agreements, to make additional withdrawals from the eastern rivers, equivalent to Pakistan's ability to replace these withdrawals through the link canals. The additional withdrawals made by India this particular year during the latter part of May and early June, were in fact, less than those provided for in the Agreement for *Kharif* 1958 when Pakistan's ability to replace was less than what it was in 1958.

Three of these link canals, viz. Bambanwala-Ravi-Bedian-Divalpur, Mersala-Ravi and Ballok-Suleimanke have been completed at a cost of Rs. 25 crores to replace supplies to the extent of five million acre feet of water, and Pakistan was pressing India to pay her share of the cost. The balance of replacement was now for only another five million acre feet.

Under the Bank Proposal of February 1954, the transition period for the complete withdrawal of waters of the eastern rivers from Pakistan was roughly estimated to be about 5 years. This period expired some time in 1959. Notwithstanding the country's pressing needs, the Indian

Government, with a view to promoting a settlement, informed the World Bank and Pakistan that India would be prepared to extend the transition period upto 1962 by which time the country will be in a position to utilize the waters for the Rajasthan Canal Project and other projects.

The World Bank sent out a team comprising Mr. Larz H. Bengtson, General R. A. Wheeler and Mr K. Guinness to study the situation created by abnormally low supplies in the rivers Beas and Sutlej. The World Bank team visited certain areas in Pakistan and India with the participation of the Indian and Pakistan representatives, during June-July, 1958 and collected necessary data.

Meanwhile, the exchange of data initiated by India was continued.

Incidentally the position with regard to the payment of canal water charges by Pakistan is that upto Sept. 30, 1958 Pakistan owed India Rs. 27-81 lakhs undisputed charges and Rs. 97-19 lakhs disputed charges. The undisputed charges upto Sept. 1957 have been paid in full. The rest are under negotiation.

NEW PLAN

The Pakistan plan put forward at the London conference in July 1958 was reported to cost about Rs. 350 crores and would entail a transition of 12 to 15 years. India rejected the Plan both on grounds of cost and the very long transition, and put forward alternatives of her own later when the World Bank officials Mr. Black and Mr. Iliff came to India in Oct.-Nov. for the annual meeting of the World Bank and the International Monetary Fund. The cost of these substitute projects varied between Rs. 80 crores and Rs. 110 crores and all could be executed in four or five years. India offered to contribute roughly Rs. 70 crores. It was also

pointed out that the Pakistan plan was fantastic in its proportions. The whole canal system of the undivided Punjab cost around Rs. 40 crores. Allowing for higher costs the resultant figure would not even approach the one mentioned by Pakistan—Rs. 360 crores.

The scheme proposed by India envisages the construction of a tunnel—the Mahru Tunnel under the Rohtag pass—to divert the Chenab waters into the Indian river system and the connected storage works to be sited largely on Indian territory and the delivery of an equivalent amount into the Pakistani canal system at another convenient site.

Link canals would then be built in Pakistan to make a total of five million acre feet since links to provide five million acre feet have already been built. The total cost of all this would be Rs. 140 crores (tunnel and storage Rs. 90 crores, proposed links Rs. 25 crores, links already built Rs. 25 crores).

Another advantage of this was that since all the works would be on Indian territory the question of payment by one country to another would not arise.

Discussions continued in Washington in December when both India and Pakistan rejected each other's plans.

In a final bid to settle the question the Bank then formulated a scheme of its own apparently embodying features of both the Pakistan and Indian plans. The President and the Vice-President of the World Bank then paid a visit to the sub-continent in May 1959 for talks with India and Pakistan. The two Governments are reported to have agreed to the general principles of the new plan. The only problem seemed to be finance and the Bank officials were hopeful that friendly Governments could be persuaded to share in the costs. The friendly Governments were the U.S., the U.K., Canada and Australia.

The entire cost of the scheme is reported to be about Rs. 125 crores and the time needed would not go far beyond 1962. The Mangla dam in occupied Kashmir to which India has strongly objected is reported to be part of the scheme. But storage scheme on the Beas on the Indian side costing Rs. 40 crores would also qualify for aid.

The chances of settlement are thus reported to be bright. The next stage would be a meeting in London at which the scheme might be finalised.

The contribution that India has to make towards the replacement works in Pakistan and the period for which she will supply water to Pakistan beyond 1962 will have to be settled first during the London talks before the parties proceed to draft the heads of agreement for an international water treaty between the two countries.

These two matters have hitherto defied solution but no insurmountable difficulties are expected to be experienced as the World Bank has offered a package deal to Pakistan.

The package deal as already mentioned envisages a contribution by India for the replacement works, aid by a number of friendly countries and a huge loan to Pakistan for developing the Indus basin in her territory. Even if India's contribution to the replacement works falls short of Pakistan's demand, the gap is likely to be made up by the aid from a number of friendly countries, including some Commonwealth nations.

Pakistan seems to realise that rejection of the World Bank's latest offer, might mean that she is unlikely to get such massive aid in future from a number of countries for developing her irrigation and power resources in her western wing. Therefore, Pakistan will pursue a conciliatory approach in considering the World Bank's latest plan.

CRIME IN 1957

A marked drop in crime in the dacoit-infested areas of Uttar Pradesh, Rajasthan and Madhya Pradesh was registered during 1957.

While the total number of cognizable crime remained practically stationary compared to that of 1956—5,81,371 as against 5,85,217—there were six important heads which recorded general decline. The heads were: rioting; house-breaking; robbery; kidnapping and abduction; ordinary thefts, and cheating.

Cases of rioting, which had been registering a continuous rise since 1953, showed a drop of 3-18 per cent, from 24,700 in 1956 to 23,750 in 1957. Similarly, incidence of house-breaking came down to 1,29,632 in 1957 from 1,34,556 in 1956. The kidnapping and abduction, which had been going up since 1952, showed a drop of 1-4 per cent, that is, almost 85 cases less than for the year 1956.

In the States, the noticeable decline in cognizable crime was in Bombay, Madhya Pradesh, Uttar Pradesh and Madras. However, a rise was discerned in Kerala, Bihar, Mysore and Andhra Pradesh and some Union Territories.

REASONS FOR CRIME

While Kerala ascribed the increase to better reporting and widespread political and labour agitations, Bihar explained that the increase was due to acute economic conditions caused by early rains and subsequent continued drought. Delhi said the increase in figures was due to improved facilities for registration, the establishment of a number of new police stations, the rapid increase in the population and the presence of a large floating population.

No specific reasons were given by any State to explain the reasons for murders. The majority of cases were said to be due to family disputes, party feuds, sex intrigues and revenge and not for purposes of gain.

In the Punjab, however, a professional murderer with 30 murders to his credit was ultimately tracked down by sustained police efforts. All these murders were for gain and a lust for killing.

The incidence of crime in cities (with over one million population) was higher than in the rural areas. West Bengal, however, was a peculiar phenomenon. Here, the average came to 241-8 (calculated at one per 100,000 of population) for the State, but if Calcutta were to be excluded, the figure would rise to 243-4.

Cases pending investigation at the end of 1956 were nearly 54,000. Investigation was completed in about 4,93,000 cases in 1957. Of these, nearly 1,30,000 cases or 26-3 per cent ended in conviction and 75,215 or 15-2 per cent in acquittal or discharge.

The percentage of conviction in the country averaged 26-3. However, in four States and two Union territories it was more: Madras 45-4 per cent; Himachal Pradesh 45-1 per cent; Mysore 41-5 per cent; Andaman and Nicobar Islands 41-4 per cent; Andhra Pradesh 38-6 per cent and Punjab 30-5 per cent. In the larger cities it was 56-2 per cent in Bangalore; 49-7 per cent in Madras and 38-6 per cent in Kanpur.

Sixty-seven police officers and men were killed and 1,192 were injured during 1957 in the performance of their duty. The highest number killed was in the Naga Hills and Tuensang area 16; Uttar Pradesh 12; Bihar 7; Madhya Pradesh and Rajasthan 5 each. Among the injured Bombay, including Bombay City, contributed 459; Rajasthan 214; West Bengal, including Calcutta, 117; Bihar 107 and Madras 70.

Almost 200 condemned prisoners were extended pardon by the President in exercise of his prerogative between 1955-57.

In 1957 mercy petitions totalled 200, of which 80 were accepted. In 1956, clemency was shown to 68 prisoners from among 192 who

filed petitions. In 1955, 45 of the 190 condemned persons were pardoned.

SURVEY OF CRIME

During the year 1957, 5,81,371 cognizable cases were reported to the Police.

The cognizable crime reported every year since 1948 was as follows:—

1948 : 6,25,909; 1949 : 6,54,019; 1950 : 6,35,508; 1951 : 6,49,724; 1952 : 6,12,010; 1953 : 6,01,964; 1954 : 5,56,912; 1955 : 5,35,236; 1956 : 5,85,217; 1957 : 5,81,371.

In 1957 crime remained practically stationary compared to 1956.

CRIME UNDER DIFFERENT HEADS

The table below shows the number of cases reported during the year 1957 under the more important heads of crime and their variations from the corresponding figures of 1956:—

Head	1956	1957
Total cognizable crime	5,85,217	5,81,371
Murder	10,025	10,419
Kidnapping		
Abduction	5,905	5,821
Dacoity	5,397	5,560
Robbery	7,618	7,408
House Breaking	1,34,556	1,29,632
Thefts { Cattle	19,924	20,340
Ordinary	2,16,290	2,12,899
Rioting	24,700	23,750
Criminal Breach of Trust	15,466	15,362
Cheating	9,519	9,388
Counterfeiting	596	629
Miscellaneous	1,35,221	1,40,163

CRIME—BY STATE

The table below shows the incidence of reported crime in the various States and centrally administered areas of India during the year 1957 and its variations from the figures of 1956 and the volume of crime calculated according to the international standard of 1 case per 100,000 of population:—

State	Total cognisable crime		Volume of crime per 100,000 of population 1957
	1956	1957	
Andhra Pradesh	37,429	38,610	123.5
Assam	17,665	17,223	190.4
Bihar	56,802	62,668	161.6
Bombay	1,16,377	1,07,450	222.7
Jammu and Kashmir	3,567	3,624	82.2
Kerala	8,718	12,103	89.3
Madhya Pradesh	66,841	65,807	244.7
Madras	55,011	52,300	174.5
Mysore	22,493	24,051	124.0
Orissa	19,789	19,476	132.9
Punjab	19,578	19,058	118.1
Rajasthan	19,032	18,599	116.4
Uttar Pradesh	67,693	64,857	102.6
West Bengal	63,200	63,609	241.6
Union territories :			
Andaman and Nicobar Islands	139	170	548.8
Delhi	7,796	9,736	558.4
Himachal Pradesh	1,236	1,255	113.2
Manipur	815	1,013	175.3
Naga Hills and Tuensang Area	—	228	61.8
Tripura	1,036	1,534	240.1
Cities with population of over one million :			
Bangalore	3,903	4,234	543.6
Bombay	17,277	15,892	559.8
Calcutta	10,977	10,725	234.3
Delhi	7,796	9,736	558.4
Hyderabad	3,353	4,025	370.6
Kanpur	1,819	1,461	207.1
Madras	8,516	7,145	504.7

CASES—DETECTION, CONVICTION—BY STATE

Below we give a table showing the position about cases, their detection by category during 1957.

State	Cases reported	Cases not detected	Cases convicted	Cases acquitted or discharged
Andhra Pradesh	38,610	11,207	11,272	5,425
Assam	17,223	7,509	2,999	2,294
Bihar	62,668	35,532	5,217	6,135
Bombay	1,07,450	47,767	23,331	13,348
Jammu and Kashmir	3,624	1,205	202	654
Kerala	12,103	1,091	3,806	6,312
Madhya Pradesh	65,807	31,407	15,066	5,581
Madras	52,300	16,094	20,461	7,852
Mysore	24,051	5,580	7,988	4,034
Orissa	19,476	8,009	3,484	2,160
Punjab	19,058	6,519	5,864	2,620
Rajasthan	18,599	6,475	3,375	2,488
Uttar Pradesh	64,857	31,332	15,112	7,997
West Bengal	63,609	36,074	8,404	6,983
Total	5,67,435	2,45,401	1,27,211	73,833
Union Territories :				
Andaman and Nicobar Islands	170	55	55	11
Delhi	9,736	5,139	1,653	746
Himachal Pradesh	1,255	184	409	213
Manipur	1,013	252	125	69
Tripura	1,534	253	82	306
Naga Hills and Tuensang Area	228	212	42	73
Total	13,936	6,075	2,366	1,418
Grand Total	5,81,371	2,51,476	1,29,577	75,251
Prominent Cities :				
Bombay	15,892	9,364	3,366	2,568
Calcutta	10,725	6,601	1,854	1,140
Delhi	9,736	5,139	1,653	746
Madras	7,145	2,986	3,517	570

NOTES

Below we give brief notes on the crimes.

Under Murder there was an increase of 8.6 per cent over 1956, this being the second consecutive year to register an increase. The States that showed an increase were Kerala (54.2 per cent), Kashmir (35.4 per cent), Andhra (24 per cent) and Mysore (13 per cent). The majority of the cases were said to be due to family disputes, party feuds, six intrigues and revenge and not for purposes of gain. 16,971 cases were available for disposal in the year. Out of these 6,798 were sent for trial. 3,098 ended in conviction and 3,686 in acquittal or discharge. The percentage of conviction to true cases investigated was 33.2, and of persons convicted to those tried was 32.6.

Decency has shown an upward trend—an increase of 3 per cent over 1956. Large increases occurred in Bihar (48.8 per cent), Mysore (32.6 per cent), Kerala (29.4 per cent), Kashmir (15.1 per cent). Decreases were registered in the dacoit infested areas of M.P. (14.5 per cent), Rajasthan (33 per cent), U.P. (2.7 per cent). Bihar ascribed the increase to economic conditions, Assam and Manipur to Naga hostilities. Charge sheets were sent up in 2,367 cases. 1,038 ended in conviction and 1,319 in acquittal or discharge. The percentage of conviction to true cases investigated was 21.0. The percentage of persons convicted to those tried was 30.5.

The incidence of Robbery has shown a decrease of 2.8 per cent. Increases were however recorded in Kerala (60 per cent), Delhi (46.2 per cent), Himachal (28 per cent), Bihar (23 per cent), Kashmir (18.6 per cent). In the 2,979 charge sheets sent to court 1,300 ended in conviction, 1,556 in acquittal or discharge, and 123 were withdrawn. The percentage of conviction to true cases investigated was 21.7. 6,886 persons were sent up for trial. Of these 2,283 were convicted, 3,843 acquitted or discharged and cases against 260 were withdrawn.

In House-breaking there was a decrease of 3.7 per cent. The States that registered an increase were Tripura (103.6 per cent), Kerala (55.8 per cent), Andamans (54.5 per cent), Himachal (10.7 per cent), Delhi (15 per cent). Charge sheets were sent up in 33,807 cases. 22,525 ended in conviction, 9,054 in discharge or acquittal. The percentage of conviction to true cases investigated was 18.6, and to cases tried was 71.4. 30,503 persons were convicted, 19,236 were acquitted or discharged. The percentage of conviction to persons tried was 61.3.

Ordinary Thefts decreased by 1.6 per cent. Increase in ordinary thefts were however recorded in Tripura (40.5 per cent), Delhi (24.5 per cent), Himachal (20.2 per cent). The States that recorded more than 20,000 cases of ordinary thefts were Bombay (43,076), West Bengal (28,673), M.P. (25,475), U.P. (22,135), Madras (21,178). The percentage of theft cases convicted to those investigated was 27.9, to cases tried 77.8. The percentage of persons convicted to those tried was 69.2.

The number of theft cases reported and those undetected (shown in brackets) were: Andhra 13,769 (4,567), Assam 4,584 (2,473), Bihar 19,173 (10,283), Bombay 43,076 (25,511), Kashmir 484 (246), Kerala 2,598 (453), M.P. 25,475 (12,410), Madras 21,178 (7,566), Mysore 8,846 (2,465), Orissa 7,814 (3,843), Punjab 4,889 (2,541), Rajasthan 3,722 (1,568), U.P. 22,135 (12,652), W. Bengal 28,673 (10,348).

Riots: The rising trend in riots since 1953 was arrested during 1957 which registered a decrease of 3.8 per cent. The largest increase was in Kerala (83.5 per cent), Tripura (40 per cent), Manipur (35.2 per cent), Punjab (32.3 per cent). 13,166 cases were sent up for trial; 3,724 were convicted; 7,839 were acquitted or discharged. The percentage of conviction to true cases investigated was 22.2 and to cases tried 32.2. 1,12,745 persons were tried, of whom 28,915 were convicted; 70,373 were acquitted or discharged. The percentage of persons convicted to cases tried was 29.1.

CASES—DETECTION, CONVICTION—BY CATEGORY

Below we give a table showing the position in regard to detection and conviction of crime for 1957.

Classification	Cases reported during the year	Cases not detected	Cases convicted	Cases acquitted or discharged
Murder	10,419	2,526	3,098	3,686
Kidnapping and Abduction	5,821	1,323	1,013	1,486
Dacoity	5,560	2,569	1,038	1,319
Robbery	7,408	3,009	1,300	1,556
House-breaking	1,29,632	88,126	22,525	9,054
Cattle Theft	20,340	7,566	8,693	2,297
Ordinary Theft	2,12,899	1,07,834	50,188	14,362
Riot	23,750	3,604	3,724	7,839
Criminal Breach of Trust	15,362	4,156	4,605	2,375
Cheating	9,388	3,196	2,491	1,496
Counterfeit Coins	629	193	183	128

PREVENTIVE DETENTION

At the end of 1958, 72 persons were held under the Preventive Detention Act in the various States.

State-wise, individuals detained on December 31, 1958 were : West Bengal—52 ; Bombay—six ; Assam, Punjab, Madhya Pradesh and Delhi—three each, and Rajasthan and Andhra Pradesh one each.

Among the sixty-eight persons detained for reasons involving either the security of the State or the maintenance of public order, 52 were from West Bengal, four from Bombay, three each from Madhya Pradesh and Punjab, two each from Assam and Delhi and one each from Rajasthan and Andhra Pradesh.

Two persons in Bombay and one in Assam were detained to prevent them from acting in a manner prejudicial either to the defence of India, the relations of India with foreign powers or the security of the country.

One foreigner was under detention in Delhi.

CRIMES—BY STATE

The following table shows the position about cases reported and convicted for 1957.

State	Murder		Dacoity		Robbery		House Breaking	
	reported	convicted	reported	convicted	reported	convicted	reported	convicted
Andhra Pradesh	955	210	130	25	231	71	7,158	2,710
Assam	340	81	323	31	205	25	4,634	472
Bihar	880	145	1,862	168	974	77	23,013	903
Bombay	2,010	624	762	120	2,460	394	19,128	3,123
Kashmir	65	9	61	3	83	—	998	56
Kerala	259	130	22	2	112	19	1,936	794
M.P.	1,166	390	531	79	691	160	15,149	3,037
Madras	756	349	99	18	281	98	7,114	3,210
Mysore	643	215	122	26	251	52	4,758	1,602
Orissa	239	74	49	20	178	27	4,353	644
Punjab	603	240	10	4	132	45	4,153	940
Rajasthan	414	115	61	31	349	63	4,810	807
U.P.	1,468	428	907	423	517	173	17,975	3,110
W. Bengal	406	61	510	80	810	76	12,250	777

SOME CORPORATIONS

THE INDUSTRIAL CREDIT & INVESTMENT CORPORATION OF INDIA LTD.

(Union Bank Building, Apollo Street, Fort, Bombay 1.)

The Corporation was established in 1955 with the object of assisting industrial enterprises in the private sector by providing finance in the form of long or medium-term loans or equity participations, sponsoring and underwriting new issues of shares and securities, guaranteeing loans from other private investment sources, furnishing managerial, technical and administrative advice and assisting in obtaining managerial, technical and administrative services to Indian industry.

The Authorised Capital of the Corporation is Rs. 25 crores and Paid-up Capital Rs. 5 crores in five lakhs Ordinary Shares of Rs. 100 each. Of this, Rs. 2 crores are taken up by Indian institutional investors, Directors and their friends and associates, and Rs. 1.5 crores by the Indian public. British and American subscriptions to the Share Capital amount to Rs. 1 crore and Rs. 50 lakhs respectively.

The Government of India have advanced to the Corporation a loan of Rs. 7.5 crores, free of interest, repayable in 15 equal instalments, commencing after the expiry of 15 years from the date of the advance. The World Bank has placed at the disposal of the Corporation a loan of 10 million dollars in foreign currencies.

The Fourth Annual Report for the year ending 31st December, 1958, discloses that the Corporation sanctioned financial assistance of Rs. 1,337 lakhs consisting of Rs. 1,021 lakhs in one form or another and loans in foreign currency equivalent to Rs. 316 lakhs.

No. of Operations	Amount sanctioned (In Rs. lakhs)
11 Loans in Rupees	348
9 Loans in Foreign Currency (Rupee equivalent)	316
18 Underwriting of Ordinary and Preference Shares and Debentures	550
14 Direct Subscriptions to Ordinary and Preference Shares ..	123
	<hr/> 1,337

The accounts for the close of the year 1958 disclose a Net Profit of Rs. 25.22 lakhs, which together with the amount of Rs. 1.55 lakhs brought forward from the previous year makes a total of Rs. 26.77 lakhs. The Directors have proposed Rs. 5 lakhs for General Reserve and recommended a Dividend of 4 per cent (tax-free) absorbing Rs. 20 lakhs and leaving Rs. 1.77 lakhs to be carried forward.

Directors: G. L. Mehta (Chairman), Dr. Sir Arrot Ramaswami Mudaliar, Ardesahir Darabshaw Shroff, Kasturbhai Lalbhai, Russell G. Smith, Dharamsey Mulraj Khatau, J. D. K. Brown, W. G. Pullen, K. K. Birla, L. K. Jha, I.C.S. (Government Director), D. G. Moore, (Alternate Director for W. G. Pullen), Robert Weber (Alternate Director for R. G. Smith).

General Manager: H. T. Parekh.

THE INDUSTRIAL FINANCE CORPORATION OF INDIA

(Main Office: Reserve Bank Building, Parliament Street, New Delhi; Bombay Office: Liberty Buildings, 41-42, Marine Lines; Calcutta Office: P-11, Mission Row Extension; Madras Office: 38, Whites Road, Royapettah).

Authorized Capital: Rs. 10 crores.

Issued and Paid-up Capital: Rs. 5 crores.

Board of Directors: K. R. K. Menon (Chairman), V. P. Varde, S. V. Ramamurti, G. D. Ambekar, S. P. Virmani, C. C. Desai, S. C. Roy, M. C. Muthiah, S. K. Basu, B. Venkatasubbiah, L. K. Jha, I.C.S., R. M. Deshmukh, M.P., A. Bakshi.

General Manager: H. V. Venkatasubbiah.

Secretary: Dalip Singh.

Profit and loss account for the year ended 30th June, 1958:

Interest, Discount, Commission, etc.: Rs. 1,54,90,888.48.

Total expenses: Rs. 1,01,47,736.55.

Provision for Taxation: Rs. 25,21,428.09.

Net profit: Rs. 28,20,490.16.

The Industrial Finance Corporation was established in 1948 under the Industrial Finance Corporation Act of 1948, with the object of providing medium and long term loans to and subscribing to debentures of existing industrial concerns engaged in, or new ones proposing to engage in, (a) the manufacture or processing of goods, or the generation or distribution of electricity or any other form of power or mining or shipping or hotel industry; (b) guaranteeing loans raised by aforesaid industrial concerns which are floated in the public market and are repayable within a period not exceeding twenty-five years; (c) underwriting the issue of stock, shares, bonds or debentures by aforesaid industrial concerns; (d) guaranteeing deferred payments in respect of import of capital goods by aforesaid industrial concerns.

Total amount of loans sanctioned by IFC up to end of June 1958 exceeds Rs. 62.90 crores. Amount sanctioned in 1957-58 was about Rs. 8 crores.

Interest on loans is 7 per cent less rebate of 1/4 per cent for prompt repayment.

THE NATIONAL INDUSTRIAL DEVELOPMENT CORPORATION LTD.

(P.O. Box No. 458, Udyog Bhavan, King Edward Road, New Delhi).

The National Industrial Development Corporation Private Ltd., was incorporated on 20th October 1954 and was registered as a private limited company with an authorised capital of Rs. 1,00,00,000 of which 10,000 shares only of Rs. 100 each have been fully subscribed by the Government of India.

Chairman: Lal Bahadur Shastri; **Vice-Chairman:** Manubhai M. Shah.

The Directors of the Corporation include both Government officials and non-officials and are nominated by the Government of India.

Managing Director: Dr. A. Nagaraja Rao; **Secretary:** S. Gopalan.

The Corporation plans and formulates projects for the setting up of new industries or developing new lines of production. It also acts as the agency of Government for the grant of special loans for the modernisation and rehabilitation of the Jute Industry and the Cotton Textile Industry. Government have also decided to utilise the Corporation as an agency for advancing loans to units manufacturing machine tools.

During 1958 some of the projects for which preliminary studies had been carried out through the agency of the Corporation have advanced considerably, and at the end of the year a new Corporation was formed to implement the Foundry/Forge, Heavy Machine Building, and Mining Machinery Projects. In the case of the optical glass project a detailed project report has been commissioned. Satisfactory arrangements have been concluded in respect of foreign exchange requirements for all these projects.

Final arrangements were to be made for the manufacture of chemical intermediates required

for the drugs and dyestuff industries. The Corporation's studies into the projects regarding aluminium, synthetic rubber and tungsten carbide are now being followed up by the private sector with proposals for new installations and for extensions. The Corporation is continuing its studies into the manufacture of phosphorus, sulphur, newsprint and rayon grade pulp, as well as the negotiations for the establishment of a raw silk factory.

For the rehabilitation of the cotton textile industry, the Corporation sanctioned during the year 1958 loans totalling Rs. 2.5 crores, the corresponding figure for the jute industry being Rs. 2.32 crores. Disbursements during the year amounted to Rs. 86.5 lakhs and Rs. 1.67 crores respectively.

NATIONAL PROJECTS CONSTRUCTION CORPORATION

(E-8, Jhandewala Estate, New Delhi).

The Corporation, sponsored by the Union Ministry of Irrigation and Power, was set up in 1957 with an authorised capital of Rs. 2 crores and present paid-up capital of Rs. 64 lakhs.

The object was to undertake construction of large-scale works which private firms do not accept either because of the risks involved or because of lack of resources. It also aims at improving the quality of building, minimising misère or wastage of material such as cement or steel, and a fuller usage of manpower and material.

In 1957-58 the Corporation worked on aspects of the Chambal projects both in Rajasthan and M.P. costing Rs. 91 lakhs in Rajasthan and Rs. 118 lakhs in M.P.; seven miles of the right canal of the Chambal project in Rajasthan and 27 cross drainage and communication works, earthwork and lining of 15 miles of canals. About 40 per cent of the work was completed.

The Corporation's programme of work for 1958-59 includes construction of the Wazirabad Barrage, which will ensure the supply of good water to Delhi throughout the year. The total cost of the work to be constructed by the corporation on this barrage, excluding gates and gearing, is estimated at Rs. 60 lakhs, and it will be completed in seven or eight months before the beginning of the monsoon.

Later the Corporation was given the work of constructing the Kosi barrage and two head regulators of the canals in Bihar, which cost over Rs. 5 crores.

The construction of the Badua dam in Bihar State, costing Rs. 63 lakhs approximately, and of additional masonry works on the Chambal right main canal in Madhya Pradesh, costing Rs. 30 lakhs, have also been undertaken.

Though profit-making is not one of the objects of the Corporation, it has shown a net profit of Rs. 3.29 lakhs or 8 per cent of the value of work during the financial year 1957-58. A dividend of 2 1/2 per cent has been declared in favour of the Government of India and the State Governments, which have jointly contributed to its capital.

Moreover, as the Corporation's rates are lower than those tendered by the contractors, the project authorities will save 8.3 per cent on the value of the work done by it.

The total savings to Government on both counts will be of the order of about 14 per cent of the value of works.

One indirect benefit to the Government is a general fall in rates quoted by private firms in the areas where the Corporation is working.

Managing Director: R. K. Gupta.

Chief Engineer, Planning: A. N. Malhotra.

THE NATIONAL SMALL INDUSTRIES CORPORATION LTD.

(Rani Jhansi Road, P.O. Box No. 349, New Delhi).

A Government of India concern, started in February 1955.

Authorised capital : Rs. 50 lakhs.

Paid-up : Rs. 40 lakhs. All shares are held by the President.

Upto 31st March 1959, 2,101 applications covering 8,471 machines valued at Rs. 6,29,97,986 were accepted out of which 2,234 machines valued at Rs. 1,84,06,413 were delivered to the hirers on hire purchase basis.

Chairman : A. S. E. Iyer.

Directors : N. C. Kasliwal, M.P., G. L. Banerji (Secretary General, Federation of Indian Chambers of Commerce and Industry), Santosh Singh (Proprietor, National Chemical Industries, New Delhi), Mrs. Pupul Jayakar (Hony. Industrial Adviser, Textile Designs, New Delhi), Dr. P. C. Alexander, I.A.S. (Dy. Secretary to the Govt. of India, Ministry of Commerce and Industry, New Delhi), B. G. Mundkur (Managing Director, Indian Handicrafts Development Corporation Private Ltd., New Delhi), B. D. Kumar (Dy. Secretary to the Govt. of India, Ministry of Works, Housing and Supply, New Delhi), B. R. Murgal (Dy. Secretary to the Govt. of India, Finance Division, Ministry of Commerce and Industry, New Delhi), P. C. Basu (Managing Director).

Managing Director : P. C. Basu; *Manager (Projects and Hire Purchase Division)*, Sagar Chand; *Manager (Marketing Division)*, Baldev Singh; *Manager (Industrial Estate Division)*, V. Nehra; *Secretary*, S. K. Chakraborty.

Till 31st March, 1959, contracts valued at Rs. 3,24,14,404 were secured by the small scale units from the D.G.S. & D. with the assistance of the Corporation.

The Corporation is marketing the following small industry products under its JANSEVAK trade mark through wholesale depots:—

Leather footwear, paints, cottons and woollens, hosiery, pottery, glass beads, etc.

The construction of Industrial Estates at Okhla (near Delhi) containing 35 factories (first phase) and Naini (near Allahabad) containing 34 factories has been completed by the Corporation. The Okhla estate was transferred to the Delhi Administration on 1st April 1959.

The Corporation is also setting up two prototype production-cum-training centres, one at Okhla and the other at Rajkot in collaboration with the West German Government and the Technical Co-operation Mission of U.S.A. respectively. The centres would produce prototypes of machines for the purpose of commercial production by the small-scale units and impart training to small entrepreneurs.

THE REFINANCE CORPORATION FOR INDUSTRY (PRIVATE) LIMITED

(P.O. Box No. 1241, Reserve Bank Building, Bombay 1).

The Corporation was established on 5th June 1958 mainly with the object that the American counterpart funds of \$ 55 million (about Rs. 26 crores) earmarked for re-lending to private enterprise in India may be channelled through it.

The Corporation will augment the resources available for the use of medium-sized industrial units in the private sector by providing re-financing facilities to its member banks against medium-term loans granted by them to concerns under this category.

The authorised capital is Rs. 25 crores.

The size of each share is Rs. one lakh and the names of the share-holders are as follows:

Reserve Bank of India; Life Insurance Corporation of India; State Bank of India; Central Bank of India Ltd.; Punjab National Bank Ltd.; Bank of India Ltd.; Bank of Baroda Ltd.; National and Grindlays Bank Ltd.; United Commercial Bank Ltd.; Lloyds Bank Ltd.; Allahabad Bank Ltd.; Chartered Bank; Indian Bank Ltd.; United Bank of India Ltd.; Mercantile Bank Ltd.; Devikaran Nanjee Banking Co. Ltd.; State Bank of Hyderabad.

Upto the end of April 1959 the Corporation received 10 applications for refinance from four member banks for a total sum of Rs. 270.50 lakhs.

Eight applications were approved and two were under consideration.

The total amount of loans approved was Rs. 243 lakhs, and the amount disbursed was Rs. 50 lakhs.

The income of the Corporation for the period ended 31st December 1958 was Rs. 14,09,311.27.

The expenditure was Rs. 2,82,429.06.

Loans given by the member banks, to be eligible for assistance from the Corporation, must be for medium-sized industrial concerns for amounts not exceeding Rs. 50 lakhs in any one case and the period of the loans should not be less than three years or more than seven years. These facilities will be available only to industrial concerns whose paid-up capital and reserves (excluding reserves for the payment of taxes and normal depreciation reserves) do not exceed Rs. 2½ crores in any particular case.

Loans must be for the purpose of increased production, primarily in industries included in the Second Five-Year Plan and succeeding Plans.

Board of Directors : H. V. R. Iengar (Chairman), P. C. Bhattacharyya, P. A. Gopalakrishnan, B. Venkatappaiah, N. K. Karanjia, F. E. H. Goddard, S. T. Radasivan.

General Manager : T. K. Ramasubramaniam.

THE STATE TRADING CORPORATION OF INDIA LTD.

(New Delhi).

Incorporated on 18th May, 1956.

The authorised capital is Rs. five crores, 5,00,000 equity shares of Rs. 100 each.

The subscribed capital is Rs. two crores. Two lakh equity shares of Rs. 100 each.

The President of India holds all the shares excepting two held by the Managing Director and the Chairman in their official capacity.

The objects of the Corporation are mainly to export from and import into India and to deal in such goods and commodities as the Board of Directors may from time to time determine.

The total value of the business contracted for exports and imports is Rs. 23.45 crores and 16.66 crores respectively for the calendar year 1958.

Export business was done in the following commodities: shoes, coffee, opium, sandalwood oil, handloom fabrics, handicrafts, jute bags, coir products, sugar, raw wool, cotton waste, gray dull, cotton yarn, salt, iron ore, manganese ore, chrome ore, anarona seeds, glycerine, hemp.

The countries with which the export business was done were: U.S.S.R., Czechoslovakia, U.S.A., Japan, E. Germany, W. Germany, Italy, Hungary, U.K., France, Belgium, Holland, China, Switzerland, Indonesia, Viet Nam, Rumania, Poland, Yugoslavia, Cambodia, Bahrain, Ceylon, Pakistan.

Items in which business of more than a crore were transacted were iron ore (Rs. 11.02 crores), manganese ore (Rs. 6.79 crores), caustic soda, ammonium sulphate, ammonium nitrate, machinery, cement.

Countries with which business of more than a crore was transacted were Czechoslovakia, U.S.A., U.K., U.S.S.R., Japan.

Import business was done in the following commodities: ammonium sulphate, cement, raw silk, skimmed milk, rice, caustic soda, soda ash, printing machinery, tractor, earth moving machinery, zinc, aluminium, textile machinery, B.T. insulators, scientific instruments, machine tools, various items of machinery, raw films, newsprint, ammonium sulphate, ammonium nitrate, muriate of potash, potassium chlorate, sodium bi-carbonate.

The countries with which the import business was done were: Japan, U.S.A., Viet Nam, China, U.S.S.R., G.D.R., Rumania, Czechoslovakia, United Kingdom, Bulgaria.

Items in which business of more than one crore was transacted were: ammonium sulphate (Rs. 1.72 crores), caustic soda (Rs. 1.76 crores), copper (Rs. 1.06 crores).

Countries with which business of more than one crore was transacted were: Poland, China, G.D.R., Czechoslovakia, U.K., U.S.S.R., Yugoslavia, Pakistan.

Regional offices of the Corporation have been opened at Calcutta, Bombay, Madras and Vishakhapatnam and sub-offices at Kakinada, Masulipatam, Kandla, Cochin and Nagpur.

Board of Directors : K. B. Lall, I.C.S. (Chairman), D. Sandilya (Managing Director), V. N. Rajan, I.C.S., Nagendra Singh, I.C.S., K. L. Ghel, I.A.S., Gurban Singh, N. N. Kashyap, I.C.S., H. R. Diwan, S. Ratnam, B. B. Saksena, S. V. Kanungo.

Secretary : K. N. Sinha, I.A.S.

Financial Adviser & Chief Accounts Officer : A. N. Kaul.

General Manager (Ordn) : B. K. Kochar.

Divisional Manager (Ordn) : B. B. Nag.

Divisional Manager (B & T) I : K. K. Nasta.

Divisional Manager (B & T) II : M. M. Saklani.

Divisional Managers (B & T) : H. K. Mathur, A. S. Sharma.

Divisional Manager (D & S) : S. N. Sen.

Chief of R. & S. Div. : R. C. Dube.

Director, Movement : C. D. Chatterji.

Addl. Divisional Manager : A. Nanu.

Regional Managers :

Regional Manager, Madras : E. C. Sankar.

Regional Manager, Bombay : B. N. Samarth.

Regional Manager, Calcutta : B. C. Mallik.

* German Democratic Republic.

DECIMAL COINAGE

DECIMAL coins were introduced in India with effect from 1st April 1957.

Current coins will continue to be legal tender for about three years after the introduction of the new coins.

During this period they will be gradually withdrawn from circulation.

The rupee coin is divided into 100 equal units and the unit designated Naya Paisa. Thus 100 naye paise make one rupee.

The new series have the following units one naya paisa, two naye paise, five naye paise and ten naye paise.

Later twenty-five naye paise, fifty naye paise and the new rupee coins will be issued.

The new coins are issued to the public through the Reserve Bank, the State Bank offices, treasuries and sub-treasuries.

The gross weight of one naya paisa coin is 23.15 grains. The composition (proportion of metals) of the coin is: 97 per cent copper, 2½ per cent zinc and ½ per cent tin. The diameter of the coin is 0.630".

GOVERNMENT ACCOUNTS

Government accounting with effect from 1st April, 1957 has been in terms of rupees and naye paise.

The State Bank and joint stock and co-operative banks also switched over to decimal accounting from 1st April 1957.

All chalangis in support of money tendered in payment of Government dues are, therefore, being expressed in new coinage. Similarly, all bills for withdrawals are expressed in terms of rupees and naye paise.

The forms of bills, chalangis and other books of account used by Government Departments are revised to provide only two columns to show rupees and naye paise separately. Until, however, the new forms and bills are printed, the existing ones will be suitably adapted for use.

A sum of Rupees 25 and five naye paise is written as Rs. 25.05 (and not Rs. 25.5) Rupees 25 and 50 naye paise as Rs. 25.50 (not Rs. 25.5); and Rupees 55 and 83 naye paise is written as Rs. 55.83.

For entering an amount of Rupees 25 and five naye paise, in forms providing for separate columns for rupees and naye paise, 25 are entered in the Rs. column and 05 in the naye paise column.

Amounts expressed in annas and pies are converted into whole numbers of naye paise according to the conversion table before they are entered in the books. The abbreviated form to be used for naye paise/paisa is nP.

Rounding off is made only at the stage when payment or tender of money takes place. In agreements, enactments, etc., where rates are specified, the rounding off should be made only in respect of the total amount payable, or receivable in a single transaction, and the amounts specified in rupees, annas and pies in financial sanctions, rules, orders, notifications, contracts, deeds or other enactments are automatically construed as expressed in terms of equivalent value under the decimal system without any rounding off.

While payment of Government dues is accepted in whatever currency it is made, every endeavour is made to make payment of Government dues only in new coins.

In order to enable the public to understand rightly the relationship of each new coin to the rupee the number of such coins required to make one rupee is indicated on the coins themselves. Thus the coin representing one naya paisa has a legend, "rupee ka sauwan bhag" (hundredth part of a rupee), embossed on it.

Similarly, 2, 5, 10, 25 and 50 naye paise units indicate that they represent 1/50th, 1/20th, 1/10th, 1/4th and one-half parts respectively of the rupee.

The design and composition of the new currency units are as follows:

The obverse sides of all the new coins have the design of the lion capital of the Asoka pillar with the terms "Bharat" in Hindi and "India" in English inscribed on them.

The reverse sides of all the new coins indicate the year in which the coins are produced and their value in naye paise specified in international numerals.

The 100 naye paise, 50 naye paise and 25 naye paise are of pure nickel while 10, 5 and 2 naye paise coins are of cupro-nickel alloy (75 per cent copper and 25 per cent nickel). The one naya paisa coin is of bronze.

After the people have got accustomed to the use of the new coinage and sufficient quantities of new coins have been put into circulation, the existing coins which continue to be legal tender after April 1, 1957, will be withdrawn.

Coins of the denominations of two annas and under are being withdrawn first, as decimal coins of ten naye paise and below are put in circulation in sufficient quantities at the initial stages.

According to the rate of exchange prescribed in the Indian Coinage (Amendment) Act 1955, there is no exact equivalent in naye paise in respect of coins of two annas and below and their change individually, or in combination with other coins, results in a small profit or loss in the aggregate to either of the parties exchanging the coins.

This element of profit or loss occurs as long as the existing coins continue to circulate,

but it will diminish progressively as increasing quantities of new coins enter into circulation.

The public can, however, keep down to the minimum the element of profit or loss in exchange of coins by having their holdings of existing coins exchanged for new ones by tendering amounts in terms of four annas and multiples thereof, for which exact equivalents in terms of new coinage exist.

The mintage of coins by denominations during 1957-58 is as follows:

		Rs.
Cupro-nickel 10 nP	..	1,55,04,000
" 5 nP	..	1,09,31,750
" 2 nP	..	64,36,800
Bronze 1 nP	..	35,01,600
Total	..	3,57,74,249

By the end of March, 1958 new coins of the value of about Rs. 2.56 crores were put into circulation. This included one naya paisa coins of the value of Rs. 38.69 lakhs, two naye paise coins of the value of Rs. 35.70 lakhs, five naye paise coins of the value of Rs. 61.21 lakhs and ten naye paise coins of the value of Rs. 120.28 lakhs.

Old coins of the value of Rs. 2.1 crores were withdrawn during the period April 1, 1957 to the end of February, 1958.

During 1958-59 decimal coins of the value of Rs. 3.44 crores were expected to be minted and put into circulation.

CONVERSION TABLE

The conversion table gives the exchange value in Naye Paise (rounded off in the manner prescribed in section 14 (2) of the Indian Coinage Act, 1955 as recently amended) for amount tendered in annas/pies coins. The exact Naya Paisa equivalent of the total amount to be converted is rounded off by ignoring fractions of ½ Naya Paisa and below, and treating more than ½ Naya Paisa as 1 Naya Paisa.

OLD COINS			NEW COINS		
Annas	Pies	Naye Paise	Annas	Pies	Naye Paise
0	3	2	8	3	52
0	6	3	8	6	53
0	9	5	8	9	55
1 Anna		6	9 Annas		56
1	3	8	9	3	58
1	6	9	9	6	59
1	9	11	9	9	61
2 Annas		12	10 Annas		62
2	3	14	10	3	64
2	6	16	10	6	66
2	9	17	10	9	67
3 Annas		19	11 Annas		69
3	3	20	11	3	70
3	6	22	11	6	72
3	9	23	11	9	73
4 Annas		25	12 Annas		75
4	3	27	12	3	77
4	6	28	12	6	78
4	9	30	12	9	80
5 Annas		31	13 Annas		81
5	3	33	13	3	83
5	6	34	13	6	84
5	9	36	13	9	86
6 Annas		37	14 Annas		87
6	3	39	14	3	89
6	6	41	14	6	91
6	9	42	14	9	92
7 Annas		44	15 Annas		94
7	3	45	15	3	95
7	6	47	15	6	97
7	9	48	15	9	98
8 Annas		50	16 Annas		100

Rounding off as has been done in the conversion table is necessary only at the end of a transaction when any amount due in annas and pies is to be converted into Naye Paise.

You can make payment either in new coins or in old coins or by a combination of both according to the coins available with you.

The conversion table is, therefore, to be used only at the end of a transaction when payment has to be made or change has to be given.

EVENTS OF THE YEAR (1st June 1958—31st May 1959)

JUNE

2: An Indo-Soviet Agreement for the operation of a weekly air service between New Delhi and Moscow is signed.

3: The Vivian Bose enquiry into the L.I.C. deal with Mr. Mundhra starts in New Delhi.

3: Seven Indian policemen are killed when Pakistani Police opened fire near Fazilka.

4: A three-man Indian mountaineering team successfully climbs the 23,000-foot Mount Trisul in the Garhwal range.

6: The U. S. Senate accepts a resolution favouring long-term and expanded U.S. economic assistance for India.

9: A joint Indo-Pakistan enquiry into the Fazilka incident starts.

11: The Kashmir Treason Case opens at Kurd.

12: The joint enquiry into the Fazilka incident ends.

15: A nation wide port and dock workers' strike begins.

16: The police open fire on striking dock workers in Madras. Five killed and fifty injured.

20: Representatives of India and Pakistan submit divergent reports to their respective Governments on the Fazilka incident.

22: Mr. Feroze Khan Noon, Prime Minister of Pakistan declares that the Pakistan Government would prevent all attempts by Pakistanis to cross the cease-fire line in Kashmir.

25: The strike of port and dock workers is called off.

An agreement is signed between India and the U.S. under which India will get a loan of 20 million dollars from the U.S. for developing iron ore mines in Orissa.

28: Pakistan police intercept the march of groups of Pakistanis across the cease-fire line into Kashmir.

30: A joint management council is inaugurated at the Hindustan Machine Tools Factory, Bangalore—the first experiment in workers' participation in management in the public sector.

JULY

1: A direct cargo service between India and the U.S.A. is inaugurated in Calcutta.

3: A reduction in excise duty on coarse and medium cloth is announced to help the textile industry.

16: The first ship built by the Hindustan Shipyard for the Indian Navy is launched.

20: The Government of India decides to accept the pay scales recommended in the Chaudhuri report for port and dock workers.

25: The Indian Institute of Technology, Bombay is inaugurated.

Pakistan rejects India's protest on the border incident near Fazilka.

AUGUST

7: Pakistan forces occupy Tukergam, a village on the Assam border.

9: The Prime Minister of Pakistan appeals to Mr. Nehru to bring about peace on the border.

11: Mr. Nehru in a statement in the Lok Sabha offers to discuss border disputes with the Pakistan Prime Minister.

East Pakistan Government seals the border between Sylhet and Khasi-Jaintia hills.

12: Disturbances break out in Ahmedabad as the police remove 'martyrs' memorial'. Twenty-four hour curfew is imposed on the city.

13: The Government of India demands the vacation of aggression from Tukergam.

Demonstrators and police clash in Ahmedabad and police open fire.

14: Direct air service between Delhi and Moscow is inaugurated.

15: The Maithon Hydel Power station of the D.V.C. is inaugurated.

17: Pakistan re-opens East Pakistan-Tripura border traffic.

22: A private limited company 'Indian Refineries' is registered in New Delhi.

25: The Supreme Court rules that the defilement of idols is a punishable offence.

27: International talks on India's balance of payments position are held in Washington under the presidency of the President of the World Bank.

28: U.S., Britain, Canada, W. Germany, Japan and the World Bank in Washington jointly decide to under-write India's foreign currency deposit.

30: An Indo-Pakistan conference at Secretariat level on border disputes begins in Karachi.

SEPTEMBER

1: Failure of the Indo-Pakistan Conference at Secretariat level on border disputes is announced.

9: The Indian and Pakistani Prime Ministers begin discussions in New Delhi on the Indo-Pakistan border dispute.

First coke oven battery is lit at Bourkela. The U.S. announces a loan of 303 million dollars to India.

11: A joint communique on the border talks between the two Prime Ministers reveals that all border disputes are settled except two in the eastern region and five in the western region.

12: It is announced that oil has been discovered in the Cambay region of Bombay.

16: The Prime Minister leaves New Delhi on a four-day visit to Bhutan.

17: The Lok Sabha passes the Merchant Shipping Bill.

23: The President leaves New Delhi for Calcutta on his way to Japan.

OCTOBER

1: The metric system of weights and measures is introduced.

2: The Prime Minister returns to New Delhi from his Bhutan visit.

5: The President returns to New Delhi after his eight-day State visit to Japan.

6: The Prime Minister opens the 13th annual session of the International Monetary Fund, the World Bank and the International Finance Corporation in New Delhi.

8: The Executive Council of the Banaras Hindu University announces the closure of the University.

The Prime Minister inaugurates the India-1958 Exhibition in New Delhi.

10: A new blast furnace, one of the biggest in the world, is commissioned at the Tata Steel Works at Jamshedpur, Bihar.

30: Rumania sends experts to work on the construction of an oil refinery in Assam.

NOVEMBER

5: Three Ministers of State and four Deputy Ministers in the U.P. cabinet tender joint-resignations to the Chief Minister.

8: The National Development Council meets in New Delhi.

10: Oil is struck at Vadser near Baroda.

12: An Indian, Mr. Satyajit Roy, wins the award for direction for his picture, 'Aparajito' at the San Francisco International Film Festival.

16: Sardar From Singh Lalpura, a Congressman, is elected President of the Shikharani Gurdwara Prabandhak Committee, defeating Master Tara Singh, the Akali leader.

A trade agreement is signed between India and the Soviet Union.

17: The U.P. Ministry is reshuffled following the resignation of nine members of the Government.

18: The Prime Minister of Canada Mr. John Diefenbaker arrives in New Delhi on a seven day visit.

DECEMBER

2: The first test match between India and the West Indies in Bombay ends in a draw. The match began on Nov. 28.

3: The President leaves on a two-week tour of Malaya and Indonesia.

10: The U.N. Assembly endorses its Special Political Committee's resolution appealing to South Africa to negotiate with India on the treatment of persons of Indian origin in South Africa.

11: Mr. Wilson Jones wins the World amateur billiards title for India in Calcutta.

12: The Chief Justice of the Supreme Court upholds the view that State legislatures and Parliament have the right to prohibit the publication of any debate or proceedings of the House.

13: The Congress Working Committee decides that legislation on land reform in States must be completed by the end of 1959.

17: The West Indies win the second Test against India in Kanpur.

19: The President returns to India from his twelve-day State visit to Malaya and Indonesia.

22: The Prime Minister of Ghana—Dr. Kwame Nkrumah, arrives in Bombay on a fortnight's visit to India.

The Indian film 'Pather Pancholi' is named the best foreign film of 1958 by the National Board of Review of Motion Pictures in New York.

27: Remnants of Puthkalavati, capital city of the Gandharas, who ruled 2500 years ago parts of the country in the north-west of India are discovered as a result of the excavations at Charsadda near Peshawar.

29: The West Bengal Assembly disapproves of the Nehru-Noon agreement for the transfer of the Berubari Union in Jhalpaiguri District to East Pakistan.

30: Master Tara Singh, the Akali leader, presents a memorandum on the Gurdwara Amendment Bill to the Prime Minister.

31: The Punjab Assembly passes the Sikh Gurdwara Amendment Bill.

JANUARY, 1959

1: State trading in foodgrains begins in Orissa.

Britain's agreement with India to give India a loan of £28,500,000 in the form of a credit under the Export Guarantees Act of 1948, signed on Dec. 20, is made public.

4: West Indies win Third Test Match against India in Calcutta by an innings and 336 runs.

9: The 64th annual open session of the Indian National Congress opens at Abhyankarnagar in Nagpur. The President Mr. U. N. Dhebar asks people to meet the challenge of a planned economy.

11: The 64th session of the Indian National Congress ends.

12: The Tata Iron and Steel Company sets up a Joint Consultative Council of Management associating employees with the management at the top level.

East German Premier arrives in New Delhi.

15: In accordance with the terms of the Nehru-Noon agreement some firm land at Sarandajpur in Rajshahi District in East Pakistan is transferred to India, and some char land in Murshidabad District is transferred to Pakistan.

16: Mr. M. O. Mathai, the Special Assistant to the Prime Minister, resigns his post to be able to answer charges made against him over the formation of a trust in his mother's name.

17: The President promulgates an ordinance—the Indian Income-tax Amendment Ordinance, 1959—to deal with concealed income cases.

21: The Indian Science Congress opens at Delhi University.

The Duke of Edinburgh arrives in India, lands in Agra instead of Delhi because of fog.

The Fourth Test between India and West Indies opens in Madras.

24: At a meeting in Hyderabad dissident Congressmen of Andhra decide to quit the Congress and form a new political party.

25: The country celebrates Republic Day.

28: The Industrial Court in Bombay rejects an application made by the Millowners' Association pleading for a one-third cut in the dearness allowance paid to cotton textile workers.

30: Country observes Martyrs' Day.

FEBRUARY

1: The first volume of Maulana Azad's biography entitled 'India Wins Freedom' is published.

2: The Indian Institute of Science, Bangalore, celebrates its golden jubilee. The President inaugurates the celebrations.

Mrs. Indira Gandhi is elected President of the Indian National Congress for 1959-61.

3: The Bourkela steel plant in the public sector starts production. The President performs the formal opening ceremony.

4: Bhilai steel plant starts production; is inaugurated by the President.

6: The fifth and final Test between India and West Indies opens in New Delhi.

7: A press communique on the talks between the Indian and the Afghan Prime Ministers in New Delhi says that the two are agreed in the rejection of military pacts.

8: Mrs. Indira Gandhi assumes office of Presidentship of the Congress.

9: The budget session of Parliament opens with an address by the President.

11: The final cricket Test between India and the West Indies ends in a draw in New Delhi.

12: A new aluminium smelter opened at Hirakud in Orissa with an installed capacity of 10,000 tons per annum.

A Democratic Party is formed by dissident Congressmen in Andhra after a convention at Vijayawada.

14: The Shiromani Akali Dal decides to abrogate the Congress-Akali pact, and revive political activity.

17: The Government of India orders an investigation into what had come to be known as the Mathal affair.

18: The production of a cheap and effective oral contraceptive at the Calcutta Bacteriological Institute is announced.

'Oil India' a partnership company of the Government of India and the Burmah Oil Company is incorporated in Shillong.

23: The Orissa Government is defeated in the Assembly on a snap vote. The Government motion seeking leave to introduce the Orissa Municipal Election Validation Bill, 1959, is lost by 43 to 51.

A one-man enquiry commission (Mr. P. C. Choudhry) submits an interim report on transactions relating to allotment of evacuee agricultural land in the Punjab. The report estimates that the Government has suffered a loss of several crores of rupees as a result of shady transactions.

24: A five-man Soviet delegation headed by Mr. A. A. Andreyev, member of the Presidium

of the Supreme Soviet arrives on a three-week goodwill visit to India.

The Report of the Committee of Privileges on the alleged contempt of the House by the Chief Minister of Kerala Mr. Namboodripad—is debated in the Lok Sabha and it is decided no further action is called for in view of the Committee's recommendations.

25: The report by the Law Commission on the 'Reform of the Judicial Administration' is published.

28: The annual budget of the Government of India for 1959-60 is presented to Parliament by the Finance Minister Mr. Morarji Desai.

MARCH

2: At a meeting of the Export Promotion Advisory Council, the Minister for Commerce and Industry issues a warning that if industry did not respond better to export incentives Government might be forced to embark on a scheme of compulsory exports.

The Rajya Sabha drops the charge of contempt of Parliament against Mr. M. O. Mathal on the latter's tendering an unqualified apology.

5: The U.S.-Pakistan Military Pact is signed in Ankara.

12: Master Tara Singh is arrested at Amritsar under the Preventive Detention Act and taken to Dharamasala.

13: The President, Dr. Rajendra Prasad, leaves New Delhi for Calcutta en route to Indo-China States on a twelve-day official visit.

19: Master Tara Singh tells Mr. Nehru that unless he receives a reply to his letter of March 14 by 10 A.M. on March 24 he would go on a fast unto death. The letter of Mar 14 carried a plea for the appointment of an arbitrator to enquire into the charge that the new Gurdwara Act made interference in the religious affairs of Sikhs possible.

There is news of a revolt of the Tibetans against the Chinese authorities in Tibet.

21: Master Tara Singh is released from Yole Camp and driven to Amritsar.

22: There are reports that the Tibetan revolt is at an end.

28: The Lok Sabha passes a resolution unanimously by voice vote favouring co-operation in the agrarian sector.

APRIL

2: The Government of India's plan for State trading in food grains is outlined by Mr. Jain, the Minister for Food at a meeting of the National Development Council.

The Revenue Minister of U.P. Mr. Charan Singh resigns.

3: Mr. Nehru announces the arrival of the Dalai Lama in India.

The National Development Council adopts the scheme for State trading in food grains at a meeting in New Delhi.

5: The Dalai Lama reaches Tawang in NEFA.

6: Master Tara Singh, President of the Shiromani Akali Dal, informs the Prime Minister of his decision to undertake a fast unto death from April 16 in New Delhi.

10: An Indian Canberra jet bomber is shot down by Pakistani jet fighters at Gujar Khan, 40 miles south of Rawalpindi at an altitude of 50,000 ft. Two members of the crew, S-Ldr. J. C. Sengupta and F-Lt. S. N. Rampal bale out and sustain injuries. They are taken to a Rawalpindi hospital.

11: India lodges protest with Pakistan over the air incident of April 10.

12: Master Tara Singh decides not to go on a fast unto death after a meeting with Mr. Nehru at which an agreement is arrived at.

S-Ldr. J. C. Sengupta and F-Lt. S. N. Rampal, the wounded airmen are brought to Delhi.

The Dalai Lama arrives in Bomdila.

18: The Dalai Lama hands in a written statement to the press at Tezpur on Sino-Tibetan relations and his escape from Tibet. China has broken the 17-point agreement with Tibet. Also, the Dalai Lama has come to India of his own free will.

20: Mr. Nehru makes a statement in the Rajya Sabha that the Dalai Lama would be free to carry on his religious activities. 'But political activities are not carried on from one country against another'.

27: Mr. Nehru states in the Lok Sabha that 'some thousands' of Tibetans have crossed into NEFA and some hundreds into Bhutan.

The foundation stone of the Kosi barrage scheme is laid by the King of Nepal.

MAY

1: The Ganga Bridge at Mokameh in Bihar is opened by Mr. Nehru. It is the longest bridge constructed in post-independence India. It links north and south Bihar.

3: It is reported that the Geological Survey of India has discovered a rich coal deposit at Sangrauni in Madhya Pradesh to the south of the Riband Dam.

7: Mr. M. O. Mathal who was special Assistant to the Prime Minister is cleared of the charge that he made improper use of his official position. A summary of the report made by the Cabinet Secretary, Mr. Vishnu Sahay is presented to the Rajya Sabha by the Prime Minister.

22: A new three-member Ministry is sworn in in Orissa. It is formed through a coalition of the Congress and the Ganatantra Parishad. The Chief Minister is Dr. Harekrushna Mahatab and the other two are Mr. R. N. Singh Deo and Mr. Radhanath Rath.

26: It is reported that in the Mundhra deal enquiry the Government of India has accepted the findings of the U.P.S.C. which has exonerated Mr. H. M. Patel of the charges preferred against him and has mildly censured Mr. G. R. Kamat for not exercising due care.

29: The recommendations of the Wage Committee for Working Journalists as well as the fact of Government acceptance are published in the Government of India Gazette.

31: The report of the Vivian Bose enquiry, the U.P.S.C. report and the Government decisions on the role of three officers in the L.I.C. deals with Mundhra are published. Mr. H. M. Patel is exonerated while Mr. G. R. Kamat is mildly censured.

HOUSING

It is estimated that in 1951 the shortage of houses was about 2.5 million on the assumption that each household should have a separate house.

The total urban population was 61.0 million, occupied houses 10.3 million and households 12.8 million.

The number of houses required to be constructed during 1951-61 to meet the shortage is estimated at 8.9 million. It is also calculated that during this period only about three million dwelling units would be constructed in urban areas. Thus housing shortage in 1961 would be about five million.

The revised provision for housing in the Second Plan is Rs. 84 crores. But since the execution of housing programme involves long-term planning it has been decided to sanction projects upto a value of Rs. 120 crores provided the actual expenditure during the Plan does not exceed Rs. 84 crores. Rs. 120 crores was the original allocation.

In the First Plan period about 1.3 million houses were constructed (742,000 by public authorities and 600,000 by private).

During the Second Plan period it is proposed to construct 1.9 million units.

Housing Schemes are administered by the Ministry of Works, Housing & Supply, the various other Central Ministries, State Governments and Local Bodies etc. They are all engaged in substantial housing programmes connected with development or social welfare projects.

Inclusive of the activities of the private sector, about 1.9 million houses are likely to be constructed in urban areas during the Second Plan period at a cost of over Rs. 1,000 crores, as under:—

Ministry of Works, Housing and Supply: 3,11,000 (to be reduced to 1,67,700 as a result of the re-appraisal of the Plan); Ministry of Rehabilitation: 24,500; Ministry of Labour and Employment: 33,000; Ministry of Health: 14,500; Other Ministries, State Governments and Local Bodies: 5,81,000; Private Sector: 8,00,000.

On the rural housing side, against a total estimated requirement of about 54 million houses to be replaced or reconditioned, it is possible that about 3 lakh houses might be provided under the housing programmes of the various Central Ministries.

Proposals under consideration include development of institutional finance, setting up of State Housing Boards or Corporations for the construction and management of housing estates and the financing of housing activities in the State, measures to facilitate land acquisition etc., and the making available of building sites at reasonable costs.

The housing schemes in operation are: Subsidised Industrial Housing Scheme; Low Income Group Housing Scheme; Slum Clearance Scheme; Scheme for House Building Advance to Central Government Servants; Plantation Labour Housing Scheme; Village Housing Projects Scheme; Middle Income Group Housing Scheme; and Scheme for Loan Assistance to State Governments for the construction of rented housing for their employees.

INDUSTRIAL HOUSING SCHEME

The cumulative total of financial aid sanctioned by the Central Government under the Subsidised Industrial Housing Scheme since its inception in September 1952 upto December 1958 amounted to Rs. 31.64 crores, to cover the construction of about 1,05,000 houses, out of which nearly 78,500 had been completed till November 1958. About 26,500 were under construction. The actual disbursement upto 31st March, 1959 to the different construction agencies however, amounted to Rs. 24.08 crores.

The State-wise break-up of houses sanctioned and built is given in the table below.

The State-wise position is shown below:

State	Houses sanctioned	Houses built.
Andhra Pradesh ..	4,158	3,140
Assam ..	404	112
Bihar ..	6,888	4,777
Bombay ..	37,122	25,156
Kerala ..	250	250
Madhya Pradesh ..	6,477	6,118
Madras ..	2,976	1,476
Mysore ..	6,791	6,412
Orissa ..	1,518	1,340
Punjab ..	3,987	2,642
Rajasthan ..	3,102	2,054
Uttar Pradesh ..	23,238	20,951
West Bengal ..	6,932	2,608
Total ..	1,05,843	77,036
Delhi ..	1,434	1,434
Grand Total ..	1,05,277	78,470

With a view to ensuring better progress, some important modifications were made in the Scheme during 1958. The State Governments were authorised to utilise the allocated funds for acquisition and development of suitable sites also, either for constructing houses themselves or for selling the sites after development, to employers or co-operative societies of industrial workers on a 'no-profit-no-loss' basis. In addition, Municipal bodies were also recognised as agencies for constructing houses under the Scheme for renting to industrial workers.

The quantum of loan assistance admissible to co-operatives of industrial workers as well as private employers was increased and the mode of disbursement of financial assistance was also liberalised, to afford greater incentive to these constructing agencies, to come forward and avail themselves of the benefits of the Scheme.

But neither employers nor co-operatives have taken full advantage of the scheme. About employers the opinion at the Housing Ministers conference in Darjeeling in 1957 was that legislation to compel them to build might be considered.

Under the Plantation Labour Scheme, introduced in April 1956, a sum of Rs. 5.85 lakhs has been sanctioned by the States to Planters for the construction of nearly 360 houses, out of which 40 had been completed by March 1959.

LOW INCOME GROUP

The Low Income Group Housing Scheme, which was introduced in November 1954, envisages the grant of interest bearing loans to State Governments and Union Territories either for constructing houses themselves or for giving advances to eligible persons with annual incomes not exceeding Rs. 6,000 to enable them to build their own houses. From the inception of this Scheme in November 1954 upto the 31st March 1959, a sum of Rs. 29.73 crores was advanced as loan. The total number of houses completed and under construction under this Scheme as on the 31st December 1958 was about 35,000 and 14,000 respectively.

The loan generally bears an interest of 4½ per cent per annum plus the administrative charges of the State Government, if any, which do not normally exceed 1 per cent. The loan is repayable in a period not exceeding 30 years. The quantum of assistance is limited to 80 per cent of the cost of the house, including cost of land, and is subject to a maximum of Rs. 8,000.

The scheme also provides for the grant of loans by the Centre to the State Governments for the acquisition and development of land. The rate of interest on such loans is about 3½

per cent per annum. This loan is repayable within three years, during which period the plots of land are to be sold, after development, to persons in the low income group on a 'no-profit-no-loss' basis.

Public institutions, run on a no-profit-no-loss basis, and non-governmental but recognised health institutions, hospitals, educational trusts come under this scheme for building houses to be given to their low paid employees on rent or on hire purchase terms.

State Governments, local bodies and the designated agencies of the State Government can also construct houses with loan assistance under the Scheme, provided not more than 25 per cent of such houses are given out to their own employees.

During the First Five Year Plan, 4,801 houses were completed under the scheme. As against the total allocation of Rs. 21.83 crores made to different State Governments during the First Plan period the amount actually drawn by them came to Rs. 10.89 crores.

In the Second Five Year Plan, the provision made for Low Income Group Housing is about Rs. 33 crores. During 1956-57, 1957-58 and 1958-59, loans amounting to about Rs. 5.95 crores, Rs. 6.31 crores and Rs. 5.81 crores, respectively were disbursed to the State Governments. Besides, another sum of Rs. 0.85 crore is expected to have been disbursed to loanes in Centrally administered areas during these three years. The outlay proposed for 1959-60 comes to Rs. 7.45 crores. It is observed that there is a great demand for loans under the scheme.

SLUM CLEARANCE

Since the inception of the Slum Clearance Scheme in May, 1956, 167 slum clearance projects of a total estimated cost of over Rs. 20 crores were received in the Ministry of Works, Housing and Supply till 15th March, 1959.

Out of these projects, 109 projects of the approved cost of Rs. 9.26 crores were sanctioned or approved by the Ministry for the construction of 19,070 tenements and the provision of 10,405 open developed plots of land, of which 1,078 open plots and 966 tenements have already been completed.

During the financial year 1958-59, a sum of about Rs. 170 lakhs was paid to the State Governments as the Central share of financial assistance.

The subsidy has recently been enhanced to 37½ per cent, the State's share of the subsidy remaining unaltered at 25 per cent. This relaxation is expected to bring down the rents to the paying capacity of the slum dwellers.

The two important principles on which the scheme is based are that there should be the minimum dislocation of the dwellers and the rents should not be beyond their paying power. Slum families whose income exceeds Rs. 250 per month in Bombay and Calcutta, and Rs. 175 per month elsewhere are not given any assistance under the scheme and they are expected to take advantage of the Low Income Group Housing Scheme. The provision in the Second Plan is Rs. 20 crores. It is hoped that some of the worst slums in the congested towns would have been tackled during the period.

Having regard to the meagre resources it is felt that in the initial stages it would be desirable to improve the environmental conditions by providing footpaths, public latrines, filtered water supply and street lighting.

VILLAGE HOUSING PROJECTS

The Village Housing Projects Scheme, introduced in October 1957 provides for the grant of financial assistance through State Governments, to intending builders, in the villages selected for development under the scheme, to the extent of 50 per cent of the estimated cost of construction of a house subject to a maximum of Rs. 1,500.

Necessary technical guidance is to be given by the State Rural Housing Cells set up at State headquarters. The scheme is based on the principle of aided-self-help and is expected to cover about 5,000 villages during the Second Plan period.

The State Governments drew about Rs. 50 lakhs till the end of March, 1959. By the end of 1959-60, the scheme is likely to be extended to 3,000 villages.

Up to December 1958 about 500 villages had been selected.

Below we show the allocation of grants made to the States for 1958-59 and the number of villages allocated for the Second Plan period: The first figure is in Rs. lakhs and the second shows the number of villages.

Andhra 7.0, 450; Assam 2.25, 150; Bihar 9 0, 600; Bombay 7.50, 500; M. P. 5.25, 350; Madras 5.25, 350; Orissa 3.00, 200; Punjab 3 00, 200; U. P. 12.75, 850; West Bengal 4.50, 300; Rajasthan 3.00, 200; Mysore 3.75, 250; Kerala 3.00, 200; Kashmir 0.75, 50; Delhi—, 20; Manipur —, 20; Tripura —, 20; H. P. —, 20; Andamans —, 20; Pondicherry —, 20; Total 70.00, —.

The Government of India have also set up a Regional Research-cum-Training Centres, through Ford Foundation assistance for undertaking work relating to research, training and extension, in rural housing.

The problem is enormous. Out of an estimated 54 million houses about 50 million have to be re-built completely or substantially. This would cost about Rs. 2,500 crores.

MIDDLE INCOME GROUP

For the first time, institutional finance in a systematic manner has been harnessed to housing, on a Governmental basis, under two schemes—Middle Income and Government Employees—which are being financed through funds provided by the Life Insurance Corporation.

Under the Middle Income Group Housing Scheme, introduced in February, 1959, the Life Insurance Corporation advances loans to the State Governments, at 5 per cent interest, repayable in 20 annual equated instalments. The State Governments, in turn, advance loans to individuals within the income range of Rs. 6,000-12,000 per annum, or their co-operatives, for the construction of houses for their bona fide residential purposes, recovering the amounts over the same period (or any shorter periods as the individuals may desire), with an additional interest of about ½ per cent to cover normal administrative charges.

The amount of loan admissible will be determined on the following basis: (a) 80 per cent of the estimated cost of construction, excluding land, subject to a maximum of Rs. 16,000 and (b) 80 per cent of the cost of developed land, provided that (i) the total of (a) and (b) does not exceed Rs. 20,000, (ii) the total cost of construction, excluding land, is not more than Rs. 25,000 and (iii) no assistance for land will be admissible to those who already possess a developed plot. The loans to individuals will be advanced in stages, the last instalment being granted only after ensuring that the house site has been developed according to the normal standards applicable to the area concerned.

The floor area of a house should not be less than 700 sq. ft. The State Government has to approve of the designs.

During 1958-59, a sum of Rs. 3 crores was advanced to the various States.

GOVERNMENT EMPLOYEES

House building advances are made to Central Government employees. During the year 1958, 310 applications for loan assistance to the extent of Rs. 33.87 lakhs were received out of which, 239 applications, involving the grant of loan, totalling to Rs. 28.51 lakhs were approved.

The scheme for loan assistance to the State Governments for the provision of rented houses for their employees was also introduced in February 1959.

A total sum of Rs. 1 crore was advanced to West Bengal, Madhya Pradesh, Andhra Pradesh, Mysore and Rajasthan under this scheme during 1958-59. The scheme is meant to help the State Governments, more particularly those which are seriously affected by the reorganisation of states, in the construction of new houses to be let out to their employees at reasonable rents.

All States have taken loans from Centre for implementing housing schemes for police forces under them. Commencing with an allotment of Rs. three crores in 1956-57 the Government of India provided till April 1959 Rs. 5.29 crores for this purpose.

Loans for police housing schemes were initially given to States on a matching grant basis, namely, the State Government concerned was to meet 50 per cent of the cost of the scheme while the Centre was to advance the balance by way of loan. At the request of some States the matching grant provision was later dispensed with.

STATE FINANCIAL CORPORATIONS

Below we give some items for 1958-59 which we were unable to include in the articles on individual States:

ASSAM

Total no. of applications received 163; no accepted for loan 69; total loan sanctioned Rs. 1,53,75,000; loan advanced Rs. 74,05,961; rate of interest charged, 7 per cent with ½ per cent rebate for timely repayment; income: Rs. 5,50,063; expenditure Rs. 77,637.

The figures are subject to audit.

ANDHRA PRADESH

The figures are for combined Andhra and Hyderabad, and given to the nearest thousand.

No. of applications received: 162; No of applications sanctioned: 100; Amount of loans sanctioned: Rs. 1,43,22,500; Amount disbursed: Rs. 80,21,000*; Amount recovered: Rs. 19,98,000; Rate of interest: 6 per cent per annum (net); Total expenses: Rs. 86,000; Total income: Rs. 7,01,000; Net Profits: Rs. 6,15,000.

* Includes Rs. 12,25,000 originally disbursed by the Madras Industrial Investment Corporation Ltd., Madras and subsequently transferred to this Corporation.

BIHAR

Total no. of applications received 55; amount involved Rs. 1,60,90,000; applications sanctioned

4; amount involved Rs. 31,50,000; applications rejected, one; amount involved Rs. 10,00,000; applications under consideration 49; amount involved Rs. 1,18,15,000. Total loans disbursed Rs. 28,67,000; loans outstanding Rs. 89,09,050.89; Rate of interest 6½ per cent with ½ per cent for timely payment; net profit after payment of expenses of administration and other charges Rs. 3,04,460. After making provision for taxes, transfer to Reserve Fund, balance available for meeting the guaranteed dividend of 3½ per cent Rs. 1,43,500.

BOMBAY

During 1958-59 the Corporation received 58 applications and the total loan applied for was Rs. 1,91,00,000.

The Board of Directors upto 31-3-1959 sanctioned loans of the aggregate amount of Rs. 3,83,60,000.

Under the State Aid to Small Scale Industries Rules, the Corporation received 108 applications and the total amount of loan applied for exceeded Rs. 51,10,000. The Corporation upto 31-3-1959 recommended loans of the aggregate amount of Rs. 21,05,000.

Board of Directors: Purushottam Kanji (Chairman); Ghanasham G. Thakker; Dr. M. H. Mandlekar; T. K. Ramasubramaniam; Pravin-chandra V. Gandhi; D. V. Potdar; V. P. Pandit; P. H. Bhutta; R. M. Drahmukh; R. S. Pochkhanawala (Managing Director, Offg.).

Officials: Managing Director (Officiating); R. S. Pochkhanawala, n.s.c. (Lond.), Bar-at-Law.

KERALA

Net Profit Rs. 5,25,440.71; Provision for Reserve Rs. 25,273 00; Provision for taxation Rs. 2,75,000.00; Balance available for guaranteed dividend Rs. 2,24,167.71; No. of loan applications received 30; amount involved Rs. 67,42,000; applications sanctioned in full 6; amount involved Rs. 20,75,000; sanctioned for reduced amounts 11; amount involved Rs. 13,22,000; full disbursement, applications 3, amount Rs. 3,24,000; partial disbursement, applications 13, amount Rs. 23,00,000; applications rejected or withdrawn 3; amount involved Rs. 12,90,000; Balance outstanding Rs. 1,18,50,085.85.

UTTAR PRADESH

Net profit Rs. 4,21,497.83; To statutory reserve Rs. 10,000; provision for taxation Rs. 1,87,000; balance available for meeting guaranteed dividend at 3½ per cent Rs. 2,24,497.83; loan applications received 32; amount involved Rs. 1,30,80,000; applications sanctioned 10; amount involved Rs. 24,20,000; applications rejected 8; amount involved Rs. 22,90,000; amount disbursed Rs. 20,77,500; amount outstanding Rs. 68,15,076.88.

IMPORT AND EXPORT TRADE

Rs. lakhs

	1956 April-Dec.	1957 [•]	1958 [†]
Total (sea and air) foreign trade	1,032.82	1,668.67	1,443.14
Imports*	597.55	1,025.82	884.18
Exports	430.18	637.74	570.56
Re-exports	5.09	5.11	8.40
Total Exports	435.27	642.85	578.96
Overall balance of trade	-162.28	-382.97	-285.22

* Excludes certain stores on Government account.

† Figures relate to sea, land and air foreign trade.

Trade during 1953-58

The following table shows the values in Rs. lakhs of the total import and export trade of India from 1953-54 to 1958. The total, includes trade across the land frontiers too :

	Imports	Exports	Balance
1953-54	580.67	539.62	-50.05
1954-55	633.05	588.24	-44.81
1955-56	649.64	591.23	-58.41
1956-57	842.53	601.36	-241.17
1957	1,025.82	642.85	-382.97
1958	864.18	578.96	-285.22

General Indices of Exports and Imports (1953-53 = 100)

	1955-56	1957	1958
Quantity Index :			
Exports	115	119.0	107.9
Imports	114	156.0	120.2
Price Index :			
Exports	93	94.0	101.0
Imports	94	98.0	95.7

India is essentially an agricultural country with farming regarded by the people as a tradition rather than as business. During the past 30 years the tendency has been towards rapid industrialisation. This change has been noticeable in the matter of foreign trade especially in the post-partition period. In 1920-21 finished goods represented 84 per cent of imports, while exports of raw materials accounted for 45 per cent of the total shipments. In the quinquennium ended 1929-30 imports of raw materials hardly represented 9.3 per cent of the total, while exports of raw materials were as high as 49.5 per cent of the shipments. By 1950-51 the share of raw materials under imports rose to 35.1 per cent while that under exports dropped to 20.8 per cent. The emphasis on higher industrial production during the intervening period was responsible for reducing the import of manufactured goods from 72.6 per cent of the total imports in the five years ended 1929-30 to 45.7 per cent in 1950-51, while the share of finished goods in the export trade rose from 26.6 per cent to 55 per cent.

EXPORTS BY CUSTOMS ZONES

The figures are for January to September 1958.

	Merchandise Rs.	Treasure Rs.
Calcutta ..	204,97,94,084	6,78,045
Madras ..	66,61,11,373	14,97,500
Cochin ..	42,15,50,770	—
Bombay ..	96,34,54,947	3,85,13,634
Baroda ..	5,16,14,631	84,406
Delhi ..	3,28,56,320	20,25,724
Patna ..	14,00,218	—
Shillong ..	10,66,816	78,327
Total ..	418,76,40,159	4,28,75,636

IMPORTS BY CUSTOMS ZONES

	Rs.	Rs.
Calcutta ..	234,49,04,557	9,98,203
Madras ..	81,87,21,205	25,11,057
Cochin ..	20,26,93,963	—
Bombay ..	225,78,51,093	37,44,71,657
Baroda ..	14,81,52,612	11,053
Delhi ..	3,73,68,662	80,56,089
Patna ..	11,11,508	—
Shillong ..	28,63,898	3,05,864
Total ..	571,36,57,498	38,64,13,983

The trends in the balance of payments during the years 1956-57 and 1957-58 and in the first half of 1958-59 are shown in the table below.

(Crores of Rupees).

	1956-59 April-Sept.	1957-58 April-March (Preliminary)	1956-57 April-March (Revised)
Imports c.i.f.			
(a) Private	275.2	682.0	804.8
(b) Government	250.8	492.8	291.3
Total	526.0	1,174.8	1,096.6
Exports f.o.b.	253.5	594.5	635.1
Trade balance	-272.5	-580.3	-460.5
Official Donations	+ 24.4	+ 29.2	+ 44.7
Other Invisibles (Net)	+ 37.3	+ 100.0	+ 100.0
Current Account (Net)	- 210.8	- 451.1	- 308.8
Errors and Omissions	+ 11.9	+ 4.4	+ 10.7
Official loans	+ 95.5	+ 87.1	+ 60.1
Other capital transactions (Net)	+ 17.1	+ 99.7	+ 36.1
Movement in Foreign Exchange Reserves (Increase + Decrease -	- 86.3	- 250.9	- 221.3

The most important development in the last two years has been the pressure on India's balance of payments position. Between 1956-57 and 1957-58, exports declined from Rs. 635.1 crores to Rs. 594.5 crores, whereas imports rose from Rs. 1,096.6 crores to Rs. 1,174.8 crores; the adverse trade balance thus increased from Rs. 460.5 crores to Rs. 580.3 crores. After making adjustment for favourable balance in invisible trade, which aggregated Rs. 153.7 crores in 1956-57 and Rs. 129.2 crores in 1957-58, there was an adverse balance of payments to the tune of Rs. 306.8 crores in 1956-57 and Rs. 451.1 crores in 1957-58. In 1958-59, import restrictions served to limit India's imports which amounted only to Rs. 526.0 crores in the first half of 1958-59. Exports during the first half of 1958-59 aggregated Rs. 253.5 crores. Thus, the visible trade balance was adverse to the tune of Rs. 272.5 crores, which was reduced to Rs. 210.8 crores as a result of net invisible exports of Rs. 61.7 crores. The second half of 1958-59 showed a more significant improvement in balance of payments position. There was an abatement of pressure on foreign exchange reserves, as the effect of severe import restrictions was more pronounced in this half-year than in the previous half year. Further, there was larger flow of assistance from abroad.

The impact of economic development on imports is illustrated by the increase in imports of capital goods which accounted for Rs. 368.0 crores in 1957-58 and for Rs. 197.8 crores in the first half of 1958-59, as against Rs. 329.2 crores and Rs. 219 crores in 1956-57 and 1955-56, respectively. A notable trend in India's imports is the declining importance of private imports of capital goods. During the years 1955-56, 1956-57, 1957-58 and first half of 1958-59, private imports of capital goods were Rs. 153.4 crores, Rs. 211.0 crores, Rs. 204.9 crores and Rs. 74.1 crores, respectively, and imports of capital goods on Government account were Rs. 60.4 crores, Rs. 118.2 crores, Rs. 161.1 crores and Rs. 123.7 crores, respectively. This trend reflects the emphasis on State participation in industrial production.

The rise in aggregate investment in 1958-59 was relatively small. While public investment was more than in the previous year, private investment was lower.

FOREIGN TRADE BY COUNTRY

(Rupees)

Countries	Jan. to Dec. 1958	Jan. to Dec. 1958
	Exports	Imports
COMMONWEALTH COUNTRIES		
<i>Europe</i>		
U.K.	165,24,23,635	168,53,42,593
Channel Islands	89,508	
Gibraltar	5,66,850	4,185
Malta & Gozo	7,13,795	11,514
<i>Asia</i>		
Cyprus	36,33,317	1,39,15,343
Aden (including protectorate)	6,85,86,757	75,42,159
Bahrain Island	2,81,98,926	2,90,03,206
Kuwait	3,75,33,648	8,25,67,164
Qatar and Trucial Oman	1,21,39,667	2,85,605
Pakistan (West)	2,87,55,925	36,43,523
(East)	4,24,29,472	5,91,79,930
Maldives	2,57,524	2,63,210
Ceylon	19,78,57,023	4,29,69,967
Singapore	9,50,29,706	9,29,49,222
Federation of Malaya	4,83,24,867	10,69,70,584
Narawak	1,76,874	806
North Borneo and Labuan	1,42,960	15,139
Hongkong	5,13,31,766	87,89,433
<i>Africa</i>		
Gambia	22,36,500	10
Sierra Leone	45,65,027	109
Ghana (Gold Coast)	1,00,36,875	43,40,565
Nigeria (incl. Cameroon under Br. Trusteeship)	6,84,24,838	33,91,497
St. Helena and Ascension	1,13,353	
S-W. Africa	1,540	10,12,607
Union of S. Africa	3,00,313	48,297
Bechuanaland - Protectorate		14,33,760
Swaziland	85,480	21,49,116
Rhodesia, Northern	26,95,099	5,62,57,704
Rhodesia, Southern	66,13,508	2,74,03,204
Zanzibar and Pemba	35,47,349	2,88,10,636
Kenya	4,60,04,763	11,50,03,467
Uganda	72,90,032	1,77,47,900
Tanganyika under British Trusteeship	2,35,92,330	2,88,00,738
Nyasaland	53,91,880	21,64,616
British Somaliland	11,68,038	13,909
Mauritius and Dependencies	1,10,07,967	3,488
Seychelles	9,69,298	65,62,974
<i>America</i>		
Canada (including New Foundland and Coast of Labrador)	14,53,99,325	34,65,78,725
Bermuda	14,789	1,614
Bahamas	38,944	
Jamaica and Dependencies	25,44,136	1,00,766
Leeward Islands	4,13,803	2,95,815
Windward Islands	5,26,221	
Barbados	13,21,020	5
Trinidad and Tobago	37,74,908	12,678
British Honduras	4,01,539	
British Guiana	41,62,326	94
Falkland Islands	1,01,970	
<i>Oceania</i>		
Australia	21,37,35,488	15,31,66,370
Territory of Papua	85,497	
New Guinea	14,39,756	
New Zealand	5,66,93,973	1,15,21,206
Western Samoa	1,82,950	
Fiji Islands	73,50,693	1,146
Br. Solomon Islands	50,636	
Tonga	92,759	67
Cook Islands (N.Z.)	33,582	
Niue Islands (N.Z.)	1,440	
FOREIGN COUNTRIES		
<i>Europe</i>		
U.S.S.R.	23,31,05,971	21,71,12,017
Finland	33,74,987	1,93,61,697
Sweden	1,52,55,468	8,95,82,398
Norway	1,14,30,412	3,38,61,011
Iceland	4,59,312	424
Irish Republic	4,72,98,021	
Poland	91,75,860	2,29,39,120
Denmark	2,03,81,984	3,32,58,682

IMPORT AND EXPORT CONTROL

Import trade control was first instituted in May 1940 for conserving the limited tonnage and the hard currency. In the post-war period, currency difficulties, the prospects of release of sterling balances and the Government's view on inflation were the guiding principles.

During the licensing period October, 1958-March, 1959, the Import Trade Control Organisation of the office of the Chief Controller of Imports and Exports received 1,73,834 applications for import licences. This is the highest figure in any licensing period with the exception of July-December, 1956.

The disposal of applications during the period stood at the figure of 1,73,721 as against 1,41,681 in April-September 1958. The total number of pending applications at the close of licensing period October 1958-March 1959 was 792 and this worked out to less than 5 per cent of the total receipts.

In all, import licences numbering 1,11,114 were issued during October 1958-March 1959 (up to March 14) as compared to 1,03,756 licences issued during the period April-September 1958.

The imperative need to conserve foreign exchange resources during 1958-59 persisted and dominated the import policy for the April-September 1958 and October 1958-March 1959 licensing periods. Nevertheless, within the limitations of the foreign exchange available, an attempt was made to ensure that industrial production was not adversely affected.

In the period April-Sept. 1958 quotas were increased mainly for items required for our industries, namely, textile chemicals and accessories, component parts of taper bearings, spare parts for machinery, chemicals not otherwise specified, industrial gums and resins and certain abrasives. In the case of machinery items, quotas were given only for two items, viz., printing machinery and agricultural tractors. Quotas were also increased for a few essential consumer goods like photographic sensitised materials and paper items. Quotas were reduced for items for which the indigenous industry was expected to make good the shortage, namely, coal tar dyes, a few types of motor vehicles parts, PVC compound, steel files, etc. Of the important consumer goods for which quotas were drastically reduced were fish, fruit and milk food.

A somewhat higher foreign exchange ceiling was allocated for raw materials for industries. Regarding capital goods, a rigidly austere policy was continued.

In the period Oct. 1958-March 1959 with the increased tempo of industrial activity, the requirements of raw materials and spares increased. But the need to conserve foreign exchange resources, however, persisted. The foreign exchange resources available for maintenance of the economy did not increase by any significant figure, but some relief was expected to be provided in due course as a result of the availabilities from the Development Loan Fund and the Export-Import Bank Loan and imports on rupee payment basis, from some of the countries that practise bilateral balancing. A somewhat larger allocation of foreign exchange was provided for essential industrial raw materials and spares. A licensing scheme to help exporting textile mills and handloom co-operatives to import their requirements of dyes and chemicals and machinery was announced.

Quotas were reduced for certain items on account of greater availability from indigenous production as in the case of ball bearings, electric motor starters, certain chemicals, engineering items like twist drills and metal working saws.

(Continued in Col. 3 next page)

FOREIGN TRADE BY COUNTRY—Contd.

(Rupees)

Countries	Jan. to Dec. 1958	Jan. to Dec. 1958
	Exports	Imports
FOREIGN COUNTRIES—(Contd.).		
Faeroe Islands	14,743	
Germany (Western) Incl. Saar	14,69,84,372	98,95,39,966
(Eastern)	72,29,397	1,09,34,659
Netherlands	6,72,37,858	9,81,87,874
Belgium	4,68,66,694	16,58,90,330
Luxemburg	4,429	76,73,765
France (including Corsica & Monaco)	7,05,95,434	16,96,16,841
Spain	54,33,794	50,72,325
Andorra	24,511	
Portugal (including Azores & Madiera)	17,48,281	34,50,094
Switzerland	76,67,118	9,68,20,380
Liechtenstein		332
Italy	5,49,63,965	25,56,95,268
Austria	20,45,965	2,13,67,301
Hungary	60,68,821	62,03,476
Czechoslovakia	3,93,84,917	6,48,96,269
Yugoslavia	97,43,284	2,25,17,517
Albania	4,602	
Bulgaria	7,09,793	7,01,368
Rumania	51,52,563	40,21,678
Greece (including Crete and Dodecanese)	72,58,847	10,33,258
Turkey	2,93,53,100	68,239
Asia		
Syria	1,51,48,978	72,515
Lebanon	17,97,787	15,78,287
Israel	2,04,747	38,370
Jordan	14,60,715	44,71,563
Muscat and Oman	39,59,989	41,13,476
Saudi Arabia	3,89,54,447	19,67,16,169
Yemen	74	7,286
Iraq	1,48,30,368	2,13,79,929
Iran	5,84,01,993	38,06,71,005
Afghanistan	3,16,86,760	5,00,12,102
Burma	7,48,03,688	45,53,79,113
Indonesia	2,86,12,585	3,30,75,115
Netherlands New Guinea	49,366	
Thailand	2,23,69,173	44,52,323
Democratic Republic of Viet Nam	25,14,874	1,15,79,378
South Viet Nam	1,71,31,139	21,90,200
Laos	6,593	6,796
Cambodia	66,91,838	7,164
Philippines	98,59,807	19,49,892
Portuguese Timor	12	
Japan	25,76,67,391	39,66,12,070
North Korea	1,650	325
South Korea	15,02,754	2,21,852
Formosa	80,863	1,25,965
China (including Manchuria but excluding Hong-kong and Macao)	3,42,10,306	5,23,20,030
Nepal	12,68,965	12,23,564
AFRICA		
Egypt	8,62,96,467	6,23,59,781
Sudan	7,16,24,335	7,49,02,130
Libya	29,55,361	78
Tunisia	18,99,792	10
Algeria	9,31,008	1,131
Morocco, Northern	6,24,945	6,54,092
Morocco, Southern	51,70,830	29,26,739
Tangier	6,25,017	283
Canary Islands	4,278	
Spanish West Africa	88,169	
French West Africa (including the Cameroons and Togolands under French Trusteeship)	66,02,894	2,24,748
Liberia	4,11,305	
French Equatorial Africa	9,41,568	20
Belgian Congo (including Ruanda Urundi Trust Territory)	13,14,318	1,18,98,323
Angola	27,92,014	
Portuguese Guinea	1,46,612	8
Cape Verde Islands	5,270	
Sao Thome et Principe	1,18,052	
Mozambique	98,15,008	5,78,69,964
Madagascar and Kerguelon	36,19,374	73,179
Reunion	2,71,289	
Italian Somaliland	27,81,350	99,885
French Somaliland	29,34,928	11,887
Ethiopia (including Eritrea)	2,35,76,231	13,352
Comoro Islands (other Fr. Possessions in Africa)	17,838	

* The land trade with this country is not fully recorded at present and is not covered by these statistics. The figures, if any, represent the trade by air.

For textile dyes and chemicals, quotas were reduced on account of additional direct licensing to exporting mills as mentioned above. The quota for camphor was deleted and the quotas for betelnuts and cloves were further reduced. Quotas were increased for spares of a few important items, e.g., earthmoving equipment, refrigeration and air conditioning machinery, etc. Quotas were also enhanced for certain types of tools and some chemicals. Small quotas were given for packing and wrapping papers, artificial silk yarn, sheets and plate glass, etc., quotas for which were 'nil' previous half-year. Imports of milk foods for infants, time-pieces, liquid paraffin, photographic goods and X-ray films were somewhat liberalised. In the case of non-ferrous virgin metals like copper, zinc and lead, quotas were withdrawn, but provision was made to ensure adequate supplies to actual users both in the organised as well as in the small-scale sectors. In the case of metal scraps, copper scraps, brass scraps and German silver scraps—quotas were provided for established importers. To avoid delays, the procedure for submission of applications by small-scale industries was revised. Applications can now be made direct to the licensing authorities with the essentially certificates obtained from the Director of Industries. It is no longer necessary to route such applications through the Development Commissioner, Small-Scale Industries.

The Government of India announced a new procedure under which licences for import of raw materials and components are proposed to be issued to 45 scheduled industries, based on the books of the Development Wing, in addition to their normal allotment for the licensing period beginning from April 1, 1959 (April-September).

The object is to ensure continuity of supply of raw materials to enable industries to plan their production better and to make advance arrangements for the purchase of some of their requirements of raw materials for the succeeding half-year.

The extent to which advance allotment will be made for the succeeding half-year would depend upon the essentiality of the industry. The allotment might vary from 50 per cent to 75 per cent of the allotment for the half-year. In exceptional cases it may be even more. The industries to which this procedure will apply have been specified in a schedule to the Public Notice.

The period of validity of all licences under the scheme would be 12 months unless otherwise specified.

In the import policy announcement for April Sept. 1959 the items for which quotas have been increased are asbestos packings, fractional horsepower motors, garage tools, hydrosulphite of soda, gum Arabic, cork manufactures, dyeing and tanning substances, bleaching powder, scientific and mathematical instruments and apparatus.

The basic period of 47 items has been extended to include the year 1957-58. The more important items for which the basic period has been extended are mercury, garage tools, X-ray films, tyres and tubes, spare parts of agricultural tractors, etc.

Quotas have been reduced for antimony ingots, leather belting, certain electrical equipment, cotton fabrics and a few items of textile accessories. There has been a minor cut in the quota for drugs and medicines, but this is more than compensated by additional licensing of items like P.A.S. and certain sulphur drugs. The quotas for mercuric chloride, phosphoric acid and dicalcium phosphate have been withdrawn.

(Continued in Col. 3 next page)

FOREIGN TRADE BY COUNTRY—Contd.

(Rupees)

Countries	Jan. to Dec. 1958	Jan. to Dec. 1958
	Exports	Imports
FOREIGN COUNTRIES—(Contd.).		
AMERICA		
U.S.A.	92,55,65,424	161,46,13,670
Cuba	4,65,13,933	798
Haiti	19,84,831	..
Dominican Republic	13,02,432	25
Puerto Rico	4,82,176	50
French W.-Indies (Guadeloupe and Martinique)	7,54,216	24,208
Virgin Islands of the U.S.	23,394	..
Netherlands Antilles	1,62,564	64,63,894
Mexico	6,80,337	3,43,373
Guatemala	10,427	..
Honduras (not British)	6,43,046	..
Salvador	1,20,323	..
Nicaragua	28,20,815	..
Costa Rica	25,60,361	2,210
Colombia	74,559	1,52,380
Republic of Panama	8,51,526	2,894
Panama Canal Zone	1,14,454	1,801
Venezuela	3,26,693	1,15,06,579
Surinam	11,29,811	..
Brazil	4,29,598	16,53,559
Paraguay	15,20,576	4,533
Uruguay	61,72,160	30
Argentina (including the Atlantic Coast of Patagonia)	9,25,10,384	2,05,903
Chile (including the Pacific Coast of Patagonia)	96,56,929	17,30,909
Peru	96,99,295	8,57,527
Ecuador	16,32,855	..
Bolivia	2,16,580	3,62,066
OCEANIA		
Hawaii	1,30,540	32,939
Guam	68,638	..
French Oceania (including <i>inter alia</i> , Tahiti)	66,321	8,718
New Caledonia (French)	5,982	..
American Samoa (including Swains Island)	10,286	..
New Hebrides (British and French Condominium)	34,715	59
Other Islands in the Pacific . . . . .	..	120
TOTAL	570,55,60,644	864,17,95,110
Total Value of articles under Reference	5,99,84,729	8,63,36,068
GRAND TOTAL	576,55,45,373	872,81,31,178

SUMMARY OF INDIA'S FOREIGN TRADE

(Rupees)

Sections, Divisions and Groups	Export 1958 Jan to Dec.	Import 1958 Jan. to Dec.
FOOD		
<i>Live animals chiefly for food</i>		
Live animals chiefly for food	13,12,900	3,87,863
TOTAL	13,12,900	3,87,863
<i>Meat and meat preparations :</i>		
Meat fresh, chilled or frozen	19,30,437	37,290
Meat, dried, salted, smoked or cooked, not canned	27,638	34,889
Meat canned and meat preparations, canned and not canned	54,55,556	1,33,241
TOTAL	74,13,631	2,05,423
<i>Dairy products, eggs and honey :</i>		
Milk and cream, fresh	2,661	897
Milk and cream, evaporated, condensed or dried	11,342	5,85,67,091
Butter	129	46,572
Cheese and curd	31,91,499	14,32,010
Eggs	1,020	2,21,745
Natural honey	259	3,118
Dairy products, n.e.s. . . . .	..	92,04,558
TOTAL	32,06,910	6,94,75,991

The Pakistan O.G.L. has been extended for a further period of three months. The only change in this Open General Licence is the addition of item raw hides and skins for import from Pakistan.

In view of the continued deterioration in the foreign exchange situation in the country, special steps were taken to increase exports during the year 1958-59. Export control was removed from over 200 commodities; the number of items subject to quota restrictions was reduced and the rest of the commodities under control were allowed to be licensed freely wherever possible. The decontrolled items included cotton textiles, silk fabrics, and art silk manufactures, jute manufactures, manufactures of iron and steel, aluminium, brass, copper and lead, castor oil, linseed oil, sugar products, glycerine, electrical instruments, paints, varnishes, and enamel. Olive oil, mutton tallow, synthetic resins, antimony ores, nickel and tin ores and old newspapers which were on the banned list were also decontrolled; so were cotton yarn, sewing thread, empty glass bottles, penicillin and indigenous gluten which were allowed on quota basis; cattle, poultry, dye stuff, etc., which were on the banned list are now allowed on *ad hoc* basis.

Procedural formalities were simplified to ensure that the procedures were employed to help rather than to hinder exports.

Export duties were reviewed and duties leviable on all vegetable oils, oilseeds and oilcakes were abolished. Full refund of excise duty of Rs. 112 per ton instead of 11/14th was allowed on export of castor oil.

TRADE AGREEMENTS

India has trade agreements or trade arrangements with 27 countries in Asia, Africa, Europe and other parts of the world.

The countries are Afghanistan, Austria, Bulgaria, Burma, Ceylon, Chile, China, Czechoslovakia, Finland, East and West Germany, U.A.R., Ethiopia, Greece, Hungary, Indonesia, Iraq, Italy, Japan, Norway, Pakistan, Poland, Rumania, Sweden, the Soviet Union, North Viet Nam and Yugoslavia.

Below we give the latest available position about the trade agreements which India has entered into with some countries. The information given within brackets relates to the dates on which the agreements were signed and the duration of the agreements respectively.

Afghanistan : (June 14, 1957-July 21, 1959). According to the exchange of letters on June 14, 1957 between the Governments of India and Afghanistan, imports of dry and fresh fruits and saffron from Afghanistan into India would be facilitated within a prescribed ceiling. The list of commodities for export from India includes green and black tea, spices, sugar, bidi and tobacco manufactures, cotton textiles, jute goods, woollen and art silk manufactures, leather and leather goods including foot-wear, films, machinery, building materials, chemicals, rubber goods, bicycles, motor cycles, paper and stationery, aluminium goods, iron and steel products, etc.

Austria.—(9th December 1952); (1st July 1952 to 31st Dec. 1958). *Imports:* Woollen piecegoods, cotton threads, newsprint, rubber threads (permissible types), chemicals chiefly bichromates and chromic acid, admissible types of textile, agricultural and wood-working machinery and electrical apparatus, etc. *Exports:* Castor oil, coal, coal yarn, fibres

(Continued in Col. 3 next page)

SUMMARY OF INDIA'S FOREIGN TRADE—Contd.

(Rupees)

Sections, Divisions and Groups	Export 1958 Jan. to Dec.	Import 1958 Jan. to Dec.
Fish and fish preparations :		
Fish, fresh or simply preserved	5,66,92,695	2,04,33,721
Fish and fish preparations, canned or not ..	12,36,080	1,98,516
TOTAL	5,79,28,775	2,06,32,237
Cereals and cereal preparations :		
Wheat and spelt (including meslin) unmilled ..		102,64,57,688
Rice	7,82,904	44,02,78,737
Barley, unmilled		
Maize (corn), unmilled		52,26,514
Cereals, unmilled, other than wheat, rice, barley and maize	2,226	1,46,42,023
Meal and flour of wheat and spelt (including meslin) ..	139	34,453
Cereals, milled, except wheat flour	108	1,77,185
Cereal preparations including preparations from flour and fecula of fruits and vegetables ..	12,33,042	15,41,830
TOTAL	20,18,419	148,83,58,430
Fruits and vegetables :		
Fruits and nuts, fresh (not including oil nuts) ..	17,35,61,413	12,30,76,546
Dried fruits, including artificially dehydrated ..	17,82,618	4,74,97,423
Fruits preserved and fruit preparations	6,10,092	81,257
Vegetables, fresh and dry, roots and tubers, not including artificially dehydrated	2,39,53,045	34,95,909
Vegetables preserved and vegetable preparations ..	1,16,44,845	1,05,669
TOTAL	21,15,52,013	17,42,56,804
Sugar and sugar preparations :		
Sugar	3,67,66,395	1,58,193
Sugar confectionery and other sugar preparations ..	1,97,048	26,559
TOTAL	3,69,63,443	1,84,752
Coffee, tea, cocoa, spices and manufactures thereof :		
Coffee	7,17,85,428	26,491
Cocoa	2,00,860	12,69,124
Chocolate and chocolate preparations	13,582	4,170
Tea and mate	136,54,43,445	8,73,082
Spices	8,83,13,704	2,83,70,299
TOTAL	152,57,57,019	3,05,43,166
Feeding stuff for animals (not including unmilled cereals) :		
Feeding stuff for animals (not including unmilled cereals)	7,58,76,186	18,168
TOTAL	7,58,76,186	18,168
Miscellaneous food preparations :		
Margarine and shortenings	1,361	3,462
Food preparations, n.e.s.	15,04,435	20,65,474
TOTAL	15,05,796	20,68,936
TOTAL OF FOOD	192,35,35,092	178,61,31,775
BEVERAGES AND TOBACCO :		
Beverages :—		
Non-alcoholic beverages	21,699	4,157
Alcoholic beverages	10,233	56,02,667
TOTAL	31,932	56,06,824
Tobacco and tobacco manufactures :		
Tobacco unmanufactured	14,70,10,236	1,36,21,133
Tobacco manufactures	1,58,59,805	3,34,964
TOTAL	16,28,69,841	1,39,56,097
TOTAL OF BEVERAGES AND TOBACCO ..	16,29,01,773	1,95,62,921
CRUDE MATERIALS, INEDIBLE, EXCEPT FUELS :		
Hides, skins and fur skins, undressed :—		
Hides and skins, undressed	7,17,00,981	1,31,39,203
Fur skins, undressed	18,79,343	1,98,539
TOTAL	7,35,80,324	1,33,37,742

for brushes and brooms, handicraft, manufactures of ivory, brass, horn and brocade, iron and manganese ores, lined oil, mica, myrobalans, shellac, spices, kapok, cashewnuts, walnuts, raw wool, pig bristles, cotton seed oil for industrial purposes, etc. and tanned leather, etc.

Bulgaria.—18th April 1956 (up to the end of 1955): *Imports*: Fruits and vegetables, chemicals, drugs and medicines, electrical instruments, machinery and equipment, diesel engines of 0-3 H.P. or above 30 H.P., films exposed, etc. *Exports*: Tea, spices, lac, essential oils, castor oil, raw wool, raw cotton, drugs and medicines, electric wire and cables, electric lamps, light engineering goods including sewing machines and plastic goods.

Burma.—(5th September 1951); 4th Sept. 1961—(extension under consideration). *Imports*: Rice, dyeing and tanning substances, stick lac, pulses, lead, teakwood, hardware and cutlery, wood and timber, metals and ores, handicrafts, cottage industry products, precious stones. *Exports*: Groundnut oil, fish, cotton piecegoods, coal manufactures, cotton yarns, drugs and medicines, surgical instruments, books printed and printed matter, coffee, tea, spices, light engineering goods, cotton manufactures, jute manufactures.

On July 14, 1956 another agreement was signed. India would export to Burma cotton textiles worth about Rs. 185 lakhs, against payment by Burma in U.S. surplus cotton.

Ceylon.—(15th July 1953); (Jan. 13, 1958—Aug. 31, 1961).

Ceylon has agreed (1) to facilitate the increasing use and import of Indian grown tobacco for cigarettes and other manufactures, (2) to maintain the import duty on bids at the level existing on the date of agreement and also to allow imports upto specified quotas.

On her part India has agreed to apply concessional rates of duty in respect of 4,430 candelas of Jaffna tobacco to be imported during the period 1957-58 to 1960-61 in gradually scaled down quantities annually.

Chile.—(16th October 1956); (up to 31st December 1959). *Imports*: Pulses, barley, fish and dried fruits, sulphur, Chilean nitrate, copper, lead, iron and steel, etc. *Exports*: Tea, cashew kernels, jams, spices, vegetable oils, drugs and medicines, mica, shellac, hides and skins tanned, cotton, woollen, silk and art silk, textiles, jute goods, films exposed, etc.

China.—(14th October 1954); (14th October 1954 to 31st Dec. 1959). *Imports*: Gypsum, graphite, orpiment, silk and silk piecegoods, hides and skins, wool raw, wool yarn and manufactures, paper and stationery, chemicals, oils, drugs and medicines, rice, soya beans, honey. *Exports*: spices (including chillies and pepper), tobacco unmanufactured, manganese ore, vegetable oils, essential oils, cotton raw, wool raw, sandalwood, hides and skins, mica, shellac, jute manufactures, cotton textiles, machinery and machine tools, mathematical and surgical instruments, light engineering goods, films exposed.

Czechoslovakia.—(30th Sept. 1957 to 31st Dec. 1960). *Imports*: Various types of machinery (such as complete industrial plants, welding machines and transformers, cigarette producing and textile machinery, industrial leather and rubber belting, industrial sewing machines, refrigerators, equipment for thermal and hydroelectric power stations and mining, machine tools, iron & steel wire netting, diesel

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SUMMARY OF INDIA'S FOREIGN TRADE—Contd.

(Rupees)

Sections, Divisions and Groups.	Export 1955 Jan. to Dec.	Import 1955 Jan. to Dec.
<i>Oilseeds, oilnuts and oil kernels :</i> Oilseeds, oilnuts and oil kernels	34,25,154	10,48,30,849
TOTAL	34,25,154	10,48,30,849
<i>Crude rubber including synthetic and reclaimed :</i> Crude rubber including synthetic and reclaimed ..	48,227	4,22,36,932
TOTAL	48,227	4,22,36,932
<i>Wood, lumber and cork :</i> Fuelwood and charcoal	4,040	1,58,493
Wood in the round or roughly squared	1,70,82,429	1,53,21,508
Wood shaped or simply worked	6,92,189	92,92,728
Cork, raw and waste .. .. .	..	15,61,264
TOTAL	1,77,78,658	2,63,33,991
<i>Pulp and waste paper :</i> Pulp and waste paper	6,446	3,81,58,751
TOTAL	6,446	3,81,58,751
<i>Textile Fibres (not manufactured into yarn, thread or fabrics) and waste :</i> Silk	10,28,291	24,84,268
Wool and other animal hair	9,34,54,818	11,07,91,145
Cotton	21,20,26,724	30,65,95,417
Jute, including jute cuttings and waste	10,518	3,38,93,779
Vegetable fibres, except cotton and jute	2,14,26,352	63,60,271
Synthetic fibres	11,37,311	8,04,082
Waste materials from textile fabrics, including rags	20,66,775	41,758
TOTAL	83,11,50,789	46,09,70,700
<i>Crude fertilizers and crude minerals, excluding coal, petroleum and precious stones :</i> Fertilizers, crude	17,18,748	1,41,49,529
Crude minerals, excluding coal, petroleum, fertilizer materials and precious stones	11,73,56,864	5,25,44,100
TOTAL	11,90,75,612	6,66,93,629
<i>Metalliferous ores and metal scrap :</i> Iron ore and concentrates	9,99,41,094	1,52,293
Iron and steel scrap	1,63,30,361	21,84,426
Ores of non-ferrous base metals and concentrates	18,63,15,955	67,09,834
Non-ferrous metal scrap	9,31,472	99,09,039
Silver and platinum ores .. .. .	..	8,451
TOTAL	30,33,18,882	1,89,64,143
<i>Animal and vegetable crude materials, inedible, n.e.s.</i> Crude animal materials, inedible, n.e.s.	3,88,11,068	19,71,201
Crude vegetable materials, inedible, n.e.s.	13,38,67,161	2,73,93,466
TOTAL	17,26,78,229	2,93,64,667
TOTAL OF CRUDE MATERIALS, ETC. ..	102,12,02,321	80,08,86,404
MINERAL, FUELS, LUBRICANTS AND RELATED MATERIALS		
<i>Mineral fuels, lubricants and related materials :</i> Coal, coke and briquettes	5,57,81,487	9,24,675
Petroleum, crude and partly refined .. ..	..	15,53,86,002
Petroleum products	4,11,10,338	60,29,71,689
Gas, natural and manufactured .. .. .	..	3,159
Electric energy .. .. .	..	..
TOTAL	9,68,71,825	75,92,85,525
TOTAL OF FUELS, ETC.	9,68,71,825	75,92,85,525
ANIMAL AND VEGETABLE OILS AND FATS		
<i>Animal and vegetable oils (not essential oils), fats, greases and derivatives :</i> Animal oils and fats	2,43,240	43,31,352
Vegetable oils	7,44,80,378	3,84,38,171
Oils and fats processed and waxes of animal or vegetable origin	76,86,877	11,77,536
TOTAL	8,24,10,495	4,39,47,059
TOTAL OF ANIMAL AND VEGETABLE OILS AND FATS	8,24,10,495	4,39,47,059

locomotives, agricultural tractors and parts, newsprint, etc. *Exports:* Tea, spices, tobacco, cashewnut, vegetable oil, cotton raw and cotton waste, shellac, mica, manganese ore, crushed bones, raw wool, Indian handicrafts, cotton, rayon and woollen textile, cotton and rayon knitted goods, plastic goods, sports goods, carpets, coir products, hides and skins tanned, etc.

Ethiopia.—(April 18, 1958); (Upto May 31, 1959).

Government of India and Imperial Ethiopian Government will subject to their respective import-export foreign exchange and other regulations give the maximum possible facilities for import and export of commodities of interest to either party. To this end the two Governments will periodically exchange lists of articles available for export from either country.

Finland.—(12th January 1951); (1st January 1951 to 31st December 1959). *Imports:* Sawm and planed timber of coniferous, spices, newsprint, paper and paper products, wallboards of wood fibre (soft and hard), tea chests, etc. *Exports:* Cashewnut, tobacco, spices, jute goods, tea, shellac, cotton waste, linseed oil, coir yarn and manufactures, mica, cotton, silk, rayon, textiles.

Germany, East.—(8th October 1956); (8th Oct. 1956 to 31st Dec. 1959). *Imports:* Electric, diesel and steam locomotives, machinery of various kinds (e.g. mining machinery, earth drillers, bakery and confectionery machinery, machinery for cigarette, oil, textile, chemical and pharmaceutical industries), electric furnaces and electric motors, wall tiles, fertilisers, raw film, etc. *Exports:* Tea, coffee, tobacco, and tobacco manufactures, pepper, spices, fruit dried, essential oils, mica, hides and skins, cotton piecegoods, jute yarn and manufactures.

Germany, West.—(31st March 1955); (1st April 1955 till terminated by either party giving three months' notice). According to this agreement, the two Governments would facilitate trade between the two countries in all commodities permitted by the regulations in force from time to time. In regard to certain commodities, however, the imports of which into the Federal Republic of Germany are subject to quantitative restrictions, quotas have been provided for under the agreement as revised from time to time.

The commodities for which such quotas include : twine, ropes, cordage and cables of jute and false jute, finished cotton fabrics and furnishings and towellings, silk, art silk and woollen fabrics, cotton blankets, knitted carpets of textiles other than silk and wool, fine animal hair, carpets of jute and similar fabrics other than knitted, tanned and finished leather from hides and calf skins, finished leather from sheep and goat skins, pineapple juice, tropical fruits, roasted and salted groundnuts, cashew nuts, almonds and mixtures.

Greece.—(14th February 1958); (upto 31st December 1959).

Imports: Preserved fruits, olives, olive oil, honey, wines, saffron, canned vegetables, sulphur, cement, soap, tanning extracts, agriculture machinery and tools, electric motors, diesel engines, cotton and rayon yarns. *Exports:* Linen, jute goods, vegetable oils, tea, coffee, spices, gums and resins, hides and skins, wool, hemp, leather, cotton piecegoods, shellac, cashew nuts, mica, tobacco, coir products, handloom products and fruit products.

Hungary.—(17th June 1954); (17th June 1954 to 31st December 1959). *Imports:* Hydro-turbines, electric motors, complete factory plants for canning industry, machinery for cable, metals,

(Continued in Col. 3 next page)

SUMMARY OF INDIA'S FOREIGN TRADE—Contd.

(Rupees)

Sections, Divisions and Groups	Export 1958 Jan. to Dec.	Import 1958 Jan. to Dec.
CHEMICALS		
<i>Chemical elements and compounds :</i>		
Inorganic chemicals	9,48,388	13,01,75,338
Organic chemicals	39,24,877	15,42,40,398
TOTAL	48,72,965	28,44,15,736
<i>Mineral tar and crude chemicals from coal, petroleum and natural gas :</i>		
Mineral tar and crude chemicals from coal, petroleum and natural gas	2,23,724	5,22,638
TOTAL	2,23,724	5,22,638
<i>Dyeing, tanning and colouring materials :</i>		
Coal-tar dyestuffs and natural indigo	3,29,221	6,69,83,305
Dyeing and tanning extracts, and synthetic tanning materials	17,03,584	99,99,688
Pigments, paints, varnishes and related materials	11,32,997	1,06,43,012
TOTAL	31,65,802	8,76,26,005
<i>Medicinal and pharmaceutical products :</i>		
Medicinal and pharmaceutical products	88,95,158	10,21,06,377
TOTAL	88,95,158	10,21,06,377
<i>Essential oils and perfume materials, toilets, polishing and cleansing preparations :</i>		
Essential oils, perfumes and flavour materials	2,18,97,832	97,79,732
Perfumery, Cosmetics, soaps and cleansing and polishing preparations	34,49,845	18,82,122
TOTAL	2,53,47,677	1,16,61,854
<i>Fertilisers, manufactured :</i>		
Fertilisers, manufactured	1,042	8,21,39,754
TOTAL	1,042	8,21,39,754
<i>Explosives and miscellaneous chemical materials and products :</i>		
Explosives	8,205	2,97,67,243
Miscellaneous chemical materials and products	17,02,540	5,45,82,431
TOTAL	17,10,745	8,43,49,674
TOTAL OF CHEMICALS	4,42,17,113	65,28,22,038
MANUFACTURED GOODS CLASSIFIED CHIEFLY BY MATERIAL		
<i>Leather, leather manufactures, n.e.s. and dressed furs :</i>		
Leather	18,25,35,939	6,64,825
Manufactures of leather and artificial or reconstituted leather, n.e.s.	9,39,908	39,11,419
Furs, dressed or dressed and dyed	1,02,064	..
TOTAL	18,35,77,911	45,76,244
<i>Rubber manufactures, n.e.s. :</i>		
Rubber fabricated materials	5,99,820	8,93,599
Rubber manufactured articles	15,70,762	1,82,51,250
TOTAL	21,70,582	1,91,44,849
<i>Wood and cork manufactures (excluding furniture) :</i>		
Veneers, plywood, boards, artificial or reconstituted wood and other wood, worked n.e.s.	5,62,256	29,85,063
Wood manufactures, n.e.s.	9,14,046	2,81,798
Cork manufactures	655	23,29,381
TOTAL	14,76,957	55,96,242
<i>Paper, paper-board and manufactures thereof :</i>		
Paper and paper-board	66,36,473	8,01,60,191
Articles made of pulp, of paper and paper-board	6,57,005	24,68,497
TOTAL	72,93,478	8,26,28,688

leather, textile and printing industries, transformers, electrometers, electric welding apparatus, machine tools, chemicals, pharmaceuticals, laboratory equipment, instruments for rubber goods, vegetable seeds, etc. *Exports:* Tea, coffee, jute goods, tobacco, spices, cashew-kernel, shellac, linseed oil, essential oil, iron ore, manganese ore, raw goat and sheep skins, coal and coal manufactures, cotton waste, silk rayon and woollen textiles, leather goods, toilet and washing soaps, sports goods and plastic manufactures, light engineering goods, handicrafts, mica, paints, lacquers, tapioca, etc.

Indonesia.—(30th January 1959); (30th Jan. 1953 to 30th June 1959). *Imports:* Copra, coconut oil, palm oil, essential oils, spices and betel-nuts, timber, tin, rubber, raw hides and skins, canes and rattans, gums and resin, sisal fibre, tobacco wrappers, palm kernels, fresh and dried fruits, tanning material, etc. *Exports:* Jute goods, tobacco, woollen piecegoods, cotton piecegoods, handloom goods, cotton yarn, vegetable oils, coal, cement, soap, paints and varnishes, pharmaceutical products, chemicals and chemical preparations, lac (including shellac), rubber tyres and tubes, machinery, motor bicycles, batteries and dry cells, machine tools, sports goods, household utensils, sewing machines, fans, hardware, tea-chests, porcelain ware, paper and paper-board.

Iraq.—(29th Dec. 1958–29th Dec. 1959) *Imports:* Horses, mules, dates, barley, millets, pulses, rice, wheat and other foodgrains including beans, etc., gallnuts, hides and skins (light weight). *Exports:* Fruits fresh including mangoes and bananas, fruits preserved and tinned, and fruit juices, spices, tea, wood and timber, plywood, coal and coal manufactures, cotton manufactures, cotton piecegoods, raw cotton, jute manufactures, leather manufactures, tiles, cottage industry products, handloom products, chemicals, drugs, medicines, electrical goods.

Italy.—(29th July 1954); (29th July 1954 to 31st December 1958). *Imports:* Dairy products, dried fruits, cotton yarn, cotton fabrics, wool raw, hand knitting wool, raw silk, artificial silk, vehicles and parts thereof, stationery, drugs and medicines, certain types of machinery, railway rolling stock, railway and tramway axles, wheels, etc., dyeing, bleaching and mercerising machinery and parts, bakeries, confectioneries, etc., bookbinding, air-conditioning, textile machinery, films exposed, etc. *Exports:* Tea, tobacco, spices, jute goods, cigarette and cigars, coal, lac and shellac, hides and skins, essential oils, oilseeds, cotton raw, wool raw, coal yarn and coal manufactures, certain types of wood and timber, etc.

Japan.—(4th February 1958).

Valid for indefinite period unless terminated by agreement after a period of two years (expires December 31, 1959).

Imports: Artificial fibre yarn, artificial fabrics, raw silk, iron and steel and other metals, electrical machinery, ships, and railway cars and parts, chemicals and dyes, wood and paper products. *Exports:* Spices, tea, tobacco, coffee, gums and resins, sugar, raw cotton and waste, hides and skins, iron and steel scrap, iron ore, manganese ore, salt, mica, coal, coal yarn, etc.

Norway.—(24th June 1955); (1st January 1955 to 31st December 1958). *Imports:* Mechanical and chemical pulp, fatty alcohol, newsprint, galvanised and black steel pipes, hydraulic brake fluids, testing machines, welding equipment, marine type diesel engines, machine tools, medicinal and industrial cod liver oil, fishing vessels (permissible types), vitamin concentrates, wood-working machinery. *Exports:* Tobacco, jute goods, tea, shellac, coal products, hydrogenated oils, mica, iron and manganese ore,

(Continued in Col. 3 next page)

SUMMARY OF INDIA'S FOREIGN TRADE—Contd.

(Rupees)

Sections, Divisions and Groups	Export 1958 Jan. to Dec.	Import 1958 Jan. to Dec.
Textile yarn fabrics, made-up articles and related products:		
Textile yarn and thread	12,03,15,920	13,91,18,197
Cotton fabrics of standard type (not including narrow and special fabrics)	46,46,14,507	1,05,26,822
Textile, fabric of standard type (not including narrow and special fabrics) other than cotton fabrics	67,59,26,622	1,29,24,314
Tulle, lace, embroidery, ribbons, trimmings and other small wares	92,05,455	11,07,684
Special textile fabrics and related products	1,32,94,934	68,96,183
Made-up articles wholly or chiefly of textile materials n.e.s. (other than clothing and foot-wear)	46,15,77,077	9,84,857
Floor coverings and tapestries	8,88,02,903	88,899
TOTAL	188,37,37,508	17,16,46,856
Non-metallic minerals manufactures, n.e.s.		
Lime, cement and fabricated building materials, except glass and clay materials	41,07,512	82,88,006
Clay construction materials and refractory construction materials	41,60,468	3,33,34,153
Mineral manufactures, n.e.s. not including clay and glass	88,51,534	1,63,74,442
Glass	62,651	22,44,883
Glassware	19,71,279	35,83,813
Pottery	82,997	3,23,176
TOTAL	1,92,36,441	6,41,48,473
Silver, platinum, gems and jewellery:		
Silver and platinum group metals	11,42,14,925	7,82,236
Precious and semi-precious stones and pearls, unworked and worked	28,82,767	69,84,597
Jewellery and goldsmiths' and silversmiths' wares	83,80,867	4,83,951
TOTAL	12,54,78,559	82,50,784
Base metals:		
Iron and steel	89,67,471	97,80,23,157
Copper	4,03,046	13,52,62,002
Nickel	85	60,52,139
Aluminium	1,21,629	5,99,76,866
Lead	42,200	2,28,53,483
Zinc	1,83,805	6,11,58,333
Tin	28,570	4,79,00,881
Miscellaneous non-ferrous base metals employed in metallurgy	14,485	42,21,275
TOTAL	97,61,291	131,54,48,636
Manufactures of metals:		
Ordnance	34,850	4,01,66,561
Manufactures of metals, n.e.s.	1,17,01,404	15,20,75,977
TOTAL	1,17,36,054	19,22,42,538
TOTAL OF MANUFACTURED GOODS, ETC.	219,44,68,781	186,36,83,310
MACHINERY AND TRANSPORT EQUIPMENT		
Machinery other than electric:		
Power generating (except electric) machinery	14,40,008	25,08,41,928
Agricultural machinery and implements	1,91,283	69,30,742
Tractors other than steam	68,772	3,80,95,711
Office machinery	26,860	89,71,892
Metal working machinery	1,23,173	26,46,73,671
Mining construction and other industrial machinery	83,85,109	82,93,33,111
TOTAL	1,02,40,205	139,88,47,055
Electric machinery apparatus and appliances:		
Electric machinery apparatus and appliances	46,80,014	49,03,60,211
TOTAL	46,80,014	49,03,60,211
Transport equipment:		
Railway vehicles	4,180	29,57,36,110
Road motor vehicles	10,77,852	21,62,45,196
Road vehicles other than motor vehicles	2,35,641	1,33,73,692
Aircraft	5,61,835	6,20,69,087
Ships and Boats	1,67,258	73,69,292
TOTAL	20,46,773	59,47,96,379
TOTAL OF MACHINERY AND TRANSPORT ETC.	1,69,66,992	248,40,03,654

woollen carpets, tanned hides and skins, cotton textiles, light engineering goods and plastic manufactures, coffee, linseed and castor oils.

Pakistan.—(22nd January, 1957); (1st February, 1957 to 31st January 1960). *Imports:* Raw jute, hides and skins, fish, poultry and egg, betel-nuts, spices, honey, cinema films, machine tools, bicycles and spare parts, surgical instruments and sports goods. *Exports:* Chemicals, drugs and medicines, mill board and straw-board, machinery and mill work, workshop equipment, electrical instruments, sugar, tea for blending, coffee, betel leaves, bidis and hooka tobacco and bidi leaves.

Poland.—(3rd April 1956); (3rd April 1956 to 31st Dec. 1959). *Imports:* Textiles, mining and drilling machinery, iron and steel structures including bridges and towers, complete plant and equipment for sugar factories, alcohol distilleries, etc., railway locomotives, wagons and carriages, industrial materials (like carbon black active, bone glue and lactic casein), cement, etc. *Exports:* Iron ore, manganese ore, mica, shellac, myrobalan, tea, coffee, spices, hides and skins, cotton textiles, raw cotton, raw wool, wool waste, jute goods, plastic goods, hardware, boots and shoes, snap and toilet products, jams, chutneys, pickles, fruit squashes and sauces, cashew shell oil, handicrafts, cottage industry products.

Romania.—(23rd March 1954); (23rd March 1954 to 31st December 1958). *Imports:* Food grains (wheat and rye), petroleum products, chemicals, timber, wooden products, cement, machine tools for metal, textile machinery, mustard, certain types of electric goods, handicrafts and cottage industry products, wood-working machinery, railway products. *Exports:* Iron ore, tea, coffee raw, spices, including pepper, vegetable oils (linseed, castor, etc.), essential oils, shellac, mica, hides and skins, raw cotton, wool waste, wool raw, jute yarn and jute manufactures, chemicals, fish oils, myrobalans and extracts, etc.

Sweden.—(31st May 1955); since 31st Dec. 1957, until 3 months' notice by either party. *Imports:* Condensed milk, cement, wood, tar, hides and skins raw, waste paper, rayon silk, glassware, newsprint, iron and steel, hinges, bolts and nuts, cutlery, diesel engines and spare parts, printing presses, certain types of machinery, motor cycles, staple fibre, ferro alloys, stainless steel, etc. *Exports:* Cotton textiles, silk fabrics, rayon fabrics, jute goods, shawls, sarees, coil and coil products, cotton waste, certain types of oils, hydrogenated oil, spices including pepper, chillies, ginger, turmeric, cardamoms, pickles, chutneys, condiments, tea, coffee, tobacco, shellac, manganese ore and magnesite, cashew kernels, raw cotton, etc.

U.A.R.—(8th July 1953); (Effective from the date of signature and will remain in force till it is modified or terminated by either party on giving 3 months' notice). *Imports:* Raw cotton, cotton yarn, gypsum, rock phosphates, flax, dry dates, goat skins raw, essential oils, perfumes and essence of geranium, etc. *Exports:* Unmanufactured tobacco, jute goods, coal, oils and oilseeds, cotton and woollen piecegoods, iron and steel manufactures, certain types of machinery, Indian handicrafts, Indian films, etc.

U.S.S.R.—(16th Nov. 1956); (1st Jan. 1956-1st Jan. 1964). *Imports:* Foodgrains (wheat and barley), dyestuffs, chemicals, iron and steel manufactures, paper of different kinds including newsprint, printed matters including books and periodicals, agricultural tractors, crude petroleum, machine tools, aluminium, rough emeralds, woollen fabrics, machinery

(Continued in Col. 3 next page)

SUMMARY OF INDIA'S FOREIGN TRADE—Contd.

(Rupees)

Sections, Divisions and Groups	Export 1956 Jan. to Dec.	Import 1956 Jan. to Dec.
MISCELLANEOUS MANUFACTURED ARTICLES		
<i>Prefabricated buildings, sanitary, plumbing, heating and lighting fixtures and fittings:</i>		
Prefabricated buildings and their assembled panels and parts of all Materials .. .. .	..	16,865
Sanitary, plumbing, heating and lighting fixtures and fittings	9,32,666	55,36,960
TOTAL	9,32,666	55,53,825
<i>Furniture and fixtures:</i>		
Furniture and fixtures	38,82,767	4,48,831
TOTAL	38,82,767	4,48,831
<i>Travel goods, hand-bags and similar articles:</i>		
Travel goods, handbags, etc.	51,92,547	1,05,167
TOTAL	51,92,547	1,05,167
<i>Clothing:</i>		
Clothing except fur clothing	1,01,91,574	4,98,567
Fur clothing not including hats, caps or gloves	3,689	..
TOTAL	1,01,95,263	4,98,567
<i>Footwear:</i>		
Footwear	2,13,91,620	22,816
TOTAL	2,13,91,620	22,816
<i>Professional, scientific and controlling instruments, photographic and optical goods, watches and clocks:</i>		
Scientific, medical, optical measuring and controlling instruments and apparatus	5,03,634	5,16,29,810
Photographic and cinematographic supplies	16,931	2,70,64,994
Exposed cinematographic films whether developed or not	96,31,818	33,22,637
Watches and clocks	6,988	35,42,822
TOTAL	1,01,59,371	8,54,60,263
<i>Miscellaneous manufactured articles, n.e.s.</i>		
Musical instruments, phonographs and phonograph records	12,74,363	23,23,323
Printed matter	84,57,057	1,90,74,285
Manufactured articles, n.e.s.	2,32,59,347	5,61,63,129
TOTAL	3,29,90,767	7,75,60,737
TOTAL OF MISCELLANEOUS MANUFACTURED ARTICLES	8,47,45,001	16,96,50,206
MISCELLANEOUS TRANSACTIONS AND COMMODITIES, N.E.S.		
<i>Postal Packages:</i>		
Postal packages, not classified according to kind	6,18,12,283	1,95,64,730
TOTAL	6,18,12,283	1,95,64,730
<i>Live animals not for food:</i>		
Live animals not for food	72,48,001	3,36,077
TOTAL	72,48,001	3,36,077
<i>Returned goods and special transactions:</i>		
Returned goods and special transactions	91,80,967	4,19,21,420
TOTAL	91,80,967	4,19,21,420
TOTAL OF MISCELLANEOUS TRANSACTIONS, N.E.S.	7,82,41,251	6,18,22,227
GRAND TOTAL	570,55,60,644	864,17,95,110
Total value of articles under reference	5,99,84,729	8,68,36,068
TOTAL VALUE	576,55,45,373	872,81,31,178

(boring and mining, road building equipment, heavy electrical plant and equipments), zinc, ammonium sulphate. *Exports:* Raw wool, tobacco unmanufactured, spices, black pepper, cardamoms and others, shelling, goat skins tanned, hides and skins tanned, Indian handicrafts and cottage industry products, cinematographic films (exposed), jute manufactures, mica, fruit and vegetables, vegetable oils, cashew nuts, hydrogenated oil, foot-wear, raw coffee, tea, coir products, dyeing and tanning substances, woollen carpets, woollen hosiery fabrics.

Viet-Nam North.—(22nd September 1956); (up to 21st Sept. 1956). *Imports:* Rice, maize, timber, wood, oil, saffron, cement, limestone, handiworks, etc. *Exports:* Engineering goods (e.g. diesel engines, pumps, sewing machines), kerosene stoves, confectionery, tea, coffee, spices, hydrogenated oil, cotton and jute textiles, electrical fittings, scientific instruments of all types, etc.

Yugoslavia.—(March 31, 1956): (1st April 1956 to 31st December 1956). *Imports:* Dyeing and tanning substances, iron and steel products, rolling stock, wagons, rails, metal products, steam boilers, diesel and steam locomotives, tractors, electrical apparatus, etc. *Exports:* Iron ore, manganese ore, mica, shelling, tea, coffee, tobacco, spices, cotton textiles, raw cotton, raw wool, jute goods, handicrafts and cottage industry products, etc.

EXPORT PROMOTION MEASURES

There is an Export Risks Insurance Corporation as well as the Export Promotion Directorate to help exporters in their task.

In June 1957 a Directorate of Export Promotion was created in the Ministry of Commerce and Industry simultaneously with the constitution of the Foreign Trade Board. The Directorate co-ordinates export promotion activities and maintains close liaison with the various Export Promotion Councils. Specific targets of commodity-wise exports have been drawn up by this Directorate and steps are being taken to help the trade to reach the planned targets.

Various incentives have been provided for exporters in the form of draw-back of import duties, rebates of excise duty, replenishment quota of raw materials used in articles meant for export etc., with a view to bringing down the cost of production of these items and enabling the exporter to offer them at competitive prices in the markets abroad. Quality control schemes, both on compulsory and voluntary basis, have also been instituted. Yet other measures are settlement of commercial disputes and securing of foreign exchange for business towns abroad and on-the-spot assistance at major ports.

With the assistance of the Railway Board and the Ministry of Transport, arrangements have been made to move goods meant for export on a priority basis both by land and in a few cases by sea. A system of registration of exporters has been instituted by which registered exporters are eligible for certain special benefits and issue of licences on a priority basis.

Export at competitive prices is also attempted. The difference is to be made good by an increase in the domestic price. A formula on these lines was being worked out by the bicycle industry. Others may follow.

INSURANCE

The Life Insurance Corporation of India did a record business of Rs. 544.68 crores, assured under about a million policies during 1956. This is the first time in the history of Indian insurance that the business written during one year has exceeded Rs. 500 crores. About Rs. 54 crores of this business was written outside India and the balance of Rs. 390 crores within India, including Rs. 1.60 crores under the Janata Policy Scheme. The number of policies issued during 1956 totalled over 9,80,000 as against 8,00,000 policies issued in 1955.

The Life Insurance Corporation of India was established in September 1956 under a special Act, The Life Insurance Corporation Act, 1956 the Central Government contributing the whole of its capital of Rs. 5 crores. It has the monopoly of conducting life insurance business in India and abroad. It took over all the then existing life insurance business of Indian life offices and Provident Societies and also the Indian business of foreign life offices.

It is managed by an autonomous body consisting of 15 Directors, nominated by the Central Government functioning under the guidance and advice of the Finance Ministry of the Central Government within the scope and limits set down in the Act. This board of 15 members consists of 11 non-officials and 4 Government officials one of whom is designated Chairman of the Corporation, working as the chief whole-time officer.

The board has delegated certain of its functions to an Executive Committee of 5 members selected from among themselves, to facilitate speedy and effective execution of its duties. In addition to this, there is an Investment Committee consisting of 7 members which is a consultative body on all questions concerning the investment of the funds of the Corporation.

The Corporation has a network of offices all over the country to procure new business and for servicing the existing business. There are 5 Zonal Offices, one each in Bombay, Madras, Kanpur, Calcutta and Delhi. There are 38 Divisional Offices, 221 Branch Offices, and 99 Sub-Offices. The Central Office of the Corporation is in Bombay.

The Corporation also transacts business in the following foreign countries with 2 Divisional Offices and 11 Branch Offices: Aden, Fiji, Hong Kong, Federation of Malaya, Kenya, Mauritius, Nyasaland, Uganda and Zanzibar.

In each of the Zonal Offices, there is an Advisory Board to help the Zonal Manager in matters concerning his relations with the public. The Boards consist of leading public men of the place with the local Zonal Manager as secretary. In addition, in each of these Zonal centres, there are committees known as Employees and Agents Relations Committees which, as the name suggests, serve to maintain good relations among agents, employees and the management.

1957 REPORT

The first statutory report of the Corporation was presented to Parliament on 13th March 1959 incorporating the accounts and a report on the activities of the Corporation for the first sixteen months of its existence ended on 31st December 1957.

At the end of 1957, the total business in the books of the Corporation including bonuses, stood at Rs. 1,474 crores under 56.86 lakh policies. Of this, Rs. 1,375 crores under 54.17 lakh policies represented life insurance business in India:

Year	In India		Outside India		Total	
	No. of policies (lakhs)	Sum assured and bonuses (Rs. crores)	No. of policies (lakhs)	Sum assured and bonuses (Rs. crores)	No. of policies (lakhs)	Sum assured and bonuses (Rs. crores)
1952 ..	40.17	925	2.86	70	42.93	995
1953 ..	41.67	970	2.72	77	44.39	1,047
1954 ..	45.05	1,091	2.77	86	47.82	1,177
1955 ..	45.16	1,128	2.76	92	47.92	1,220
1956 ..			Figures not available			
1957 ..	54.17	1,375	2.69	99	56.86	1,474

These figures show that India has a per capita insurance of Rs. 35—an increase of about Rs. 10 in six years.

During the sixteen months the Corporation completed a new business of Rs. 336.67 crores sum assured under 9,41,554 policies. Business completed in 1956 amounted to Rs. 200.28 crores under 5,67,357 policies and in 1957 to Rs. 261.90 crores under 7,94,585 policies.

In addition, 21,208 policies for Rs. 1.17 crores were issued under the Janata Scheme (for industrial workers with a monthly premium collection scheme) which commenced operations in May 1957. 452 Deferred Annuities and 123 Immediate Annuities with a total annual payment of Rs. 6.73 lakhs and Rs. 3.22 lakhs respectively, were also issued.

Year	In India		Outside India	
	No. of policies	Sum Assured Crores of Rs.	No. of policies	Sum Assured Crores of Rs.
1953 ..	5,74,749	156.26	30,441	14.66
1954 ..	7,40,093	237.60	32,692	17.65
1955 ..	7,96,080	240.51	35,461	20.33
1956 ..	5,49,401	187.69	17,956	12.59
1957 ..	7,80,530	276.50	5,055	5.40

Nearly 75% of the business written in India during the first sixteen months was under the Endowment Plan, about 5% under Joint Life Policies and about 10% under Whole Life type of policies. The size of the average policy sold stood at Rs. 3,575 during the first sixteen months as against Rs. 3,208 in 1955 and Rs. 3,365 in 1954.

A marked variation is noticeable in the size of

the average policy sold in the different Zones by the Corporation. The figures are given below (Rs.):

Northern Zone (Delhi): 4,500; Central Zone (Kanpur): 4,130; Western Zone (Bombay): 3,915; Eastern Zone (Calcutta): 3,500; Southern Zone (Madras): 2,783; Foreign: 9,214; All business: 3,575.

ACCOUNTS

The Life Fund stood at Rs. 477 crores on 31st December 1957, registering an increase of about Rs. 41 crores in 16 months. During this period, the Corporation's income from all sources totalled about Rs. 108 crores, made up of Rs. 88 crores from premiums (excluding consideration for annuities amounting to a little over Rs. 1 crore) and over Rs. 19 crores from returns on its invested funds.

The interest income of over Rs. 19 crores represents earnings of 3.74% on the mean life fund after deducting income-tax. The rate of interest from 1952 is given below:

1952: 3.43; 1953: 3.50; 1954: 3.52; 1955: 3.56; 1957 (16 months ended 31st Dec.): 3.74.

On the outgo side Rs. 34 crores represented claims and other benefits to the policy-holders, Rs. 24 crores expenses of management, nearly Rs. 9 crores taxes and transfer to special reserves and the balance of nearly Rs. 41 crores addition to the Life Fund. On the claims side, nearly Rs. 8 crores represented claims by death and nearly Rs. 21 crores by maturity, annuities surrender and bonuses in cash etc., accounting for the balance.

Out of the expenses of management amounting to Rs. 24 crores, Rs. 13 crores or 50.6% were spent in salaries and other benefits to the staff, nearly Rs. 8 crores or 31.9% commission and allowances for procuring business, including Rs. 13 lakhs compensation to special and chief agents, and the remaining 17.5% in miscellaneous items as rent, travelling expenses, Doctors' fees, printing and stationery, postage, Bank charges and the like. The overall expenses of management amounted to 27.4% of the premium income.

Over-all expense ratio: 1954, 29.4; 1955, 31.8; 1956 Jan. to Aug., 33.7 and 1956-57 (16 months), 27.3.

The renewal expense ratio in terms of Rule 25(b) of Insurance Rules 1939 was 15.89% as against 17.3% in 1955.

INVESTMENTS

The Corporation took over, on the appointed day (September 1, 1956), total investments including stock exchange securities, amounting to Rs. 349 crores. This included nearly Rs. 75 crores held as deposits with the Governments of Mysore, Kerala and Bombay. Total investments rose by a little over Rs. 83 crores during the 16 months to stand at Rs. 382 crores at the end of December 1957, which were made up as follows:

Indian and State Government and other approved securities ..	Rs. 261 crores
Debentures and shares of joint stock companies in India ..	Rs. 69 "
Mortgage of properties ..	Rs. 14 "
House property	Rs. 21 "
Other Investments ..	Rs. 17 "
	Rs. 382 crores

On 31st December 1957, the Corporation held stock exchange securities aggregating nearly Rs. 339 crores, of which about Rs. 330 crores were in India and the balance outside India.

A broad classification of investments in India shows that 77.37% was invested in the public sector, and 22.63% in the private sector. Besides the loans issued by the Central and State Governments, investments in the public sector include loans, bonds, shares or debentures of municipalities, Improvement Trusts, Port Trusts, Land Mortgage Banks, State Financial Corporations, and Statutory Corporations. Investments in the private sector take the form of debentures, preference shares and ordinary shares of industrial and commercial undertakings.

Debentures, preference and ordinary shares of joint stock companies held by the Corporation may be classified as under according to the character of the industries (Rs. lakhs):

Chemicals & Pharmaceuticals: 119.94; Shipping & other Transport: 121.39; Plantations: 125.52; Insurance: 125.62; Sugar & Breweries: 145.55; Managing Agents: 168.44;

Coal: 191.93; Banks: 263.12; Paper & Pulp: 300.00; Cement: 365.96; Jute: 414.63; Iron & Steel: 548.40; Cotton: 690.85; Engineering: 714.21; Electricity: 829.21; Others: 1,763.00.

Total: Rs. 6,913.77 lakhs.

"Others" include investment trusts, mining, railways, vegetable oils, Cooperative housing societies and several other industries which cover almost every phase of industrial activity in India.

Apart from investments in Government of India loans, in statutory corporations, in loans issued by the former Hyderabad Government, and foreign investments, stock exchange securities can be sorted State-wise as under:—

State	Percentage	
	To Investment in States	To total investment
Andhra	4.17	1.72
Assam	0.78	0.32
Bihar	6.12	2.53
Bombay	32.17	13.30
Delhi (State) ..	0.66	0.27
Kerala	1.10	0.46
Madhya Pradesh	2.24	0.98
Madras	9.07	3.75
Mysore	3.89	1.61
Orissa	1.45	0.60
Punjab	0.67	0.27
Rajasthan	0.46	0.19
Uttar Pradesh ..	10.26	4.24
West Bengal ..	26.96	11.15
	100.00	41.34

PERSONNEL, PLANS

On its formation, the Corporation took over about 21,000 employees, of whom 16,000 were in the clerical and supervisory cadre and 5,000 subordinate staff. On 31st December 1957, there were 30,768 employees of whom 1,038 were officers, 5,222 field officers, 19,588 supervisory and clerical staff and 4,920 subordinate staff. The total monthly salary bill in December 1957 was Rs. 67.3 lakhs.

Out of over 2 lakh agents on the books on 31st December 1957, less than 90,000 were active.

The average production per active agent in 1957 was Rs. 31,000.

For the first time in the history of life insurance in India, organised attempts have been made to secure business from rural areas. The first attempt was in Rajasthan where in September 1958, the Corporation, in close cooperation with the State Government did intensive propaganda in 24 Community Development Blocks and secured over a crore of rupees business from villages. Other States like Bihar and Kerala have assured similar cooperation.

Permanent training centres have been opened at the headquarters of the five Zones to train development personnel on the professional aspects of sales and servicing. Other training centres at selected Divisional headquarters are to be opened.

Special schemes of insurance like the Salary Savings Scheme and Group and Super-annuation Scheme are being promoted. A number of employers throughout India have agreed to pay premiums on behalf of their employees direct to the Corporation by deduction from salaries.

A tentative Five-Year Plan has been drawn up by the Corporation to raise the level of national savings through life insurance. Under this Plan a new business of Rs. 1,000 crores has been fixed as the target for the fifth year of the Plan.

GENERAL INSURANCE

As at the 31st December 1957 there were 189 companies registered under the Insurance Act, 1938 to transact one or more classes of general insurance business of which 91 were Indian and 98 non-Indian. The number of Indian insurers excludes the Life Insurance Corporation of India (which does only Life Insurance business) but includes its three subsidiaries which conduct general insurance business. It also includes 12 insurers registered for Country Craft (marine) insurance business only and 7 non-tariff offices.

Of the 98 non-Indian offices, 66 have their head-offices in the U.K.

The following tables present a comparative study of the insurance business in India and outside India of Indian insurers and of the business in India of non-Indian insurers.

I. INDIAN INSURERS

(premiums in lakhs of rupees)

Year	Fire Premiums		Marine Premiums		Miscellaneous Premiums		Total	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net
<i>Business in India</i>								
1954 ..	5.79	2.64	2.78	1.35	3.89	3.13	12.46	7.12
1955 ..	6.01	2.77	3.32	1.47	4.44	3.34	13.77	7.58
1956 ..	6.69	3.30	3.75	1.65	4.74	3.94	15.18	8.89
<i>Business outside India</i>								
1954 ..	1.99	5.54	1.61	1.86	1.68	1.68	5.28	9.08
1955 ..	2.00	5.76	1.92	1.91	1.89	1.91	5.81	9.58
1956 ..	1.98	6.14	1.86	1.90	1.96	2.32	5.80	10.36
<i>Business in India</i>								
1954 ..	4.28	2.80	2.43	1.73	2.18	1.95	8.89	6.48
1955 ..	4.43	2.85	2.67	1.93	2.23	2.04	9.33	6.82
1956 ..	4.69	2.99	2.66	1.96	2.23	2.00	9.58	6.95

II. NON-INDIAN INSURERS

ASSETS

The total assets of the general insurance business of Indian insurers amounted to Rs. 42.44 lakhs on 31st December 1956 (as against Rs. 41.65 lakhs on 31st Dec. 1955 and Rs. 38.71 lakhs on 31st Dec. 1954) and were invested as shown below.

The total assets in India in respect of the general insurance business of the non-Indian insurers amounted to Rs. 11.75 lakhs on 31st December 1956 and were invested as shown below. The figures are in lakhs of Rupees.

Rs. lakhs.

	Indian Insurers			Non-Indian
	1954	1955	1956	1956
Central Govt. Securities ..	7.77	7.24	6.87	2.36
State Govt. Securities ..	1.05	1.15	1.30	2
Br. & Foreign Govt. Securities ..	2.14	2.54	2.26	—
Municipal, Port & Improvement Trust Securities ..	25	28	25	27
Debentures of Indian Companies ..	1.33	1.50	1.47	67
Preference Shares of Indian Companies ..	1.96	2.04	2.02	41
Ordinary Shares of Indian Companies ..	3.92	4.46	5.21	1.67
Land & House Property ..	69	74	82	38
Deposit, Cash & Stamps ..	6.98	6.70	8.05	2.29
Loans on mortgage of Property ..	55	46	38	—
Loans on Stocks & Shares ..	10	10	14	—
Other Loans ..	55	77	61	—
Agents' Balances, Outstanding premiums, Amounts due from other insurers and Accrued & outstanding interest ..	9.06	10.56	9.87	2.71
Miscellaneous ..	2.36	3.11	3.19	97
Total ..	38.71	41.65	42.44	11.75

The total income and outgo in respect of the general insurance business of Indian insurers during 1956 is analysed below:

Particulars	Rs. lakhs
<i>Income</i>	
Premiums less reinsurances:	
In India ..	8.89
Outside India ..	10.36
Net interest, dividends and rents ..	37
Other income ..	6
Total ..	19.58
<i>Outgo</i>	
Claims less reinsurances ..	8.82
Net commission ..	2.81
Expenses of management ..	5.35
Miscellaneous outgo ..	21
Total ..	17.19
Profits transferred to Profit and Loss Account ..	1.18
Actual increase in Reserves for unexpired risks and Additional Reserves ..	1.21
Excess of Income over Outgo ..	2.39

OFFICIAL LANGUAGE PROBLEM

In accordance with the provisions of Article 344 of the Constitution the President constituted a Commission to make recommendations on the progressive use of Hindi and restriction on the use of English and also on the languages to be used for communication between the Union and a State or between one State and another.

This Commission, called for short Official Language Commission, was constituted by a notification dated 7th June 1955. It submitted its report to the President on 31st July 1956, and was laid on the table of Parliament on August 12, 1957.

A summary of the report was given in the previous edition of the *Directory* as well as the background of the language controversy.

It may be mentioned that the Constitution requires that the recommendations of the Language Commission have to be examined by a Parliamentary Committee consisting of 30 members (20 from the Lok Sabha and 10 from the Rajya Sabha). The President will base his final order on the report of this Committee.

The 20 members to form the Committee from the Lok Sabha were elected on Sept. 12, 1957 and the 10 members from the Rajya Sabha on 11th September.

The Committee held its first meeting on 16th Nov. 1957 at which Pandit Govind Ballabh Pant was elected chairman.

The Committee held in all 26 meetings before finalizing its report, which was presented to Parliament on 22nd April 1959.

The report runs into 55 pages. There are six separate notes and minutes of dissent.

Of these five are by Dr Raghu Vira, Mr. Harish Chandra Sharma, the late Prafulla Chandra Bhanj Deo, Pandit Thakur Das Bhargava, and Mr. Purushottam Das Tandon and Seth Govind Das. They favour a speedy switch-over to Hindi. The sixth by Mr. Frank Anthony enters a note of dissent against the whole report.

The names of the members of the Committee are given below.

The 10 members from the Rajya Sabha were: Mr. Govind Ballabh Pant; Mr. Alluri Satyanarayana Raju; Mr. Bhagratilal Mahapatra; Mr. Budh Singh; Mr. K. P. Madhavan Nair; Mr. P. Narayanan Nair; Mr. Prafulla Chandra Bhanj Deo; Mr. Purushottam Das Tandon; Dr. Raghu Vira; Dr. A. Ramaswami Mudaliar.

The 20 members from the Lok Sabha were:

Mr. Atulya Ghosh; Mr. B. Bhagavati, Mr. Bhakti Darshan; Dr. T. Y. Gohokar; Mr. Frank Anthony; Seth Govind Das; Mr. Gurumukh Singh Musafir; Mr. Harish Chandra Sharma; Mr. M. Hifzur Rahman; Mr. Hirendranath Mukherjee; Mr. Maneklal Varma; Mr. Mathurprasad Mishra; Kumari Maniben Vallabhbhai Patel; Mr. B. S. Murthy; Mr. Pramathanath Banerjee; Mr. Swami Ramananda Tirtha; Mr. Shripad Amrit Dange; Mr. U. S. Mallik, Pandit Thakur Das Bhargava, and Mr. P. T. Thanu Pillai.

SUMMARY

A summary of the Committee's report is given below.

The Committee has expressed the "definite opinion" that adherence to the constitutional settlement, which envisages the replacement of English by Hindi for Union purposes and by the various regional languages for the official requirements of the States, is "the only safe and practicable course to adopt".

The regional languages should have "full scope in their respective States".

The approach to the question of final change-over has to be "flexible and practical". After 1965 when Hindi becomes the principal official language of the Union under the Constitution,

English should continue to be used for such purposes as may be specified by Parliament by law and for as long as necessary.

The Constitutional settlement on official language, is an integrated and comprehensive scheme which was evolved after careful consideration in the Constituent Assembly and adopted without a division as representing the greatest common measure of agreement among the different linguistic groups in the country.

The constitutional settlement provides for the use of Hindi for Union official purposes, and authorises the State legislatures to adopt regional languages for the official purposes of the States. Hindi is to be brought into use by a gradual process, and Parliament is empowered to continue English in use beyond 1965 for purposes to be specified by it. The procedure laid down for bringing about progressive change-over to Hindi as the Union Official Language also provides for a good deal of flexibility. It is specifically provided that due regard shall be paid to the industrial, cultural and scientific advancement of India and the just claims and interests of persons belonging to the non-Hindi speaking areas in regard to the public services. No date-line has been indicated for change over of the linguistic medium in the field of law, and every person is entitled to send a representation for the redress of any grievance to the Union and State authorities in any of the languages in use in the Union or the State as the case may be.

The Committee points out that a democratic government cannot continue to function indefinitely in a language which is understood by only a small fraction of the population.

Hindi is not only the mother-tongue of a substantial part of the population but is also commonly understood over large parts of the country where the regional language is different. The further spread of Hindi is being facilitated by developments in transport, commerce and the media of mass communication such as the radio and the cinema, as also by its study in schools and colleges.

Hindi whether we consider its vocabulary and diction or its alphabetical system of script is more akin to the other Indian languages than English. This is an advantage that no foreign language can claim, and it makes it comparatively easy for people in non-Hindi areas to learn Hindi.

Since Independence, there has been a shift from English to Indian languages as the media of secondary education throughout the country. It follows that the younger generation that is growing up will have much less knowledge of English than was the case until recently.

Seven States have already adopted different regional languages as their official languages in place of English and the trend of public opinion in the country makes it highly probable that the remaining States will follow suit. Some difficulty is already being experienced in finding recruits for the public services who can discharge their duties efficiently through the English medium, and this difficulty will become accentuated in course of time.

As different regional languages progressively replace English in the official work of the States and in schools and colleges, English, which has served as the main link between the different linguistic regions of the country, would no longer be in a position to discharge this function adequately. The replacement of English by Hindi and other Indian languages is thus a practical necessity.

The present deficiencies of Hindi and other Indian languages for the requirements of higher administration are due chiefly to the fact of their disuse for these purposes during the British period. Language grows by usage, and these deficiencies can be removed only by bringing these languages into actual use for purposes of State and Union administration and in other fields of national endeavour.

Gradual Change-Over: The Committee has emphasised that the process of change-over from English to Hindi as the Union Official Language has to be so "developed and regulated" that it may be effected without causing any dislocation and with the minimum of inconvenience. In determining the pace of change-over consideration has to be given among other things to the progress of Hindi in non-Hindi areas and the linguistic capacity of existing government servants. The process of change-over should also not have the effect of placing any linguistic group at a disadvantage in the matter of recruitment to the public services.

In the first phase Hindi has to be used in addition to English, and preparatory measures taken which will set the position for the next phase when the discontinuance of English for different official purposes may be brought about progressively. The date for the final change-over from English to Hindi will mark the point of culmination in this process rather than a new stage.

The Committee concurs in the Official Language Commission's recommendation that no restriction be imposed for the present on the use of English for the official purpose of the Union as the placing of such restriction is likely to cause practical difficulties.

The Committee recommends that the Union Government should prepare and implement a plan of action for the progressive use of Hindi on the basis of the opinions expressed by it on the recommendations of the Official Language Commission.

The gradual introduction of Hindi and other languages, does not mean severance of ties with English.

Advanced students of science and technology have to be familiar with one or more foreign languages. English has not only a rich literature which is intimately connected with the whole body of Western thought and culture but is, at present the most important vehicle of scientific and technical information. It is also the most widespread language in the world today. For us, amongst foreign languages, the choice of English is obvious, both because of its importance and utility and our present knowledge of it.

Hindi: In recent years, the use of difficult expressions has to some extent come in the way of the spread of Hindi and for its increased use for different purposes. The merit of Hindi as the official language of the Union and the language of inter-State communications lies in its easy intelligibility and wide vogue in the country.

The Committee has concurred with the Language Commission's view that "language purism" should be deprecated and the aim should be primarily to achieve clarity, precision and simplicity. The Committee also agrees with the Commission's recommendation that where necessary suitable international terms might be adopted or adapted, and English technical terms may be continued in use in some sectors for so long as necessary.

It would, in the opinion of the Committee, greatly facilitate the task of replacement of English by Hindi and other national languages at different levels, and at the same time strengthen the bonds between the different national languages.

The Committee has suggested that a standing Commission consisting chiefly of scientists and technologists be appointed to co-ordinate and supervise the work done by various agencies in this field, review the work that has already been done and issue authoritative glossaries of scientific and technical terminology for use in all Indian languages.

In view of the importance of ensuring a measure of uniformity in the language used in the translation of rules and other procedural literature contained in the manuals of different

Ministries and Departments of Government of India, the Committee agrees with the recommendation of the Commission that the general responsibility for direction and superintendence over such work should be vested in a single agency of the Central Government.

The importance of the training of administrative personnel in the new linguistic medium, the Committee says, can hardly be emphasised. It, therefore, agrees with the Language Commission's recommendation that if the existing arrangements for teaching Hindi on a voluntary basis do not yield adequate results it would be "legitimate and necessary" for Government to make Hindi training obligatory. The Committee recommends, however, that persons aged 45 and above should be exempted.

In respect of recruitment to subordinate posts in the local offices of Central Government Departments, the Committee has accepted the Language Commission's recommendation that such offices should evolve a measure of permanent bilingualism, that is to say, they will use Hindi for internal working and the respective regional languages in their public dealings. Their staff structures should be reviewed and decentralised to conform to the requirements of such bilingualism, and the recruitment methods and qualifications for recruitment revised suitably.

The Committee has also accepted the Commission's recommendation that the standards of Hindi qualification prescribed for local offices of the Central Government should be somewhat lower than what would be necessary for the headquarters offices. This is intended to ensure that employment opportunities in the different regions are not curtailed during the transitional period. The Committee also accepts the Commission's recommendations that a knowledge of Hindi might be prescribed as a qualification for entry into Union services provided a sufficiently long notice is given, and the measure of linguistic ability prescribed is moderate, any deficit being made good by subsequent in-service training.

Defence Services: In regard to the National Defence Academy and other similar establishments the Committee has taken the view that since instructional manuals and other technical literature are at present not available in Hindi, and many trainees from non-Hindi areas may not have a sufficient knowledge of Hindi, it would be necessary for some time to continue English as the medium of instruction in the training establishments. Suitable steps may, however, be taken to introduce Hindi, in due course, as the medium for all or some purposes of instruction.

As regards the medium of examination, the Committee thinks that candidates should have the option to offer either English or Hindi for any one or all the papers. The Committee is not opposed to the introduction of regional languages as media for the entrance examination, but it is unable to accept the Commission's view that the adoption of a quota system for admissions to these establishments is "less open to objection than the adoption of such a system for recruitment to the All-India Services." It has, therefore, been suggested that an Expert Committee should be appointed "to examine the practicability of the introduction of regional languages as media without bringing in a quota system."

All India Services: The Committee is unable to accept the Official Language Commission's suggestion about the introduction of a qualifying paper in Hindi as an initial step, for this may disqualify some candidates who may succeed in the competition with less than pass marks in the Hindi paper. The Committee also does not agree with the Commission's recommendation that Hindi-speaking candidates need not be required to offer a paper in a regional language other than Hindi. The Committee has accordingly recommended that after due notice, there should be two compulsory papers of equal standard, one in Hindi, and another in a modern Indian language other than Hindi to be selected by the candidate.

The officers of All-India and higher Central Services will need to have adequate knowledge of English for performing their duties efficiently

for a considerable time to come. The Committee is therefore of the opinion that there should be a compulsory English paper even after the medium of examination is changed, and that this should continue until English is completely replaced by Hindi for all official purposes.

With regard to the language medium for the competitive examinations for the higher services, the Committee has recommended that English should continue to be the medium of examination, and Hindi may be admitted as an alternative medium, both Hindi and English being available as alternative media at the option of the candidate for as long as necessary. The Committee has no objection in principle to the admission of regional languages as the media of these examinations, if these are found to be feasible without the introduction of a quota system, and has suggested the appointment of an expert committee to examine this question.

Law: The Committee generally agrees with the view expressed in the Madras Government's Memorandum to the Official Language Commission, that for a long time there was no answer except bilingual legislation, and until 1965 the official text should be English with an authorised translation in Hindi, the position being reversed thereafter.

Arrangements should also be made for making available translations in the official languages of the States for the convenience of the subordinate judiciary and the public.

The Official Language Commission had recommended that when the time comes for the changeover, the language of legislation of the States as well as of Parliament and consequently the language of all statutory orders, rules, etc., issued under any law should be Hindi. Differing with this view, the Committee observes that the State legislature may adopt the official language of the State for the purpose of the State Bills, Acts, etc., but besides a translation in English which has to be published under article 348(3) of the Constitution, a Hindi translation may also be provided.

The Committee says that the changeover in the language of the higher courts will necessarily be a prolonged process and may reach completion after a general change-over has occurred in the language medium for other official purposes.

The Official Language Commission had recommended that when the time comes for the changeover the Supreme Court should function in Hindi, reliable translations of decisions being provided in the State languages and option should be given to individual judges to deliver their judgment in English and to counsel to argue in English even after general change-over in the linguistic medium. The Committee observes that the recommendations of the Commission with regard to the eventual use of Hindi in the Supreme Court are appropriate, and may be accepted.

The Parliamentary Committee does not agree with the recommendation of the Official Language Commission that when the time for the changeover arrives, judgments, decrees and orders of all High Courts should be in a common linguistic medium for the whole country, and, therefore, these should be in the Hindi language in all regions.

The Committee concedes that there are several considerations in favour of the adoption of a common language in the Supreme Court and all High Courts. The Committee has pointed out that the subordinate judiciary will be functioning everywhere through the regional languages, and it will be generally convenient for them as also for litigants if the judgments and orders of High Courts are in the regional language. It adds that not all judgments and orders passed by High Courts are reported as rulings, and appeals are filed before the Supreme Court only in a small percentage of cases. Moreover, in the opinion of the Committee, the regional languages should have full scope in their respective regions also in the field of justice.

The Committee, therefore, recommends that provision should be made optionally for the use of the official language of the States also for

purposes of judgment, decree and orders which is made in a language other than English language. Reportable judgments and orders will be translated also into Hindi.

The Committee hopes that in due course, knowledge of Hindi will become sufficiently widespread among the intelligentsia particularly lawyers, to enable the continuity of the present practice of advocates from one High Court appearing in another High Court.

The Committee agrees with the Commission's view that it is essential for the maintenance of "the juridical and judicial unity of the country" that legal terminology should be identical in all Indian languages and understood in the same sense throughout the country. Where identity cannot be achieved, alternatives should be given in the various regional languages.

Considering the complexity of the work in the legal field, the Committee considers that it would be advisable to constitute a Standing Commission consisting of legal experts representing the different national languages of India for the proper planning and implementation of the entire programme relating to preparation of legal terminology and glossaries, and the translation of statutes in Hindi. It is envisaged that the translations that will thus be made will be authenticated or re-enacted by the appropriate legislative authority.

The Committee suggests further that the State Governments may be advised to take necessary measures in consultation with the Centre for the translation of the State statutes from English into their own official languages utilising for the purpose the terms of the common legal vocabulary that would be prepared by the Standing Commission.

Numerals: The Official Language Commission did not make any recommendation for the use of the Devanagari numerals in addition to the international form of Indian numerals, as they considered that the latter form should be universally adopted by public authorities in the country if there is to be a common series of numerals all over India.

The Commission had, however, recommended that a uniform basic policy should be followed by the Union Government as to the use of Devanagari numerals in addition to the international numerals in the publications of different Ministries depending upon the public to be addressed. The Committee feels that in formulating this policy some consideration may be given also to the subject matter. Thus, where a publication deals with general, administrative or literary subjects, Devanagari numerals may also be used but for scientific, technical and statistical publications the international numerals may be regarded as particularly suited for common use.

DISSENT

Out of six separate notes and minutes of dissent, five argue for a speedy switch-over from English to Hindi, while one recommends the maintenance of the status quo until Parliament has had an opportunity to decide the next step after careful open consideration of the whole question.

In his note of dissent, Dr. Raghu Vira says that the Language Commission and the Parliamentary Committee have not done their duty in the positive way, and that they have not put any restrictions on the use of the English Language.

Dr. Raghu Vira suggests, among other things, that from 1960 onwards 20 per cent of the Central Secretariat should carry on its work in Hindi, and each year 20 per cent more officers be trained so that by the end of 1964, the working of the Central Secretariat would have been changed over from English to Hindi. He also suggests that "the form of numerals in Hindi should be the Devanagiri form".

The recommendation of Mr. Harish Chandra Sharma, who has submitted his note of dissent in Hindi, is that Hindi and other regional languages should be used with immediate effect in the official work. He says that the translations

of statutes and evolution of scientific terminology may take sometime but if sincere efforts are made, even this work should not take more than one year. In India if scientific progress can be made it can only be through the medium of the mother-tongue.

In his note, the late Prafulla Chandra Bhanj Deo says that the deliberations of the Committee 'have not contributed anything positive towards a speedy replacement of English by the universally accepted language of the soil. He considers that the rapid development of the all-India Official Language is the necessary precondition for developing united national thought, attitude and outlook, and criticises the Union Government for not preparing a vigorous plan of action embodying a clear time-limit for the early replacement of English by Hindi.

He characterises the Committee's view that no restriction should be imposed on the use of English for the present as 'unwarranted'. He also differs with the Committee's view that the official languages of States may be used for High Court judgments, orders and decrees, and says that the Commission were correct in saying that there were conclusive reasons for the view that when the time comes for the changeover, the language of judgments etc. should be Hindi in all regions.

The work of propagation of Hindi in non-Hindi areas, Shri Bhanj Deo says, should increasingly and zealously be undertaken by the Central Government itself and, if necessary, suitable legislation should be brought to this effect expeditiously after consultation with the State Governments.

In a joint note, Mr. Purushottam Das Tandon and Seth Govind Das say that since the inception of the Constitution, the Government of India have shown a lack of thought in bringing about conditions for the changeover from English to Hindi in the affairs of the Union.

Disagreeing with the Committee's view that there should be no restrictions on the use of English for the present, the members suggest that communications addressed to Class IV employees and members of the public, except those who write in English, should be in Hindi or the regional language. They also consider that there is no advantage in using English numerals in Hindi publications when these are mere translations or abstracts of the original English matter.

The joint note suggests that a separate Hindi Ministry be created to co-ordinate the work of other Ministries of bringing about necessary linguistic changes by stages and further that if this is not found acceptable, an autonomous Board should be appointed under the Ministry of Home Affairs or the Ministry of Education to carry out the needed reform so that the entire change over from English to Hindi should be effected by 1965 or within a year or two years after 1965.

Mr. Frank Anthony's minute of dissent which runs into 20 pages is directed against the whole report. He considers that there is nothing fundamental about the language provisions of the Constitution, and the time has come when in the light of experience and the growing demand of the people, the language provisions must be reviewed. Mr. Anthony observes that although English is undoubtedly foreign in origin, in fact and legally, it is an Indian language and must be accepted as much as Hindi or the language of any other section of the Indian people. He considers that it is a complete misconception that nationality postulates uniformity in matters such as language, culture and social habits.

Mr. Anthony objects to the use of the expression 'Hindi and other national languages' in the Committee's report which he considers,

among other things, imports the multi-national concept in official thinking and may lead to disintegration of the country. In his view 'every major consideration of national interest is against the imposition of Hindi.' He, therefore, recommends that the status quo be allowed to continue at least until Parliament has had an opportunity to decide the next step or series of steps after careful, open consideration of this whole vital language question.

Pandit Bhargava says that there was no difference of opinion in the Parliamentary Committee in regard to the basic approach that adherence to the constitutional settlement was the only safe and practicable course to adopt. He agrees with Mr. Tandon's view that communications to Class IV employees who do not know English should be in Hindi or in the regional language, but differs from his suggestions as regards the creation of a Hindi Ministry and change-over to Hindi by 1965 or within a year or two after that.

PROMOTION OF HINDI

Below we give a summary of the various steps taken to promote the use of Hindi.

All India Radio broadcasts Hindi lessons from non-Hindi stations. In addition, Hindi lessons through the medium of English are broadcast from Delhi station for persons in Diplomatic Missions and other non-Hindi listeners.

Hindi news bulletins are relayed by non-Hindi stations.

The following grants were paid to certain bodies for specific purposes:

1 Sahitya Ratnamala Karyalaya, Banaras, Rs 5,500, for the compilation of 'Shabda Sadhna'.

2 Akhil Bharatiya Hindi Parishad, Agra, Rs 67,580, for the training of Hindi teachers from non-Hindi speaking States.

A basic Hindi vocabulary has been determined and published in 'Basic Hindi Vocabulary'.

The ten volume Hindi encyclopedia: This is entrusted to the Nagari Pracharini Sabha of Banaras. The total cost would be Rs. 6.5 lakhs. Till March 1959, a sum of Rs. 1,20,000 was paid. Much of the preparatory work is over. The material for the first volume, which was ready, was expected to be sent to the printer at any time.

Technical Terminology: There is a Board of Scientific Terminology under which a number of expert committees are working.

Upto 31st Dec. 1958 about 1,40,000 terms in different subjects were evolved. Out of these 33,600 were finally approved by the Government of India, while 7,298 were awaiting the approval of the Cabinet.

Technical terms in the following subjects have been finalized and are available for sale from the Manager of Publications, Civil Lines, New Delhi:

Agriculture—I, Botany—I, Chemistry—I, Chemistry—II, Defence—I, Defence—II, Diplomacy, Economics—I, Engineering—I (building material), General Administration (designation), Mathematics—I, Physics—I, Posts & Telegraphs, Social Sciences.

Final lists on the following subjects were in the press:

Agriculture—II, Broadcasting—I, Defence V, Economics—II, General Administration (General Terms), Highway Engineering, Mathematics—II, Medicine—I, Medicine—II, Overseas Communication Service, Posts & Telegraphs, Railways (General Traffic terms), Tourism, Zoology.

Revised lists for the following were with the Board for approval:

Botany—II, Defence—III, Defence IV, Diplomacy—II, Economics (Labour Economics), Education (General Terms), Engineering (Irrigation & Hydro-electric Engineering), Posts and Telegraphs (Stamps and Seals), Transport (Shipping).

The following lists were in circulation:

Agriculture—III, Botany—III, Chemistry—III, Chemistry—II, Defence VI, Defence VII, Economics—IV, Education Psychology, Meteorology, Law—I, Law—II, Physics—I, Mathematics—IV, Zoology—II.

An English version of the basic grammar of Hindi has been brought out.

Bilingual editions of 60 Central Acts, including the Code of Civil Procedure have been published.

Diglot editions (texts in English and Hindi in the same volume) of the Indian Code and the General Statutory Rules and Orders are also under preparation.

The report of the Hindi Typewriter and Teleprinter Committee was ready but publication was delayed pending the finalization of the reform of the Devanagari script.

The evolution of Hindi short-hand must await a phonetic analysis of the language. This is expected to be complete in 1960. Then it will go before the Hindi Shorthand Committee.

It has been decided to start training colleges for Hindi teachers for non-Hindi areas. The first of these would be set up in Kerala.

Other measures for the promotion of Hindi include:

The publication of revised and critical editions of standard Hindi works now out-of-print, of omnibus volumes of the works of eminent Hindi writers, visits of debating teams of schools and colleges from non-Hindi areas to Hindi areas, lecture tours of prominent Hindi speakers in non-Hindi areas, prizes for Hindi books of outstanding merit, preparation of histories of sciences, encyclopedia of Hindu mythology, dictionary of Indian phrases and fables.

There is now a committee to investigate the question of the recognition of Hindi examinations conducted by various organisations in the country. The Chairman of the committee is Mr. R. D. Sinha Dinkar, M.P.

More than 17,000 Central Government employees were learning Hindi during office hours at 51 centres in October 1958. The scheme which was initially started by the Ministry of Education in July 1952, was taken over by the Union Ministry of Home Affairs in September 1958.

Employees are offered three courses—Prabodh, Praveen and Pragya—each one lasting for nine months. The medium of instruction is English.

Prabodh, the first or elementary course, is intended for those who speak a south Indian language or English. Praveen, that is the second or middle course, is meant for those whose mother tongue is either Marathi, Gujarati, Bengali, Assamese, or other allied language. Pragya, which is of the standard of Matriculation, is for those whose mother tongue is Punjabi, Urdu, Kashmiri, Sindhi, Pushtu or other allied languages.

Since the aim of the Government's schemes is to enable people to pass the various tests quickly, the Government employees are permitted to take the tests without joining the classes.

To encourage more employees to learn Hindi, Government grants cash awards on the results of each test in the order of merit.

PETROLEUM INDUSTRY

PETROLEUM consists of mixtures of hydrocarbons which are in liquid, solid or gaseous forms. Very frequently these three forms are found together but in completely different proportions in different localities. In addition, all natural crudes contain small quantities of compounds containing sulphur, nitrogen or other elements.

Because of the varying mixtures of hydrocarbons, crude oils from different sources differ widely. Thus, from some crude oils sufficient lubricating oils and waxes may be obtained while others may yield insignificant quantities of wax but huge quantities of asphaltic bitumen.

Crude oil may be divided, very broadly, into three classes:—

(1) **Paraffin Base Crudes**: They usually give substantial yields of paraffin wax and lubricating oils, e.g. Assam Crudes. (2) **Asphaltic Base Crude**: This type of crude contains little or no paraffin but asphaltic matter in large proportions, e.g. crudes from Venezuela. (3) **Mixed Base Crudes**: Contain both paraffin wax and asphaltic matter in quantity, e.g. crudes from the East Indies.

Crude Oil is processed in a unit called a refinery to make it yield its various components. There are hundreds of products manufactured from crude oil. In fact, today, there is hardly an industry which does not use some kind of petroleum product. To list here a few products:—

Kerosene is used as illuminant and cooking fuel. Motor Spirit and Aviation Spirit are used as fuel by automobiles and aeroplanes respectively. High Speed Diesel Oil is used by trucks and buses as fuel as the diesel engines require less volatile fuel. Furnace Oil is used in factories and textile mills as under-boiler fuel and for steam raising. Mineral Turpentine is used as base in paints and varnishes. Wax is used for manufacturing candles. Lubricants are used for lubricating machines. Bitumen is used in road-making, insulation purposes. Chemicals are used for industrial, agricultural purposes.

Demand for petroleum products in India has been steadily growing with the years. Between the years 1948 and 1958, the total demand for petroleum products has increased from approximately 2.2 million tons to about 6.0 million tons, representing an annual average growth rate of 10.5%. By 1960, it is expected that demand will be in the region of 10.5 million tons representing an annual growth rate of 7.4% from 1958 onwards.

Though demand for all products with the notable exception of Motor Spirit is on the increase, there are significant differences in the rate at which this growth is taking place in the consumption of individual products. Most noticeable increases are in kerosene and diesel oils.

With the growth in India's economy and rapid industrialisation, set in motion by the various five-year plans, oil consumption has steadily grown but compared with other countries the per capita consumption is still very low. The figures given below are for 1957 in imperial gallons:

U.S.A. and Canada 594, Scandinavia 214, Australia 203, Argentina, Paraguay, Chile 122, U.K. and Eire 115, Japan 41, Ceylon 14, India and Pakistan 4.

India's current production of crude oil from the Digboi area in Assam is 400,000 tons per year which is just sufficient to meet about 6% of her present requirements of petroleum products. To meet increasing demand, India therefore has to import today about 4 million tons of crude oil annually, and kerosene, diesel oils and other refined products. As against total imports of petroleum products valued at Rs. 63.83 crores in 1949-50, the total imports of crude and products more than doubled in 1957-58 and stood at Rs. 108.08 crores.

The total investment in the petroleum industry is reckoned at Rs. 244 crores out of which Rs. 214 crores is foreign investment.

REFINERIES

The Digboi Refinery of the Assam Oil Company is as yet the only producer of finished products making use of indigenous petroleum crude.

Commissioned in 1899, the Digboi Refinery was the only refinery in India till 1954. A new gasoline plant and a new lubricating oil distillation unit were added to the refinery in 1954, at a total cost of Rs. 585 lakhs. In 1958 the refinery produced a total of 114.5 million gallons of finished products.

As a result of agreements between the Government of India and the oil companies concerned, Burmah-Shell and Stanvac set up refineries at Trombay (near Bombay) while the Caltex Refinery was established at Visakhapatnam. The Stanvac Refinery which has an annual capacity of about 1.3 million tons went into production in July 1954 while the Burmah-Shell Refinery, with a capacity of over 2.0 million tons, went on stream in January 1955. The Caltex Refinery started refining operations in May 1957. Its capacity is 0.675 million tons.

Thus, during the first Five-Year Plan period, with the establishment of the Burmah-Shell and Stanvac Refineries, the installed capacity for the refining of crude increased by 3.2 million tons and during the second Five-Year Plan, by 0.675 million tons, with the coming on stream of the Caltex Refinery.

The three Refineries represent the biggest single foreign private investment in recent times in any one industry in the country. The total fixed capital expenditure in the refining industry up-to-date is estimated at Rs. 70 crores.

BURMAH-SHELL REFINERIES LTD.

Burmah-Shell Refineries Ltd. was incorporated in India on 3rd November 1952, for the purpose of constructing and operating a petroleum oil refinery on a 450-acre plot of land in south-west Trombay—near Bombay.

Site clearance and construction work was first started in April 1953 and the major part of the work was completed by the end of 1954.

The Refinery commenced operations on January 30, 1955.

The crude oil intake of the Refinery is about 2,000,000 tons per annum, the crude oil comes from the Persian Gulf area.

The refinery manufactures motor spirit, kerosene, high speed diesel oil, furnace oil, bitumen and liquid petroleum gas.

The total cost of the refinery was about Rs. 26 crores, and the total labour staff employed in the refinery including all categories is about 2,000.

Residential quarters for key operating staff have been provided at a short distance from the refinery, and in addition, Burmah-Shell Refineries Ltd., have paid Rs. 40 lakhs to the Bombay Government for the provision of houses for Refinery labour employees and their families in the Chembur-Ghatkopar area.

Burmah-Shell Refineries Ltd., have also provided a 10-acre recreation ground for their staff and labour employees. The Burmah-Shell Refineries operation is estimated to save India about Rs. 7.5 crores annually in foreign exchange.

CALTEx OIL REFINERY

The Caltex Oil Refinery, costing Rs. 15 crores, went into full operation in 1957 at Visakhapatnam. The products include petrol, kerosene, diesel oil and fuel oils from the Refinery's flexible two-stage crude oil distillation unit, the fluid catalytic cracking unit with gas recovery facilities, the polymer plant, the propane decarbonisation unit and treating and blending plants.

About 9,000 construction workers were employed at the site during peak period, and in operation the Refinery now has a permanent staff of about 500. It took two years to build.

The Visakhapatnam Refinery, offspring of India's Second Five Year Plan, is one of the most modern and efficient refineries. The Refinery occupies an area as large as 515 acres, and this relaxed setting, a feature unique among Indian Refineries, makes for beauty and work comfort, besides providing scope for future expansion.

The Refinery treats crude oils both from the Middle East and Indonesia, the latter, introduced for the first time to India, having special properties. It helps to realise some of India's technological goals by meeting the specific demands of the market for petroleum products such as low-sulphur fuel, so important to the country's fast-growing steel and other industrial plants.

Extensive technical training in refinery operations were given to all Indian personnel. A number of Indians spent from three to six months' training at the Caltex Refinery, Batangas, in the Philippines. Today, key Indian personnel are sent to the United States on scheduled training programmes.

STANVAC REFINERY

The Standard-Vacuum Refining Co. of India Ltd. started construction of the refinery in December 1952 and production started in July 1954.

The refinery which is situated on Trombay Island near Bombay cost about Rs. 17.5 crores. It employs a staff of about 720, and has a designed output of 33,000 barrels (4,400 long tons) a day—about 421 million gallons (1,606,000 long tons) a year.

Generally speaking, the refinery will meet about 30 per cent of the country's needs.

Initially, the refinery was designed to process 25,000 barrels a day of crude from the Middle East. In the first half of 1959, the work on the planned expansion programme was completed. This programme included steps for increasing refinery crude processing capacity from 25,000 to 33,000 barrels a day as well as for manufacturing new products such as Bitumen and Jute Batching Oil.

The Refinery started production of liquified petroleum gas in 1958 and this is being distributed in bottles for domestic use. Bitumen was to be produced for the first time by Stanvac beginning July 1959. Besides these products, the Refinery has plans to produce other specialty products to meet the growing needs of the country and save additional foreign exchange.

With the expansion of this refinery and production of new products, India will save additional Rs. 2.6 crores in foreign exchange annually.

Negotiations are in progress with the Government for the sale of refinery gases for the manufacture of fertilisers at a projected plant nearby in Trombay.

PUBLIC SECTOR REFINERIES

Two refineries are proposed to be set up in the public sector, one at Gauhati in Assam with a 750,000 ton capacity and the other at Barauni in Bihar with a capacity of about 2 million tons. Both the refineries are being designed for maximum kerosene production.

In October 1958, an agreement was concluded between the Government of India and the Rumanian People's Government for setting up the first refinery in the public sector, in Assam, at an estimated cost of about Rs. 12 crores. A suitable site has been selected near Gauhati, and it is planned to have the refinery in operation early in 1961. It is understood that the Rumanian Government has offered a long-term credit of Rs. 5.24 crores, and technical assistance.

The Rumanian credit will cover the cost of the plants, supplies and technical services. It will bear an interest of 2½ per cent. per annum. Fifteen per cent of the credit will be repayable in six instalments between the signing of the agreement and the commissioning of the refinery.

The balance of 85 per cent. of the credit will be repayable in 10 instalments between December, 1961 and December, 1968.

The Rumanian Government will, as far as possible, buy Indian goods against its credit. The balance of credit not thus utilised will, however, be made convertible after April 1, 1961, but not earlier.

Under the Indo-Rumanian agreement, the Rumanian Government has undertaken to design the refinery, supply equipment and materials, provide the necessary technical assistance in construction and erection, train Indian technicians in designing, erecting and operating the refinery in Rumania, and put the refinery into operation.

The Indian Government, on its part will be

responsible for selecting the refinery site, collecting the necessary data, furnishing all facilities for construction, materials, storage, transportation and drawing up the contract. It will also be responsible for the construction and erection of the refinery with the assistance and under the supervision of Rumanian engineers.

An agreement for the second refinery in the public sector, to be erected at Barauni with the co-operation of the Government of U.S.S.R. is under negotiation (June 1959). The estimated cost of the refinery will be about Rs. 40 crores, of which, it is reported, Rs. 28 crores will represent the foreign exchange content. The refinery is expected to come on stream in 1962.

A Government-owned and Government managed private limited company—Indian

Refineries Limited—was incorporated on August 20, 1958, to control and manage the two proposed refineries. Its total authorised capital is Rs. 30 crores.

These refineries will be fed with crude oil from the Nahorkatiya oil-wells. A 280-mile long pipeline will connect the Gauhati refinery with the oilfields. At a later stage, the pipeline will run for a further 470 miles and will carry crude oil to the Barauni refinery.

Meanwhile, a great deal of preliminary survey has already been made on the route of this pipeline. According to the present programme the first stage of pipeline should be completed by mid-1961 and the second stage by the middle of 1962.

OIL EXPLORATION AND POLICY

At present oil exploration is conducted by four agencies: The Assam Oil Company, The Oil India Ltd., The Stanvac Project, and the Oil and Natural Gas Commission.

Nearly 4,00,000 square miles comprising parts of the Punjab, Ganga Valley, Assam, West Bengal, Gujerat, Kutch, Rajasthan and the East and West Coasts, are considered as areas deserving exploration for petroleum.

The first two agencies operate in Assam, the Stanvac operates primarily in West Bengal and the Oil Commission in the Punjab, H P, Jammu U.P., Rajasthan, Cambay and Kutch.

At the beginning of 1959 there were 98 foreigners helping in drilling surveys all over India.

At Jwalamukhi there is a technical school conducted by Government for training in drilling which trains batches of 20 at a time

Assam Oil Company: India's first oil-well, 102 feet deep, was drilled with a steam-powered drill, near an oil seepage at Nahar Pung in Assam in 1866. It failed to strike oil. But on 28th March 1867, oil was struck at 118 feet at Makum. A few more wells were dug but not much was done for the next twenty years.

Assam Railway and Trading Company were the pioneers in the field of exploration. Between 1890 and 1893 they drilled 4 wells varying in depth from 662 feet to 910 feet. They obtained a concession from the Government to search for oil.

Another company, Assam Oil Syndicate, also obtained a similar concession. Both the companies met with a fair measure of success. By 1898, 15 wells were dug and the crude was refined at Margherita where a small refinery was set up.

The two companies then merged and formed the Assam Oil Company. A refinery was built at Digboi with a capacity of 17,000/20,000 gallons a day.

By 1920, the Assam Oil Company completed about 80 wells. Production reached 14,000 gallons a day. Burmah Oil Company, which had achieved considerable success in Burma, now took over control of the Assam Oil Company and re-equipped Digboi with modern machinery. By 1925, well No. 125, the first large well, was drilled. Production reached 4,500 barrels a day in 1931. Assam Oil Company has drilled nearly 1,000 wells so far out of which nearly 600 are in operation now.

The first gravity survey for sub-alluvial oil prospects in India was carried out by the Assam Oil Company in Nahorkatiya in 1926, long before oilfields had been discovered by such methods anywhere in the world. Seismic survey was carried out in the area in 1938-39, but drilling operations could be undertaken only in 1952. A year later oil was struck at the first well at 11,715 feet. Since then 48 wells have been drilled of which 33 are potential producing wells, and are now shut in pending construction of the pipeline to move the crude to the new refineries to be set up in the public sector.

To advise on the use of natural gas at Nahorkatiya an Italian firm of consultants has been appointed.

Producer wells in Nahorkatiya led to an intensive programme of geophysical surveys over the entire alluvial area of Upper Assam and in March 1959 drilling operations started in Moran. The test well struck oil in September 1956 at 13,739 feet more than 2½ miles.

Wells at Moran are deeper than those at Nahorkatiya. So far 9 wells have been completed and the 10th one has reached a depth of 11,688 feet. Three of these wells have proved to be dry holes.

It is estimated that the Nahorkatiya and Moran oilfields can support a production of 2½ million tons per year and the development of the resources discovered in this area has now been taken over by Oil India Limited, a partnership between the Government of India and the Burmah Oil Company. The reserves of crude oil in Assam are estimated at 42.5 million tons. They will meet about 40 per cent of India's present requirements of about five million tons.

Oil India Private Ltd., a partnership between the Government of India and the Burmah Oil Company, was registered on February 18, 1959, in Shillong, as a Rupee Company. The headquarters of the Company is at Digboi.

Oil India has an authorised capital of Rs 50 crores, divided into 500,000 shares of Rs. 1,000 each. Two-thirds of the share capital will be provided by the Burmah Oil Company and one-third by the Government.

This Rupee Company took over the assets of the Assam Oil Company in the Nahorkatiya, Hooglijan and Moran areas. It will explore and exploit oil resources in the above areas. It will deliver crude oil to the two refineries to be set up in the public sector, one in Assam and the other at Barauni in Bihar. It will undertake the construction of a pipeline in two stages and its operation or such other related facilities as may be considered necessary for the transportation of crude oil up to the two refineries. Burmah Oil Company will advance a sterling loan to the extent of £10 million to meet the foreign exchange content of the cost of the first stage of construction of the pipeline.

Oil India has thus taken over the 48 wells that have already been drilled by Assam Oil Company. Out of these, 8 have proved to be unsuccessful and seven are to be further tested. Thirty-two wells have so far proved successful. The average depth of a well is about 10,614 feet. According to the appraisals made at the end of 1957, the proved possible reserves in this area amount to about 42 million tons.

The Government of India and Standard-Vacuum Oil Company jointly promoted a venture to explore for oil over an area of 10,000 sq. miles in West Bengal and other mutually agreed areas.

The Government has contributed 25% of the expenses. The Government contribution up-to-date stands at Rs. 180,19,882.

Out of 6 wells drilled by Stanvac in Burdwan area, 5 wells proved dry. The results of the 6th well are still awaited.

Oil and Natural Gas Commission: The Oil and Natural Gas Commission, of which the Minister for Oil is chairman, has its headquarters in Dehra Dun and about 1,600 persons on its staff. The Commission has three Directorates—Geology, Geophysics and Engineering.

The Commission has been carrying out deep test drilling at Jwalamukhi, Hosharpur and Cambay and proposes to start operations in Sibsagar.

During 1957-58 field-season, the Oil and Natural Gas Commission had put in 14 geological, 8 gravity-cum-magnetic survey parties, 6 seismic parties, and one electrologging team in different parts of the country. The geological parties mapped 1,818 sq. miles of area and completed 1,147 linear miles of traverses in Punjab, Himachal Pradesh, Jammu, U.P., Rajasthan, Cambay and Kutch.

The total area covered by the gravity-cum-magnetic parties was 13,324 square miles involving observations at 7,108 line miles of traverses levelling. The six seismic parties covered 412 line miles of profiles with the assistance of the Soviet technicians.

For the field season 1958-59, the Commission put in 18 geological parties, 6 gravity-cum-magnetic parties, 3 seismic parties and one electrologging team. The geological parties carried on investigations in Jwalamukhi, Janauri, Mandi, Joginder Nagar, Jaisalmer, Bikaner, Jodhpur, Baroda, Baroch, Choga, etc. and the seismic parties operated at Cambay, Baroda, Mathura, and Baroch. The gravity-cum-magnetic parties operated in Cambay and Jaisalmer and the remaining three in U.P., Kutch and Cambay.

It is proposed to put in 21 field-parties covering 4,200 square miles in north-western, eastern and south-western regions during 1959-60 field season. In regard to geophysical work, the Commission proposes to put 12 field gravity parties and 10 seismic parties. The target for work for the year is to cover 22,500 stations (2,250 square miles) by gravity-cum-magnetic survey, and 2,875 line miles by seismic survey.

The Jwalamukhi Test Well No. 1 reached a depth of 2,678 meters by 15th January 1959. Deep drilling in Hosharpur was started on 5th June 1958 and the well had reached a depth of 3,439.00 meters on 15th January 1959. Drilling was also started in Cambay and Baroda. The well at Baroda had reached a depth of 228.00 meters and the Cambay well 2,191 meters by 15th January 1959.

DISTRIBUTION

Distribution is that stage of the petroleum industry when refined products leave the refinery on their way to the customer. Inland distribution is a very big undertaking in this country. Nearly 6 million tons of petroleum products are now distributed annually.

Up to 1954, the petroleum products obtainable from the only indigenous source Digboi Refinery—were absorbed in Assam and part of North India. The rest of the country's requirements were imported and distributed by Burmah-Shell, Stanvac, Caltex, Indo-Burma Petroleum Company and Western India Oil Distributing Company.

With the commissioning of the two refineries in Bombay in 1954-55 and the one in Visakhapatnam in 1957 the pattern of distribution changed. Large quantities of crude are imported into Bombay and Visakhapatnam and the refined products are distributed throughout the length and breadth of the country.

Currently, refineries in India give the country self-sufficiency in motor spirit, L.D.O., bitumen and furnace oil and meet a large percentage of H.S.D. requirements. In fact, motor spirit and furnace oil production is in excess of demand and some is exported. On the other hand, kerosene, lubricants and H.S.D. are imported to meet the growing demand.

The distribution network consists of a number of large storage points called 'Installations' situated at main ports. Installations receive supplies from the refineries or direct imports from overseas. From the Installations supplies move to the interior by rail to be stored at smaller storage points called 'Depots' scattered all over the country. These Depots in turn feed the surrounding areas.

It was reported at the end of March 1959 that the Government of India was actively considering a proposal to set up an official organisation to undertake the distribution of petroleum products.

The proposed scheme will not mean the displacement of the existing distributing companies, though some diminution of their sphere of activity is inevitable in course of time.

The chief aim of the proposal is to give the Government experience in the organisation of oil distribution in anticipation of the commissioning of the Gauhati and Barauni refineries, whose products will be handled by the Government when the projects are commissioned, beginning with the Gauhati refinery in the first half of 1961.

The oil companies have suggested the establishment of a committee, consisting of officials and representatives of the oil industry, to go into the transportation pattern of the Gauhati and Barauni refineries and to examine such matters as ways and means of removing the imbalance between the production of the oil refineries and the consumption pattern. The general feeling in official circles is that distribution charges constitute an unduly large factor in the final price of petroleum products in this country. On a rough computation, this and the distribution companies' profit works out to 25 per cent. of the consumer cost.

As a result of negotiations with the oil distributing companies, an agreement was reached with them towards the end of May, 1958, resulting in the following:—

(a) With effect from 20th May, 1958, the companies agreed to certain *ad hoc* reductions in their selling prices of major petroleum products. With effect from the same date, these *ad hoc* reductions in the selling prices of the companies were mopped up through the Mineral Oils (Additional Duties of Excise and Customs) Ordinance, 1958 which was later replaced by corresponding Act. As a result, the consumer prices have been maintained at the same level.

(b) Simultaneously, an examination was started by the Chief Cost Accounts Officer of Government, on the quantum and propriety of all charges (from f.o.b. point or points to c.i.f. point) included by the companies in their selling

prices of each product in the past so as to evolve a new price formula to cover all petroleum products marketed in, or from, this country and to arrive at an agreed break up of the items to be included in that new price formula, and the quantum of each such item. The companies agreed to provide all necessary facilities and information for this examination.

The report of the Officer is now under examination.

Despite the growing demand for petroleum products due to rapid industrialisation, supplies were maintained satisfactorily throughout the year. As Kerosene accounts for the bulk of the imports of petroleum products, it was decided, after consulting the distributing companies, in September, 1958 that the total sales during July-December, 1958 would be kept at 5 per cent. below the level of the total sales during the corresponding period in 1957.

As indigenous production during 1958 was in excess of domestic requirements, it was possible to export over 200,000 tons of motor spirit and over 150,000 tons of furnace oil. In addition, over 21,000 tons of paraffin wax, produced from indigenous crude in the Digboi refinery in Assam was also exported.

A committee has been set up under the auspices of the Council of Scientific and Industrial Research to consider ways and means for expanding research and training facilities and setting up an Institute of Petroleum Technology.

With the increase in the consumption of petroleum products, various problems affecting the consumers of petroleum products, have been arising. Therefore, an advisory body, known as the Petroleum Consumers' Advisory Council has been set up in which different Ministries, major consuming industries, and the trade are represented. The first meeting of this Council was held on the 4th November, 1958.

INDEX NUMBERS OF WHOLESALE PRICES—BY GROUPS AND SUB-GROUPS

[1952-53 = 100]

Period.	All commodities	Food articles.	Liquor and tobacco.	Fuel, power, light and lubricants.	Industrial raw materials.	Manufactures.
1956-57	105.3	102.3	84.3	104.2	116.0	106.3
1957-58	108.4	106.4	94.0	113.5	116.5	108.1
1958-59	112.9	115.2	95.4	115.4	115.6	108.3
January 1959	112.4	114.3	103.6	114.9	114.1	108.4
February 1959	113.3	115.7	104.4	115.1	115.5	108.4
March 1959	112.3	113.8	100.3	115.6	116.2	108.2
April 1959	111.9	113.1	97.5	115.6	116.2	108.1

CONSUMER PRICE INDEX NUMBERS—WORKING CLASS

[Year 1949 = 100].

Centre.	1956-57.	1957-58.	1958-59.	1959.		
				January.	February.	March.
All-India	107	112	118*	117	118*	117*
Ahmedabad	101	104	115	121	121	117
Bangalore	118	128	132	134	134	135
Bombay	116	122	130	129	130	131
Calcutta	102	105	109	105	104	104
Cuttack	108	111	117	113	111	113
Delhi	112	112	117	122	126	126
Hyderabad City	121	123	124	126	126	125
Jamshedpur	108	118	123	115	120	121
Kanpur	91	93	101	103	103	99
Madras City	113	117	126	120	127	127
Nagpur	107	113	122	127	129	129
Sholapur	110	110	106	108	109	107

* Provisional.

POSTS AND TELEGRAPHS

At the head of the Department is the Director-General, who is assisted by a Posts and Telegraphs Board of which he is Chairman.

The Department is responsible for the postal, telegraph, telephone and wireless communications of the country.

For purposes of administration, the country has been divided into 13 territorial units, 12 of which are P. & T. Circles, viz., West Bengal, U.P., Punjab, Bombay, Central and Madras Circles, under Postmasters-General; Assam, Orissa, Rajasthan, Andhra and Hyderabad Circles under Directors of Posts and Telegraphs, besides a Postal Circle at Delhi under a Director of Postal Services.

Four Telephone Districts have been set up in the cities of Calcutta, Bombay, Madras and Delhi.

In addition to these, administrative units on a functional basis have also been set up viz. Additional Chief Engineer, P. & T., Jabalpur; General Manager, P. & T. Workshops, Calcutta; Chief Controller of Telegraph Stores, Calcutta; Deputy Director of Postal Life Insurance, Calcutta; Superintendent, Forms Stores and Seals, Aligarh; Superintendent, Forms Stores, Calcutta; and Superintendent, Forms Stores, Nasik.

Though the P. & T. functions as a commercial department its finances are not separate from general revenues.

The revised estimates for 1958-59: gross receipts: Rs. 66.36 crores; working expenses: Rs. 60.98 crores.

1959-60 budget: gross receipts: Rs. 69.24 crores; expenses: Rs. 65.04 crores.

The accumulated surplus on 1st Apr. 1958: Rs. 23.02 crores. The total interest-bearing capital outlay: Rs. 110.64 crores.

Staff: 3,16,617 (on 31st March 1958).

Traffic statistics (1958-59 estimates): total no. of postal articles handled: 350 crores; no. of registered articles handled: 10.3 crores; no. of money orders issued: 6.9 crores; Value of money orders issued: Rs. 275 crores; No. of savings banks transactions: 2.1 crores; No. of telegrams: 3.4 crores; No. of telephone connections: 360,000; No. of trunk calls: 2.5 crores; mileage of wire maintained: 990,000.

The no. of complaints received during 1958 was 4,86,716 and of those finally disposed of was 4,82,378.

Hindi: Efforts continue for the propagation of Hindi: Facilities for booking and transmitting exist in about 1,400 offices. A pocket guide in Hindi has also been brought out. Orders have been issued to publish Telephone Directories in Hindi at certain important places. About 3,000 officials attend classes in Hindi.

Metric System: Accounts have been maintained in the Telephone branch in the decimal system since 1st Apr. 1958. 10 nP, 15 nP and 25 nP revenue stamps were introduced on 1st Oct. 1958. About metric weights and measures, preliminary action connected with the introduction of the first phase in the Engineering Branch with effect from 1st Apr. 1959 was taken. Action to procure the weights and measures has also been taken.

Five Year Plans:

The progress during the First and Second Plans is shown below:

	First Plan	Second Plan (Dec. 31, 1958)
Post Offices	19,712	8,082
Telegraph Offices ..	1,465	839
P.C.O.'s (Long Distance)	916	497
Telephones	109,600	98,000
New Exchanges	847	271
Channel Mileage (Telephones)	44,800	94,600
Channel Mileage (Telegraph)	63,200	70,100

POSTS

No. of post offices (1st Apr. 1958): 61,886 (Rural 54,922; urban 6,964).

New post offices continue to be opened in the rural areas according to the policy laid down in 1953.

The total no. opened from 1st Apr. to 31st Dec. 1958: 1,492 (rural 1,416; urban 76). In 1959 it is proposed to open in all 1,946 (rural 1,804; urban 106).

At the end of 1957 the number of villages (area served by a post-office 20 sq. miles (1951. 35 sq miles)) in which there was a daily delivery was 2,07,499. At the end of 1958 this went up to 2,21,404. The position as in Dec. 1958 for other frequencies was as follows: .

Tri-weekly 1,51,329 villages; twice a week 1,72,267; weekly 1,08,258; over a week 16,655.

The total no. of letter-boxes on 1st Dec. 1958: 1,42,110 (rural 1,08,189; urban 33,921).

About 265 runners covering 2,146 miles were converted to speedier modes of conveyance.

The delivery frequency in rural areas has also increased.

Postal revenue 1957-58: Rs. 34.88 crores.

Postal insurance, total business in force (1957-58): civil Rs. 28.57 crores; military Rs. 5.46 crores. No. of policies: civil 1,36,539; military 8,339.

Postal insurance, new business in 1957-58: civil Rs. 1.52 crores; military Rs. 0.48 crores. No. of new policies: civil 7,843; military 602.

Commemorative stamps: (1958): These were issued on the following occasions: 50th year of steel industry (1st March; 15 nP); birth centenary of Dr. D. K. Karve (18th Apr.; 15 nP); Indian Air Force Silver Jubilee (30th Apr.; 15 nP and 90 nP); birth centenary of Biplin Chandra Pal (7th Nov.; 15 nP); Children's Day (14th Nov.; 15 nP); birth centenary of Jagdish Chandra Bose (30th Nov.; 15 nP); India-1958 Exhibition (30th Dec.; 15 nP).

TELEGRAPHS

By the end of Dec. 1958, only three District towns (in remote NEFA) out of 325 in the whole country, 10 out of 482 sub-divisions, and 168 out of 1,382 *tehsils* remained without telegraph facilities.

The total number of telegraph offices in the country was 5,895 on 31st Dec. 1958. This is exclusive of the licensed telegraphs under the Railways and Canals. The number of offices opened between April and Dec., 1958 was 163.

Mileage of overhead wires (1957-58): 9,53,785.

Mileage of underground cable conductors: 13,65,236.

Telegraph revenue: Rs. 8.2 crores.

The tape relay exchange introduced for the expeditious disposal of traffic functions at present for 23 circuits with a capacity for handling 13,000 messages per day. Similar modernisation of telegraph offices at Calcutta, Delhi and Madras is to be taken up during the Second and Third Plans.

The Printergram service at Bombay is becoming more and more popular. The number of subscribers was 28 at the end of Dec. 1958. It is proposed to have similar boards for Calcutta, Delhi and Madras during the Second Plan.

There were about 1,350 teleprinters in service on 31st Dec. 1958. This is expected to reach about 1,400 by the end of March 1959.

The number of offices where there are facilities for service in Devnagari script was 1,400 on 31st Dec. 1958, including 47 railway telegraph offices. There were 11 classes for training in Hindi telegraph.

The number of telegrams booked in Hindi steadily increases. On an average approximately 7,400 were booked per month during 1958 as against 5,700 during 1957.

TELEPHONES

By the end of Dec. 1958, only 18 out of 325 District towns remained to be provided with telephone exchanges. The number of sub-divisional towns without telephone facility by Dec. 1958 was 48.

The total number of telephones at the end of Dec. 1958 was 3,76,000. The number of new telephones added between 1st Apr. and 31st Dec. 1958 was 29,000.

The total no. of long distance Public Call Offices and local P.C.O.'s was on 31st Dec. 1958, 1,723 and 3,327 respectively. The number added between April and December was 151 and 278 respectively.

The total number of telephone exchanges was 1,082 on 31st Dec. 1958.

Telephone revenue 1957-58: Rs. 18.4 crores.

The Own Your Telephone scheme introduced in Dec. 1949 is in operation in:

New Delhi, Ahmedabad, Calcutta (Barrackpore and Serampore exchanges, and in a relaxed condition at other exchanges), Madras (except Mount Road, Kilpauk and Mylapore areas where it is in operation in a relaxed condition), Bombay (except the 24 and 26 exchange areas where it is in operation in a relaxed condition).

In a relaxed condition it is also in operation in Delhi (Tis Hazari and Karol Bagh exchange areas), Amritsar, Nagpur, Bangalore, Hyderabad, Varanasi.

Where relaxations have been permitted, telephones are also given to non-O.Y.T. applicants.

Upto Oct. 1958 the scheme had 83,475 applicants with a total collection of Rs. 7,59,69,500. The total number of telephone connections provided under the scheme upto that date was 83,147.

The message rate system is in force in 40 towns.

PRODUCTION (INDUSTRIAL) 1958

MECHANICAL AND GENERAL ENGINEERING

Industry	Accounting Unit	No. of Units	Installed Capacity	* Estimated Production
Agricultural Implements	tons	38	19,696	13,000
Ball Bearings	nos.	1	600,000	2,400,000
<i>Belting :</i>				
i) Hair and Cotton	tons	8	1,333	770
ii) Rubber Fly Transmission & Conveyor	"	7	859	1,865
Bicycle	nos.	20	9,25,500	1,000,000
Bicycle parts	Ra.	22	Not assessed	2,31,00,000
Boats and Crafts	nos.	21	912	803
Bolts, Nuts, Rivets and Dog Spokes	tons	22	37,870	33,956
Building and Hardware Fittings (Hinges, Hasps, Staples, etc.)	"	18	6,396	3,250
Chains	"	3	2,630	312
Crown Cork	gross	6	4,600,000	3,415,000
Duplicators	nos.	4	6,740	3,792
Expanded Metals	tons	4	7,280	1,735
Hurricane Lanterns	nos.	9	3,967,800	3,483,900
Incandescent Lamps	"	8	135,000	88,000
Laminated Leaf Springs	tons	7	12,250	11,313
Machine Screws	gross	9	1,241,000	1,896,000
<i>Needles :</i>				
i) Hosiery Knitting	Million nos.	2	9.0	5.05
ii) Gramophone	"	1	900	193
iii) Hypodermic	"	1	11,700	53.0
iv) Sewing Machine	"	1	3.6	1.2
Razor Blades	"	5	629.0	340.0
Rolling Stock (Rly. Wagons)	nos.	8	20,135	16,506
Sewing Machines	"	6	81,200	210,900
Steel Belt Lacking	Boxes	3	1,062,000	107,000
Steel Furniture	tons	20	31,020	20,400
Steel Pipes and Tubes	"	8	131,520	79,194
Steel structural	"	70	148,056	100,000
Typewriters	nos.	3	33,000	16,610
Welding Electrodes	Th. ft.	3	233,000	209,799
Wire Ropes & Stranded Wire	tons	2	6,000	2,285
INDUSTRIAL MACHINERY				
Agricultural Machinery	Ra.	34	Made to order	67,50,000
<i>Boilers :</i>				
i) Industrial Boilers	"	1	"	10,00,000
ii) Locomotives with Boilers	nos.	1	100	98
iii) Boilers	"	5	50	9
Cement Machinery	Ra.	1	made to order	64,62,800
Chemical and Pharmaceutical Machinery	"	22	"	55,00,000
Constructional Machinery	"	12	"	45,00,000
Sheep Foot Rollers (Earth-moving and Road-making)	nos.	2	(240 Single & Double Drums)	49
Industrial Machinery (Unclassified)	Ra.	10	Made to Order	8,00,000
Jute Mill Machinery	"	7	"	1,20,69,941
Oil Mill Machinery	"	51	"	30,00,000
Rice, Dal and Flour Mill Machinery	"	35	"	24,00,000
Sugar Mill Machinery	"	14	"	1,71,50,053
Tea Processing Machinery	"	2	"	65,00,000
Weighing Machines	"	5	"	42,00,000
TOOLS				
Coated abrasives	Reams	4	190,000	103,577
Grinding Wheels	tons	4	2,470	1,186
Machine tools (complete)	Value	20	} Ra. (Crores) 4.02	} Ra. 3,54,83,439
" " (accessories)	& Nos.				} Nos. 12,089
<i>Small Tools, Hand Tools :—</i>				
i) Threading Tools (Taps, Dies, and Chasers)	nos.	5	450,250	133,604
ii) Twist Drills	"	3	3,042,000	1,683,617
iii) Milling Cutters	"	17	178,975	140,676
iv) Hacksaw Blades	Gross	3	222,000	27,817
v) Bandsaw Blades	Rft.	1	9,000,000	321,888
vi) Tungsten Carbide Dies	Lbs.	1	2,016	1,787
vii) Steel Files	Dozens	5	348,000	240,357

* Based on the actuals for the first 9 months and estimated production for October, November and December 1958.

AUTOMOBILES AND ANCILLARIES

Industry	Accounting Unit	No. of Units	Installed Capacity	Estimated Production
Automobiles	nos.	6	49,800	25,805
Motor Cycles	"	1	6,800*	2,845
Scooters incl. Auto (Cycles)	"	1	"	5,085
Three Wheelers	"	2	6,000	424
Brake Lining	Ft./Tons or nos.	2	ft. 3,744,000	562,981
Dynamos	nos.	1	tons 84	500,035
Gaskets, Metallic	"	1	7,000	1,034
" Non-metallic	"	1	1,500,000	2,273,776
Pistons	"	1	6,000,000	—
Piston Rings	"	2	376,800	192,284
Radiators	"	2	3,300,000	2,962,426
Shock Absorbers	"	3	56,000	9,093
Spark Plugs	"	2	34,000	10,383
Valves	"	2	600,000	675,191
	"	1	144,000	43,176

DIESEL ENGINES, PUMPING SETS, ROAD ROLLERS AND TRACTORS

Diesel Engines (Stationary)	nos.	17	22,169	23,200
" (Vehicular type)	"	2	6,000	4,213
Power Driven Pumps	"	29	68,716	76,960
Road Rollers (Diesel)	"	2	220/270	100
Tractors	"	2	3,000	771

ELECTRICAL ENGINEERING

Cables and Wires :—

1) Aluminium Conductors	tons	5	13,370	14,000
2) Bare Copper Conductors	"	5	17,800	8,200
3) Rubber and Plastic Insulated Cables & Flexibles	million Yds.	10	196.60	120.0
4) Winding Wires	tons	4	1,466	2,300
Domestic Refrigerators	nos.	3	7,600	2,000
Electric Fans	"	21	765,600	685,000
Electric Lamps, Incandescent Filament	Million Nos	11	45.13	29.30
" Fluorescent Tubes	"	2	1,000,000	1,010,000
Electric Motors	H.P.	14	339,100	630,000
Power Transformers	K.V.A.	14	934,000	1,150,000
Radio Receivers	nos.	17	240,600	195,100
Room Air-Conditioners	"	10	19,800	12,100
Storage Batteries	"	13	316,500	343,400
Water Meters	"	2	42,000	32,000

METALLURGICAL INDUSTRIES

Virgin Metals :—

Aluminium	tons	2	7,500	3,044
Lead	"	1	6,000	3,042
Antimony	"	1	700	545
Copper	"	1	7,200	7,667

Semi-Manufactures :—

Brass, Copper Pipes and Tubes	"	1	360	55
" " Rods including Arsenical Copper Rods, Section, Bars, etc.	"	3	5,240	2,059
" " Sheets, Circles, Strips	"	19	45,000	23,600
" " Wire for Non-Electrical Purposes	"	4	1,958	930
Lead Pipes and Tubes	"	3	4,800	270
Lead Sheets	"	1	1,092	143
Zinc Sheets/Strips	"	4	5,700	1,962
Non-Ferrous Alloys such as Antifriction Bearing Metal, Bell Metals, Bronze, Gun Metal, Solders etc.	"	15	68,000	21,345
Steel Castings	"	14	69,000	28,315

CHEMICAL INDUSTRIES

Chemicals :

Activated Carbons	tons	3	415	165
Aluminium Sulphate (Ferric)	"	15	52,579	31,000
" (Iron Free)	"	8	6,898	3,800
Ammonium Chloride	"	3	8,498	6,000
" Sulphate	"	8	432,005	379,409
Bichromates	"	7	6,843	3,600
Bleaching Earth Activated	"	3	4,885	2,000
" Powder	"	3	14,840	6,800
Cadmium Electroplating Salts	"	2	119	2
Calcium Carbide	"	2	4,125	3,800

* Includes Capacity for 3 wheelers.

CHEMICAL INDUSTRIES—Contd.

Industry	Accounting Unit	No. of Units	Installed Capacity	Estimated Production
Caustic Soda	tons	15	68,696	55,400
Hydrochloric Acid	"	27	17,311	12,000
Iodides (Potassium)	Kgs.	1	10,909	1,045
" (Sodium)	"	1	5,454	1,186
Liquid Chlorine	tons	10	31,440	18,000
Nickel Compound Electroplating Salts	"	3	5,692	16
Nickel Sulphate	"	3	181	70
Shark Liver Oil	Galls. of 6,000 I.U.G.	3	70,000	58,203
Soda Ash	tons	2	111,000	86,200
Sodium Bicarbonate	"	2	6,720	5,500
" Bi-Sulphite	"	5	1,218	830
" Sulphite	"	4	828	400
Sulphuric Acid	"	36	290,066	227,000
Superphosphate	"	15	310,570	181,000
Acetic Acid	"	2	3,180	3,200
Acetone	"	1	600	700
Carbon Disulphide	"	4	8,150	7,400
<i>Liver Extracts :—</i>				
Injectons	C.Cs.	19	104,484,000	38,178,000
Orals	Kgs.	19	708,802	129,909
<i>Antibiotics :—</i>				
Chlortetracyclin (Aureomycin)	Kgs.	1	9,600	1,870
Penicillin	Million M. U.	2	50	29,04
D.D.S. and its Derivations	Kgs.	3	7,745	1,226
Isonicotinic Acid Hydrazide	"	5	19,864	18,045
P.A.S. and its Salts	"	5	126,000	27,576
Sulphadiazine	"	2	105,148	41,000
Benzene Hexa-Chloride	tons	2	3,000	2,870
D.D.T.	"	2	2,800	1,600
<i>Aromatic Chemicals & Essential Oils :—</i>				
Amyl Acetate (Perfumery Grade)	lbs.	1	6,000	180
" Salicylate	"	1	14,400	1,600
Sandalwood Oil	"	7	298,800	260,941
Turpentine Oil (Organised units)	Galls.	8	785,000	473,727
Eucalyptus Oil	lbs.	—	—	300,000
Rosin (Organised Units)	tons	3	12,200	8,137
Benzoin	lbs.	2	16,000	4,100
<i>Dyestuffs :—</i>				
Azo Dyes	lbs.	2	2,593,520	1,801,736
Fast Colour Bases	"	1	672,000	242,340
Fast Colour Salts	"	5	630,000	289,079
Ink Blue	"	1	30,000	23,690
Methylene Blue	"	1	30,000	4,800
Naphthols	"	2	2,016,000	852,436
Optical Bleaching Agents	"	3	277,000	152,753
Solubilised Vats	"	3	370,500	132,113
Stabilised Azoics	"	9	1,146,500	473,380
Sulphur Black	"	2	3,000,000	1,989,166
Vat Colours (Commercial Strength)	"	2	602,000	365,825
Benzene	Galls.	3	718,500	779,065
Cresote Oil (Light)	"	5	(No separate capacity)	419,481
" (Heavy)	"	5	"	462,300
Motor Benzol	"	5	2,414,000	978,417
Naphthalene Refined	tons	5	1,040	700
Solvent Naphtha	Galls.	5	(No separate capacity)	103,666
Toluene	"	3	250,000	57,082
Alkyd Resins	tons	8	2,372	2,270
Chrome Colours	"	10	—	850
Nitrocellulose Lacquers	Lakh Galls.	7	8	2.9
Paints	tons	49	65,000	50,000
Red Lead	"	3	5,100	4,750
Titanium Dioxide (Anatase)	"	1	1,800	1,675
White Lead	"	2	3,720	1,080
Zinc Oxide	"	4	12,360	6,210

MINERAL INDUSTRIES

Asbestos Cement Sheets	tons	6	210,000	184,395
Ceramics (Glazed Tiles)	Doss.	4	559,392	527,378
" (S.W. Pipes)	tons	19	12,880	53,188
" (Stonewares)	"	24	11,520	5,426
" (Whitewares)	"	42	29,724	17,640
" (Sanitarywares)	"	18	8,484	4,408
" (H. T. Insulators)	nos.	6	2,099,272	1,454,905
" (L. T. Insulators)	"	13	12,076,320	5,254,977

MINERAL INDUSTRIES—Contd.

Industry	Accounting Unit	No. of Units	Installed Capacity	Estimated Production
Cement	tons	29	6,832,500	6,380,508
Enamelware	Mill. pcs.	22	30 0	17.0
<i>Glass Industry</i>				
Sheet Glass	Mill. Sq. ft.	4	108 6	70.0
Glass Shells	Mill. pcs.	3	27 37	30.0
Laboratory Glassware	tons	15	6,744	4,000
Thermos Flasks	Dons.	3	107,304	65,000
Bottlewares	tons	92	163,240	80,000
Table and Pressed Wares	"	80	63,846	34,000
Lampwares	"	82	34,700	18,500
Misc. Glasswares	"	29	21,386	40.00
Refractories	"	35	579,160	425,610

TIMBER AND CELLULOSE

<i>Rayon :—</i>				
Continuous Filament Acetate Rayon Yarn	tons	1	1,800	1,739
Viscose Rayon Yarn	"	3	16,200	11,901
Viscose Staple Fibre	"	1	21,600	12,609
Paper and Paper Board	"	19	268,600	250,000
Newspaper	"	1	30,000	20,000
Battery Separate (Wooden)	nos.	2	20,000,000	8,604,672
Cork Stoppers	Gross Sq. ft.	} 2	4,200,000	3,242,566
Sheets	"		11,500,000	1,665,532
Plywood, Tea Chest	"	70	} Over 280 Million Sq. ft. (3 shift bases)	87,636,469
Commercial	"	70		38,487,216
Matches	cases ²	65	996,800	635,077

LEATHER AND RUBBER

* Vegetable Tanning of Hides by organised units (expressed in terms) of Cow hides— one Buff hide—two Cow hides	In terms of Cow hides	29	3,856,920	2,000,000
† Chrome Tanning of Hides by organised units	Hides	13	1,579,800	714,117
‡ Western Type of Leather Footwear by organised Units	Pairs	12	6,687,600	4,467,259
§ Indigenous Type of Leather Footwear by organised units	Pairs	12		3,889,035
Glue	Cwts	8	37,080	28,280
Pickers	Gross	5	29,760	11,000
<i>Rubber Manufactures :—</i>				
Fan Belts	nos.	6	1,009,160	691,195
Vee Belts	"	5		519,313
Dipped Rubber Goods	Dons.	14	42,826,260	23,194,366
Radiator Hoses	nos.	9	570,000	152,991
Vacuum Brake Hoses	"	4	1,080,000	579,582
Other types of Hoses	Feet	14	11,344,800	8,831,787
Rubber Footwear	Pairs	19	45,092,460	36,065,811
<i>Tyres :—</i>				
a) Automobile				
1) Giant	nos.	2	672,480@	734,836
2) Motor	"	2	360,864@	238,139
3) Motorcycle	"			36,577
b) A.D.V.	"	1	31,932@	43,506
c) Aero	"	2	6,156@	2,743
d) Bicycle	"	6	7,239,268@	8,571,117
e) Cab	Feet	3	1,284,000	288,014
f) Off the Road	nos.	2	6,372	3,429
g) Tractor	"	2	32,148@	29,465

¹ Production started only in 1958.

² Cases of 50 gross boxes of 60 sticks each.

* In addition, vegetable tanning of buffalo and cow hides is also carried on cottage industry basis in almost all villages and on small scale basis by over 500 tanneries mostly in South India. The annual output of tanned buffalo and cow hides by the two sections combined is estimated at 16 to 17 million tanned hides. In addition, this section of the industry also processes about 24 million goat and sheep skins a year for vegetable tanning.

† In addition there are about 250 small chrome tanneries mainly situated in the Calcutta area and owned and run by the Chinese Community. Their annual output is estimated at about 1.5 million hides.

‡ In addition, Western type of leather footwear is also produced on a cottage and small scale industry basis in many parts of the country. Agra is the best known and is the largest Western type footwear producing centre on cottage and small scale industry basis. Annual production by this method is estimated at 12 to 13 million pairs.

§ In addition, indigenous type of leather footwear is also produced on cottage and small scale industry basis in almost all parts of the country. Production from this source is estimated at 65 to 70 million pairs annually.

@ Provisional figures. One unit had given a phased programme which was likely to materialise by the end of 1958, and the production might outstrip the capacity in some cases.

LEATHER AND RUBBER INDUSTRIES—Contd.

Industry	Accounting Unit	No. of Units	Installed capacity	Estimated production
Tubes :—				
a) Automobile—				
1) Giant	nos.	2	665,208*	596,064
2) Motor	"	2	380,592*	310,875
3) Motorcycle }	"	1		68,289
b) A.D.V.	"	2	46,080*	59,616
c) Aero	"	2	4,428*	1,348
d) Bicycle	"	5	8,253,000*	8,019,344
e) Off the Road	"	2	6,372*	3,229
f) Tractor	"	2	33,912*	32,019
Water-proof Fabrics	Yds.	13	6,294,000	8,365,085
OTHER INDUSTRIES				
Cigarettes	Million pcs.	15*	31,878	29,800
Food Industries :—				
Beer & Ale	Bulk	Gallons	3	1,700,000
Biscuits	tons	39	30,347	1,714,316
Corn & Wheat Flakes	"	4	1,950	16,400
Processed and Pearl Barley	"	4	4,920	140
Processed & Rolled Oats of Oat Flakes	"	4	1,401	1,200
Injection Moulding and Compression Moulding	Ozs.	46	650	100
Leather Cloth	tons	—	14,110	4 0
Linoleum	Mill. yds.	6	8.7	(Mill. Gross Articles)
Phenolic Laminates	Th. Lbs.	1	450	3.01
Polythene Films & Layflat Tubing	Th. lbs.	6	1,008	274
P.V.C. Sheeting	"	3	1,874 4	791.7
			3,720	1,786.5
				1,087
Alcohol :—				
Power alcohol	Mill. Bulk Gal.	17	16 68	10.2
Rectified Spirit	"	48‡	13.83	6.0
Denatured Spirit	"			3.7
Vegetable Oils :—				
Cotton Seed Oil	tons	9	94,600@	8,820†
Oil Milling	"	350	1,495,000‡	287,000†
Solvent Extracted Oil	"	15	208,500‡	15,680†
Soap and Toilet Goods :—				
Soap	"	90	253,270	120,000
Glycerine Refined	"	9	7,578	3,594
Tooth Paste	lbs.	10	3,218,256	2,475,004
Tooth Powder	"	6	1,411,160	459,368

*Provisional figures. One unit had given a phased programme which was likely to materialise by the end of 1958, and the production might outstrip the capacity in some cases.

‡Change in the number of units and installed capacity in respect of Cigarettes, Food, Alcohol industries is due to the revision of different industries after the enforcement of Industrial Act.

@ Capacity for 1957 revised.

† In terms of extracted oils.

‡ In terms of oil cakes.

REFUGEES AND REHABILITATION

BELOW we give a few facts and figures for 1958-59.

Displaced persons from West Pakistan 47.40 lakhs; from East Pakistan 41.17 lakhs (including the post-census migration); total 88.57 lakhs.

Total amount spent on D.P.s upto end of March 1959: Rs. 339.98 crores. Provision for 1959-60: Rs. 84.79 crores.

Total amount spent on D.P.'s from W. Pakistan: Rs. 181.92 crores.

On D.P.'s from E. Pakistan: Rs. 148.06 crores. Dandakaranya: Rs. 6.40 crores.

Total expenditure (1958-59): Rs. 28.47 crores.

The distribution of displaced persons among the various States was as follows as on 31st Dec. 1958:

Andamans 4,000; Andhra 4,000; Assam 487,000; Bihar 87,000; Bombay 415,000; Delhi 501,000; Himachal Pradesh 5,000; Madhya Pradesh 213,000; Madras 9,000; Manipur 2,000; Mysore 7,000; Orissa 12,000; Punjab 2,737,000; Rajasthan 373,000; Tripura 374,000; Uttar Pradesh 496,000; West Bengal 3,161,000.

GRANTS, LOANS

The figures are in Rs. crores and are upto March 31, 1959:

	West Pakistan	East Pakistan	Total
Establishment ..	2.19	0.57	2.76
Grants ..	85.18	69.12	154.30
Loans ..	25.63	38.10	63.73
Housing ..	60.98	34.70	95.68
Miscellaneous ..	0.01	—	0.01
Dandakaranya ..	—	1.30	1.30
Loans by R.F.A. (upto Dec. 31, 1958) ..	7.98	4.27	12.25

Loans advanced to State Governments for rehabilitation upto 31st March 1960 (includes 1959-60 budget):

Total: Rs. 7,213.58 lakhs.

Western Zone: Rs. 2,507.81 lakhs.

Eastern Zone: Rs. 4,133.54 lakhs.

For industrial purposes (total): Rs. 573.23 lakhs.

The total at the top does not include housing loans to States etc. and loans by Rehabilitation Finance Corporation.

Loans to State Governments in 1958-59: Rs. 621.88 lakhs (R.E.).

Loans to State Governments in 1959-60: Rs. 841.27 lakhs (B.E.).

EMPLOYMENT, HOUSING, COMPENSATION

Placements of displaced persons through employment exchanges upto 31st Dec., 1958:

Total: 2,60,000.

Eastern Zone: 58,000; Western Zone: 2,02,000.

Total number of residential units constructed in the eastern zone (31st Dec 1958):

Total: 4,04,000 (by Government 9,000, by D.P.s with State assistance 3,97,000).

The total State-wise (Dec. 1957): Andamans 1,019; Assam 27,313; Bihar 4,035; Manipur 607; Orissa 2,520; Tripura 72,130; Uttar Pradesh 1,173; West Bengal 2,76,639.

Total number of residential units/shops constructed for D.P.'s from W. Pakistan (31st Dec. 1958):

Total of houses/tenements: 1,87,000 (By Government 1,62,000; by D.P.s: 25,000).

Total of shops/stalls: 37,951.

*Some schemes were later cancelled.

The total of houses/tenements State-wise: Andhra 21; Bihar 574; Bombay 43,749; Delhi 50,329; Kashmir 1,700; Kerala 1,324; Madhya Pradesh 5,687; Madras 78; Mysore 55; Punjab 47,525; Rajasthan 2,251; U.P. 18,454. In the townships of Faridabad 5,158; Gandhidham 4,349; Hastinapur 594; Ntikori 983; Prem Nagar 1,900; Rajpura 2,572.

Total number of displaced families from East Pakistan settled on land as in Dec. 1958: 5,78,000.

The total State-wise: Andamans 1,600; Assam 76,300; Bihar 11,700; Manipur 500; Orissa 2,300; Tripura 60,400; U.P. 1,500; W. Bengal 420,500; M.P. 1,500; Rajasthan 200.

Total number of displaced persons from W. Pakistan settled on land: 5,68,000.

The following schemes for the settlement of D.P.'s from East Pakistan in States other than W. Bengal, Tripura and Assam exist (Feb. 1959):

In Bihar: 52 schemes, to cover 4,384 families, area 17,687 acres, expenditure Rs. 165.74 lakhs.

In M.P.: 7 schemes, to cover 2,010 families, total area 13,250 acres, expenditure Rs. 106.55 lakhs.

In Orissa*: 12 schemes, to cover 728 families, total area 3,676 acres, expenditure Rs. 18.85 lakhs.

In Rajasthan: One scheme, to cover 660 families, total area 5,200 acres, expenditure Rs. 35.22 lakhs.

In U.P.: 10 schemes, to cover 1,983 families, total area 11,093 acres, expenditure Rs. 95.18 lakhs.

Total: 82 schemes, to cover 9,765 families, total area 50,908 acres, expenditure Rs. 421.54 lakhs.

Total number of claimants paid compensation as on 31st Jan. 1959: 3,59,667.

Total amount of compensation paid: Rs. 100,56,64,927.

Amount paid in cash: Rs. 51,56,13,812.

Amount paid by transfer of properties: Rs. 32,47,10,875.

Amount paid by adjustment of outstanding dues: Rs. 16,53,40,240.

No. of 1st and 2nd priority categories application received (30th Nov 1958): 1,87,686.

Residual no. of claims: 2,77,447.

No. of allottees (from W. Pakistan) given permanent proprietary rights in land upto 31st Dec. 1958:

In the Punjab 2,60,000

In other States 19,400

Area of land involved:

In Punjab 19,11,000 (stand. acres).

In other States 38,000 stand. acres.

plus 2,45,000 ordinary, plus Rs. 36.5 lakhs worth Groves.

MISCELLANEOUS ITEMS

Relief:
No. of persons in receipt of gratuitous relief from Government: (see top of next column).

Origin of applicants	Applications received	Applications disposed of Net	Applications sanctioned Net	Amount sanctioned	Amount paid
West Pakistan	47,298	47,298	9,330	Rs. lakhs. 798.54	Rs. lakhs. 727.36
East Pakistan (Old) ..	18,451	18,451	4,332	329.35	365.29
East Pakistan (New) ..	23,431	22,420	1,600	97.50	
Total	89,180	88,169	15,562	1,225.39	1,092.65

Amount of total outstanding: Principal: Rs. 743.46 lakhs; Interest: Rs. 121.26 lakhs; Total: Rs. 875.02 lakhs.

Amount of recoveries made: Principal: Rs. 328.72 lakhs; Interest: Rs. 153.26 lakhs; Total: Rs. 481.98 lakhs.

Temporary liability (E. Pak. D.P.s in camps as on 31st Dec. 1958): 2.07 lakhs.

Permanent and semi-permanent liability (as on 31st Dec. 1958): Total: 58,000.

Maintenance allowance for D.P.'s from W. Pakistan:

No. of recipients (peak figure): 17,000.

Amount released for payment of allowance (upto 31st Dec. 1958): Rs. 140 lakhs.

Industries:

Medium Industries for displaced persons from West Pakistan—

Number of schemes sanctioned upto 31st May, 1958 45

Investment on the part of Government Rs. 192 lakhs

Number of displaced persons expected to be employed 9,400

Small/Cottage Industries for displaced persons from West Pakistan—

Number of schemes sanctioned upto May 1958 50

Expenditure involved Rs. 15 lakhs

Number of displaced persons expected to be employed 1,300

Medium Industries for displaced persons from East Pakistan—

Number of schemes sanctioned upto 31st Oct. 1958 23

Investment on the part of Government Rs. 296 lakhs

Number of displaced persons expected to be employed 12,000

Small/Cottage Industries for displaced persons from East Pakistan—

Number of Schemes sanctioned upto 30th Nov. 1958 123

Expenditure involved Rs. 103.89 lakhs

Number of displaced persons expected to be employed 14,000

Technical and Vocational Training—

Displaced Persons from West Pakistan:

Number trained 92,000

Displaced persons from East Pakistan—

Number trained 36,000

Number under training 6,000

REHABILITATION FINANCE ADMINISTRATION

(Church Road, New Delhi)
Chief Administrator, R. N. Hazari.
Dy. Chief Administrator, N. L. Chatterjee.
Chief Accountant, D. L. Sondhi.
Law Officer, S. Saran Singh.

The relevant statistics are given in the table below. They show the position as at the end of December 1958:

A REVIEW

The year 1958 was a significant milestone in the rehabilitation of displaced persons from Pakistan.

The process of winding up the activities of the Rehabilitation Ministry in the Western region was carried forward, and it was hoped that the task of rehabilitation of D.P.s from West Pakistan would be completed by the end of 1959-60.

In the Eastern region, too steps were taken during the year to rationalise the relief policy and to shift the emphasis from relief to rehabilitation. It was hoped that the rehabilitation problem in the Eastern region also would be substantially resolved by the end of the Second Plan period.

One serious problem is the recovery of rents. All categories were expected to pay a rent for the properties in their occupation. But huge arrears of rent amounting to about Rs. 7-88 crores have accumulated.

A large number of concessions were made, but a majority of the arrears have still not been cleared. Ultimately Government decided that 1. in the case of claimant occupants whose compensation is less than the reserve price of the property, the compensation will be adjusted and the balance if any recovered in much the same way as arrears of land revenue; 2. in the case of non-claimant occupants their cases would be forwarded to collectors for recovery as land revenue; 3. non-displaced persons and displaced non-claimants in occupation of saleable property would be evicted and arrears of rent recovered as land revenue is recovered.

D. Ps. from E. Pakistan

Over 60,000 displaced persons were dispersed from camps during 1958.

It has also been decided that all camps in West Bengal should be closed by the end of July 1959. Of about 45,000 displaced families in these camps, about 10,000 would be rehabilitated in West Bengal and the remaining 35,000 in Dandakaranya and other States of India.

The population in Homes and Infirmarys came down slightly from about 60,000 to 58,000 during 1958. Arrangements are being made to weed out the ineligible from these institutions.

The existing Homes and Infirmarys in West Bengal are proposed to be reorganised into separate institutions for (i) old and infirm persons, (ii) lone women and (iii) women with children. Suitable schemes for providing work, training and education in these institutions will be introduced.

Loans to the extent of Rs. 329.96 lakhs estimated to cover 17,800 families were given for rehabilitation of displaced persons in urban and rural areas during 1958, bringing the total amount of loans advanced till then to Rs. 58.30 crores covering 4.27 lakh families.

Efforts were continued to locate more agricultural land in States outside West Bengal. About 1,100 families were dispersed from Camps in Bihar and 573 families from Orissa for rural rehabilitation in these States. Nine hundred and thirty one families were moved from West Bengal to rehabilitation centres in Madhya Pradesh, 232 families to Rajasthan and 193 to Uttar Pradesh. About 2,959 families were rehabilitated in these three States and 2,705 more families were expected to be rehabilitated under the schemes already sanctioned.

For the rehabilitation of displaced persons in camps in West Bengal, a pilot scheme was sanctioned for the settlement of 200 families on sal-cum-paddy plantation in Midnapore District. A scheme for the rehabilitation of 770 families on 2,750 acres of land in the Hero-bhanga block of Sundarbans was also sanctioned and the possibilities of the development of another 10,000 acres in the same block of the Sundarbans and the Char land of the river Teesta, which could provide rehabilitation facilities to about 2,880 more families was examined.

About rehabilitation in urban areas, Rs. 148.14 lakhs were sanctioned as house-building loans to 6,631 families and Rs. 46.88 lakhs for the grant of business loans to 5,115 families during 1958. Schemes costing Rs. 4.36 lakhs for construction and development of housing colonies in Assam were also sanctioned.

Schemes costing Rs. 50.94 lakhs were sanctioned for providing roads, drains and water supply etc. in 83 urban and rural colonies.

The Contract Division in West Bengal was further expanded by the addition of one more Division. It provides employment to about 1,300 displaced persons daily on an average. A Contract Division at Tripura was also set up on the pattern followed in West Bengal.

About 2,13,000 displaced persons were up till then helped to secure employment in services.

By the end of June 1958, about 34,000 displaced persons were trained in various arts and crafts. About 6,000 were undergoing training in various institutions.

The training schemes for displaced persons are now being integrated with those for the general population i.e. the Polytechnics and the D.G.E.E. training centres.

A Rehabilitation Industries Corporation is also being established under the Chairmanship of Mr. G. D. Birla to set up Industries in the public sector or in partnership with private enterprise and also by giving loans to private entrepreneurs for providing employment to D.P.s from East Pakistan. Funds to the extent of Rs. 5 crores would be made available to the Corporation—with an authorised working capital of Rs. 10 crores—from the allocation of the Ministry of Rehabilitation during the Second Plan period. The Corporation will pay special attention to the setting up of small-scale industries with large employment potential.

The total expenditure on educational facilities to displaced students in the Eastern region, including those in camps and homes, was expected to be about Rs. 194.35 lakhs during the year, while that on medical facilities about Rs. 75 lakhs.

DANDAKARANYA SCHEME

The decision to liquidate the camps in West Bengal by July 1959 has necessitated the speedy development of Dandakaranya so as to provide work and shelter to about 20,000 displaced families who are expected to be moved to that area by the target date.

For the effective and expeditious execution of the scheme a Central Authority, known as the Dandakaranya Development Authority, has been set up. The Authority, which has been vested with wide powers in the matter of appointments, purchase of machinery and equipment, etc., is making arrangements for the reclamation of about 45,000 acres of land, the construction of about 5,000 village houses, the setting up of technical and vocational training centres, establishment of some co-operative societies and two multi-purpose farms during the year 1959-60.

The first batch of settlers in Dandakaranya was moved to that area in February 1959 and the movement will be progressively stepped up so as to achieve the planned target by the end of July 1959.

Dandakaranya of the Ramayana would cover an area of about 80,000 sq. miles embracing parts of Bombay, Madhya Pradesh, Andhra and Orissa. For the present, however a well-defined area of 30,052 sq. miles has been earmarked for development comprising the Bastar District of Madhya Pradesh and the Koraput and Kalahandi districts of Orissa. It is as big as West Bengal State, but has a population of about 30 lakhs. It is rich in forest and mineral wealth.

For administrative convenience it has been divided into five Zones with head-quarters at Pharsgaon, Narainpur, Amraoti, Umakote and Malkangiri.

The Dandakaranya Development Authority consists of a Chairman the Chief Secretaries or

other official nominees of the Governments of Madhya Pradesh and Orissa, the Chief Administrator, three members for Finance, Agriculture and Engineering and a representative of the Ministry of Home Affairs.

The only whole-time Members are the Chief Administrator, and Members, Finance, Agriculture and Engineering. Member Finance is also the Financial Adviser and Chief Accounts Officer of the Authority, while the Chief Administrator is its Chief Executive Officer and Secretary.

The programme will provide employment in the following project activities:— Operation of road transport, Distribution of Consumer Goods, Dairy Units, Manufacture of Bricks and Tiles, Reclamation of land, Construction of Project buildings, Construction of roads, Construction of villages, Irrigation works, Wood Working Centres, Small Scale Industries, Administration of Work Camps.

This scheme also envisages the progressive absorption of displaced officers of the Rehabilitation Department of West Bengal, who are expected to be retrenched as camps in that State are liquidated.

A railway through the area, to connect Bhilai in the north with the port of Visakhapatnam in the South, is considered essential for the proper exploitation of the area's vast mineral and forest resources.

By the end of 1958-59, most of the preliminary work connected with the Scheme would have been completed. About a hundred families have already moved into the area and from March onwards more displaced persons will be moved into the area in progressively large numbers. The following targets are aimed at by the end of 1960:—Reclamation of about 45,000 acres of land; Construction of about 5,000 village houses; Construction of minor and medium irrigation works; Establishment of a technical and vocational training centre; and Establishment of transport, consumer goods and dairy co-operative societies and multi-purpose farms.

Reclamation in Dandakaranya is expected to be on an unprecedented scale as over 2 lakh acres of land are to be reclaimed in the course of 3 to 5 years. A great deal of specialised machinery is required for these operations.

According to the preliminary Project Report prepared by the Chief Administrator, nearly Rs. 37 crores will be required to execute the Project. This report is under consideration. A provision of Rs. 3 crores was made in the budget estimates for 1958-59 against which an expenditure of Rs. 1.13 crores is expected to be incurred. A tentative provision of Rs. 6 crores is made in the budget estimates for 1959-60. The total financial commitments made upto March 1959 exceed Rs. 7 crores.

D. Ps. from W. Pakistan

The task of rehabilitation has nearly been completed, the only outstanding items being the payment of compensation and negotiations with Pakistan. Although not much headway has been made with regard to the latter item, appreciable progress has been made in the payment of compensation to displaced persons.

Out of the total number of 4.68 lakh claimants, about 3.60 lakhs were paid compensation upto January 31, 1959. This figure includes 79,109 claimants who were given first instalment of compensation under the Interim Scheme. 53,711 claimants out of them have since been paid final instalment also. Statements of accounts were issued in 51,159 cases against which the recipients are expected to purchase properties.

The amount of compensation paid upto January 31, 1959, was Rs. 100.58 crores—Rs. 51.56 crores in cash, Rs. 32.47 crores by transfer of properties and Rs. 16.55 crores by way of adjustment of public dues.

Practically all the priority category claimants who numbered about 62,000, have been paid compensation. The few cases which are still pending were expected to be finalised soon.

During the year under review, further concessions were given to displaced persons under the Compensation Scheme. At the same time, steps were taken to speed up the Scheme.

In order to speed up disposal, the work in the Regional Offices at Delhi, Jullundur and Patiala, which was very heavy, was decentralised. Twelve Zonal Offices were established in these regions for processing and finalising compensation cases and also to deal with cases of transfer of allotable properties on the spot. Zonal Officers were given powers to finalise the cases themselves. They were also given powers to recommend hard cases for according priority for payment in cash.

Upto the end of December 1958 about 96,000 evacuee and Government built properties were sold by auction and more than 80,000 transferred by allotment.

In rural areas, evacuee lands in Punjab were allotted on a quasi-permanent basis to 4.77 lakh families. Upto December 31, 1958, permanent rights had been transferred to 2,60,001 allottees covering an area of 19,11,718 standard acres worth Rs. 85.82 crores. Proprietary rights in 82,424 houses allotted along with the lands were also transferred upto that date.

Upto December 31, 1958, 19,420 non-Punjab land claimants were allotted 33,536 standard acres (2,45,451 ordinary acres) of land besides groves worth Rs. 86,50,844 in various States.

Of the 19 townships set up in the Western region for the rehabilitation of displaced persons, the Central Government was directly associated with the construction and administration of four, namely Faridabad, Rajpura, Hastinapur and Nilokheri. Nilokheri and Rajpura townships were transferred to the Punjab Government and Faridabad and Hastinapur were to be transferred to the Punjab and U.P. Governments respectively at any time.

The work relating to health, education, industries, vocational and technical training, homes and infirmaries was also transferred to the Ministries concerned and that relating to housing was expected to be transferred to the Ministry of Works, Housing and Supply at any time.

During the year a sum of Rs. 27.44 lakhs was given as grants to educational, cultural and medical institutions catering mostly to the requirements of the displaced persons. The total

amount given till then to such institution was Rs. 217 lakhs.

There was practically no progress in regard to negotiations with Pakistan about the immovable and movable properties left by the D.P.s in Pakistan. The major problem of immovable property continued to remain unresolved.

The lockers and safe deposits of evacuees left in the two countries, which under the agreement at the Implementation Committee of the two countries were to be exchanged on March 31, 1958, have also not been exchanged because of difficulties created by the Pakistan Government.

However, personal and house-hold effects and trade goods and merchandise lying with the Custodians or Rehabilitation Authorities valued at about Rs. 1.73 lakhs were retrieved, bringing the total value of the property retrieved to Rs. 72.73 lakhs.

Buried treasures valued at Rs. 69 lakhs were recovered from Pakistan upto May 31, 1958, when the agreement for the recovery of such treasures expired. The number of fire-arms received from Pakistan was 1,201.

SPORTS

The sports come within the purview of the Ministry of Education.

The main body for sports is the All India Council of Sports with Dr. P. Subbarayan as President. (For a note on this see under Associations in Delhi).

There are also States Sports Councils in the following States: Andhra, Assam, Bihar, Bombay, Delhi, Himachal Pradesh, Kerala, Madras, Mysore, Orissa, Rajasthan, Tripura, U.P.

A coaching scheme is in existence called the Rajkumari Sports Coaching Scheme. Under the Scheme Coaching Centres have been established where expert Indian and foreign coaches provide guidance.

A national plan is also in operation called the National Plan of Physical Education and Recreation for promoting physical education.

The first national college of physical education—Rani Lakshmi Bai College—was set up at Gwalior in 1957. It offers a three-year degree course in physical education.

PATIALA COMMITTEE REPORT

The Sports Committee appointed by the Government of India in July 1958 with H. H. the Maharaja of Patiala, President of the Indian Olympic Association, as the Chairman, submitted its Report to the Union Minister of Education, Dr. K. L. Shrivallab, on 4th Feb. 1959.

The Committee's Report, which runs into 64 pages and has three Minutes of Dissent, has made recommendations in regard to the promotion of sports in schools and colleges, in rural areas, coaching in sports and games, provision of playgrounds and equipment, the constitution of sports federations and associations, the procedure for grant of assistance to these federations and associations by the Government of India, selection of teams, management of teams, judging, refereeing and umpiring and amateurism in sports. There should be a Central Training Institute to train coaches.

The Committee was appointed by the Union Minister of Education to enquire into the reasons for the poor performance of Indian competitors in international contests and to suggest measures to arrest the decline in the level of performance.

The three Minutes of Dissent are by Rajkumari Amrit Kaur, Mr. Jaipal Singh, M.P., and Prof. Moinul Haq.

Besides the Maharaja of Patiala, the other members of the Committee were: Mr. Naval H. Tata, Rajkumari Amrit Kaur, Mr. Moinul Haq, Dr. P. Subbarayan, Mr. Jaipal Singh,

Gen. K. S. Thimayya, Mr. M. R. Duleepsinhji, Mr. N. N. Wanchoo, Mr. P. N. Kirpal, and Mr. M. N. Masud (Member-Secretary).

The Government accepted the recommendation about the reconstitution of the All India Council of Sports and the State Sports Councils. Other recommendations were under consideration (May, 1959).

The Education Ministry sanctions grants for meeting the actual expenditure or deficit in conducting national tournaments.

During 1958-59 Rs. 9,20,689 were sanctioned under this scheme, including a sum of Rs. 2,10,681 for the third Asian Games held at Tokyo in May 1958.

Two other grants were: The Badminton Association of India—Rs. 5,000 for the National and Inter-State Badminton Championships at Gauhati in Dec. 1958.

The All India Football Federation, Bombay—Rs. 5,000 for the All India Inter-State Football Tournament at Madras.

Stadium at Tellicherry (Kerala)—Rs. 40,000.

Amateur Athletic Federation of India (Patiala)—Rs. 20,000 for holding two coaching camps at Patiala and Trivandrum.

TOURNAMENTS

Below we give the results of the various matches of the year 1958-59.

Badminton

Men's Singles: Nandu Natekar (Bombay); Men's Doubles: N. Natekar and M. Bhoparkikar (Bombay); Mixed Doubles: Amrit Lal Dewan and Miss Meena Shah (Uttar Pradesh); Women's Singles: Mrs. Sushila Kapadia (Bombay); Women's Doubles: Mrs. Sushila Kapadia and Mrs. Prem Prashar (Bombay); Junior Boys' Singles: Suresh Gohel (Uttar Pradesh); Junior Girls' Singles: Miss R. Reddy (Madras); Team Championship: Bombay.

Basketball

Men: Services.
Women: Bengal.
Schools: Bombay.

Billiards

World Championship: Wilson Jones (India); World Snooker: Wilfred Axlax (Malta); National Billiards: Tom Cleary (Australia); National Snooker: Mahomed Ladr (Ceylon).

Boxing

Flyweight: Sammy Khatun (Bombay); Bantamweight: Kuldip Singh (Services); Featherweight: Sarwan Singh (Services); Lightweight: Raghupati (Services); Light-welterweight: Sandy Solomon (Bombay); Welterweight: Ranganathan (Services); Middleweight: Sarkar (Services); Light-heavyweight: A. Ganguly (Railways); Heavyweight: Gur-bachan Singh (Services); Team Championship: Services.

Cricket

West Indies tour of India

West Indies beat India by three Tests; the two others were drawn.

First Test at Bombay: West Indies 227 and 323 for 4 wks. decl. India 162 and 289 for 5 wks. Draw.

Second Test at Kanpur: West Indies 223 and 443 for 7 wks. decl. India 222 and 320. West Indies beat India by 208 runs.

Third Test at Calcutta: West Indies 614. India 124 and 154. West Indies won by an innings and 336 runs.

Fourth Test at Madras: West Indies 500. India 222 and 151. West Indies won by an innings and 127 runs.

Fifth Test at Delhi: India 415 and 275 for 9 wks. West Indies 644. Draw.

Ranji Trophy: Bombay

Rohinton Baria Trophy (Inter-University): Bombay.

Cooch Behar Trophy (Inter-Schools): West Zone.

The members of the Indian cricket team touring England are: Dattaji Rao Gaskwad (Captain), Pankaj Roy (Vice-Captain), P. G. Joshi, P. R. Umrigar, V. L. Manjrekar, S. P. Gupta, B. B. Desai, Surendranath, A. G. Kripal Singh, A. L. Apte, N. J. Contractor, V. Muddiah, B. G. Nadkarni, N. S. Tamhane, J. M. Ghorpade, C. G. Borde and Jayshintha.

Manager: Maharaja Fatehsinh Gaskwar of Baroda.

Cycling

National Cycling

1,000 metres sprint: Paul Pfister (Mysore); 1,000 metres time trial: Paul Pfister (Mysore); 4,000 metres individual pursuit: Amar Singh (Railways); 4,000 metres team pursuit: (Mysore); 95-mile road race: Shaikh Bashir (Maharashtra); 55-mile roadster race: Datta Bahule (Maharashtra).

Women's Events

1,000 metres scratch: Miss Gurdip Kaur (Northern India).
2,000 metres lap race: Miss Prema C. Jerie (Mysore).
2,000 metres team pursuit: Northern India.

Football

Santosh Memorial Trophy: Bengal.
Rover's Cup: Calcutta, Bombay.
I.F.A. Shield: East Bengal.

Golf**All-India Golf**

Men: Ashok Malik.
Women: Mrs. G. W. Ribbons.

Hockey

National: Railways.
Aga Khan: Northern Railway.
Bombay Gold Cup: Punjab Police.
Beighton Cup: Corps of Signal, Kirkee.

Kabaddi

Men: Railway Sports Control Board.
Women: Bombay.

National Athletics**Men**

100 metres: V. Martin (Madras); 200 metres: Milkha Singh (Services); 400 metres: Milkha Singh (Services); 800 metres: Daljit Singh (Services); 1,500 metres: Mukhtiar Singh (Services); 3,000 metres steeplechase: Pan Singh (Services); 5,000 metres: Pan Singh (Services); 10,000 metres: Butta Singh (Services); 110 metres hurdles: Jagmohan Singh (Punjab); 400 metres hurdles: Jagdev Singh (Punjab); 50 kilometres walk: Ajit Singh (Services); 20,000 metres walk: Zora Singh (Services); 4 x 100 metres relay: (Services); 4 x 400 metres relay: (Services); Marathon: Ran Bahadur (Services); Broad Jump: B. Satyanarayana (Madras); High Jump: Ajit Singh (Services); Hop, step and jump: Mohinder Singh (Services); Pole Vault: Lakbir Singh (Punjab); Putting the shot: Parduman Singh (Services); Discus Throw: Parduman Singh (Services); Javelin Throw: Bakshish Singh (Punjab); Hammer Throw: Devidayal (Services); Team Championship: (Services); Decathlon Champion: C. M. Muthiah.

Women's Events

100 metres: Stephanie D'Souza (Bombay); 200 metres: Stephanie D'Souza (Bombay); 4 x 100 metres relay: (Bombay); 80 metres hurdles: Violet Peters (Bombay); Broad Jump:

Marie Brown (Mysore); High Jump: R. M. Vanajaya (Mysore); Putting the Shot: Elisabeth Davenport (Rajasthan); Javelin Throw: Elisabeth Davenport (Rajasthan); Discus Throw: Man Mohini Oberoi (Madras); Team Championship: (Bombay).

Races**Bombay Races**

1,000 Guineas: Mrs. G. Chavan and Mr. T. Godse's "Meherban".
2,000 Guineas: Maharaja of Jammu & Kashmir's "Fair Wood".
The Indian Derby: Maharaja of Jammu & Kashmir's "Fair Wood".
The Oaks: Mrs. G. Chavan and Mr. T. Godse's "Meherban".
The Eclipse Stakes: Mr. R. J. Sigtia's "Exaggerator".
The St. Leger: (Mrs. Ahmedbhai and Mrs. Talib's "Kun Kaan".

Poona Races

Colts and Fillies' Trial: Messrs. Dutia and Kanga's "Temptation".

Calcutta Races

Calcutta Derby: Messrs. H. P. Au and B. N. Shaw's "Mr. Whisman".
Queen Elizabeth II Stakes: Brig. Hill, Mrs. Jeffares and Mrs. Hill's "Radicular".

Madras Races

South India Derby: Mr. M. P. Davis's "Soone Stone".

Rugby

All-India Tournament: Ceylon.

Swimming**Men**

100 metres backstroke: L. Bajaj (Bombay); 100 metres butterfly: Arun Shaw (Bengal); 100 metres freestyle: L. Bajaj (Bombay); 100 metres breaststroke: Ram Deo Singh (Services); 200 metres backstroke: Ram Deo Singh (Services); 200 metres butterfly: S. G. Jathi (Bombay); 200 metres freestyle: Ram Singh (Services); 200 metres breaststroke: Rup Chand (Services); 400 metres freestyle: Ram Singh (Services); 1,500 metres freestyle: Ram Singh (Services); 4 x 100 metres medley relay: (Services); 4 x 100 metres freestyle relay: (Bombay); 4 x 200 metres freestyle relay:

(Services); Spring Board Diving: Rajrang Prasad (Services); High Board Diving: Rajrang Prasad (Services); Water Polo: Bengal; Team Championship: (Services).

Women

100 metres backstroke: Sandhya Chandra (Bengal); 100 metres freestyle: Kalyani Bose (Bengal); 100 metres breaststroke: Anuradha Guha Thakuratha (Bengal); 200 metres freestyle: Kalyani Bose (Bengal).
400 metres freestyle: Kalyani Bose (Bengal); 4 x 100 metres freestyle relay: (Bengal); Team Championship: (Bengal).

Table Tennis

Men's Singles: Gautam Divan (Bombay); Men's Doubles: Gautam Divan and Sudhir Thackersey (Bombay); Mixed Doubles: K. Nagraj and Usha Sunderraj (Mysore); Women's Singles: Meena Parande (Maharashtra); Women's Doubles: Joy D'Souza and Frisca Nunes (Bombay); Junior Boys' Singles: Himansu Vakil (Bombay); Junior Girls' Singles: Indira Iyengar (Delhi); Team Championship (Men): (Bombay); Team Championship (Women): (Bombay).

Tennis

Men's Singles: R. Krishnan; Men's Doubles: R. Krishnan and Nareesh Kumar; Mixed Doubles: Mrs. K. Singh and Nareesh Kumar; Women's Singles: Miss D. Appiah; Women's Doubles: Miss D. Appiah and Mrs. K. Singh; Junior Boys' Singles: J. Mukherjee; Junior Girls' Singles: Miss D. Appiah.

Volleyball

Men: Railways.

Weight-Lifting

Light-heavy weight: Balbir Singh (Delhi); Middle-heavy weight: K. Easwar Rao (Andhra); Heavy weight: C. R. Shetty (Railways); Light weight: N. Das (Railways); Middle weight: B. Guin (Railways); Feather weight: L. K. Das (Railways); Bantam weight: A. K. Das (Railways); Team Championship: (Railways); Best Physique (Bharat Shree): Class I: Satya Paul (West Bengal); Class II: Santi Chakraborty; Class III: Dulal Dutta (West Bengal).

Wrestling

Fly weight: Zilasingsh (Services); Light-weight: Hariram (Services); Welterweight: Lakshmikanth Pandey (Uttar Pradesh); Middle weight: Madhosingh (Services); Bantam weight: T. K. Pandey (Uttar Pradesh); Heavy weight: Suraj Bhan (Delhi); Feather weight: Gyan Prakash (Delhi).

SECOND FIVE YEAR PLAN

TARGETS AND ACHIEVEMENTS UNDER FIRST PLAN

	1950-51	Increase (Plan target)	1955-56 (achievement)	Achieve- ment as percent- age of target
Agricultural Production				
Foodgrains (lakh tons)	540 *	78	649	143
Cotton (lakh bales)	29.7	12.6	40.0	82
Jute (lakh bales)	33.0	20.9	42.0	43
Sugarcane in terms of gur (lakh tons)	56.2	7.0	58.6	25
Oilseeds (lakh tons)	50.8	4.0	56.6	156
Electricity (installed capacity) (lakh KW)	23	13	34	84
Irrigation (lakh acres)	510	197	650	71
Industrial Production				
Finished steel (lakh tons)	9.8	6.7	12.8	45
Pig iron (lakh tons)	15.7	12.6	17.9	17
Cement (lakh tons)	26.9	21.1	45.9	90
Ammonium sulphate (thousand tons)	46.3	404.0	394.0	86
Locomotive (Nos.)	3	170	179	104
Jute manufactures (thousand tons)	824	376	1,054	61
Mill-made cloth (lakh yards)	37,180	9,820	51,020	141
Bicycles (thousand)	97	433	518	96
Transport				
Shipping (lakh GRT)	3.9	2.2	4.8	41
National highways (thousand miles)	12.3	0.6	12.9	100.9
State roads (thousand miles) Surfaced	97.5	—	121.6	—
Unsurfaced	151.0	—	195.1	—
Health				
Hospital beds (thousand)	113	12	136 *	—
Dispensaries and hospitals (rural and urban) (number)	8,600	1,400	9,806 **	—
Education				
Primary schools (number in thousand)	209.7	—	280.0	—
Number of pupils in primary schools/classes (lakhs)	186.8	101.2	246.1	60.6
Percentage of school going children in age- group 6-11	41.2	18.8	51.1	53.0
Basic schools (number)	1,751	—	15,800	—
Number of pupils in basic schools (lakhs)	1.85	—	11.0	—

* Base 1949-50.

** 1954-55 figures (1955-56 figures are not available).

The First Plan was regarded as essentially a preparatory stage. The country carried what-
ever was under construction a step further.

The total outlay was initially fixed at Rs. 2,000
crores but was later raised to Rs. 2,356 crores.
The actual outlay was of the order of Rs. 1,960
crores.

The emphasis was on agriculture, irrigation
and power. Transport and communications also
had priority. But industrial expansion was
left in the main to the private sector to look after.

The percentage of outlay on individual items
was roughly as follows :

Agriculture and community development
14.8, irrigation and power 29.1, industries and
mining 8.0, transport and communications
26.4, social services 21.0, miscellaneous 3.7.

National income is estimated to have increased
by 18.4 per cent during the Plan from about
Rs. 8,850 crores to about Rs. 10,490 crores.
The per capita income also rose by about 10.8
per cent from Rs. 246 to Rs. 274 per annum.
The rate of investment rose by 2 per cent from
5 to 7. All this was higher than what was
planned.

The resources for the Plan were raised in the
following manner (Rs. crores) :

Revenue including Railways 752, public loans
205, small savings and unfunded debt 304,
miscellaneous receipts 91, external assistance
188, deficit financing 420.

Thus the total from domestic budgetary
resources was Rs. 1,352 crores.

REVISED PLAN ALLOCATIONS AND ANTICIPATED OUTLAYS SECOND PLAN

Details are as follows :

(Rs. crores)

Head of Development	Five-Year Plan Allocations (Revised)			Anticipated outlays for 1956-59			Anticipated outlays for 1956-61		
	Total	Centre	States	Total	Centre	States	Total	Centre	States
1. Agricultural Production	94	10	84	40	4	36	90	9	81
2. Minor Irrigation	96	3	93	44	2	42	92	3	89
3. Land Development	22	5	17	11	3	8	19	4	15
<i>Agriculture</i>	212	18	194	95	9	86	201	16	185
4. Animal husbandry, dairying and milk supply	36	6	30	17	2	15	33	4	29
5. Forests & soil conservation	36	6	30	16	2	14	32	4	28
6. Fisheries	10	3	7	3	..	3	9	3	6
7. Warehousing, marketing and co- operation	40	4	36	18	2	16	32	4	28
8. Miscellaneous	7	1	6	3	..	3	6	1	5
<i>Agricultural Programmes</i>	341	38	303	182	15	137	313	23	281
9. N.E.S. & O.D. Programmes	200	12	188	87	2	85	170	7	163
10. Village panchayats	12	..	12	8	..	8	12	..	12
11. Local development works	15	15	..	14	14	..	15	15	..
<i>Agriculture & Community Development</i>	568	65	503	261	31	230	510	54	456
12. Multipurpose Projects* .. ..	..	..	..	146	7	139	248	..	248
13. Irrigation	376	..	376	111	..	111	188	..	188
14. Power	400	..	400	193	..	193	321	..	321
15. Flood Control & Border Projects	65	65	..	27	27	..	47	47	..
16. Investigation & Research	6	6	..	2	2	..	4	4	..
17. Public Co-operation in Irrigation Schemes	1	1	..	..	..	..	0.2	0.2	..
18. Centre's Share in D.V.O.†	12	..	12	..	..	..	12	..	..

* Allocation for multipurpose projects has been distributed between Irrigation and Power.

† Expenditure on Centre's Share in D.V.O. is included under multipurpose projects.

NOTE 1.—Figures for States include Union Territories. Separate figures for the latter are as follows : Five Year Plan Allocations, Rs. 70 crores ;
Anticipated outlays for 1956-59, Rs. 30 crores and Anticipated outlays for 1956-61, Rs. 60 crores.

NOTE 2.—For the revised allocations and anticipated outlays the figures for "Village Industries" are shown under the States ; for 1956-59, how-
ever, the outlay under this head is shown at the Centre.

REVISED PLAN ALLOCATIONS AND ANTICIPATED OUTLAYS SECOND PLAN—(Contd.).

(Rs. crores)

Details are as follows :

Head of Development	Five-Year Plan Allocations (Revised)			Anticipated outlays for 1956-59			Anticipated outlays for 1956-61		
	Total	Centre	States	Total	Centre	States	Total	Centre	States
II. Irrigation and Power	860	72	788	479	36	443	820	63	757
III. Village and Small Industries	200	60	140	91	43	48	160	55	105
20. Large & Medium Industries	790	769	21	395	367	8	705	692	13
21. Mineral Development	90	88	2	25	25	..	85	83	2
IV. Industries and Minerals	880	867	23	420	412	8	790	778	12
22. Railways	896.5	896.5	..	539	539	..	896.5	896.5	..
23. Roads	221	70	151	127	40	87	219	69	150
24. Road Transport	11	2	9	8	1	7	10.5	1.5	9
25. Ports and Harbours	48.5	47	1.5	29	27.5	1.5	48.5	47	1.5
26. Shipping	56	54.5	1.5	29	28.5	0.5	56	54.5	1.5
27. Inland Water Transport	1	1	..	..	..	..	0.5	0.5	..
28. Civil Air Transport	43	43	..	28	28	..	43	43	..
29. Other Transport	5	4	1	3	2	1	5	4	1
30. Posts & Telegraphs	53	53	..	31	31	..	51	51	..
31. Other Communications	3.5	3.5	..	2	2	..	3.5	3.5	..
32. Broadcasting	6.5	6.5	..	4	4	..	6.5	6.5	..
V. Transport and Communications	1,345	1,181	164	800	703	97	1,340	1,177	163
33. Education	285	75	210	109	27	82	275	68	207
34. Health	255	75	180	107.5	39.5	68	245	75	170
35. Housing	100	27	73	40.5	5.5	35	84	20	64
36. Welfare of Backward Classes	83	24	59	35	12	23	72	19	53
37. Rehabilitation	90	90	..	53	53	..	90	90	..
38. Social Welfare, Labour & Labour Welfare and Educated Unemployment Schemes	50	30	20	15	9	6	44	26	18
VI. Social Services	863	321	542	360	146	214	810	298	512
VII. Miscellaneous	84	37	47	45	18	27	70	30	40
GRAND TOTAL	4,800	2,593	2,207	2,456	1,394	1,062	4,500	2,452	2,048

Of the total outlay about Rs. 3,800 crores are devoted to the building up of capital assets and the rest to current development expenditure.

OUTLAY 1956-59

A later estimate showed the position at the centre as follows :

(Rs. crores)

Head	1956-57 (Actual)	1957-58 (Expected)	1958-59 (Expected)	Total (1956-59)
Plan outlay	341.6	500.0	582.0	1,423.6
Domestic budgetary resources	279.1	137.2	319.9	736.2
External assistance	37.8	95.0	325.0	457.8
Total resources including external assistance	316.9	232.2	644.9	1,194.0
Central assistance for State plans	157.1	189.4	221.3	567.8
Resources after allowing for Central assistance	159.8	42.8	423.6	626.2
Budgetary deficit	181.8	457.2	158.4	797.4

In the States

	1956-57 (Actual)	1957-58 (Expected)	1958-59 (Expected)	Total (1956-59)
Plan outlay	297.2	345.9	399.4	1,042.5
States' own normal resources	82.8	118.9	188.6	390.3
Central assistance	157.1	189.4	221.3	567.8
Aggregate resources	239.9	308.3	409.9	958.1
Budgetary gap	57.3	37.6	—10.5	84.4

SECOND PLAN

The objectives of the Second Plan (1956-61) may be summarised as follows :

1. An increase of 25 per cent in the national income, 2. The development of basic industries, 3. Increase in employment opportunity, 4. Reduction in economic inequality, 5. Wider diffusion of economic power.

The total proposed outlay was Rs. 4,800 crores. The total outlay still is Rs. 4,800. But the perspective in 1957-58 changed. This is how it seemed then.

The outlay on the Plan during the first two years (1956-1958) was Rs. 1,496 crores. For 1958-59 the outlay was estimated at Rs. 960 crores, leaving a balance of Rs. 2,344 crores over the last two years of the Plan, which is a little less than one-half of the five year total.

The resources available for the last two years were placed at Rs. 1,804 crores, thus bringing the five year total to Rs. 4,260 crores.

These were the estimates then made.

The National Development Council, while deciding to maintain the Second Plan outlay at Rs. 4,800 crores, suggested that projects and programmes to be undertaken within this ceiling should be divided into two parts.

Part (A) of the Plan involving a total outlay of Rs. 4,500 crores should include, besides projects and programmes directly related to increase in agricultural production, "Core Projects" and projects which have reached an advanced stage and other inescapable schemes.

The remaining schemes should be included in Part (B) of the Plan with a total outlay of Rs. 300 crores.

The 'core' projects are given at the end of the article.

PRIVATE INVESTMENT

Private investment over the Plan period is estimated at Rs. 2,400 crores. The ratio of public to private investment in the First Plan was 50 : 50. In the Second Plan the ratio is estimated at 61 : 39.

The outlay of Rs. 2,400 crores in the private sector are allocated as follows (Rs. crores).

Organized industry and mining 575; Plantations, electric power, transport 125; construction 1,000; agriculture, village and small-scale industries 300; stocks 400.

TARGETS—SECOND PLAN

The principal targets of production and development in the Second Plan period as originally laid down both in the public and private sectors are set forth below :—

	1950-51	1955-56	1960-61	Percentage increase over 1955-56
I. AGRICULTURE				
Food grains (million tons)	54.0*	65.0	75.0	15
Cotton (bales)	2.9	4.2	5.8	21
Sugarcane, raw gur (million tons)	5.6	6.8	7.1	25
Oilseeds	5.1	5.5	7.0	27
Jute (bales)	3.3	4.0	5.0	25
Tea (pounds)	613	644	700	9
National Extension Blocks (Nos.)	NH	500	3,800	680
Community Development Blocks (Nos.)	NH	623	1,150	80
Population served by National Extension & Community Development Programmes (million persons)	NH	80	325	306
Village Panchayats (Thousand Nos.)	83	118	200	70
II. IRRIGATION & POWER				
Area irrigated (million acres)	51	67	88	81
Electricity (Installed capacity, million kW)	2.3	3.4	6.9	103
III. MINERALS				
Iron Ore (million tons)	3.0	4.3**	12.5	191
Coal	32.3†	38.0†	60.0†	58
IV. LARGE-SCALE INDUSTRIES				
Finished steel (million tons)	1.1	1.3	4.2	281
Pig Iron (for sale to foundries) (million tons)	—	0.38	0.75	97
Aluminium (000 tons)	3.7	7.5	25.0	238
Heavy steel forgings for sale (000 tons)	NH	NH	12	—
Heavy steel castings for sale (000 tons)	NH	NH	15	—
Steel structural fabrications (000 tons)	N.A.	180	500	178
Machine Tools (graded) (value in Rs. lakhs)	31.6	75	300	300
Cement Machinery	N.A.	56**	200	257
Sugar Machinery	N.A.	28**	250	779
Textile Machinery : Cotton & Jute (value in Rs. lakhs)	N.A.	413	1,950	373
Paper Machinery (value in Rs. lakhs)	Neg.	Neg.	400	—
Power Driven Pumps Centrifugal (000 Nos.)	34	40	84	115
Diesel Engines (000 H.P.)	N.A.	100	205	105
Automobiles (Nos.)	16,500	25,000	57,000	128
Railway Locomotives (Nos.)	3	175	400	139
Tractors (20-30-75 H.P.) (Nos.)	—	—	300	—
Cement (Million tons)	2.7	4.3	13	203
Fertilisers :				
(a) Nitrogenous (in terms of Ammn. Sulphate) (000 tons)	46	380	1,450	282
(b) Phosphatic (in terms of Superphosphate) (000 tons)	55	120	720	500
Sulphuric Acid (000 tons)	99	170	470	176
Soda Ash	45	80	230	188
Caustic Soda	11	36	150	317
Petroleum Refinery (crude processed) (million tons)	—	3.6	4.3	19
Electric Transformers 33 K.V. and below (000 KVA)	179	540	1,360	151
Electric Cables ACSR conductors (tons)	1,420	9,000	19,000	100
Electric Motors (000 H.P.)	99	240	600	150
Cotton Textiles (million yards)	4,618	6,850	8,500	24
Sugar (million tons)	1.1	1.7	2.3	85
Paper & Paper Board (000 tons)	114	200	350	75
Bicycles (Organised sector only) (000 Nos.)	101	550	1,000	63
Sewing Machines (Organised sector only) (000 Nos.)	33	110	230	100
Electric Fans (000 Nos.)	194	275	600	118
V. TRANSPORT AND COMMUNICATIONS				
(a) Railways				
1) Passenger train miles (millions)	95	108	124	15
2) Freight carried (million tons)	91	120	163	35
(b) Roads :				
1) National Highways (000 miles)	12.3	13.9	13.8	7
2) Surfaced Roads (000 miles)	97.0	107.0	125.0	17
(c) Shipping :				
1) Coastal & Adjacent (Lakh GRT)	2.2	3.2	4.3	34
2) Overseas (Lakh GRT)	1.7	2.8	4.7	687
(d) Ports :				
Handling capacity (million tons)	20	25	32.5	30
(e) Posts & Telegraphs				
1) Post Offices (000 Nos.)	36	55	75	36
2) Telegraph Offices (000 Nos.)	3.6	4.9	6.3	25
3) Number of telephones (000 Nos.)	168	270	450	67
VI. EDUCATION				
School-going children to per cent of children in the respective age group :				
(a) Primary Stage (6-11 age group)	42.0	51.0	63.0	—
(b) Middle Stage (11-13 age group)	14.0	19.0	23.5	—
(c) Higher Secondary Stage (14-17 age group)	6.4	9.4	13.0	—
Elementary/Basic Schools (lakhs)	2.23	3.98	5.50	19
Teachers in Primary/Middle Secondary Schools (lakhs)	7.4	10.3	15.4	30
Teachers Training Institutions (Nos.)	335	1,136	1,412	24
Enrolment in Teachers Training Institutions (000 Nos.)	75.6	103.5	124.2	30

* Relates to the year 1949-50.

** Relates to the calendar year 1954.

† Figures relate to calendar years.

‡ Inclusive of tankers.

§ Inclusive of tramp tonnage.

TARGETS—Contd.

	1950-51	1955-56	1960-61	Percentage increase over 1955-56
VII. HEALTH				
Medical Institutions (000 Nos.)	8.6	10.0	12.6	26
Hospital beds (000 Nos.)	113	125	155	24
Doctors	50	70	85	18
Nurses	17	22	31	41
Midwives	18	26	32	28
Nurse-Dais & Dais (000 Nos.)	4	6	41	453
Health Assistants and Sanitary Inspectors (000 Nos.)	3.5	4	7	75

The food and raw material targets were later revised as the original targets were found inadequate and the revised targets are as follows:

Food grains 805 lakh tons; cotton 65 lakh bales; jute 55 lakh bales; sugarcane 78 lakh tons in terms of gur; oilseeds 76 lakh tons.

ECONOMY

The changes expected to come from the implementation of the Plan in national income,

investment, savings and consumption are given in the table below.

The point about employment may be mentioned here. Full time additional employment in the non-agricultural sector is estimated at 65 lakhs, and in the agricultural sector at 15 lakhs. The total labour force created during the period will however be 100 lakhs. Total employment will thus fall short by 20 lakhs.

The following table shows the estimated position in regard to income, investment, savings and consumption at various stages:

NATIONAL INCOME, INVESTMENT, SAVINGS AND CONSUMPTION

(Rs. crores at 1952-53 prices)

	1950-51	1955-56	1960-61	Percentage increase during	
				1951-56	1956-61
Net National Product by Industrial Origin.					
Agriculture and Allied Pursuits	4,450	5,220	6,170	18	18
Mining	80	95	150	19	58
Factory Establishments	590	840	1,380	43	64
Small Enterprises	740	840	1,095	14	30
Construction	180	220	295	22	34
Commerce, Transport and Communications	1,650	1,875	2,300	14	23
Professions and Services including Government Administration	1,420	1,700	2,100	20	23
Total National Product (National Income)	9,110	10,900	13,480	18	25
Per Capita Income (rupees)	253	281	331	11	18
Investment, Savings and Consumption.					
Net Investment	448	790	1,440	—	—
Net Inflow of Foreign Resources	—7	24	130	—	—
Net Domestic Savings	455	766	1,310	—	—
Consumption Expenditure (National Income less Net Domestic Savings)	8,655	10,044	12,170	—	—
Investment as percentage of National Income	4.94	7.31	10.68	—	—
Domestic Savings as percentage of National Income	4.98	7.00	9.7	—	—

RESOURCES

(Rs. crores)

	Estimates in the Plan	Estimates as re-appraised
(A) Domestic Budgetary Resources—		
(a ₁) Surplus from current revenues	800	750
(a ₂) Borrowings from public loans and small savings	1,200	984
(a ₃) Railways' contribution	150	250
(a ₄) Provident Fund and other deposit heads	250	20
Total	2,400	2,023
(B) Resources to be raised externally	800	1,038
(C) Deficit financing	1,200	1,300
(D) Gap to be covered by measures to raise additional resources	400	—
Total Resources	4,800	4,260

Estimates of resources for the private sector are as follows:

(Rs. crores)

	1951-56	1956-61
Loans from Industrial Finance Corporation and State Financial Corporations and Industrial Credit and Investment Corporations	18	40
Direct and indirect loans from Governments, Central and State participation	26	20
Foreign capital, including suppliers' credit	42-45	100
New issues	40	80
Internal resources (from new investment and replacements)	150	300
Other sources such as advances from managing agents, EPT refunds, etc.	61-64	90
Total	340	620

The surplus from current revenue of Rs. 800 crores is made up of Rs. 350 crores at 1955-56 rates of taxation and Rs. 450 crores of additional taxation.

About external resources, there was a balance of about Rs. 100 crores available from the First Plan—only about Rs. 300 crores had been utilized out of an available Rs. 298 crores—and a net amount of Rs. 76 crores credit from the U.S.S.R. and the U.K. was also available to finance the steel projects.

The deficit financing would really amount to Rs. 1,000 crores as Rs. 20 crores would be drawn from the sterling balances.

PLAN RESOURCES (1956-61)

The latest estimates of the resources for the first three and the last two years of the Plan at the Centre and in the States are given below :
(Rs. crores)

Head	Estimates for the first three years (1956-59)			Estimates for the last two years (1959-61)			Total for the five years (1956-61)		
	Centre	States	Total	Centre	States	Total	Centre	States	Total
Domestic budgetary resources									
Balance from current revenue ..	250	178	428	140	182	322	390	360	750
Railways' contribution ..	126	—	126	124	—	124	250	—	250
Loan from the public (net) ..	328	113	441	170	107	277	498	220	718
Small savings ..	96	115	211	59	114	173	155	229	384
Unfunded debt and Misc. capital receipts ..	-64	-16	-80	25	-19	6	-39	-35	-74
Total of domestic resources ..	736	390	1,126	518	384	902	1,234	774	2,028
External assistance ..	458	—	458	642	—	642	1,100	—	1,100
Total of budgetary resources and external assistance ..	1,194	390	1,584	1,160	384	1,544	2,334	774	3,128
Central assistance ..	-568	568	—	-470	470	—	-1,038	1,038	—
Resources after adjusting for Central assistance ..	626	958	1,584	690	854	1,544	1,316	1,812	3,128
Deficit financing ..	798	84	882	200	10	210	998	94	1,092
Total resources—Plan outlay ..	1,424	1,042	2,466	890	864	1,754	2,314	1,906	4,220

Total investments will thus total Rs. 4,220 crores against the proposed outlay of Rs. 4,500 crores. There will thus be a shortfall of Rs. 280 crores—Rs. 196 crores at the Centre and Rs. 82 crores in the States.

It is to meet this gap that the National Development Council decided in November 1958 to take over the wholesale trade in food grains. Other decisions to meet the situation were promotion of village or operatives, drive for economy and a search for additional resources. Deficit financing in the next two years should not rise above Rs. 100 crores.

The balance of payment deficit over the whole Plan period would be Rs. 2,000 crores. About Rs. 1,000 crores would have been incurred by the end of the third year. It may be mentioned here that the foreign assets of the Reserve Bank declined from Rs. 746 crores in April 1956 to Rs. 211 crores in February 1959. To tide over the immediate difficulty foreign assistance of 350 million dollars was arranged for the period October 1958—March 1959. The amount of foreign assistance needed for the rest of the period of the Plan is 650 million dollars.

CORE PROJECTS

As mentioned before it became necessary early in 1957 to define strict priorities among projects requiring foreign exchange so as to ensure the implementation of certain essential projects which could be regarded as constituting the 'core' of the Plan.

The projects included in the 'core' are the steel plants and the coal and lignite programmes both in the public and private sectors, the programmes of the railways and major ports, and certain selected power projects over and above those already covered by foreign aid.

'Core' projects in the public sector entail a total expenditure during the Plan period of about Rs. 1,800 crores, of which it is expected that about Rs. 1,120 crores will have been incurred during the first three years.

The total foreign exchange cost of all the 'core' projects in both the public and the private sectors is about Rs. 962 crores.

The details of this amount, the foreign exchange expenditure already incurred or committed and the further commitments still required to be made are shown in the following table :—
(Rs. crores)

Projects	Total foreign exchange cost in the Second Plan	Expenditure incurred or committed as on 31-3-1958	Fresh commitments necessary for completion
Steel			
(a) Public Sector			
(i) Bhilai Steel Plant ..	85.67	80.68	4.99
(ii) Rourkela Steel Plant ..	120.00	107.35	12.65
(iii) Durgapur Steel Plant ..	95.90	90.90	5.00
(iv) Ferro-silicon plant under the Mysore Iron & Steel expansion programme ..	0.65	0.65	—
(b) Private Sector ..	86.35	74.43	11.92
Coal			
(a) Public Sector			
(i) N. C. D. C. ..	15.0	5.83	9.17
(ii) Singareni collieries ..	8.25	1.85	6.40
(b) Private Sector ..	10.00	3.30	6.70
Washeries ..	7.50	2.50	5.00
Neyveli Lignite Project (Mining part only) ..	10.50	6.70	3.80
Railways (Schemes requiring foreign exchange) ..	431.68*	255.00*	176.68*
Ports (Bombay, Calcutta, Madras and Vishakhapatnam and the Dredger Pool) ..	25.00 60.40	8.89 24.40	26.11 36.00
Power Projects ..			
Total ..	961.85	685.48	276.37

* This is inclusive of Rs. 6.62 crores of P & T requirements in connection with Railway electrification.

It will be seen that of the further commitments still to be made the requirements of the Railways form by far the largest single item.

The figures in respect of Railways and the ports relate to the entire programmes as included in the Plan. These were originally treated as part of the 'core' without any curtailment, as it was believed that assistance would be forthcoming from the World Bank. But this will not be sufficient to meet in full the outstanding foreign exchange requirements.

As a result of a review it is considered that a saving of about Rs. 30-40 crores of foreign exchange might be possible by postponing some of the less essential projects. Similarly, in the case of the ports, it is hoped that the

programmes already undertaken and those which are likely to be taken up with World Bank assistance will enable the tonnage capacity of 23 million tons envisaged in the Plan to be achieved.

The foreign exchange requirements of other 'core' projects, amounting in all to Rs. 80.0 crores, will not admit of any reduction without serious repercussions on the projects themselves.

Projects

PUBLIC SECTOR

1. **Steel**: Rourkela Steel Plant; Bhilai Steel Plant; Durgapur Steel Plant; and Mysore Iron & Steel Works (Ferro-silicon Expansion).

2. Coal and Lignite :

(a) National Coal Development Corporation Scheme. Kathara. Korba (Open cast). Korba (inclines). Gidi. Saunda. Korea. Existing State Collieries.

(b) Singareni Collieries.

(c) Coal Washeries.

(d) Neyveli Lignite Project (mining part).

3. *Railway Development Programme* (including the requirements of the Posts and Telegraphs Department in connection with the railway electrification programme).

4. *Ports Development Programme*: Bombay. Calcutta. Madras. Vishakhapatnam. Dredger Pool.

5. Power Projects :

Korba Thermal Station (Madhya Pradesh). Khaperkheda Akola, Thermal Station Extensions (Bombay).

Hirakud Project (II stage), (Orissa).

Lakkavalli (Bhadra) Project (Mysore).

Bhakra-Nangal H.E. Project (Punjab and Rajasthan).

Chambal Project (first stage) (M.P. State/Rajasthan).

Rihand Project (Uttar Pradesh).

Tungabhadra H.E. Scheme (Mysore).

Narlamangalam H.E. Scheme (Kerala).

Thermal Stations in Saurashtra region (Bombay).

Ganderbal & Mohra Power Stations (Jammu & Kashmir).

Power Transmission, distribution and extension schemes (sub-stations equipment, conductors, switchgears, underground cables, steel for supports, ground water meters, etc.).

PRIVATE SECTOR

1. *Steel*: Tata Iron & Steel Works. Indian Iron & Steel Works.

2. *Coal*.

PLAN INVESTMENTS—STATE-WISE (1)

The following table shows the Plan investments and the investments for 1958-59 and 1959-60. (Rs. in lakhs)

States	1958-59	1959-60 Budget	Plan
Andhra Pradesh	3,600.08		17,575.00
Assam			
Bihar			
Bombay*			
Jammu and Kashmir	544.13	700.00	3,392.07
Kerala	1,723.82	2,068.13	8,700.71
Madhya Pradesh	3,171.94	3,422.00	19,090.27
Madras	3,481.00	3,464.00	15,227.00
Mysore	2,570.48	3,499.99	14,513.00
Orissa			
Punjab			
Rajasthan	2,011.60	2,405.16	10,527.26
Uttar Pradesh	4,750.00	5,000.00	25,309.65
West Bengal	3,406.30	3,769.81	15,766.90

* See under the State.

PLAN INVESTMENTS—STATE-WISE (2)

The following table shows the Plan investment and the investment for 1959-60 as budgeted by head.

(Rs. in lakhs)

States	Agri. & Comm. Dept.		Irrigation & Power		Industry & Mining		Trans. and Communications		Social Services		Miscellaneous	
	Plan	1959-60 Budget	Plan	1959-60 Budget	Plan	1959-60 Budget	Plan	1959-60 Budget	Plan	1959-60 Budget	Plan	1959-60 Budget
Andhra Pradesh	3,985.00		7,647.00		1,428.00		769.00		3,477.00		267.00	
Assam												
Bihar												
Bombay*												
Jammu and Kashmir												
Kashmir	755.31	181.36	568.69	139.59	341.24	74.01	570.00	80.00	813.14	172.87	343.69	52.17
Kerala	1,582.12	373.80	3,208.96	620.11	683.98	182.33	557.28	147.96	2,381.18	681.99	287.19	62.12
Madhya Pradesh	4,362.14	955.46	7,287.07	1,245.18	1,035.46	124.97	1,299.62	176.30	4,874.87	707.17	340.61	212.92
Madras	2,915.00	782.00	6,559.00	1,308.00	1,000.00*	269.00	679.00	135.00	3,469.00	930.00	219.00	42.00
Mysore	2,974.00	771.46	6,028.00	1,430.70	1,179.00	226.72	910.00	265.50	3,386.00	782.53	36.00	24.00
Orissa												
Punjab												
Rajasthan	1,978.87	558.48	4,536.49	890.28	577.21	82.42	941.50	200.00	2,391.90	632.80	101.29	41.20
Uttar Pradesh	6,763.93	1,689.19	8,042.50	1,548.00	1,643.87	279.76	1,699.50	300.00	6,863.84	1,106.04	296.61	77.01
West Bengal	3,440.29	720.89	3,074.07	669.00	943.65	304.97	1,946.88	330.00	5,426.27	1,338.08	935.74	406.87

* Only industry. ‡ See under the State.

SMALL SAVINGS

Below we give the figures for 1957-58 for various categories which are together classed as Small Savings. The figures are in Rs. lakhs:

National Savings Certificates :

Five Year Certificates, outstandings: 2.22 (discontinued from July 1, 1953).

Seven Year Certificates, outstandings: 4.73 (discontinued from June 1, 1957).

Twelve Year Certificates, outstandings: 143.45 (discontinued from June 1, 1957).

Twelve Year National Plan Savings Certificates :

Receipts: 71.45; Outstandings: 71.43 (issued from June 1, 1957).

Post Office Savings Bank Deposits :

Receipts: 179.86; Outstandings: 213.91.

Ten Year National Plan Certificates :

Outstandings: 23.11 (issued from May 10, 1954 to May 30, 1957).

Post Office Cash Certificates, Defence Saving Certificates, Defence Savings Bank Deposits :

Outstandings: —39.73 (progressive net repayments at the end of period from Aug. 15, 1947).

Ten Year Treasury Savings Deposit Certificates, 8½% :

Outstandings: 43.58 (net sales from June 1, 1957).

Ten Year Treasury Savings Deposit Certificates, 4% :

Receipts: 588; Outstandings: 547 (issued from June 1, 1957).

Fifteen Year Annuity Certificates :

Receipts: 63; Outstandings: 1.87 (Relates to first series issued from July 1954 to Dec. 1957 and to second series issued from January 1958).

Total :

Receipts: 264.32; Outstandings: 509.77 (outstandings in relation to the item under Post office cash certificates, etc. are not included).

Below we give the net achievements in small savings series for 1957-58 and 1958-59 State-wise. The figures are without counting the interest on the POSSB accounts which accrues to every State. The target set for 1957-58 was Rs. 100 crores.

The achievement is as follows (in Rs.) :—

State	1957-58	1958-59
Andhra	4,41,81,000	3,84,21,000
Assam	1,40,81,000	2,74,35,000
Bihar	4,19,40,000	6,04,28,000
Bombay	14,61,63,000	21,63,09,000
Kerala	1,26,99,000	1,82,99,000
M.P.	2,59,55,000	2,13,48,000
Madras	6,87,30,000	2,66,04,000
Mysore	1,47,56,000	1,81,28,000
Orissa	99,23,000	1,38,76,000
Punjab	4,46,94,000	5,24,02,000
Rajasthan	1,52,59,000	1,64,88,000
U.P.	8,92,79,000	7,77,29,000
West Bengal	7,32,31,000	6,98,51,000
Jammu & Kashmir	32,52,000	80,52,000
Delhi	1,38,64,000	2,39,25,000
Himachal Pradesh	5,72,000	11,85,000
Manipur	5,59,000	2,48,000
Tripura	5,92,000	4,84,000
Andamans		
Nicobars		
India	61,77,87,000	70,08,46,000

STATE BUDGETS (1959-60)

Revenue Receipts

TABLE 1

(In lakhs of rupees)

States	Union Excise Duties	Taxes on Income other than Corpora- tion Tax	Estate Duty	Taxes on Railway Fares	Land Revenue (net)	State Excise Duties	Stamps	Forests	Registra- tion	Taxes on Vehicles
Andhra Pradesh ..	597.14	640.25	19.10	96.49	910.18	674.76	276.92	254.34	82.78	279.09
Assam	216.17	417.84	4.09	29.51	260.96	177.49	40.57	120.14	7.88	68.68
Bihar	544.83	790.66	30.00	102.26	1,195.78	484.45	232.50	117.50	69.36	7.00
Bombay	1,496.26	1,255.96	41.84	177.29	1,399.86	89.80	568.41	557.45	53.49	580.24
Jammu & Kashmir ..	108.42	88.84	..	..	69.24	30.00	12.50	308.97	4.17	7.80
Kerala	241.42	448.85	7.44	19.71	167.46	216.87	127.86	323.00	33.57	174.88
Madhya Pradesh ..	536.19	531.91	12.75	90.50	1,010.47	385.68	133.83	746.64	24.00	115.00
Madras	581.00	625.00	28.41	70.00	503.38	25.70	360.45	100.09	76.95	478.02
Mysore	350.15	505.58	14.04	48.46	445.00	292.67	160.35	504.50	27.52	232.45
Orissa	254.95	297.11	6.88	19.38	324.58	99.57	57.02	273.67	16.40	70.82
Punjab	369.52	333.35	8.51	88.31	448.36	518.26	197.75	31.26	44.62	73.01
Rajasthan	230.02	330.00	10.00	73.73	705.50	338.00	89.65	74.50	11.50	90.00
Uttar Pradesh	1,214.04	1,366.22	36.62	204.30	2,117.03	541.73	355.00	521.21	65.39	206.00
West Bengal	589.08	861.05	33.41	68.72	667.02	536.25	313.68	140.61	59.54	163.60
Andaman & Nicobar Islands .. ..	..	..	..	..	2.78	.05	.24	109.14	.01	.12
Delhi .. ..	..	..	..	..	6.29	143.88	78.21	.04	8.70	34.98
Himachal Pradesh ..	..	..	..	..	18.90	10.52	4.89	139.26	.32	1.80
Manipur .. ..	..	..	..	..	14.50	.15	1.50	3.85	.25	3.69
Pondicherry .. ..	..	7.20 ¹	..	..	4.70	33.02	1.25	..	5.20	..
Tripura .. ..	..	..	..	..	12.00	1.50	4.00	7.05	2.00	3.80

¹ Represents taxes on income.

Revenue Receipts

TABLE 1—Contd.

(In lakhs of rupees)

States	Sales- Tax	Other Taxes and Duties	Irri- gation, Navi- gation	Debt Services	Civil Adminis- tration	Civil Works	Miscel- laneous (net)	Adjut- ments between Central and State Govern- ments	Com- munity Projects and Local Works	Extra- ordinary	Grand Total Revenue Receipts
Andhra Pradesh ..	883.53	99.62	168.97	106.56	534.38	80.06	641.67	591.60	61.74	..	7,129.27 ¹
Assam	222.81	270.01	.40	10.02	142.40	106.46	201.03	945.13	77.55	76.41	3,395.05
Bihar .. ..	..	808.94	206.05	72.67	1,257.07	63.30	390.55	594.63	217.69	1.43	7,136.67
Bombay	3,076.89	1,015.62	103.84	641.49	1,622.55	385.27	376.01	165.19	169.80	3.78	13,678.74
Jammu and Kashmir ..	19.50	9.50	16.51	11.36	92.33	133.68	54.98	..	81.64	..	1,299.35 ²
Kerala	600.00	18.61	9.04	125.43	697.38	122.18	227.74	175.35	59.18	50.80	3,246.77
Madhya Pradesh ..	464.90	85.10	65.00	147.53	501.62	34.55	160.84	428.63	211.71	250.00	5,937.15
Madras	1,529.56	186.95	131.02	565.09	1,333.39	98.88	265.80	5.31	199.57 ³	199.57 ³	7,308.37 ⁴
Mysore	685.00	144.77	40.63	243.83	2,407.66	127.25	215.25	610.45	111.93	..	7,167.39
Orissa	215.51	34.91	7.25	44.84	536.42	43.71	141.04	379.29	141.74	46.00	3,084.69 ⁵
Punjab	348.49	359.10	139.71	375.23	734.48	101.53	339.19	242.19	58.34	6.47	5,237.67 ⁶
Rajasthan	325.00	48.70	70.98	90.33	647.68	60.48	159.11	278.19	101.71	142.00	3,927.06
Uttar Pradesh	665.00	807.53	274.73	333.81	1,899.48	203.32	301.35	.23	318.56	529.23	11,960.77
West Bengal	1,370.03	777.15	31.43	59.81	1,019.66	151.23	449.49	521.76	86.16	4.77	7,904.49
Andaman & Nicobar Islands .. ..	..	.20	..	.06	33.53	..	4.43	..	..	..	150.61
Delhi	329.35	165.98	..	105.08	48.45	..	2.61	..	..	..	823.53
Himachal Pradesh ..	1.46	5.72	..	.43	36.53	2.36	61.92	..	.31	..	399.27 ⁷
Manipur .. ..	..	3.00	.15	..	2.18	.80	(—) 1.51	..	..	..	29.55 ⁸
Pondicherry .. ..	..	12.43	..	..	..	2.50	9.72	..	..	..	160.00 ⁹
Tripura .. ..	..	1.50	..	..	2.86	..	1.00	..	..	..	35.51

¹ Includes Electricity Schemes (net) : Rs. 135.09 lakhs. ² Includes Grant-in-aid from Central Government Rs. 300.05 lakhs. ³ Includes Rs. 147 lakhs being taxes on Agricultural income. ⁴ Includes Rs. 53.60 lakhs from Electricity Schemes. ⁵ Includes Rs. 219.99 lakhs from Multipurpose River Schemes. ⁶ Includes 4.75 lakhs from Electricity Schemes. ⁷ Includes Rs. 1.11 lakhs from Electricity Schemes. ⁸ Includes Rs. 3 lakhs from Miscellaneous Deptts., Rs. 59.28 lakhs from Customs & Central Excise and Rs. 21.60 lakhs from Electricity. ⁹ Includes Extraordinary. ¹⁰ Includes Community Projects and Local Works.

TABLE 2

Revenue Expenditure

(In lakhs of rupees)

States	Direct Demands on the Revenue	Revenue Account of Irrigation, Navigation	Debt Services (net)	General Administration	Administration of Justice	Jails	Police	Scientific Departments	Education	Medical	Public Health
Andhra Pradesh ..	497.60	409.49	-67.51	553.49	121.30	41.80	561.45	3.76	1,380.76	359.53	219.80
Assam ..	280.63	60.74	84.82	155.76	24.30	24.00	291.54	.48	544.32	146.25	137.45
Bihar ..	609.95	171.40	622.80	471.27	107.77	104.77	465.39	1.85	1,151.16	294.15	299.04
Bombay ..	1,565.55	384.68	1,132.63	908.63	272.66	119.22	1,323.50	21.36	2,505.21	339.09	325.64
Jammu & Kashmir ..	125.08	46.59	80.00	56.65	11.73	6.51	77.15	.93	175.01	72.28	9.61
Kerala ..	299.51	75.72	157.66	148.40	67.86	31.77	203.43	4.88	1,301.66	298.64	188.27
Madhya Pradesh ..	653.98	74.98	341.76	356.82	92.95	40.14	553.91	6.64	1,162.64	255.23	182.52
Madras ..	551.54	296.71	632.96	508.94	128.18	95.50	529.15	2.87	1,323.95	440.66	123.92
Mysore ..	531.19	200.33	376.35	250.00	87.78	34.80	322.54	7.98	1,132.43	292.53	213.87
Orissa ..	258.57	46.34	208.52	246.23	30.72	30.90	180.60	86.29	398.86	120.11	82.83
Punjab ..	464.86	151.25	443.77	296.25	67.02	63.25	463.69	4.55	1,109.61	249.15	129.25
Rajasthan ..	337.80	72.07	365.89	229.34	51.45	32.68	430.68	24.22	545.27	263.15	154.18
Uttar Pradesh ..	1,236.76	545.16	1,329.93	727.25	181.50	147.44	941.90	13.73	1,623.82	437.23	233.30
West Bengal ..	696.90	174.75	561.09	334.68	120.69	103.02	793.72	.74	1,347.95	584.54	297.46
Andaman & Nicobar Islands ..	153.52	..	..	11.44	..	.52	17.11	..	9.23	9.26	2.67
Delhi ..	235.77	4.00	..	37.62	15.67	7.99	185.69	..	243.24	65.58	22.78
Himachal Pradesh ..	85.89	5.76	..	35.67	5.85	2.52	39.73	.06	39.81	7.77	14.09
Manipur ..	11.47	3.25	..	11.40	1.67	1.23	54.74	..	31.37	12.26	10.90
Pondicherry ..	..	..	..	11.07	4.24	1.23	16.73	..	19.30	46.95 ¹¹	..
Tripura ..	38.43	2.00	..	16.23	2.57	2.73	53.63	..	49.56	7.07	11.95

Revenue Expenditure

TABLE 2—Contd.

(In lakhs of rupees)

States	Agriculture	Animal Husbandry	Co-operation	Industries and Supplies	Miscellaneous Departments	Civil Works and Miscellaneous	Electricity Schemes	Miscellaneous	Extraordinary Including Community Projects	Grand Total Expenditure on Revenue Account	Surplus (+) or Deficit (-) on Revenue Account
Andhra Pradesh ..	332.11	121.87	175.62	153.41	375.83	630.57	339.97	613.92	341.48	7,166.30	- 37.03
Assam ..	160.70 ^a	..	72.95 ^a	90.95	11.03	541.11	..	244.17	144.06	3,054.01 ^b	+ 341.04
Bihar ..	341.60	..	326.16	207.72	46.15	324.33	5.63	402.02	563.80	6,633.47 ^c	+ 553.20
Bombay ..	411.82	150.16	226.42	242.87 ^d	591.31	862.19	.72	1,435.14	313.43	13,771.98 ^e	- 98.24
Jammu & Kashmir ..	33.18	21.71	14.65	6.69 ^f	24.79	73.88	..	151.93	88.97	1,060.24	+ 219.15
Kerala ..	161.28 ^g	26.75	25.36	75.24	170.59	308.08	..	275.35	119.24	3,924.54	- 77.77
Madhya Pradesh ..	233.35	109.43	58.70	130.01	251.49	436.43	..	496.25	402.05	5,544.29	+ 92.88
Madras ..	292.25	93.74	186.49	417.20	332.31	557.11	..	406.45	249.16	7,169.11	+ 139.26
Mysore ..	369.42 ^h	103.40	73.51	1,790.41	63.21	578.53	..	474.66	199.03	7,118.99 ⁱ	+ 48.40
Orissa ..	123.21	62.60	51.83	72.78	226.85	309.10	..	219.02	302.64	3,058.89 ^j	+ 6.30
Punjab ..	158.61	71.88	63.95	85.14 ^k	40.81	686.34	..	577.82	186.75	5,320.46	- 32.79
Rajasthan ..	113.21 ^l	76.04	56.73	62.16	154.41	210.53	..	312.56	113.85	3,914.22	+ 12.86
Uttar Pradesh ..	358.68 ^m	187.87	154.38	536.01 ⁿ	705.05	540.97	101.75	1,260.18	884.82	12,147.34	- 186.57
West Bengal ..	500.76 ^o	46.50	139.27	258.82	184.41	554.18	..	1,106.94	479.61	8,267.10 ^p	- 363.61
Andaman & Nicobar Islands ..	8.91	3.22	.72	2.25	17.10	..	..	9.32	3.47	311.39 ^q	..
Delhi ..	14.11	3.15	4.97	6.32	9.93	..	..	226.50	6.96	1,090.14	..
Himachal Pradesh ..	41.58	8.63	9.03	39.73	4.87	66.94	..	129.96	47.19	555.08	..
Manipur ..	4.10	1.91	2.20	4.14	.84	15.25	..	53.97	10.19	233.89	..
Pondicherry ..	1.49 ^r	..	1.67	2.52	2.43	15.50 ¹²	34.58	3.01	8.81 ¹³	275.19 ¹⁴	..
Tripura ..	15.68	2.13	1.17	10.61	5.33	4.65	..	136.48	10.61	373.12	..

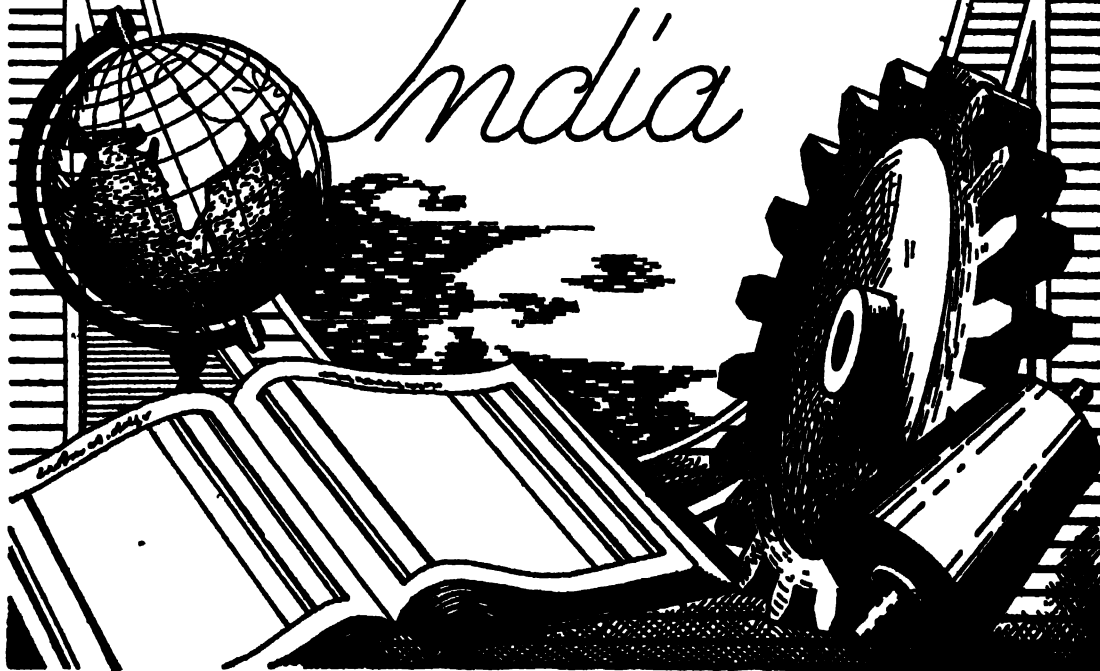
¹ Includes Veterinary Rs. 46.06 lakhs, Ports and Pilotage Rs. 2.64 lakhs. ^a Includes also Fisheries. ^b Includes also Rural Development. ^c Includes Veterinary Rs. 115.76 lakhs. ^d Only Industries. ^e Includes Ports and Pilotage Rs. 79.84 lakhs, Dangs District Rs. 76.61 lakhs. ^f Includes Ports and Pilotage Rs. 8 lakhs. ^g Includes Ports and Pilotage Rs. 14 lakh. ^h Includes Ports and Pilotage Rs. 11.07 lakhs. ⁱ Includes Ports and Pilotage Rs. 63.65 lakhs. ^j Represents Medical and Public Health. ^k Only Civil Works. ^l Only Community Development Projects & NRS. ^m Includes Customs & Central Excise Rs. 3.15 lakhs, Revenue Department Rs. 8.37 lakhs, Interest on Debt and Other Obligations Rs. 0.01 lakh, Pay and Accounts Office Rs. 2.25 lakhs, Ports Rs. 0.86 lakh, Superannuation Allowances and Pensions Rs. 20.37 lakhs, Stationery and Printing Rs. 1.55 lakhs.

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HEAD OFFICE : BOMBAY

IN 1908, three intimate friends, Kanwalsing Pohumal, Vasanmal Kishenchand and Jotsing Harising, formed themselves into a Company called J. B. Advani & Company with a view to specializing in the import of Paper and Printing Materials. This Concern was the first of its kind in Sind. The pioneers, who envisaged a great future for this line of business, opened an office in Karachi. In a very short time their confidence was justified and the venture became a huge success. The markets within reach having been tapped to the fullest extent, a Branch was opened in Bombay in 1921. In spite of the very keen competition that usually prevails in Bombay, which is the premier and largest paper market in India, the Company very soon became one of the leading firms in the line with its business growing in volumes from year to year.

In 1925, the proprietors decided to convert their firm into a Private Limited Company—J. B. Advani & Co. Ltd.—with a capital of Rs. 6,00,000.

In 1925, the management began to explore the Punjab market more energetically with a view to developing the business handled by the Head Office at Karachi and a Branch was accordingly opened in Lahore. This was followed by the opening of a Branch in Madras in 1927, which has made steady progress year by year. Three years later, another Branch was opened, this time in Calcutta. Branches have since been opened in Delhi, Jullundur and Cochin.

The Directors of this Company started a new concern under the name and style of J. B. Advani & Co. (Mysore) Private Ltd. at Bangalore.

After partition of India, the Company's interests in Pakistan were converted into a non-resident company—J. B. Advani & Co. (Pakistan) Ltd., with Head Office at Karachi and a branch at Lahore.

With its network of branches in all the important centres in India, J. B. Advani & Co. Private Ltd. today reaches every notable consuming centre in India.

The Company has a Paid-up Capital of Rs. 30,00,000. Besides, it has the substantial backing of its Directors and their relatives, and the Working Capital is actually in the vicinity of Rs. 1,00,00,000. The Company, with its branches and its tradition of 50 years as the largest importers of Paper in India with a turnover of Rs. 1,25,00,000 per annum, have since the last few years entered and specialised in machinery trade, dealing in Refractory Products, Arc & Resistance Welding Machinery & Equipment, Machine Tools, Plate & Sheet Metal Working Machinery, Building Machinery, De-Scaling, De-Rusting Pistols, Graphite, Electrodes, Di-Phase, Metal Cleaners & Equipment, Gas or Oil fire Furnaces, Printing Inks, etc. and is open to take up representation of Indian and foreign manufacturers of Paper and Machinery. The Company also export specially Tea, Textiles and Malabar Hill products.

In 1951 some of the Directors jointly started a modern Printing Ink Factory in collaboration with foreign experts at Bhandup, Bombay and today J. B. A. PRINTING INKS PRIVATE LIMITED have their vast clientele spread all over India and the neighbouring countries.

Another enterprise with which they are associated is the one for the manufacture of Welding Electrodes, probably the first major attempt in this field of industry in India. In partnership with the Oerlikon Machine Tool Works (Messrs. Buehrle & Co.), Zurich, Switzerland, the world famous manufacturers of Welding Electrodes, a new company has been floated under the name of J. B. ADVANI-OERLIKON ELECTRODES PRIVATE LTD. with 80 per cent of the share capital subscribed by J. B. Advani & Co. Private Ltd. With an up-to-date factory and most modern production line, this factory, situated at BHANDUP (Central Rly.), Greater Bombay, is producing now some of the best Welding Electrodes in the world. They have amongst their patrons, Government, Railways, Shipyards, and Great Steel fabricators of India.

A third enterprise with which they are connected is the one for the manufacture of Drinking Straws and Waterproof Kraft Paper. Messrs. IDEAL WRAPPERS PRIVATE LTD. have the leading Aerated Water manufacturers and Textile Mills as their patrons. This factory is also located at Bhandup.

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(Liquid Glucose)
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Telephone No. 2271

Telegrams : "STAR", NAGPUR

Chairman, Board of Directors :

Mrs. KAMALRUKH D.P.R. CASSAD.

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Manganese Mines in Nagpur and Bhandara Districts, Bombay State and Balghat District, M.P.

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**PIONEERS IN THE MINING INDUSTRY IN THE
MADHYA PRADESH FOR OVER HALF A CENTURY**

W. H. BRADY &

THE foundations of this famous House were laid in 1895 in Bruce Lane, Bombay, when the late Mr. W. H. Brady in partnership with the late Mr. J. F. Bradbury commenced business as Machinery Agents and Importers, and Advisers on all technical matters relating to the Cotton Textile Industry.

The period was one in which Cotton Mills were on the increase and as Mr. Brady and Mr. Bradbury were two of the best known Mill Managers of the time, their practical experience and expert knowledge of mill management and machinery helped considerably towards the firm's progress.

Within a decade, Bradbury Brady & Co. (as the firm was then styled) had extended its activities far beyond its initial business of machinery importers, for in 1900 the Empire Dye Works was started and in 1901 it took up the agency of the Colaba Land & Mill Company. This was rapidly followed by the agencies of the New City of Bombay Mills, the New Great Eastern Mills, the Sun Mill (now Dhanraj Mills) and the Bradbury Mills.

In 1912 however, a change was made when Mr. Bradbury (in Partnership with Mr. Knowles) restricted his business to the agencies of these Mills under the style of Bradbury & Co., while Mr. Brady started an independent business as a Machinery Agent (with Mr. Kay, Mr. Lakin and Mr. Johnson as junior partners) under the style of W. H. Brady & Co.

In 1913, the latter firm was converted into a private limited liability company under the name and style of W. H. Brady & Co., Ltd., with its Head Office in Bombay. Three years later, on the death of Mr. Bradbury, it took over the agencies of the Empire Dye Works, the New City of Bombay Manufacturing Co., Ltd., the New Great Eastern Spinning and Weaving Co., Ltd., and the Colaba Land & Mill Co., Ltd.

On the retirement of Mr. Brady in 1922, Sir Joseph Kay became Managing Director of the firm and its progress under his management has been considerable. In 1928 the capital was increased and the Company commenced to operate on the joint stock principle without any restrictions on its shares. Today, the operations of the concern cover an extremely wide field, for in addition to its long established textile associations, it has extended its activities over other classes of industry such as Sugar, Engineering, Printing, Insurance, etc.

Sir Joseph Kay's death on 1st October, 1958 left a void which was difficult to fill. However, he had trained many able executives during his lifetime who are now in charge of the Company's affairs. The Company's Board of Directors Mr. Jehangir P. Patel (Chairman), Mr. N. B. Jeejeebhoy, Mr. K. M. Premchand, Mr. V. S. Velinker and Mr. Pratapsinh Mathuradas, is assisted by full time Technical Advisers Mr. J. Symon and Mr. F. Edwards.

From time to time, branches have been established in other parts of India until the Company now has offices in Calcutta, Madras, Kanpur, Ahmedabad, Coimbatore, Delhi and Manchester (England).

TEXTILES.—The Company has a very large Textile Machinery Import Department which carries comprehensive stocks of the manufactures of a number of British and American firms. These firms are recognised everywhere as makers of the highest repute and amongst them may be mentioned—The British Northrop Loom Co., Ltd., Lang Bridge Ltd., Wm. Tatham Ltd. (who have a world-wide reputation for Carding and Spinning machinery for cotton waste and wool), Universal Winding Company (Patentees of the famous Leeson Winding Machines), Hugh Kitchshaw & Sons Ltd., Cocker Machine & Foundry Co., Cook & Co. (Manchester) Ltd., Samuel O'Neill & Sons Ltd., F. E. Rudman & Co., Ltd., Tragasol Products, Ltd., etc., etc.

COMPANY, LIMITED

The Textile Department is also keenly alive to all changes which constantly take place in the manufacture of Cotton and Silk goods. It is always ready to advise on these changes, suggest up-to-date systems, and to supply machinery in conformity with them.

Being closely associated for more than sixty years with the Cotton Textile Trade in India, the Company has undertaken from time to time, many large contracts and in several cases has executed orders for complete Cotton and Woollen Mills to the entire satisfaction of the purchasers.

In addition to the vast textile machinery business the Company is also directly connected with the Textile Trade in its capacity of Managing Agents for the New City of Bombay Mfg. Co., Ltd., the Empire Dyeing & Mfg. Co., Ltd., and the New Great Eastern Spg. & Wvg. Co., Ltd.

ENGINEERING.—The Company has a very large general Engineering Department. It carries comprehensive stocks of the manufactures of a number of British Firms, amongst whom may be mentioned Herbert Morris Ltd., The Renold Chains Ltd., Hopkinsons Ltd., Geo. Kent Ltd., The Andrew Machine Construction Co., Ltd., G. & J. Weir Ltd., Davidson & Co., Ltd., Norris Henty & Gardners Ltd., Dicks Asbestos & Insulating Co., Ltd., Ashworth & Parker Ltd., Hick Hargreaves & Co., Ltd., Thos. Broadbent & Sons Ltd., Hoffmann Sprinkler Co., Ltd., etc., etc.

In keeping with the development of the Engineering Industry in India, a company under the name of The Brady Engineering Co., Ltd., was formed in 1946 with the object of manufacturing wholly or partially, under licence from their various Principals, such goods as have been imported in the past but which could be readily manufactured in this country.

SUGAR.—In their General Department Messrs. W. H. Brady control the management of The Belapur Co., Ltd. This pioneer Company is not only one of the largest of its kind, but has recently erected a new factory which is the most up-to-date in India and is capable of crushing 1,000 tons of cane per day.

It manufactures pure Indian sugar by modern methods from cane which is grown entirely on its own estate.

PRINTING.—Messrs. W. H. Brady control the well-known Caxton Press (G. Claridge & Co., Ltd.) which undertakes all kinds of Printing, Lithography, Die-Stamping, Bookbinding, etc.

INSURANCE.—Insurance is another important line of business with which the Company has been connected for a considerable number of years. The Company acts as Agents of first class British and Indian Insurance Companies, and are always in a position to give advice on, and transact practically all classes of Insurance business with the sole exception of life.

OTHER INTERESTS.—The Company handles several important agencies for goods which are consumed on a very large scale in India, and has built up an extensive connection for its imports of such proprietary articles as Nicholson Files, Nettlefold Screws, Signode Steel Strapping, etc.

CONCLUSION.—In a brief resume of the Company's operations it is impossible to enumerate a complete list of firms for whom they act as representatives, but Messrs. W. H. Brady are well-known to be a live and progressive House, staffed with experts in each branch, and possessing close connections with the Textile Trade, Engineering, the Sugar Industry, Insurance, and manifold other interests.

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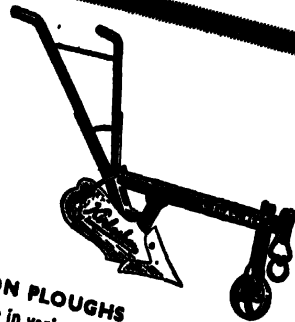
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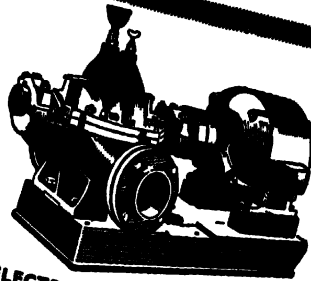
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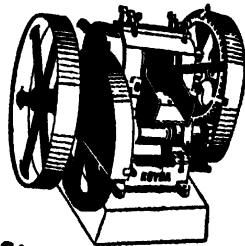
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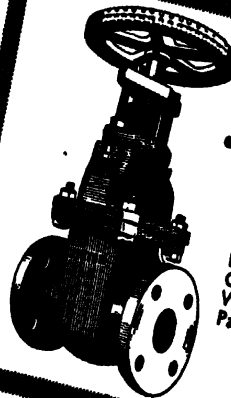
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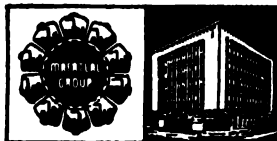
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The Laboratory is well equipped for the work it is intended to do, with up-to-date machinery, chemical plants designed for highly specialised work, and a fully equipped Chemical Control Laboratory. Highly qualified chemists and trained skilled workers are in charge of all manufacturing operations.

The Laboratory has made rapid progress within the past few years and expanded the lines of manufacture such as galenicals, medicinal specialties (like Vitoferrin, Gripe Syrup, Sedatin, Iteol-3, etc.), fine chemicals (like Citrates, Acetates, Amyl Alcohol, Amyl Nitrate, Methanol-G.R., etc.), glandular extract (like Reticulin brand Liver Extract) and injectables. THE PLANT FOR MANUFACTURE OF MALT EXTRACT ON A LARGE SCALE HAS GONE INTO PRODUCTION RECENTLY.

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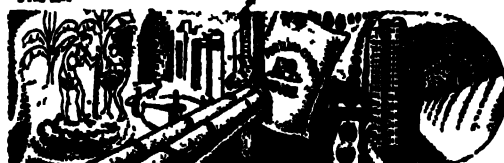
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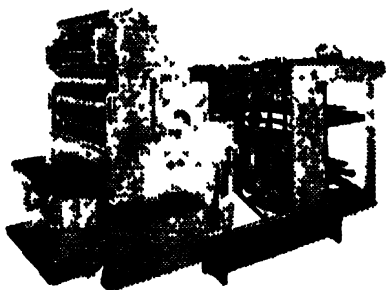


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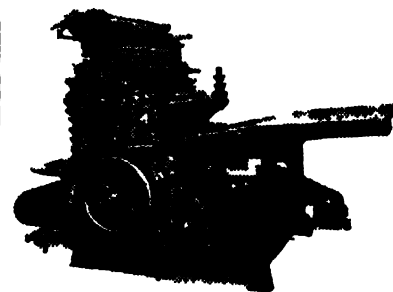
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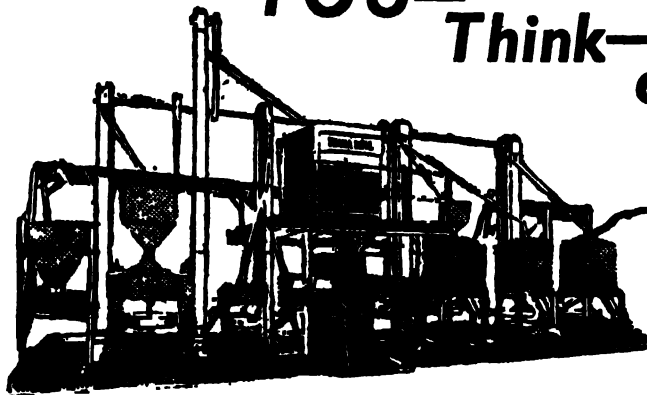
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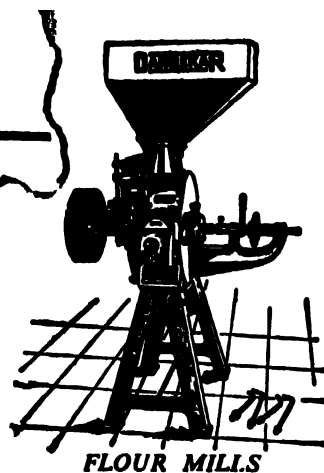
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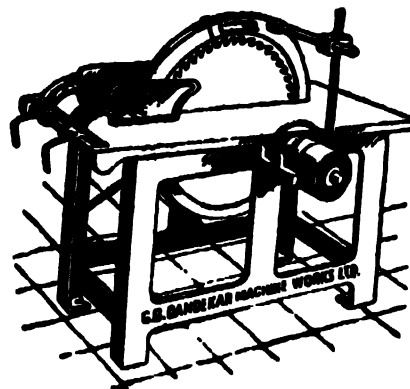
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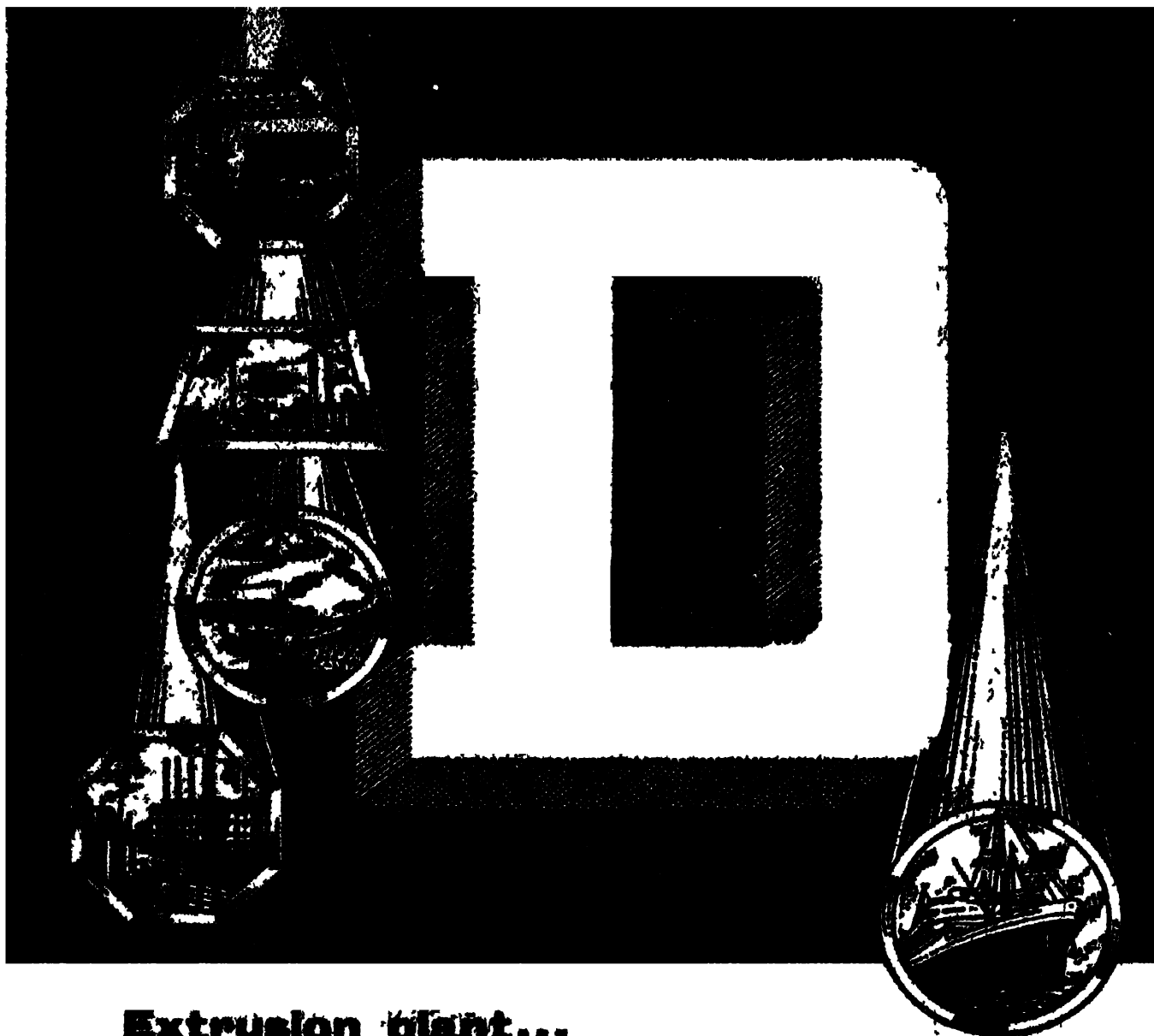
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